Representation Learning: A Review and New Perspectiv

Citation Report

#	ARTICLE	IF	CITATIONS
2	Notes on the Velocity Microphone<xref ref-type="fn" rid="fn1-10.5594_J01911">*</xref>. Journal of the Society of Motion Picture Engineers, 1937, 29, 629-634.	0.2	2
4	LIC For Surface Flow Feature Detection. , 1997, , .		1
5	On adaptive reduced-complexity iterative decoding. , 0, , .		10
6	Controller design for a stirling micro-cogenerator emulator. , 2007, , .		0
7	Fast sparse representation approaches for the classification of high-dimensional biological data. , 2012, , .		11
8	Auto-encoder Based Data Clustering. Lecture Notes in Computer Science, 2013, , 117-124.	1.0	103
9	Sparse representation approaches for the classification of high-dimensional biological data. BMC Systems Biology, 2013, 7, S6.	3.0	35
10	Stacked calibration of off-policy policy evaluation for video game matchmaking. , 2013, , .		0
11	A novel efficient method for training sparse auto-encoders. , 2013, , .		7
12	Hybrid acoustic models for distant and multichannel large vocabulary speech recognition. , 2013, , .		70
13	Recent advances in deep learning for speech research at Microsoft. , 2013, , .		500
14	Semi-supervised Dual Recurrent Neural Network for Sentiment Analysis. , 2013, , .		7
15	A novel sparse auto-encoder for deep unsupervised learning. , 2013, , .		22
16	Deep Learning of Representations: Looking Forward. Lecture Notes in Computer Science, 2013, , 1-37.	1.0	276
17	Multilingual training of deep neural networks. , 2013, , .		121
18	Recent Progress on Object Classification and Detection. Lecture Notes in Computer Science, 2013, , 1-8.	1.0	2
19	Hybrid image representation learning model with invariant features for basal cell carcinoma detection. , 2013, , .		7
20	Modeling language and cognition with deep unsupervised learning: a tutorial overview. Frontiers in Psychology, 2013, 4, 515.	1.1	56

#	Article	IF	Citations
21	Grand Challenges for Computational Intelligence. Frontiers in Robotics and AI, 2014, 1, .	2.0	8
22	Why vision is not both hierarchical and feedforward. Frontiers in Computational Neuroscience, 2014, 8, 135.	1.2	24
23	Sufficient Forecasting Using Factor Models. SSRN Electronic Journal, 2014, , .	0.4	2
26	Supervised modulation classification based on ambiguity function image and invariant moments. , 2014, , .		7
28	Classification of land cover based on deep belief networks using polarimetric RADARSAT-2 data. , 2014, , .		4
29	Stacked Sparse Autoencoder (SSAE) based framework for nuclei patch classification on breast cancer histopathology. , 2014, , .		57
30	LabelMovie: Semi-supervised machine annotation tool with quality assurance and crowd-sourcing options for videos. , 2014, , .		10
31	Introducing shared-hidden-layer autoencoders for transfer learning and their application in acoustic emotion recognition. , 2014, , .		57
32	Deep learning for brain decoding. , 2014, , .		9
33	Deep auto-encoder based clustering. Intelligent Data Analysis, 2014, 18, S65-S76.	0.4	27
34	DeepWalk. , 2014, , .		5,740
35	A tutorial survey of architectures, algorithms, and applications for deep learning. APSIPA Transactions on Signal and Information Processing, 2014, 3, .	2.6	338
36	Audio Features in Music Information Retrieval. Lecture Notes in Computer Science, 2014, , 187-199.	1.0	9
37	On latent fingerprint minutiae extraction using stacked denoising sparse AutoEncoders. , 2014, , .		28
38	MDLFace: Memorability augmented deep learning for video face recognition. , 2014, , .		39
39	The Two-Stage Analog Neural Network Model and Hardware Implementation. , 2014, , .		2
40	Unsupervised Feature Learning Improves Prediction of Human Brain Activity in Response to Natural Images. PLoS Computational Biology, 2014, 10, e1003724.	1.5	45
41	More Personality in Personality Computing. IEEE Transactions on Affective Computing, 2014, 5, 297-300.	5.7	26

#	ARTICLE	IF	CITATIONS
42	Deep learning of the tissue-regulated splicing code. Bioinformatics, 2014, 30, i121-i129.	1.8	371
43	Product Name Recognition for Informal Text: Exploring Features. Applied Mechanics and Materials, 0, 551, 617-620.	0.2	0
44	Improved XCS in Classification Problems. Advanced Materials Research, 0, 1044-1045, 1182-1185.	0.3	0
45	Improving Deep Neural Network Performance by Reusing Features Trained with Transductive Transference. Lecture Notes in Computer Science, 2014, , 265-272.	1.0	33
46	Evolutionary single hidden-layer feed forward networks. International Journal of Innovative Computing and Applications, 2014, 6, 73.	0.2	0
47	Monophonic sound source separation by non-negative sparse autoencoders. , 2014, , .		4
48	An MQDF-CNN Hybrid Model for Offline Handwritten Chinese Character Recognition. , 2014, , .		10
49	Transfer learning and active transfer learning for reducing calibration data in single-trial classification of visually-evoked potentials. , 2014, , .		44
50	Linked Source and Target Domain Subspace Feature Transfer Learning -- Exemplified by Speech Emotion Recognition. , 2014, , .		19
51	Scene Text Analysis using Deep Belief Networks. , 2014, , .		6
52	Performance evaluation of typical unsupervised feature learning algorithms for visual object recognition. , 2014, , .		0
53	Deep Model for Classification of Hyperspectral image using Restricted Boltzmann Machine. , 2014, , .		32
54	Cognitive Multimodal Processing. , 2014, , .		3
55	Automatic detection of invasive ductal carcinoma in whole slide images with convolutional neural networks. Proceedings of SPIE, 2014, , .	0.8	224
56	CARS2. , 2014, , .		28
57	Video summarization based on Subclass Support Vector Data Description. , 2014, , .		8
58	An automatic setting for training restricted boltzmann machine. , 2014, , .		4
59	Neural Networks for Emotion Recognition in the Wild. , 2014, , .		1

#	ARTICLE	IF	CITATIONS
60	Deep learning vector quantization for acoustic information retrieval. , 2014, , .		6
61	Robust Text Detection in Natural Scene Images by Generalized Color-Enhanced Contrasting Extremal Region and Neural Networks. , 2014, , .		29
62	Human vs. Computer in Scene and Object Recognition. , 2014, , .		27
63	Reducing structure of deep Convolutional Neural Networks for Huawei Accurate and Fast Mobile Video Annotation Challenge. , 2014, , .		2
64	Multi-source Deep Learning for Human Pose Estimation. , 2014, , .		177
65	Granular computing with multiple granular layers for brain big data processing. Brain Informatics, 2014, 1, 1-10.	1.8	20
66	Dictionary Learning for Analysis-Synthesis Thresholding. IEEE Transactions on Signal Processing, 2014, 62, 5962-5972.	3.2	41
67	Cardiac MRI view classification using autoencoder. , 2014, , .		1
68	Restricted Boltzmann Machines for Gender Classification. Lecture Notes in Computer Science, 2014, , 274-281.	1.0	0
69	Boosting VLAD with Supervised Dictionary Learning and High-Order Statistics. Lecture Notes in Computer Science, 2014, , 660-674.	1.0	36
70	Shallow Classification or Deep Learning: An Experimental Study. , 2014, , .		6
71	Brand Classification Using Distributed Representation. Advanced Materials Research, 0, 950, 361-364.	0.3	0
72	Classification of hyperspectral image based on deep belief networks. , 2014, , .		131
73	Representational learning for sonar ATR. Proceedings of SPIE, 2014, , .	0.8	6
74	Image-based Analysis to Study Plant Infection with Human Pathogens. Computational and Structural Biotechnology Journal, 2014, 12, 1-6.	1.9	17
75	Improving transfer learning accuracy by reusing Stacked Denoising Autoencoders. , 2014, , .		24
76	Deep Twin Support Vector Machine. , 2014, , .		2
78	Robust Deep Learning for Improved Classification of AD/MCI Patients. Lecture Notes in Computer Science, 2014, , 240-247.	1.0	23

#	Article	IF	Citations
79	Feature extraction with stacked autoencoders for epileptic seizure detection. , 2014, 2014, 4184-7.		44
80	Person/vehicle classification based on deep belief networks. , 2014, , .		6
81	Representation Learning for Contextual Object and Region Detection in Remote Sensing. , 2014, , .		19
82	On MAP and MMSE estimators for the co-sparse analysis model. , 2014, 28, 57-74.		11
83	Good Practice in Large-Scale Learning for Image Classification. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2014, 36, 507-520.	9.7	114
84	Data-intensive applications, challenges, techniques and technologies: A survey on Big Data. Information Sciences, 2014, 275, 314-347.	4.0	2,076
85	A deep learning approach to the classification of 3D CAD models. Journal of Zhejiang University: Science C, 2014, 15, 91-106.	0.7	47
86	Computational neuroscience: beyond the local circuit. Current Opinion in Neurobiology, 2014, 25, xiii-xviii.	2.0	35
87	Learning Deep and Wide: A Spectral Method for Learning Deep Networks. IEEE Transactions on Neural Networks and Learning Systems, 2014, 25, 2303-2308.	7.2	127
88	Hierarchical kernel-based rotation and scale invariant similarity. Pattern Recognition, 2014, 47, 1674-1688.	5.1	12
89	Deep Fisher Kernels -- End to End Learning of the Fisher Kernel GMM Parameters. , 2014, , .		52
90	Neural Network Based Pitch Tracking in Very Noisy Speech. IEEE/ACM Transactions on Audio Speech and Language Processing, 2014, 22, 2158-2168.	4.0	71
91	Learning Salient Features for Speech Emotion <newline/>Recognition Using Convolutional <newline/>Neural Networks. IEEE Transactions on Multimedia, 2014, 16, 2203-2213.	5.2	460
92	Convolutional Neural Networks for No-Reference Image Quality Assessment. , 2014, , .		654
93	Exploiting the deep learning paradigm for recognizing human actions. , 2014, , .		26
94	Learning Non-linear Reconstruction Models for Image Set Classification. , 2014, , .		47
95	Dynamic Texture Recognition Using Multiscale Binarized Statistical Image Features. IEEE Transactions on Multimedia, 2014, 16, 2099-2109.	5.2	66
97	Process data analytics in the era of big data. AICHE Journal, 2014, 60, 3092-3100.	1.8	309

#	Article	IF	Citations
98	A decomposition method for large-scale sparse coding in representation learning. , 2014, , .		3
99	Deep Learning-Based Classification of Hyperspectral Data. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2014, 7, 2094-2107.	2.3	1,992
100	Unsupervised feature extraction for multimedia event detection and ranking using audio content. , 2014, , .		7
101	Feature extraction, feature selection and machine learning for image classification: A case study. , 2014, , .		21
102	Automated identification of cell-type-specific genes in the mouse brain by image computing of expression patterns. BMC Bioinformatics, 2014, 15, 209.	1.2	7
103	Big data classification. Performance Evaluation Review, 2014, 41, 70-73.	0.4	258
104	Autoencoder-based Unsupervised Domain Adaptation for Speech Emotion Recognition. IEEE Signal Processing Letters, 2014, 21, 1068-1072.	2.1	263
105	From Animals to Animats 13. Lecture Notes in Computer Science, 2014, , .	1.0	1
106	Complete discriminative feature learning: A new approach for heterogeneous face recognition. , 2014, , .		3
107	Exploring biologically inspired shallow model for visual classification. Signal Processing, 2014, 105, 1-11.	2.1	1
108	Automatic large-scale classification of bird sounds is strongly improved by unsupervised feature learning. PeerJ, 2014, 2, e488.	0.9	195
109	Semi-Supervised Learning via Geodesic Weighted Sparse Representation. IEICE Transactions on Information and Systems, 2014, E97.D, 1673-1676.	0.4	1
110	Learning Convolutional Domain-Robust Representations for Cross-View Face Recognition. IEICE Transactions on Information and Systems, 2014, E97.D, 3239-3243.	0.4	0
111	Improving Performance on Problems with Few Labelled Data by Reusing Stacked Auto-Encoders. , 2014, , .		5
112	Probabilistic graphs using coupled random variables. Proceedings of SPIE, 2014, , .	0.8	1
113	Scalable Learning of Entity and Predicate Embeddings for Knowledge Graph Completion. , 2015, , .		15
114	Mind Wandering While Driving. Proceedings of the Human Factors and Ergonomics Society, 2015, 59, 1686-1690.	0.2	7
115	Statistically Significant Detection of Linguistic Change. , 2015, , .		210

#	Article	IF	Citations
116	Bone disease prediction and phenotype discovery using feature representation over electronic health records. , 2015, , .		5
117	Unsupervised Learning of Visual Representations Using Videos. , 2015, , .		584
118	Online marginalized linear stacked denoising autoencoders for learning from big data stream. , 2015, , .		3
119	Orientation robust object detection in aerial images using deep convolutional neural network. , 2015, , .		234
120	PoseNet: A Convolutional Network for Real-Time 6-DOF Camera Relocalization. , 2015, , .		1,298
121	Gradient-guided filtering of depth maps using deep neural networks. , 2015, , .		5
122	Learning state representations with robotic priors. Autonomous Robots, 2015, 39, 407-428.	3.2	79
123	Learning Predictive State Representations for planning. , 2015, , .		0
124	R2FP: Rich and Robust Feature Pooling for Mining Visual Data. , 2015, , .		1
125	A feature generation framework for Google trace analysis. , 2015, , .		1
126	Advanced mean-field theory of the restricted Boltzmann machine. Physical Review E, 2015, 91, 050101.	0.8	29
127	Subdominant Dense Clusters Allow for Simple Learning and High Computational Performance in Neural Networks with Discrete Synapses. Physical Review Letters, 2015, 115, 128101.	2.9	68
129	A review on advances in deep learning. , 2015, , .		27
130	Supervised Denoising Pre-Training for Robust ASR with DNN-HMM. IEICE Transactions on Information and Systems, 2015, E98.D, 2345-2348.	0.4	0
131	CAMELOT: A machine learning approach for coarse-grained simulations of aggregation of block-copolymeric protein sequences. Journal of Chemical Physics, 2015, 143, 243123.	1.2	75
132	Identifying outcome-discriminative dynamics in multivariate physiological cohort time series. , 2015, , 283-301.		6
133	Generic Object Recognition with Local Receptive Fields Based Extreme Learning Machine. Procedia Computer Science, 2015, 53, 391-399.	1.2	22
134	Modeling the perception of tempo. Journal of the Acoustical Society of America, 2015, 137, 3163-3177.	0.5	7

#	Article	IF	Citations
135	Low-rank forward models: A path to the self-organization of visuo-motor systems. , 2015, , .		0
136	Stochastic Gradient Variational Bayes for deep learning-based ASR. , 2015, , .		4
137	Domain Generalization for Object Recognition with Multi-task Autoencoders. , 2015, , .		323
138	Analog Neural Circuit and Hardware Design of Deep Learning Model. Procedia Computer Science, 2015, 60, 976-985.	1.2	6
139	Autonomous Learning of Representations. KI - Kunstliche Intelligenz, 2015, 29, 339-351.	2.2	4
140	Bilingual lexicon extraction using locally weighted linear regression from comparable corpora. , 2015, , .		0
141	Research on Behavior Trust Based on Bayesian Inference in Trusted Computing Networks. , 2015, , .		3
142	Look and Think Twice: Capturing Top-Down Visual Attention with Feedback Convolutional Neural Networks. , 2015, , .		249
143	The cross-field DBN for image recognition. , 2015, , .		0
144	Deep learning for sentiment analysis: successful approaches and future challenges. Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery, 2015, 5, 292-303.	4.6	115
145	Probabilistic slow feature analysis€based representation learning from massive process data for soft sensor modeling. AICHE Journal, 2015, 61, 4126-4139.	1.8	105
146	Sparse autoencoder based spatial pyramid facial feature learning. , 2015, , .		0
147	III Pre-Specific Modeling: Computational Machines in a Coexistence with Concrete Universals and Data Streams. , 2015, , 132-167.		1
148	A Short Review of Deep Learning Neural Networks in Protein Structure Prediction Problems. Advanced Techniques in Biology & Medicine, 2015, 03, .	0.1	18
149	Hierarchical Recognition System for Target Recognition from Sparse Representations. Mathematical Problems in Engineering, 2015, 2015, 1-6.	0.6	15
150	Transferring Deep Convolutional Neural Networks for the Scene Classification of High-Resolution Remote Sensing Imagery. Remote Sensing, 2015, 7, 14680-14707.	1.8	949
151	A novel biomarker of amnestic MCI based on dynamic cross-frequency coupling patterns during cognitive brain responses. Frontiers in Neuroscience, 2015, 9, 350.	1.4	87
152	Multi-Sensor Data Fusion Techniques for RPAS Detect, Track and Avoid. , 0, , .		6

#	Article	IF	Citations
153	Mirrored STDP Implements Autoencoder Learning in a Network of Spiking Neurons. PLoS Computational Biology, 2015, 11, e1004566.	1.5	40
154	Learning Document Semantic Representation with Hybrid Deep Belief Network. Computational Intelligence and Neuroscience, 2015, 2015, 1-9.	1.1	13
155	Classification of Cancer Primary Sites Using Machine Learning and Somatic Mutations. BioMed Research International, 2015, 2015, 1-9.	0.9	20
156	An Analysis and Application of Fast Nonnegative Orthogonal Matching Pursuit for Image Categorization in Deep Networks. Mathematical Problems in Engineering, 2015, 2015, 1-9.	0.6	1
157	Urban Land Use and Land Cover Classification Using Remotely Sensed SAR Data through Deep Belief Networks. Journal of Sensors, 2015, 2015, 1-10.	0.6	88
158	Social Media Content Analysis in the Higher Education Sector. International Journal of Web Portals, 2015, 7, 16-32.	1.1	7
159	Spectralâ€"spatial classification of hyperspectral images using deep convolutional neural networks. Remote Sensing Letters, 2015, 6, 468-477.	0.6	406
160	Deep learning. Nature, 2015, 521, 436-444.	13.7	52,813
161	Stacked Multilayer Self-Organizing Map for Background Modeling. IEEE Transactions on Image Processing, 2015, 24, 2841-2850.	6.0	28
162	On simplicity and complexity in the brave new world of large-scale neuroscience. Current Opinion in Neurobiology, 2015, 32, 148-155.	2.0	320
163	Many regression algorithms, one unified model: A review. Neural Networks, 2015, 69, 60-79.	3.3	139
164	Learning Sparse FRAME Models for Natural Image Patterns. International Journal of Computer Vision, 2015, 114, 91-112.	10.9	29
166	A handwriting recognition system for the classroom. , 2015, , .		7
167	Multi-label Object Categorization Using Histograms of Global Relations. , 2015, , .		1
168	Investigation of ensemble models for sequence learning. , 2015, , .		1
169	Deep convolutional neural networks based on semi-discrete frames. , 2015, , .		12
170	A Preliminary Study on Deep-Learning Based Screaming Sound Detection. , 2015, , .		11
171	Grasp type revisited: A modern perspective on a classical feature for vision. , 2015, , .		42

#	ARTICLE	IF	CITATIONS
172	Two-dimensional multi-layer Factor Graphs in Reduced Normal Form. , 2015, , .		5
173	Deep Neural Networks with Parallel Autoencoders for Learning Pairwise Relations: Handwritten Digits Subtraction. , 2015, , .		5
174	Learning Efficiently- The Deep CNNs-Tree Network. , 2015, , .		0
175	S-vector: A discriminative representation derived from i-vector for speaker verification. , 2015, , .		18
176	An empirical analysis of different sparse penalties for autoencoder in unsupervised feature learning. , 2015, , .		17
177	Boosting compound-protein interaction prediction by deep learning. , 2015, , .		3
178	Design of the 2015 ChaLearn AutoML challenge. , 2015, , .		59
179	Deep Computation Model for Unsupervised Feature Learning on Big Data. IEEE Transactions on Services Computing, 2016, 9, 161-171.	3.2	115
180	An Approach to Iris Contact Lens Detection Based on Deep Image Representations. , 2015, , .		41
181	Analog Neural Circuit with Switched Capacitor and Design of Deep Learning Model. , 2015, , .		7
182	Localized Deep Extreme Learning Machines for Efficient RGB-D Object Recognition. , 2015, , .		7
183	Deep Learning for Wind Speed Forecasting in Northeastern Region of Brazil. , 2015, , .		14
184	Deep Learning-Based Man-Made Object Detection from Hyperspectral Data. Lecture Notes in Computer Science, 2015, , 717-727.	1.0	27
185	Laplacian matrix learning for smooth graph signal representation. , 2015, , .		37
186	Learning Deep Representation with Large-Scale Attributes. , 2015, , .		14
187	Wishart RBM based DBN for polarimetric synthetic radar data classification. , 2015, , .		24
188	The Evolution of Neural Learning Systems: A Novel Architecture Combining the Strengths of NTs, CNNs, and ELMs. IEEE Systems, Man, and Cybernetics Magazine, 2015, 1, 17-26.	1.2	10
189	Autoencoding the retrieval relevance of medical images. , 2015, , .		28

#	ARTICLE	IF	CITATIONS
190	Learning Running-time Prediction Models for Gene-Expression Analysis Workflows. IEEE Latin America Transactions, 2015, 13, 3088-3095.	1.2	0
191	Robust deep neural network for wind speed prediction. , 2015, , .		24
192	Representation learning by Denoising Autoencoders for Clustering-based Classification. , 2015, , .		6
193	Stacked bottleneck features for speaker verification. , 2015, , .		0
194	Mapping the cardiac acousteome: An overview of technologies, tools and methods. , 2015, , .		3
195	Convolutional neural networks for mammography mass lesion classification. , 2015, 2015, 797-800.		88
196	A method for medulloblastoma tumor differentiation based on convolutional neural networks and transfer learning. Proceedings of SPIE, 2015, , .	0.8	20
197	Human-pose estimation with neural-network realization. , 2015, , .		0
198	Privacy Preserving Back-Propagation Based on BGV on Cloud. , 2015, , .		14
199	Image hashing basing on joint learning of multi-dimension features. , 2015, , .		0
200	Localization based stereo speech separation using deep networks. , 2015, , .		2
201	RGB-D Object Recognition via Incorporating Latent Data Structure and Prior Knowledge. IEEE Transactions on Multimedia, 2015, 17, 1899-1908.	5.2	49
202	Bregman pooling: feature-space local pooling for image classification. International Journal of Multimedia Information Retrieval, 2015, 4, 247-259.	3.6	0
204	Incrementally Built Dictionary Learning for Sparse Representation. Lecture Notes in Computer Science, 2015, , 117-126.	1.0	4
205	An experimental study of speech emotion recognition based on deep convolutional neural networks. , 2015, , .		107
206	Can we Automatically Transform Speech Recorded on Common Consumer Devices in Real-World Environments into Professional Production Quality Speech?â€"A Dataset, Insights, and Challenges. IEEE Signal Processing Letters, 2015, 22, 1006-1010.	2.1	32
207	Scene classification based on single-layer SAE and SVM. Expert Systems With Applications, 2015, 42, 3368-3380.	4.4	63
208	Interdisciplinary Concepts for Design and Implementation of Mixed Reality Interactive Neurorehabilitation Systems for Stroke. Physical Therapy, 2015, 95, 449-460.	1.1	22

#	Article	IF	Citations
209	Sentiment-Specific Representation Learning for Document-Level Sentiment Analysis. , 2015, , .		35
210	Learning Feature Representations with a Cost-Relevant Sparse Autoencoder. International Journal of Neural Systems, 2015, 25, 1450034.	3.2	18
211	Coupled Discriminative Feature Learning for Heterogeneous Face Recognition. IEEE Transactions on Information Forensics and Security, 2015, 10, 640-652.	4.5	82
212	Spectralâ€"Spatial Classification of Hyperspectral Data Based on Deep Belief Network. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2015, 8, 2381-2392.	2.3	974
213	Creativity evaluation in a cognitive architecture. Biologically Inspired Cognitive Architectures, 2015, 11, 29-37.	0.9	15
215	Unsupervised dictionary extraction of bird vocalisations and new tools on assessing and visualising bird activity. Ecological Informatics, 2015, 26, 6-17.	2.3	18
216	Improved mispronunciation detection with deep neural network trained acoustic models and transfer learning based logistic regression classifiers. Speech Communication, 2015, 67, 154-166.	1.6	136
217	Extreme learning machines: new trends and applications. Science China Information Sciences, 2015, 58, 1-16.	2.7	85
218	lncRNA-MFDL: identification of human long non-coding RNAs by fusing multiple features and using deep learning. Molecular BioSystems, 2015, 11, 892-897.	2.9	82
219	Prototype-Based Discriminative Feature Learning for Kinship Verification. IEEE Transactions on Cybernetics, 2015, 45, 2535-2545.	6.2	182
220	Analysis of Different Sparsity Methods in Constrained RBM for Sparse Representation in Cognitive Robotic Perception. Journal of Intelligent and Robotic Systems: Theory and Applications, 2015, 80, 121-132.	2.0	12
221	Disease Inference from Health-Related Questions via Sparse Deep Learning. IEEE Transactions on Knowledge and Data Engineering, 2015, 27, 2107-2119.	4.0	155
222	Learning vector representation of medical objects via EMR-driven nonnegative restricted Boltzmann machines (eNRBM). Journal of Biomedical Informatics, 2015, 54, 96-105.	2.5	123
223	Image Analysis. Lecture Notes in Computer Science, 2015, , .	1.0	2
224	The interface between forensic science and technology: how technology could cause a paradigm shift in the role of forensic institutes in the criminal justice system. Philosophical Transactions of the Royal Society B: Biological Sciences, 2015, 370, 20140264.	1.8	45
225	Mask selective regularization for restricted Boltzmann machines. Neurocomputing, 2015, 165, 375-383.	3.5	3
226	Deep learning for regulatory genomics. Nature Biotechnology, 2015, 33, 825-826.	9.4	140
227	Background Prior-Based Salient Object Detection via Deep Reconstruction Residual. IEEE Transactions on Circuits and Systems for Video Technology, 2015, 25, 1309-1321.	5.6	334

#	ARTICLE	IF	CITATIONS
228	What Is Machine Learning?. , 2015, , 3-11.		261
229	Multiple deep convolutional neural networks averaging for face alignment. Journal of Electronic Imaging, 2015, 24, 033013.	0.5	9
230	Predictive Deep Boltzmann Machine for Multiperiod Wind Speed Forecasting. IEEE Transactions on Sustainable Energy, 2015, 6, 1416-1425.	5.9	186
231	Hyperspectral classification <i>via</i> deep networks and superpixel segmentation. International Journal of Remote Sensing, 2015, 36, 3459-3482.	1.3	63
232	Discriminative Relational Topic Models. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2015, 37, 973-986.	9.7	22
233	Deep learning and face recognition: the state of the art. Proceedings of SPIE, 2015, , .	0.8	35
234	Big Data: An Introduction. Studies in Big Data, 2015, , 1-28.	0.8	9
235	Deep convolutional neural networks for ATR from SAR imagery. Proceedings of SPIE, 2015, , .	0.8	82
236	Part Detector Discovery in Deep Convolutional Neural Networks. Lecture Notes in Computer Science, 2015, , 162-177.	1.0	16
237	Deep and Modular Neural Networks. , 2015, , 473-494.		11
238	Feature representation for statistical-learning-based object detection: A review. Pattern Recognition, 2015, 48, 3542-3559.	5.1	77
239	A robust approach for text detection from natural scene images. Pattern Recognition, 2015, 48, 2906-2920.	5.1	88
240	Local regularization concept factorization and its semi-supervised extension for image representation. Neurocomputing, 2015, 158, 1-12.	3.5	30
241	Self-taught learning of a deep invariant representation for visual tracking via temporal slowness principle. Pattern Recognition, 2015, 48, 2964-2982.	5.1	34
242	Efficient Machine Learning for Big Data: A Review. Big Data Research, 2015, 2, 87-93.	2.6	425
243	Modeling false positive error making patterns in radiology trainees for improved mammography education. Journal of Biomedical Informatics, 2015, 54, 50-57.	2.5	14
244	An unsupervised feature learning framework for basal cell carcinoma image analysis. Artificial Intelligence in Medicine, 2015, 64, 131-145.	3.8	80
245	Dictionary Learning for Fast Classification Based on Soft-thresholding. International Journal of Computer Vision, 2015, 114, 306-321.	10.9	25

#	Article	IF	Citations
246	Towards an Embodied Developing Vision System. KI - Kunstliche Intelligenz, 2015, 29, 41-50.	2.2	0
247	Open Challenges in Modelling, Analysis and Synthesis of Human Behaviour in Human–Human and Human–Machine Interactions. Cognitive Computation, 2015, 7, 397-413.	3.6	72
248	Laplacian Auto-Encoders: An explicit learning of nonlinear data manifold. Neurocomputing, 2015, 160, 250-260.	3.5	60
249	Sparse Non-negative Matrix Factorization (SNMF) based color unmixing for breast histopathological image analysis. Computerized Medical Imaging and Graphics, 2015, 46, 20-29.	3.5	54
250	Deep learning applications and challenges in big data analytics. Journal of Big Data, 2015, 2, .	6.9	1,661
251	Fuzzy Restricted Boltzmann Machine for the Enhancement of Deep Learning. IEEE Transactions on Fuzzy Systems, 2015, 23, 2163-2173.	6.5	187
252	Facial Expression Recognition via Deep Learning. IETE Technical Review (Institution of Electronics and) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	2.1	88
253	A Robust Deep Model for Improved Classification of AD/MCI Patients. IEEE Journal of Biomedical and Health Informatics, 2015, 19, 1610-1616.	3.9	223
254	CRF learning with CNN features for image segmentation. Pattern Recognition, 2015, 48, 2983-2992.	5.1	177
256	A comparative evaluation of supervised and unsupervised representation learning approaches for anaplastic medulloblastoma differentiation. , 2015, , .		7
257	Learning Feature Hierarchies: A Layer-Wise Tag-Embedded Approach. IEEE Transactions on Multimedia, 2015, 17, 816-827.	5.2	9
258	IODA: An input/output deep architecture for image labeling. Pattern Recognition, 2015, 48, 2847-2858.	5.1	26
259	Multimodal Neuroimaging Feature Learning for Multiclass Diagnosis of Alzheimer's Disease. IEEE Transactions on Biomedical Engineering, 2015, 62, 1132-1140.	2.5	432
260	Methods for derivation of orthogonal leads from 12-lead electrocardiogram: A review. Biomedical Signal Processing and Control, 2015, 19, 23-34.	3.5	25
261	Radar high–resolution range profile recognition via geodesic weighted sparse representation. IET Radar, Sonar and Navigation, 2015, 9, 75-83.	0.9	16
262	Object Detection in Optical Remote Sensing Images Based on Weakly Supervised Learning and High-Level Feature Learning. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 3325-3337.	2.7	620
263	Learning predictable binary codes for face indexing. Pattern Recognition, 2015, 48, 3160-3168.	5.1	26
264	Wafer Map Failure Pattern Recognition and Similarity Ranking for Large-Scale Data Sets. IEEE Transactions on Semiconductor Manufacturing, 2015, 28, 1-12.	1.4	197

#	ARTICLE	IF	CITATIONS
265	Computer Vision. Communications in Computer and Information Science, 2015, , .	0.4	1
266	PTE. , 2015, , .		528
267	The effect of different hidden unit number of sparse autoencoder. , 2015, , .		10
268	Imaging‐based enrichment criteria using deep learning algorithms for efficient clinical trials in mild cognitive impairment. Alzheimer's and Dementia, 2015, 11, 1489-1499.	0.4	57
269	Stacked PCA Network (SPCANet): An effective deep learning for face recognition. , 2015, , .		23
270	PCANet: A Simple Deep Learning Baseline for Image Classification?. IEEE Transactions on Image Processing, 2015, 24, 5017-5032.	6.0	1,245
271	A Strict Pyramidal Deep Neural Network for Action Recognition. Lecture Notes in Computer Science, 2015, , 236-245.	1.0	5
272	The identification of cis-regulatory elements: A review from a machine learning perspective. BioSystems, 2015, 138, 6-17.	0.9	51
273	Neuron sparseness versus connection sparseness in deep neural network for large vocabulary speech recognition. , 2015, , .		1
274	Fusion of learned multi-modal representations and dense trajectories for emotional analysis in videos. , 2015, , .		5
275	Multimodal neuroimaging computing: the workflows, methods, and platforms. Brain Informatics, 2015, 2, 181-195.	1.8	22
276	Unconstrained Multimodal Multi-Label Learning. IEEE Transactions on Multimedia, 2015, 17, 1923-1935.	5.2	48
277	Multi-Task CNN Model for Attribute Prediction. IEEE Transactions on Multimedia, 2015, 17, 1949-1959.	5.2	209
278	Recognizing Depression from Twitter Activity. , 2015, , .		197
279	Detecting abnormal behaviors in surveillance videos based on fuzzy clustering and multiple Auto-Encoders. , 2015, , .		7
280	Toward Discovery of the Artist's Style: Learning to recognize artists by their artworks. IEEE Signal Processing Magazine, 2015, 32, 46-54.	4.6	83
281	Smart Information Reconstruction via Time-Space-Spectrum Continuum for Cloud Removal in Satellite Images. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2015, 8, 1898-1912.	2.3	27
282	Learning Distributions of Image Features by Interactive Fuzzy Lattice Reasoning in Pattern Recognition Applications. IEEE Computational Intelligence Magazine, 2015, 10, 42-51.	3.4	41

#	ARTICLE	IF	CITATIONS
283	A Joint Segmentation and Classification Framework for Sentence Level Sentiment Classification. IEEE/ACM Transactions on Audio Speech and Language Processing, 2015, 23, 1750-1761.	4.0	66
284	Evaluating Two-Stream CNN for Video Classification. , 2015, , .		75
285	Tumor Classification by Deep Polynomial Network and Multiple Kernel Learning on Small Ultrasound Image Dataset. Lecture Notes in Computer Science, 2015, , 313-320.	1.0	7
286	Speaker Recognition by Machines and Humans: A tutorial review. IEEE Signal Processing Magazine, 2015, 32, 74-99.	4.6	420
287	Deep learning for multi-label land cover classification. , 2015, , .		7
288	Robust Segmentation of Various Anatomies in 3D Ultrasound Using Hough Forests and Learned Data Representations. Lecture Notes in Computer Science, 2015, , 111-118.	1.0	6
290	Towards integrated neural–symbolic systems for human-level AI: Two research programs helping to bridge the gaps. Biologically Inspired Cognitive Architectures, 2015, 14, 97-110.	0.9	12
291	Representation Learning for Single-Channel Source Separation and Bandwidth Extension. IEEE/ACM Transactions on Audio Speech and Language Processing, 2015, 23, 2398-2409.	4.0	17
292	Machine Learning in Medical Imaging. Lecture Notes in Computer Science, 2015, , .	1.0	7
294	A comparative study of two prediction models for brain tumor progression. , 2015, , .		1
295	Face expression recognition with a 2-channel Convolutional Neural Network. , 2015, , .		84
296	Face recognition: a novel deep learning approach. Journal of Optical Technology (A Translation of) Tj ETQq1 1 0.784314 rgBT /Overloc	0.2	6
297	Large Margin Coupled Feature Learning for cross-modal face recognition. , 2015, , .		10
298	Feature selection and feature learning for high-dimensional batch reinforcement learning: A survey. International Journal of Automation and Computing, 2015, 12, 229-242.	4.5	28
299	Hierarchical Image Representation Using Deep Network. Lecture Notes in Computer Science, 2015, , 66-77.	1.0	0
300	2-D regularized locality preserving projection algorithms for temporospatial feature reduction and its application in industrial data regression. Neurocomputing, 2015, 169, 373-382.	3.5	3
301	Deep Model Based Transfer and Multi-Task Learning for Biological Image Analysis. , 2015, , .		82
302	Methodologies for Cross-Domain Data Fusion: An Overview. IEEE Transactions on Big Data, 2015, 1, 16-34.	4.4	289

#	Article	IF	Citations
303	Deep learning and the information bottleneck principle. , 2015, , .		479
304	â€˜Big dataâ€™ for pedestrian volume: Exploring the use of Google Street View images for pedestrian counts. Applied Geography, 2015, 63, 337-345.	1.7	149
305	Deep neural networks for ultra-short-term wind forecasting. , 2015, , .		58
307	NMFE-SSCC: Non-negative matrix factorization ensemble for semi-supervised collective classification. Knowledge-Based Systems, 2015, 89, 160-172.	4.0	17
309	Combining sparse NMF with deep neural network: A new classification-based approach for speech enhancement. , 2015, , .		11
310	Towards dropout training for convolutional neural networks. Neural Networks, 2015, 71, 1-10.	3.3	204
311	A Multiobjective Sparse Feature Learning Model for Deep Neural Networks. IEEE Transactions on Neural Networks and Learning Systems, 2015, 26, 3263-3277.	7.2	172
312	SRDANet: An Efficient Deep Learning Algorithm for Face Analysis. Lecture Notes in Computer Science, 2015, , 499-510.	1.0	3
313	Lung Nodule Classification Using Deep Features in CT Images. , 2015, , .		227
314	Cognition-Based Networks: A New Perspective on Network Optimization Using Learning and Distributed Intelligence. IEEE Access, 2015, 3, 1512-1530.	2.6	90
315	Unsupervised feature learning for scene classification of high resolution remote sensing image. , 2015, , .		3
316	Deep evolution of image representations for handwritten digit recognition. , 2015, , .		10
317	Loop closure detection for visual SLAM systems using deep neural networks. , 2015, , .		38
318	Improving object detection with deep convolutional networks via Bayesian optimization and structured prediction. , 2015, , .		126
319	Stochastic least squares learning for deep architectures. , 2015, , .		0
320	Dictionary extraction from a collection of spectrograms for bioacoustics monitoring. , 2015, , .		2
321	Deep Computational Phenotyping. , 2015, , .		153
322	3D object retrieval with stacked local convolutional autoencoder. Signal Processing, 2015, 112, 119-128.	2.1	75

#	ARTICLE	IF	CITATIONS
323	Chemical Data Visualization and Analysis with Incremental Generative Topographic Mapping: Big Data Challenge. Journal of Chemical Information and Modeling, 2015, 55, 84-94.	2.5	67
324	The Potential Energy of an Autoencoder. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2015, 37, 1261-1273.	9.7	51
325	Geodesic Invariant Feature: A Local Descriptor in Depth. IEEE Transactions on Image Processing, 2015, 24, 236-248.	6.0	9
326	Feature learning based on SAEâ€"PCA network for human gesture recognition in RGBD images. Neurocomputing, 2015, 151, 565-573.	3.5	90
327	Deep Reconstruction Models for Image Set Classification. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2015, 37, 713-727.	9.7	145
328	A comparison of 3D shape retrieval methods based on a large-scale benchmark supporting multimodal queries. Computer Vision and Image Understanding, 2015, 131, 1-27.	3.0	102
329	Phenomapping for Novel Classification of Heart Failure With Preserved Ejection Fraction. Circulation, 2015, 131, 269-279.	1.6	763
330	Deep learning in neural networks: An overview. Neural Networks, 2015, 61, 85-117.	3.3	12,685
331	Two-layer contractive encodings for learning stable nonlinear features. Neural Networks, 2015, 64, 4-11.	3.3	21
333	A deep structure for human pose estimation. Signal Processing, 2015, 108, 36-45.	2.1	10
334	Finding quasi core with simulated stacked neural networks. Information Sciences, 2015, 294, 1-14.	4.0	4
335	Structural information aware deep semi-supervised recurrent neural network for sentiment analysis. Frontiers of Computer Science, 2015, 9, 171-184.	1.6	23
336	Towards large-scale multimedia retrieval enriched by knowledge about human interpretation. Multimedia Tools and Applications, 2016, 75, 297-331.	2.6	21
337	Asymptotic Properties of Local Sampling on Manifold. Journal of Mathematics and Statistics, 2016, 12, 157-175.	0.2	6
338	Public Health and Epidemiology Informatics. Yearbook of Medical Informatics, 2016, 25, 240-246.	0.8	5
339	Artificial Intelligence to Win the Nobel Prize and Beyond: Creating the Engine for Scientific Discovery. AI Magazine, 2016, 37, 39-49.	1.4	79
340	Content Complexity, Similarity, and Consistency in Social Media: A Deep Learning Approach. SSRN Electronic Journal, 2016, , .	0.4	2
341	Convolutional Deep Belief Networks for Single-Cell/Object Tracking in Computational Biology and Computer Vision. BioMed Research International, 2016, 2016, 1-14.	0.9	3

#	Article	IF	Citations
342	Deep learning is a good steganalysis tool when embedding key is reused for different images, even if there is a cover sourcemismatch. IS&T International Symposium on Electronic Imaging, 2016, 28, 1-11.	0.3	104
343	Fracture Mechanics Method for Word Embedding Generation of Neural Probabilistic Linguistic Model. Computational Intelligence and Neuroscience, 2016, 2016, 1-11.	1.1	1
344	Multiscale CNNs for Brain Tumor Segmentation and Diagnosis. Computational and Mathematical Methods in Medicine, 2016, 2016, 1-7.	0.7	107
345	Robust Individual-Cell/Object Tracking via PCANet Deep Network in Biomedicine and Computer Vision. BioMed Research International, 2016, 2016, 1-15.	0.9	4
346	Deep Learning for Hyperspectral Data Classification through Exponential Momentum Deep Convolution Neural Networks. Journal of Sensors, 2016, 2016, 1-8.	0.6	10
347	Robust Radar Emitter Recognition Based on the Three-Dimensional Distribution Feature and Transfer Learning. Sensors, 2016, 16, 289.	2.1	33
348	A Hybrid Spectral Clustering and Deep Neural Network Ensemble Algorithm for Intrusion Detection in Sensor Networks. Sensors, 2016, 16, 1701.	2.1	168
349	Neural Information Processing in Cognition: We Start to Understand the Orchestra, but Where is the Conductor?. Frontiers in Computational Neuroscience, 2016, 10, 3.	1.2	8
350	Deep Artificial Neural Networks and Neuromorphic Chips for Big Data Analysis: Pharmaceutical and Bioinformatics Applications. International Journal of Molecular Sciences, 2016, 17, 1313.	1.8	79
351	Classification and Segmentation of Satellite Orthoimagery Using Convolutional Neural Networks. Remote Sensing, 2016, 8, 329.	1.8	231
352	Quantitative Retrieval of Organic Soil Properties from Visible Near-Infrared Shortwave Infrared (Vis-NIR-SWIR) Spectroscopy Using Fractal-Based Feature Extraction. Remote Sensing, 2016, 8, 1035.	1.8	25
353	LPI Radar Waveform Recognition Based on Time-Frequency Distribution. Sensors, 2016, 16, 1682.	2.1	91
354	Locally Embedding Autoencoders: A Semi-Supervised Manifold Learning Approach of Document Representation. PLoS ONE, 2016, 11, e0146672.	1.1	19
355	Automatic Recognition of Element Classes and Boundaries in the Birdsong with Variable Sequences. PLoS ONE, 2016, 11, e0159188.	1.1	19
356	Jointly Feature Learning and Selection for Robust Tracking via a Gating Mechanism. PLoS ONE, 2016, 11, e0161808.	1.1	6
357	Grammars for Games: A Gradient-Based, Game-Theoretic Framework for Optimization in Deep Learning. Frontiers in Robotics and AI, 2016, 2, .	2.0	2
358	Multiple Object Scene Description for the Visually Impaired Using Pre-trained Convolutional Neural Networks. Lecture Notes in Computer Science, 2016, , 290-295.	1.0	1
359	Electronics, Communications and Networks V. Lecture Notes in Electrical Engineering, 2016, , .	0.3	0

#	ARTICLE	IF	CITATIONS
360	Ship Detection in Spaceborne Optical Image With SVD Networks. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 5832-5845.	2.7	215
361	COBANETS: A new paradigm for cognitive communications systems. , 2016, , .		4
362	Leveraging Multi-Modal Sensing for Mobile Health: A Case Review in Chronic Pain. IEEE Journal on Selected Topics in Signal Processing, 2016, 10, 962-974.	7.3	28
363	Like It or Not. ACM Computing Surveys, 2017, 49, 1-41.	16.1	363
364	Colitis detection on abdominal CT scans by rich feature hierarchies. Proceedings of SPIE, 2016, , .	0.8	4
365	Towards felicitous decision making: An overview on challenges and trends of Big Data. Information Sciences, 2016, 367-368, 747-765.	4.0	190
366	Boosting compound-protein interaction prediction by deep learning. Methods, 2016, 110, 64-72.	1.9	140
367	A deep learning framework for hyperspectral image classification using spatial pyramid pooling. Remote Sensing Letters, 2016, 7, 875-884.	0.6	112
368	Deep canonical correlation analysis with progressive and hypergraph learning for cross-modal retrieval. Neurocomputing, 2016, 214, 618-628.	3.5	29
369	Highâ€order restingâ€state functional connectivity network for MCI classification. Human Brain Mapping, 2016, 37, 3282-3296.	1.9	204
370	Correcting Instrumental Variation and Time-Varying Drift: A Transfer Learning Approach With Autoencoders. IEEE Transactions on Instrumentation and Measurement, 2016, 65, 2012-2022.	2.4	62
371	An overview on data representation learning: From traditional feature learning to recent deep learning. Journal of Finance and Data Science, 2016, 2, 265-278.	1.8	120
372	Semantic node embeddings of distributed graphs using apache spark. , 2016, , .		2
373	Histopathological image classification using random binary hashing based PCANet and bilinear classifier. , 2016, , .		8
374	Filterbank learning using Convolutional Restricted Boltzmann Machine for speech recognition. , 2016, , .		20
375	A Novel Method for Classification of ECG Arrhythmias Using Deep Belief Networks. International Journal of Computational Intelligence and Applications, 2016, 15, 1650021.	0.6	34
376	Traffic Sign Recognition Using Kernel Extreme Learning Machines With Deep Perceptual Features. IEEE Transactions on Intelligent Transportation Systems, 2016, , 1-7.	4.7	39
377	Localization and Classification of Paddy Field Pests using a Saliency Map and Deep Convolutional Neural Network. Scientific Reports, 2016, 6, 20410.	1.6	124

#	ARTICLE	IF	CITATIONS
378	Deep Patient: An Unsupervised Representation to Predict the Future of Patients from the Electronic Health Records. Scientific Reports, 2016, 6, 26094.	1.6	1,036
379	In-bed posture classification using deep autoencoders. , 2016, 2016, 3839-3842.		30
380	Signal Processing Techniques Restructure The Big Data Era. , 2016, , .		2
381	A deep domain adaption approach for object recognition using Multiple Model Consistency analysis. , 2016, , .		1
382	Object segmentation based on Gaussian mixture model and conditional random fields. , 2016, , .		3
383	Unsupervised feature learning from finite data by message passing: Discontinuous versus continuous phase transition. Physical Review E, 2016, 94, 062310.	0.8	16
384	Fish recognition from low-resolution underwater images. , 2016, , .		25
385	Deep neural networks with local connectivity and its application to astronomical spectral data. , 2016, , .		7
386	Hierarchical feature construction for image classification using Genetic Programming. , 2016, , .		7
387	SAR ATR by a combination of convolutional neural network and support vector machines. IEEE Transactions on Aerospace and Electronic Systems, 2016, 52, 2861-2872.	2.6	176
388	Codebook approach for sensor-based human activity recognition. , 2016, , .		9
389	Context discovery for model learning in partially observable environments. , 2016, , .		1
390	Blind Signal Classification via Sparse Coding. , 2016, , .		3
391	Trace Quotient Meets Sparsity: A Method for Learning Low Dimensional Image Representations. , 2016, , .		14
392	Enhanced distance subset approximation using class-specific subspace kernel representation for kernel approximation. , 2016, , .		0
393	Question Similarity Modeling with Bidirectional Long Short-Term Memory Neural Network. , 2016, , .		7
394	A predictive model of gene expression using a deep learning framework. , 2016, , .		5
395	Recognizing Arabic Sign Language gestures using depth sensors and a KSVM classifier. , 2016, , .		11

#	ARTICLE	IF	CITATIONS
396	Supervised Feature Learning Network Based on the Improved LLE for face recognition. , 2016, , .		4
397	Modelling speaker and channel variability using deep neural networks for robust speaker verification. , 2016, , .		19
398	A deep learning approach for seamless integration of cognitive skills for humanoid robots. , 2016, , .		8
399	Learning state representation for deep actor-critic control. , 2016, , .		25
400	Deep wavelet network for image classification. , 2016, , .		16
401	A review on optimization algorithm for deep learning method in bioinformatics field. , 2016, , .		8
402	A building block for hardware belief networks. Scientific Reports, 2016, 6, 29893.	1.6	55
403	Efficient multiple scale kernel classifiers. , 2016, , .		1
404	Document representation methods for clustering bilingual documents. Proceedings of the Association for Information Science and Technology, 2016, 53, 1-10.	0.3	5
405	An architecture for the deployment of statistical models for the big data era. , 2016, , .		16
406	On the interplay of network structure and gradient convergence in deep learning. , 2016, , .		1
407	A Rotation Invariant Latent Factor Model for Moveme Discovery from Static Poses. , 2016, , .		3
408	Incorporating Pre-Training in Long Short-Term Memory Networks for Tweets Classification. , 2016, , .		5
409	A flow based approach for learning multiple manifolds. , 2016, , .		1
410	Neighbourhood consistency based deep domain adaption analysis for multi category object detection. , 2016, , .		0
411	Nonlinear Dimensionality Reduction by Unit Ball Embedding (UBE) and Its Application to Image Clustering. , 2016, , .		1
412	Sentiment analysis on bangla and romanized bangla text using deep recurrent models. , 2016, , .		51
413	Combining Human Action Sensing of Wheelchair Users and Machine Learning for Autonomous Accessibility Data Collection. IEICE Transactions on Information and Systems, 2016, E99.D, 1153-1161.	0.4	12

#	ARTICLE	IF	CITATIONS
414	Colitis detection on computed tomography using regional convolutional neural networks. , 2016, , .		7
415	Single Image Object Modeling Based on BRDF and r-Surfaces Learning. , 2016, , .		0
416	A super fast vector support classifier using novelty detection and no synaptic tuning. , 2016, , .		12
417	A feature representation learning method for temporal datasets. , 2016, , .		5
418	Towards robust ego-centric hand gesture analysis for robot control. , 2016, , .		3
419	Neuron Segmentation Based on CNN with Semi-Supervised Regularization. , 2016, , .		14
420	Artificial neural network implementation in FPGA: A case study. , 2016, , .		5
421	Learning Sparsely Used Overcomplete Dictionaries via Alternating Minimization. SIAM Journal on Optimization, 2016, 26, 2775-2799.	1.2	32
422	Automatic Change Detection in Synthetic Aperture Radar Images Based on PCANet. IEEE Geoscience and Remote Sensing Letters, 2016, 13, 1792-1796.	1.4	191
423	Partial discharges at DC voltage - measurement and pattern recognition. , 2016, , .		22
424	Deep learning for network analysis: Problems, approaches and challenges. , 2016, , .		11
425	Not too late to identify potential churners. , 2016, , .		3
426	Deep Learning Trends for Focal Brain Pathology Segmentation in MRI. Lecture Notes in Computer Science, 2016, , 125-148.	1.0	49
427	Approximated Prediction Strategy for Reducing Power Consumption of Convolutional Neural Network Processor. , 2016, , .		8
428	The Learning Effect of Different Hidden Layers Stacked Autoencoder. , 2016, , .		11
429	Is overfeat useful for image-based surface defect classification tasks?. , 2016, , .		32
430	Patch-Based Convolutional Neural Network for Whole Slide Tissue Image Classification. , 2016, 2016, 2424-2433.		532
431	Survey on Feature Extraction and Applications of Biosignals. Lecture Notes in Computer Science, 2016, , 161-182.	1.0	15

#	Article	IF	Citations
432	Hyperparameters Adaptation for Restricted Boltzmann Machines Based on Free Energy. , 2016, , .		2
433	A deep learning method for lincRNA identification using auto-encoder algorithm. , 2016, , .		0
434	An efficient local receptive field feature extractor for handwriting recognition. , 2016, , .		2
435	Learning perceptual texture similarity and relative attributes from computational features. , 2016, , .		3
436	A kernel level composition of multiple local classifiers for nonlinear classification. , 2016, , .		2
437	Recommendation Engine for Online Short Video. , 2016, , .		3
438	How Designs Differ: Non-Linear Embeddings Illuminate Intrinsic Design Complexity. , 2016, , .		5
439	Mobile Food Recognition with an Extreme Deep Tree. , 2016, , .		9
442	A Study on the Recognition and Classification Method of High Resolution Remote Sensing Image Based on Deep Belief Network. Communications in Computer and Information Science, 2016, , 362-370.	0.4	0
443	SAFS: A deep feature selection approach for precision medicine. , 2016, , .		32
444	Evaluating Shape Representations for Maya Glyph Classification. Journal on Computing and Cultural Heritage, 2016, 9, 1-26.	1.2	13
445	The graphics of the solutions by learning a RBM: Discussion on a special case. , 2016, , .		1
446	Spectral radiance characteristic measure method based on passive imaging FTIR spectrometer. , 2016, , .		0
447	A deep tongue image features analysis model for medical application. , 2016, , .		1
448	Hyperspectral image analysis using deep learning â€" A review. , 2016, , .		47
449	Research advances in fault diagnosis and prognostic based on deep learning. , 2016, , .		57
450	Random Bits Forest: a Strong Classifier/Regressor for Big Data. Scientific Reports, 2016, 6, 30086.	1.6	24
451	Unsupervised learning of temporal receptive fields using convolutional RBM for ASR task. , 2016, , .		4

#	Article	IF	Citations
452	Visual Orientation Inhomogeneity Based Convolutional Neural Networks. , 2016, , .		0
453	Camera model identification with the use of deep convolutional neural networks. , 2016, , .		139
454	Single-image splicing localization through autoencoder-based anomaly detection. , 2016, , .		61
455	Deep Convolutional Neural Network Based Regression Approach for Estimation of Remaining Useful Life. Lecture Notes in Computer Science, 2016, , 214-228.	1.0	432
456	Learning robust uniform features for cross-media social data by using cross autoencoders. Knowledge-Based Systems, 2016, 102, 64-75.	4.0	27
457	Deep learning in the small sample size setting: cascaded feed forward neural networks for medical image segmentation. , 2016, , .		6
458	Text-Attentional Convolutional Neural Network for Scene Text Detection. IEEE Transactions on Image Processing, 2016, 25, 2529-2541.	6.0	266
459	Accelerating Convolutional Sparse Coding for Curvilinear Structures Segmentation by Refining SCIRD-TS Filter Banks. IEEE Transactions on Medical Imaging, 2016, 35, 2381-2392.	5.4	37
460	Dimension Reduction With Extreme Learning Machine. IEEE Transactions on Image Processing, 2016, 25, 3906-3918.	6.0	196
461	Virus image classification using multi-scale completed local binary pattern features extracted from filtered images by multi-scale principal component analysis. Pattern Recognition Letters, 2016, 79, 25-30.	2.6	19
462	Self-Adaptive Parameters Optimization for Incremental Classification in Big Data Using Neural Network. International Series on Computer Entertainment and Media Technology, 2016, , 175-196.	0.7	6
463	Semi-supervised Hierarchical Clustering for Semantic SAR Image Annotation. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2016, 9, 1993-2008.	2.3	11
464	Recent progress in semiconductor excitable lasers for photonic spike processing. Advances in Optics and Photonics, 2016, 8, 228.	12.1	190
466	Localization based stereo speech source separation using probabilistic time-frequency masking and deep neural networks. Eurasip Journal on Audio, Speech, and Music Processing, 2016, 2016, .	1.3	39
467	Semantic video labeling by developmental visual agents. Computer Vision and Image Understanding, 2016, 146, 9-26.	3.0	8
468	Human fall detection in surveillance video based on PCANet. Multimedia Tools and Applications, 2016, 75, 11603-11613.	2.6	103
469	Learning Mutual Visibility Relationship for Pedestrian Detection with a Deep Model. International Journal of Computer Vision, 2016, 120, 14-27.	10.9	42
470	Unsupervised Deep Learning Applied to Breast Density Segmentation and Mammographic Risk Scoring. IEEE Transactions on Medical Imaging, 2016, 35, 1322-1331.	5.4	360

#	Article	IF	Citations
471	Unsupervised method for sentiment analysis in online texts. Expert Systems With Applications, 2016, 58, 57-75.	4.4	126
472	Non-negative embedding for fully unsupervised domain adaptation. Pattern Recognition Letters, 2016, 77, 35-41.	2.6	7
473	Deep Neural Networks with Random Gaussian Weights: A Universal Classification Strategy?. IEEE Transactions on Signal Processing, 2016, 64, 3444-3457.	3.2	74
474	Deep Learning of Transferable Representation for Scalable Domain Adaptation. IEEE Transactions on Knowledge and Data Engineering, 2016, 28, 2027-2040.	4.0	143
475	Tag-aware recommender systems based on deep neural networks. Neurocomputing, 2016, 204, 51-60.	3.5	91
476	High-dimensional and large-scale anomaly detection using a linear one-class SVM with deep learning. Pattern Recognition, 2016, 58, 121-134.	5.1	791
477	Incremental Semi-Supervised classification of data streams via self-representative selection. Applied Soft Computing Journal, 2016, 47, 389-394.	4.1	9
478	Movement intention decoding based on deep learning for multiuser myoelectric interfaces. , 2016, , .		92
479	Computational Methods for Integrating Vision and Language. Synthesis Lectures on Computer Vision, 2016, 6, 1-227.	0.4	1
480	Symbol emergence in robotics: a survey. Advanced Robotics, 2016, 30, 706-728.	1.1	98
481	An Automatic Design of Factors in a Human-Pose Estimation System Using Neural Networks. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2016, 46, 875-887.	5.9	11
482	Dual autoencoders features for imbalance classification problem. Pattern Recognition, 2016, 60, 875-889.	5.1	75
483	Masked face detection via a modified LeNet. Neurocomputing, 2016, 218, 197-202.	3.5	42
485	Early-stage atherosclerosis detection using deep learning over carotid ultrasound images. Applied Soft Computing Journal, 2016, 49, 616-628.	4.1	45
486	IPMiner: hidden ncRNA-protein interaction sequential pattern mining with stacked autoencoder for accurate computational prediction. BMC Genomics, 2016, 17, 582.	1.2	117
487	Simulation and Synthesis in Medical Imaging. Lecture Notes in Computer Science, 2016, , .	1.0	5
488	Fault diagnosis network design for vehicle on-board equipments of high-speed railway: A deep learning approach. Engineering Applications of Artificial Intelligence, 2016, 56, 250-259.	4.3	133
489	Aspect Term and Opinion Target Extraction from Web Product Reviews using Semi-markov Conditional Random Fields with Word Embeddings as Features. , 2016, , .		2

#	Article	IF	Citations
490	Semi-supervised classification of hyperspectral imagery based on stacked autoencoders. Proceedings of SPIE, 2016, , .	0.8	4
491	Drug drug interaction extraction from biomedical literature using syntax convolutional neural network. Bioinformatics, 2016, 32, 3444-3453.	1.8	175
492	Deep learning with ensemble classification method for sensor sampling decisions. , 2016, , .		3
493	Learning Laplacian Matrix in Smooth Graph Signal Representations. IEEE Transactions on Signal Processing, 2016, 64, 6160-6173.	3.2	389
494	Representation Learning for Homophilic Preferences. , 2016, , .		8
495	A neural decision forest scheme with application to EMG gesture classification. , 2016, , .		4
496	Deep Visual-Semantic Hashing for Cross-Modal Retrieval. , 2016, , .		184
497	The nature of unsupervised learning in deep neural networks: A new understanding and novel approach. Optical Memory and Neural Networks (Information Optics), 2016, 25, 127-141.	0.4	16
498	Evaluation of weight sparsity control during autoencoder training of resting-state fMRI using non-zero ratio and hoyer's sparseness. , 2016, , .		1
499	Web prefetching of smart wireless access point. , 2016, , .		0
500	Reconstruction independent component analysis-based methods for intelligent fault diagnosis. , 2016, , .		3
501	Self-stabilized deep neural network. , 2016, , .		4
502	Data estimation methods for predicting temperatures of fruit in refrigerated containers. Biosystems Engineering, 2016, 151, 261-272.	1.9	36
503	Sequential Labeling with Online Deep Learning: Exploring Model Initialization. Lecture Notes in Computer Science, 2016, , 772-788.	1.0	3
504	Towards Viewpoint Invariant 3D Human Pose Estimation. Lecture Notes in Computer Science, 2016, , 160-177.	1.0	87
505	HEp-2 Cell Classification Using K-Support Spatial Pooling in Deep CNNs. Lecture Notes in Computer Science, 2016, , 3-11.	1.0	18
506	Compressed auto-encoder building block for deep learning network. , 2016, , .		3
507	An empirical analysis of feature engineering for predictive modeling. , 2016, , .		101

#	ARTICLE	IF	CITATIONS
508	Identification of nonlinearity in knocking vibration signals of large gas engine by deep learning. , 2016, , .		3
509	Unsupervised 3D Local Feature Learning by Circle Convolutional Restricted Boltzmann Machine. IEEE Transactions on Image Processing, 2016, 25, 5331-5344.	6.0	35
510	Statistical Inference, Learning and Models in Big Data. International Statistical Review, 2016, 84, 371-389.	1.1	42
511	Discovering Psychological Principles by Mining Naturally Occurring Data Sets. Topics in Cognitive Science, 2016, 8, 548-568.	1.1	57
512	Deep learning based classification of breast tumors with shear-wave elastography. Ultrasonics, 2016, 72, 150-157.	2.1	181
513	Deep Learning in Drug Discovery. Molecular Informatics, 2016, 35, 3-14.	1.4	502
514	Convolutional neural net bagging for online visual tracking. Computer Vision and Image Understanding, 2016, 153, 120-129.	3.0	21
515	Dynamic selection of forecast combiners. Neurocomputing, 2016, 218, 37-50.	3.5	20
516	Lemmatization for variation-rich languages using deep learning. Digital Scholarship in the Humanities, 0, , fqw034.	0.4	8
517	Video anomaly detection using deep incremental slow feature analysis network. IET Computer Vision, 2016, 10, 258-267.	1.3	51
518	Machine fault classification using deep belief network. , 2016, , .		27
519	A deep learning approach for VM workload prediction in the cloud. , 2016, , .		62
520	Structural Deep Network Embedding. , 2016, , .		1,725
521	Pairwise comparison and rank learning for image quality assessment. Displays, 2016, 44, 21-26.	2.0	14
522	Predicting the errors of predicted local backbone angles and non-local solvent- accessibilities of proteins by deep neural networks. Bioinformatics, 2016, 32, 3768-3773.	1.8	25
523	A hierarchical feature learning for isolated Farsi handwritten digit recognition using sparse autoencoder. , 2016, , .		6
524	Color image classification via quaternion principal component analysis network. Neurocomputing, 2016, 216, 416-428.	3.5	62
525	Deep Feature Extraction and Classification of Hyperspectral Images Based on Convolutional Neural Networks. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 6232-6251.	2.7	2,064

#	Article	IF	Citations
526	Comprehensive autoencoder for prostate recognition on MR images. , 2016, , .		5
527	node2vec. , 2016, 2016, 855-864.		6,341
528	Convolutional Neural Network for 3D object recognition using volumetric representation. , 2016, , .		10
529	Visual pattern recognition using unsupervised spike timing dependent plasticity learning. , 2016, , .		0
530	Speeding up feature selection: A deep-inspired network pruning algorithm. , 2016, , .		7
531	Clustering of receptive fields in Autoencoders. , 2016, , .		8
532	Deep self-organizing reservoir computing model for visual object recognition. , 2016, , .		1
533	Predicting user's multi-interests with network embedding in health-related topics. , 2016, , .		9
534	A comparison of autoencoder and statistical features for cattle behaviour classification. , 2016, , .		12
535	A fully convolutional deep auditory model for musical chord recognition. , 2016, , .		36
536	Extended hierarchical extreme learning machine with multilayer perceptron. , 2016, , .		4
537	Improving object detection via improving accuracy of object localization. , 2016, , .		0
538	Exploring the online underground marketplaces through topic-based social network and clustering. , 2016, , .		12
539	Infinite Ensemble for Image Clustering. , 2016, , .		59
540	Comparing Incremental Learning Strategies for Convolutional Neural Networks. Lecture Notes in Computer Science, 2016, , 175-184.	1.0	14
541	Coupled Dictionary Learning for Change Detection From Multisource Data. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 7077-7091.	2.7	95
542	Computational Intelligence. Texts in Computer Science, 2016, , .	0.5	44
543	Using grayscale images for object recognition with convolutional-recursive neural network. , 2016, , .		37

#	Article	IF	Citations
544	Machine listening techniques as a complement to video image analysis in forensics. , 2016, , .		13
545	Representation learning for geospatial areas using large-scale mobility data from smart card. , 2016, , .		5
546	Databases Theory and Applications. Lecture Notes in Computer Science, 2016, , .	1.0	1
547	Deep Learning Techniques in Big Data Analytics. , 2016, , 133-156.		8
548	Using concept hierarchies to improve calculation of patient similarity. Journal of Biomedical Informatics, 2016, 63, 66-73.	2.5	28
549	3D Human pose estimation: A review of the literature and analysis of covariates. Computer Vision and Image Understanding, 2016, 152, 1-20.	3.0	205
550	Deep Neural Networks for Identifying Cough Sounds. IEEE Transactions on Biomedical Circuits and Systems, 2016, 10, 1003-1011.	2.7	105
551	Text-mining the neurosynth corpus using deep boltzmann machines. , 2016, , .		4
552	Learning Representation for fMRI Data Analysis Using Autoencoder. , 2016, , .		0
553	Multi-modality stacked deep polynomial network based feature learning for Alzheimer's disease diagnosis. , 2016, , .		17
554	Novel Unsupervised Auditory Filterbank Learning Using Convolutional RBM for Speech Recognition. IEEE/ACM Transactions on Audio Speech and Language Processing, 2016, 24, 2341-2353.	4.0	38
555	Deep discriminative manifold learning. , 2016, , .		18
556	A protein-protein interaction extraction approach based on deep neural network. International Journal of Data Mining and Bioinformatics, 2016, 15, 145.	0.1	39
557	Deep Learning in Object Recognition, Detection, and Segmentation. Foundations and Trends in Signal Processing, 2016, 8, 217-382.	12.0	49
558	Deep Learning with PCANet for Human Age Estimation. Lecture Notes in Computer Science, 2016, , 300-310.	1.0	9
559	Using the web to support political analysis. , 2016, , .		1
560	DropConnect Regularization Method with Sparsity Constraint for Neural Networks. Chinese Journal of Electronics, 2016, 25, 152-158.	0.7	24
561	Machine learning anomaly detection in large systems. , 2016, , .		21

#	ARTICLE	IF	CITATIONS
562	Linearly augmented deep neural network. , 2016, , .		11
563	Multi-task ConvNet for blind face inpainting with application to face verification. , 2016, , .		4
564	Semi-supervised auto-encoder based on manifold learning. , 2016, , .		1
565	Co-designing a scalable quantum computer with trapped atomic ions. Npj Quantum Information, 2016, 2, .	2.8	151
566	A pseudoinverse incremental algorithm for fast training deep neural networks with application to spectra pattern recognition. , 2016, , .		15
567	A method of automatic feature extraction from massive vibration signals of machines. , 2016, , .		3
568	Wisdom Web of Things. , 2016, , .		4
569	Deep learning for computational biology. Molecular Systems Biology, 2016, 12, 878.	3.2	1,059
570	FAST-MDL: Fast Adaptive Supervised Training of multi-layered deep learning models for consistent object tracking and classification. , 2016, , .		25
571	Combining CBR and Deep Learning to Generate Surprising Recipe Designs. Lecture Notes in Computer Science, 2016, , 154-169.	1.0	16
572	Multi-layer Representation Learning for Medical Concepts. , 2016, , .		279
573	Representing logical relations automatically by Probabilistic Logical Dynamical Neural Network. , 2016, , .		0
574	A direct fingerprint minutiae extraction approach based on convolutional neural networks. , 2016, , .		34
575	Machine learning approach to automatic bucket loading. , 2016, , .		25
576	Automated Quality Assessment of Cardiac MR Images Using Convolutional Neural Networks. Lecture Notes in Computer Science, 2016, , 138-145.	1.0	30
577	Deep convolutional neural networks on cartoon functions. , 2016, , .		8
578	Case-Based Reasoning Research and Development. Lecture Notes in Computer Science, 2016, , .	1.0	32
579	Prediction of visual saliency in video with deep CNNs. Proceedings of SPIE, 2016, , .	0.8	2

#	Article	IF	Citations
580	Boosting Docking-Based Virtual Screening with Deep Learning. Journal of Chemical Information and Modeling, 2016, 56, 2495-2506.	2.5	265
581	Deep fusion of hyperspectral and LiDAR data for thematic classification. , 2016, , .		13
582	Microscopic medical image classification framework via deep learning and shearlet transform. Journal of Medical Imaging, 2016, 3, 044501.	0.8	69
583	Medical Imaging Informatics. Advances in Experimental Medicine and Biology, 2016, 939, 167-224.	0.8	9
584	Breast cancer histopathological image classification using Convolutional Neural Networks. , 2016, , .		547
585	Multimodal Learning via Exploring Deep Semantic Similarity. , 2016, , .		11
586	Random bits regression: a strong general predictor for big data. Big Data Analytics, 2016, 1, .	2.2	7
587	Bayesian Nonnegative CP Decomposition-based Feature Extraction Algorithm for Drowsiness Detection. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2016, 25, 1-1.	2.7	12
588	FeatureSmith. , 2016, , .		71
589	Training a Probabilistic Graphical Model With Resistive Switching Electronic Synapses. IEEE Transactions on Electron Devices, 2016, 63, 5004-5011.	1.6	33
590	Radar emitter recognition based on deep learning architecture. , 2016, , .		10
591	Echo State Networks-Based Reservoir Computing for MNIST Handwritten Digits Recognition. , 2016, , .		37
592	A Novel Features Learning Method for ECG Arrhythmias Using Deep Belief Networks. , 2016, , .		12
593	Big data integration shows Australian bush-fire frequency is increasing significantly. Royal Society Open Science, 2016, 3, 150241.	1.1	87
594	Finite-sensor fault-diagnosis simulation study of gas turbine engine using information entropy and deep belief networks. Frontiers of Information Technology and Electronic Engineering, 2016, 17, 1287-1304.	1.5	20
595	PATTERN: Pain Assessment for paTients who can't TEll using Restricted Boltzmann machiNe. BMC Medical Informatics and Decision Making, 2016, 16, 73.	1.5	4
596	Boltzmann machines with clusters of stochastic binary units. International Journal of Modeling, Simulation, and Scientific Computing, 2016, 07, 1650018.	0.9	0
597	Virtual Screening: A Challenge for Deep Learning. Advances in Intelligent Systems and Computing, 2016, , 13-22.	0.5	7

#	ARTICLE	IF	CITATIONS
598	Neural networks: An overview of early research, current frameworks and new challenges. Neurocomputing, 2016, 214, 242-268.	3.5	217
599	Phase Transitions and Sample Complexity in Bayes-Optimal Matrix Factorization. IEEE Transactions on Information Theory, 2016, 62, 4228-4265.	1.5	58
600	Maximum margin hashing with supervised information. Multimedia Tools and Applications, 2016, 75, 3955-3971.	2.6	6
601	Deep Multitask Metric Learning for Offline Signature Verification. Pattern Recognition Letters, 2016, 80, 84-90.	2.6	128
602	Prediction of residue-residue contact matrix for protein-protein interaction with Fisher score features and deep learning. Methods, 2016, 110, 97-105.	1.9	41
603	GSNs: generative stochastic networks. Information and Inference, 2016, 5, 210-249.	0.9	19
604	Deep Haar scattering networks. Information and Inference, 2016, 5, 105-133.	0.9	14
605	Exploring the spectroscopic diversity of Type Ia supernovae with dracula: a machine learning approach. Monthly Notices of the Royal Astronomical Society, 2016, 461, 2044-2059.	1.6	22
606	Moving Target Recognition Based on Transfer Learning and Three-Dimensional Over-Complete Dictionary. IEEE Sensors Journal, 2016, 16, 5671-5678.	2.4	11
607	Discovery of facial motions using deep machine perception. , 2016, , .		4
608	Basset: learning the regulatory code of the accessible genome with deep convolutional neural networks. Genome Research, 2016, 26, 990-999.	2.4	790
609	Learning Density Independent Texture Features. Lecture Notes in Computer Science, 2016, , 299-306.	1.0	0
610	ZooplanktoNet: Deep convolutional network for zooplankton classification. , 2016, , .		40
611	A single-layer network unsupervised feature learning method for white matter hyperintensity segmentation. , 2016, , .		1
612	Correlation Autoencoder Hashing for Supervised Cross-Modal Search. , 2016, , .		69
614	Granular Computing Techniques for Classification and Semantic Characterization of Structured Data. Cognitive Computation, 2016, 8, 442-461.	3.6	17
615	Emotion Recognition Based on Physiological Sensor Data Using Codebook Approach. Advances in Intelligent Systems and Computing, 2016, , 27-39.	0.5	5
616	Multivariate methods for the analysis of complex and big data in forensic sciences. Application to age estimation in living persons. Forensic Science International, 2016, 266, 581.e1-581.e9.	1.3	13

#	ARTICLE	IF	CITATIONS
617	Multi-modal and multi-scale photo collection summarization. Multimedia Tools and Applications, 2016, 75, 2527-2541.	2.6	5
619	When Ensemble Learning Meets Deep Learning: a New Deep Support Vector Machine for Classification. Knowledge-Based Systems, 2016, 107, 54-60.	4.0	58
620	Quaternion Collaborative and Sparse Representation With Application to Color Face Recognition. IEEE Transactions on Image Processing, 2016, 25, 3287-3302.	6.0	119
621	A survey of machine learning for big data processing. Eurasip Journal on Advances in Signal Processing, 2016, 2016, .	1.0	386
622	Breast Imaging. Lecture Notes in Computer Science, 2016, , .	1.0	9
623	Bridge the semantic gap between pop music acoustic feature and emotion: Build an interpretable model. Neurocomputing, 2016, 208, 333-341.	3.5	14
624	What Learning Systems do Intelligent Agents Need? Complementary Learning Systems Theory Updated. Trends in Cognitive Sciences, 2016, 20, 512-534.	4.0	386
625	Radiomics: a new application from established techniques. Expert Review of Precision Medicine and Drug Development, 2016, 1, 207-226.	0.4	262
626	Deep Learning for Remote Sensing Data: A Technical Tutorial on the State of the Art. IEEE Geoscience and Remote Sensing Magazine, 2016, 4, 22-40.	4.9	1,537
627	A renaissance of neural networks in drug discovery. Expert Opinion on Drug Discovery, 2016, 11, 785-795.	2.5	182
628	Integration of orthogonal feature detectors in parameter learning of artificial neural networks to improve robustness and the evaluation on hand-written digit recognition tasks. , 2016, , .		1
629	Learning structured dictionary based on inter-class similarity and representative margins. , 2016, , .		0
630	Multimodal video classification with stacked contractive autoencoders. Signal Processing, 2016, 120, 761-766.	2.1	77
631	Difference representation learning using stacked restricted Boltzmann machines for change detection in SAR images. Soft Computing, 2016, 20, 4645-4657.	2.1	45
632	Region-Based Convolutional Networks for Accurate Object Detection and Segmentation. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2016, 38, 142-158.	9.7	1,886
633	Extreme Learning Machine for Multilayer Perceptron. IEEE Transactions on Neural Networks and Learning Systems, 2016, 27, 809-821.	7.2	1,087
634	Descriptive document clustering via discriminant learning in a coâ€embedded space of multilevel similarities. Journal of the Association for Information Science and Technology, 2016, 67, 106-133.	1.5	16
635	DeepTrack: Learning Discriminative Feature Representations Online for Robust Visual Tracking. IEEE Transactions on Image Processing, 2016, 25, 1834-1848.	6.0	198

#	ARTICLE	IF	CITATIONS
636	HSAE: A Hessian regularized sparse auto-encoders. Neurocomputing, 2016, 187, 59-65.	3.5	51
637	Machine Learning and Decision Support in Critical Care. Proceedings of the IEEE, 2016, 104, 444-466.	16.4	251
638	Learning Multiple Views with Orthogonal Denoising Autoencoders. Lecture Notes in Computer Science, 2016, , 313-324.	1.0	8
639	Three-Layer Convex Network for Domain Adaptation in Multitemporal VHR Images. IEEE Geoscience and Remote Sensing Letters, 2016, , 1-5.	1.4	8
640	DBN-based Spectral Feature Representation for Statistical Parametric Speech Synthesis. IEEE Signal Processing Letters, 2016, 23, 321-325.	2.1	13
641	Deep Feature Selection: Theory and Application to Identify Enhancers and Promoters. Journal of Computational Biology, 2016, 23, 322-336.	0.8	118
642	Human action recognition using genetic algorithms and convolutional neural networks. Pattern Recognition, 2016, 59, 199-212.	5.1	138
643	Towards Deep Developmental Learning. IEEE Transactions on Cognitive and Developmental Systems, 2016, 8, 99-114.	2.6	34
644	Neural representation for object recognition in inferotemporal cortex. Current Opinion in Neurobiology, 2016, 37, 23-35.	2.0	72
645	DeepFish: Accurate underwater live fish recognition with a deep architecture. Neurocomputing, 2016, 187, 49-58.	3.5	184
646	Cosaliency Detection Based on Intrasaliency Prior Transfer and Deep Intersaliency Mining. IEEE Transactions on Neural Networks and Learning Systems, 2016, 27, 1163-1176.	7.2	138
647	Local Deep Neural Networks for gender recognition. Pattern Recognition Letters, 2016, 70, 80-86.	2.6	108
648	Deep neural networks: A promising tool for fault characteristic mining and intelligent diagnosis of rotating machinery with massive data. Mechanical Systems and Signal Processing, 2016, 72-73, 303-315.	4.4	1,280
649	Enhancing Retrieval and Ranking Performance for Media Search Engine by Deep Learning. , 2016, , .		5
650	Accumulating pyramid spatial-spectral collaborative coding divergence for hyperspectral anomaly detection. , 2016, , .		0
651	MapReduce based distributed learning algorithm for Restricted Boltzmann Machine. Neurocomputing, 2016, 198, 4-11.	3.5	26
652	Network in network based weakly supervised learning for visual tracking. Journal of Visual Communication and Image Representation, 2016, 37, 3-13.	1.7	5
653	Gene expression inference with deep learning. Bioinformatics, 2016, 32, 1832-1839.	1.8	331

#	ARTICLE	IF	CITATIONS
654	Partial Occlusion Handling in Pedestrian Detection With a Deep Model. IEEE Transactions on Circuits and Systems for Video Technology, 2016, 26, 2123-2137.	5.6	45
655	Multi-layer Online Sequential Extreme Learning Machine for Image Classification. Proceedings in Adaptation, Learning and Optimization, 2016, , 39-49.	1.5	12
656	Deformable MR Prostate Segmentation via Deep Feature Learning and Sparse Patch Matching. IEEE Transactions on Medical Imaging, 2016, 35, 1077-1089.	5.4	195
657	Learning Informative Features from Restricted Boltzmann Machines. Neural Processing Letters, 2016, 44, 735-750.	2.0	13
658	Recent advances and open challenges in hybrid brain-computer interfacing: a technological review of non-invasive human research. Brain-Computer Interfaces, 2016, 3, 9-46.	0.9	54
659	Deep Independence Network Analysis of Structural Brain Imaging: Application to Schizophrenia. IEEE Transactions on Medical Imaging, 2016, 35, 1729-1740.	5.4	24
660	An Intelligent Fault Diagnosis Method Using Unsupervised Feature Learning Towards Mechanical Big Data. IEEE Transactions on Industrial Electronics, 2016, 63, 3137-3147.	5.2	936
662	Deep learning approach for active classification of electrocardiogram signals. Information Sciences, 2016, 345, 340-354.	4.0	467
663	Representation Learning for Information Diffusion through Social Networks. , 2016, , .		96
664	A combined deep-learning and deformable-model approach to fully automatic segmentation of the left ventricle in cardiac MRI. Medical Image Analysis, 2016, 30, 108-119.	7.0	471
665	Data driven visual tracking via representation learning and online multiâ€class LPBoost learning. IET Computer Vision, 2016, 10, 28-35.	1.3	3
666	Ontology-Based Multilabel Text Classification of Construction Regulatory Documents. Journal of Computing in Civil Engineering, 2016, 30, .	2.5	55
667	Spectralâ€"Spatial Classification of Hyperspectral Image Based on Deep Auto-Encoder. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2016, 9, 4073-4085.	2.3	209
668	Deep Learning of Part-Based Representation of Data Using Sparse Autoencoders With Nonnegativity Constraints. IEEE Transactions on Neural Networks and Learning Systems, 2016, 27, 2486-2498.	7.2	167
669	Computational Intelligence and Financial Markets: A Survey and Future Directions. Expert Systems With Applications, 2016, 55, 194-211.	4.4	394
670	Multimodal Gesture Recognition Using Multi-stream Recurrent Neural Network. Lecture Notes in Computer Science, 2016, , 682-694.	1.0	29
671	Stacked deep polynomial network based representation learning for tumor classification with small ultrasound image dataset. Neurocomputing, 2016, 194, 87-94.	3.5	141
672	Hand motion identification of grasp-and-lift task from electroencephalography recordings using recurrent neural networks. , 2016, , .		3

#	Article	IF	Citations
673	Brain Tumor Segmentation Using Convolutional Neural Networks in MRI Images. IEEE Transactions on Medical Imaging, 2016, 35, 1240-1251.	5.4	1,825
674	Delta-density based clustering with a divide-and-conquer strategy: 3DC clustering. Pattern Recognition Letters, 2016, 73, 52-59.	2.6	80
675	Exploiting multi-channels deep convolutional neural networks for multivariate time series classification. Frontiers of Computer Science, 2016, 10, 96-112.	1.6	191
676	Text Mining in Social Media for Security Threats. Studies in Computational Intelligence, 2016, , 491-517.	0.7	4
677	Modeling of nonlinear system based on deep learning framework. Nonlinear Dynamics, 2016, 84, 1327-1340.	2.7	110
678	Why Deep Learning Works: A Manifold Disentanglement Perspective. IEEE Transactions on Neural Networks and Learning Systems, 2016, 27, 1997-2008.	7.2	118
679	Representation learning for mammography mass lesion classification with convolutional neural networks. Computer Methods and Programs in Biomedicine, 2016, 127, 248-257.	2.6	342
680	A Literature Review of Research in Bug Resolution: Tasks, Challenges and Future Directions. Computer Journal, 2016, 59, 741-773.	1.5	49
681	Providing data science support for systems pharmacology and its implications to drug discovery. Expert Opinion on Drug Discovery, 2016, 11, 241-256.	2.5	32
682	Exploring Representation Learning With CNNs for Frame-to-Frame Ego-Motion Estimation. IEEE Robotics and Automation Letters, 2016, 1, 18-25.	3.3	151
683	Deep learning for visual understanding: A review. Neurocomputing, 2016, 187, 27-48.	3.5	1,644
684	*DeÂnovo* identification of replication-timing domains in the human genome by deep learning. Bioinformatics, 2016, 32, 641-649.	1.8	48
685	A neural model that implements probabilistic topics. Neurocomputing, 2016, 171, 1099-1107.	3.5	4
686	Stacked Sparse Autoencoder (SSAE) for Nuclei Detection on Breast Cancer Histopathology Images. IEEE Transactions on Medical Imaging, 2016, 35, 119-130.	5.4	659
687	Change Detection in Synthetic Aperture Radar Images Based on Deep Neural Networks. IEEE Transactions on Neural Networks and Learning Systems, 2016, 27, 125-138.	7.2	481
688	Domain Adaptation With Preservation of Manifold Geometry for Hyperspectral Image Classification. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2016, 9, 543-555.	2.3	48
689	Two-Stage Learning to Predict Human Eye Fixations via SDAEs. IEEE Transactions on Cybernetics, 2016, 46, 487-498.	6.2	106
690	A software system for automated identification and retrieval of moth images based on wing attributes. Pattern Recognition, 2016, 51, 225-241.	5.1	28

#	ARTICLE	IF	CITATIONS
691	Spectral and Spatial Proximity-Based Manifold Alignment for Multitemporal Hyperspectral Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 51-64.	2.7	64
692	Breast cancer classification using deep belief networks. Expert Systems With Applications, 2016, 46, 139-144.	4.4	365
693	Big Data Essentials. Integrated Series on Information Systems, 2016, , 17-29.	0.1	1
694	Fine-tuning Deep Belief Networks using Harmony Search. Applied Soft Computing Journal, 2016, 46, 875-885.	4.1	76
695	Graph-induced restricted Boltzmann machines for document modeling. Information Sciences, 2016, 328, 60-75.	4.0	6
696	A Deep and Autoregressive Approach for Topic Modeling of Multimodal Data. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2016, 38, 1056-1069.	9.7	44
697	Machine Learning Models and Algorithms for Big Data Classification. Integrated Series on Information Systems, 2016, , .	0.1	198
698	Unsupervised Deep Feature Extraction for Remote Sensing Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 1349-1362.	2.7	571
699	A Cross-Modality Learning Approach for Vessel Segmentation in Retinal Images. IEEE Transactions on Medical Imaging, 2016, 35, 109-118.	5.4	454
700	Privacy Preserving Deep Computation Model on Cloud for Big Data Feature Learning. IEEE Transactions on Computers, 2016, 65, 1351-1362.	2.4	203
701	3D object understanding with 3D Convolutional Neural Networks. Information Sciences, 2016, 366, 188-201.	4.0	38
702	Effective deep learning-based multi-modal retrieval. VLDB Journal, 2016, 25, 79-101.	2.7	96
703	Multi-scale deep networks and regression forests for direct bi-ventricular volume estimation. Medical Image Analysis, 2016, 30, 120-129.	7.0	95
704	CNNTracker: Online discriminative object tracking via deep convolutional neural network. Applied Soft Computing Journal, 2016, 38, 1088-1098.	4.1	85
705	Linear dimensionality reduction based on Hybrid structure preserving projections. Neurocomputing, 2016, 173, 518-529.	3.5	24
706	One Shot Detection with <i>Laplacian Object</i> and Fast Matrix Cosine Similarity. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2016, 38, 546-562.	9.7	33
707	A High-Order Possibilistic <inline-formula> <tex-math notation="LaTeX">C</tex-math> </inline-formula>-Means Algorithm for Clustering Incomplete Multimedia Data. IEEE Systems Journal, 2017, 11, 2160-2169.	2.9	35
708	Stability metrics for multi-source biomedical data based on simplicial projections from probability distribution distances. Statistical Methods in Medical Research, 2017, 26, 312-336.	0.7	26

#	Article	IF	Citations
709	Unsupervised learning to detect loops using deep neural networks for visual SLAM system. Autonomous Robots, 2017, 41, 1-18.	3.2	146
710	Structured Domain Adaptation. IEEE Transactions on Circuits and Systems for Video Technology, 2017, 27, 1700-1713.	5.6	40
711	Cyberbullying Detection Based on Semantic-Enhanced Marginalized Denoising Auto-Encoder. IEEE Transactions on Affective Computing, 2017, 8, 328-339.	5.7	90
712	A comprehensive study on mid-level representation and ensemble learning for emotional analysis of video material. Multimedia Tools and Applications, 2017, 76, 11809-11837.	2.6	25
713	Discriminant deep belief network for high-resolution SAR image classification. Pattern Recognition, 2017, 61, 686-701.	5.1	127
714	Multi-source deep transfer learning for cross-sensor biometrics. Neural Computing and Applications, 2017, 28, 2461-2475.	3.2	24
715	Explicit guiding auto-encoders for learning meaningful representation. Neural Computing and Applications, 2017, 28, 429-436.	3.2	13
716	Task-specific feature extraction and classification of fMRI volumes using a deep neural network initialized with a deep belief network: Evaluation using sensorimotor tasks. NeuroImage, 2017, 145, 314-328.	2.1	100
717	Learning Invariant Features Using Subspace Restricted Boltzmann Machine. Neural Processing Letters, 2017, 45, 173-182.	2.0	12
718	Brain tumor segmentation with Deep Neural Networks. Medical Image Analysis, 2017, 35, 18-31.	7.0	2,234
719	A new transferred feature selection algorithm for customer identification. Neural Computing and Applications, 2017, 28, 2593-2603.	3.2	5
720	Deep Neural Network for Structural Prediction and Lane Detection in Traffic Scene. IEEE Transactions on Neural Networks and Learning Systems, 2017, 28, 690-703.	7.2	326
721	Sparseness Analysis in the Pretraining of Deep Neural Networks. IEEE Transactions on Neural Networks and Learning Systems, 2017, 28, 1425-1438.	7.2	52
722	ALâ€DDCNN: a distributed crossing semantic gap learning for person reâ€identification. Concurrency Computation Practice and Experience, 2017, 29, e3766.	1.4	8
723	Mesh Convolutional Restricted Boltzmann Machines for Unsupervised Learning of Features With Structure Preservation on 3-D Meshes. IEEE Transactions on Neural Networks and Learning Systems, 2017, 28, 2268-2281.	7.2	41
724	Canonical correlation analysis networks for two-view image recognition. Information Sciences, 2017, 385-386, 338-352.	4.0	91
725	Detection and Labeling of Vertebrae in MR Images Using Deep Learning with Clinical Annotations as Training Data. Journal of Digital Imaging, 2017, 30, 406-412.	1.6	81
726	Texture feature benchmarking and evaluation for historical document image analysis. International Journal on Document Analysis and Recognition, 2017, 20, 1-35.	2.7	31

#	ARTICLE	IF	CITATIONS
727	A new automated spectral feature extraction method and its application in spectral classification and defective spectra recovery. Monthly Notices of the Royal Astronomical Society, 2017, 465, 4311-4324.	1.6	44
728	DROW: Real-Time Deep Learning-Based Wheelchair Detection in 2-D Range Data. IEEE Robotics and Automation Letters, 2017, 2, 585-592.	3.3	30
729	Diagnosis of Focal Liver Diseases Based on Deep Learning Technique for Ultrasound Images. Arabian Journal for Science and Engineering, 2017, 42, 3127-3140.	1.7	79
730	Convolutional neural networks for vibrational spectroscopic data analysis. Analytica Chimica Acta, 2017, 954, 22-31.	2.6	274
731	Overview of Adaptive Dynamic Programming. Advances in Industrial Control, 2017, , 1-33.	0.4	3
732	Information fusion in content based image retrieval: A comprehensive overview. Information Fusion, 2017, 37, 50-60.	11.7	102
733	An integrated approach to planetary gearbox fault diagnosis using deep belief networks. Measurement Science and Technology, 2017, 28, 025010.	1.4	33
734	Deep Relative Tracking. IEEE Transactions on Image Processing, 2017, 26, 1845-1858.	6.0	72
735	Effective training of convolutional neural networks with small, specialized datasets. Journal of Intelligent and Fuzzy Systems, 2017, 32, 1333-1342.	0.8	4
736	Local feature representation based on linear filtering with feature pooling and divisive normalization for remote sensing image classification. Journal of Applied Remote Sensing, 2017, 11, 016017.	0.6	8
737	Improving Long-Term Learning of Model Reference Adaptive Controllers for Flight Applications: A Sparse Neural Network Approach. , 2017, , .		15
738	Multimodal Neuroimaging Computing for the Characterization of Neurodegenerative Disorders. Springer Theses, 2017, , .	0.0	0
739	Unsupervised Pre-training Classifier Based on Restricted Boltzmann Machine with Imbalanced Data. Lecture Notes in Computer Science, 2017, , 102-110.	1.0	0
740	Machine learning on big data: Opportunities and challenges. Neurocomputing, 2017, 237, 350-361.	3.5	631
741	Study of Engineered Features and Learning Features in Machine Learning - A Case Study in Document Classification. Lecture Notes in Computer Science, 2017, , 161-172.	1.0	0
742	Location-Aware Personalized News Recommendation With Deep Semantic Analysis. IEEE Access, 2017, 5, 1624-1638.	2.6	37
743	Active learning for hyperspectral image classification using sparse code histogram and graph-based spatial refinement. International Journal of Remote Sensing, 2017, 38, 923-948.	1.3	7
744	Automatic segmentation of the right ventricle from cardiac MRI using a learning†based approach. Magnetic Resonance in Medicine, 2017, 78, 2439-2448.	1.9	115

#	Article	IF	Citations
745	Using Spatial Pooler of Hierarchical Temporal Memory to classify noisy videos with predefined complexity. Neurocomputing, 2017, 240, 84-97.	3.5	8
746	Paired feature multilayer ensemble â€" concept and evaluation of a classifier. Journal of Intelligent and Fuzzy Systems, 2017, 32, 1427-1436.	0.8	3
747	MSFCN-multiple supervised fully convolutional networks for the osteosarcoma segmentation of CT images. Computer Methods and Programs in Biomedicine, 2017, 143, 67-74.	2.6	60
748	Multi-style learning with denoising autoencoders for acoustic modeling in the internet of things (IoT). Computer Speech and Language, 2017, 46, 481-495.	2.9	13
749	Learning 3D faces from 2D images via Stacked Contractive Autoencoder. Neurocomputing, 2017, 257, 67-78.	3.5	29
750	Automatical Knowledge Representation of Logical Relations by Dynamical Neural Network. Journal of Intelligent Systems, 2017, 26, 625-639.	1.2	2
751	The cascading neural network: building the Internet of Smart Things. Knowledge and Information Systems, 2017, 52, 791-814.	2.1	39
752	Fifty years of computer analysis in chest imaging: rule-based, machine learning, deep learning. Radiological Physics and Technology, 2017, 10, 23-32.	1.0	133
753	Deep learning for computational chemistry. Journal of Computational Chemistry, 2017, 38, 1291-1307.	1.5	537
754	Scene classification for aerial images based on CNN using sparse coding technique. International Journal of Remote Sensing, 2017, 38, 2662-2685.	1.3	38
755	Design Manifolds Capture the Intrinsic Complexity and Dimension of Design Spaces. Journal of Mechanical Design, Transactions of the ASME, 2017, 139, .	1.7	37
756	Learning representation hierarchies by sharing visual features: a computational investigation of Persian character recognition with unsupervised deep learning. Cognitive Processing, 2017, 18, 273-284.	0.7	9
757	Local and global regularized concept factorization for image clustering. Journal of Electronic Imaging, 2017, 26, 013003.	0.5	3
758	Space-time representation of people based on 3D skeletal data: A review. Computer Vision and Image Understanding, 2017, 158, 85-105.	3.0	210
759	Revealing unobserved factors underlying cortical activity with a rectified latent variable model applied to neural population recordings. Journal of Neurophysiology, 2017, 117, 919-936.	0.9	23
760	Segmentation and feature extraction of retinal vascular morphology. Proceedings of SPIE, 2017, , .	0.8	0
761	Link and Graph Mining in the Big Data Era. , 2017, , 583-616.		4
762	Learning network representations. European Physical Journal: Special Topics, 2017, 226, 499-518.	1.2	17

#	Article	IF	Citations
763	Deep-Learning-Based Drug–Target Interaction Prediction. Journal of Proteome Research, 2017, 16, 1401-1409.	1.8	381
764	Videography-Based Unconstrained Video Analysis. IEEE Transactions on Image Processing, 2017, 26, 2261-2273.	6.0	17
765	The ALAMO approach to machine learning. Computers and Chemical Engineering, 2017, 106, 785-795.	2.0	128
766	Quantitative analysis of patients with celiac disease by video capsule endoscopy: A deep learning method. Computers in Biology and Medicine, 2017, 85, 1-6.	3.9	125
767	Dynamical Textures Modeling via Joint Video Dictionary Learning. IEEE Transactions on Image Processing, 2017, 26, 2929-2943.	6.0	11
768	A Hierarchical Predictive Coding Model of Object Recognition in Natural Images. Cognitive Computation, 2017, 9, 151-167.	3.6	41
769	Symbiotic Interaction. Lecture Notes in Computer Science, 2017, , .	1.0	5
770	Liver fibrosis classification based on transfer learning and FCNet for ultrasound images. IEEE Access, 2017, , 1-1.	2.6	53
771	Deep learning networks for stock market analysis and prediction: Methodology, data representations, and case studies. Expert Systems With Applications, 2017, 83, 187-205.	4.4	486
772	Machine Learning With Big Data: Challenges and Approaches. IEEE Access, 2017, 5, 7776-7797.	2.6	553
773	EHR-based phenotyping: Bulk learning and evaluation. Journal of Biomedical Informatics, 2017, 70, 35-51.	2.5	28
774	Malware traffic classification using convolutional neural network for representation learning. , 2017, , .		412
775	Accurate and reproducible invasive breast cancer detection in whole-slide images: A Deep Learning approach for quantifying tumor extent. Scientific Reports, 2017, 7, 46450.	1.6	360
776	Cost-sensitive sequential three-way decision modeling using a deep neural network. International Journal of Approximate Reasoning, 2017, 85, 68-78.	1.9	169
777	Deep Learning for Flow Sculpting: Insights into Efficient Learning using Scientific Simulation Data. Scientific Reports, 2017, 7, 46368.	1.6	53
778	Real time coarse orientation detection in MR scans using multi-planar deep convolutional neural networks. , 2017, , .		0
779	Deep learning for SAR image formation. Proceedings of SPIE, 2017, , .	0.8	5
780	SNE: Signed Network Embedding. Lecture Notes in Computer Science, 2017, , 183-195.	1.0	90

#	Article	IF	Citations
781	Deep net architectures for visual-based clothing image recognition on large database. Soft Computing, 2017, 21, 2923-2939.	2.1	12
782	Domain Adaptation Network for Cross-Scene Classification. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 4441-4456.	2.7	127
783	Discriminative Nonlinear Analysis Operator Learning: When Cosparse Model Meets Image Classification. IEEE Transactions on Image Processing, 2017, 26, 3449-3462.	6.0	10
784	Dynamic Delay Predictions for Large-Scale Railway Networks: Deep and Shallow Extreme Learning Machines Tuned via Thresholdout. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2017, 47, 2754-2767.	5.9	72
785	Grounding the experience of a visual field through sensorimotor contingencies. Neurocomputing, 2017, 268, 142-152.	3.5	9
786	Î³-agree AdaBoost stacked autoencoder for short-term traffic flow forecasting. Neurocomputing, 2017, 247, 31-38.	3.5	81
787	GPU-Accelerated Parallel Hierarchical Extreme Learning Machine on Flink for Big Data. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2017, 47, 2740-2753.	5.9	92
788	Deep Knowledge Tracing On Programming Exercises. , 2017, , .		75
789	Pareto-optimal multi-objective dimensionality reduction deep auto-encoder for mammography classification. Computer Methods and Programs in Biomedicine, 2017, 145, 85-93.	2.6	24
790	Inference in the age of big data: Future perspectives on neuroscience. NeuroImage, 2017, 155, 549-564.	2.1	161
791	Predicting the Relevance of Social Media Posts Based on Linguistic Features and Journalistic Criteria. New Generation Computing, 2017, 35, 451-472.	2.5	4
792	Deep Restricted Kernel Machines Using Conjugate Feature Duality. Neural Computation, 2017, 29, 2123-2163.	1.3	31
793	Hash-Based Feature Learning for Incomplete Continuous-Valued Data. , 2017, , 678-686.		1
794	Robust Self-Supervised Model and Its Application for Fault Detection. Industrial & Engineering Chemistry Research, 2017, 56, 7503-7515.	1.8	26
795	Automatic Defect Recognition in X-Ray Testing Using Computer Vision. , 2017, , .		53
796	Location-Aware News Recommendation Using Deep Localized Semantic Analysis. Lecture Notes in Computer Science, 2017, , 507-524.	1.0	6
797	DeepPPI: Boosting Prediction of Proteinâ€"Protein Interactions with Deep Neural Networks. Journal of Chemical Information and Modeling, 2017, 57, 1499-1510.	2.5	181
798	Deep Models for Engagement Assessment With Scarce Label Information. IEEE Transactions on Human-Machine Systems, 2017, 47, 598-605.	2.5	20

#	Article	IF	Citations
799	Palmprint Recognition Based on Complete Direction Representation. IEEE Transactions on Image Processing, 2017, 26, 4483-4498.	6.0	115
800	Cascaded Subpatch Networks for Effective CNNs. IEEE Transactions on Neural Networks and Learning Systems, 2017, 29, 1-11.	7.2	25
801	DeepPap: Deep Convolutional Networks for Cervical Cell Classification. IEEE Journal of Biomedical and Health Informatics, 2017, 21, 1633-1643.	3.9	317
802	Bank distress in the news: Describing events through deep learning. Neurocomputing, 2017, 264, 57-70.	3.5	45
803	Towards building a more complex view of the lateral geniculate nucleus: Recent advances in understanding its role. Progress in Neurobiology, 2017, 156, 214-255.	2.8	50
804	Deep Feature Learning for Medical Image Analysis with Convolutional Autoencoder Neural Network. IEEE Transactions on Big Data, 2021, 7, 750-758.	4.4	247
805	Convolutional Neural Networks for Automatic Cognitive Radio Waveform Recognition. IEEE Access, 2017, 5, 11074-11082.	2.6	179
806	Learning representations of emotional speech with deep convolutional generative adversarial networks. , 2017, , .		67
807	Extracting structural spectral features using what-where auto-encoders for statistical parametric speech synthesis. , 2017, , .		1
808	Super-Resolution for Remote Sensing Images via Localâ€"Global Combined Network. IEEE Geoscience and Remote Sensing Letters, 2017, 14, 1243-1247.	1.4	205
809	Feature Learning for Facial Kinship Verification. SpringerBriefs in Computer Science, 2017, , 7-36.	0.2	1
810	Parameter-less Auto-weighted multiple graph regularized Nonnegative Matrix Factorization for data representation. Knowledge-Based Systems, 2017, 131, 105-112.	4.0	25
811	Improving the Quality of Recommendations for Users and Items in the Tail of Distribution. ACM Transactions on Information Systems, 2017, 35, 1-37.	3.8	17
812	Deep Convolutional Neural Networks for Image Classification: A Comprehensive Review. Neural Computation, 2017, 29, 2352-2449.	1.3	2,237
813	Mirroring quasi-symmetric organ observations for reducing problem complexity. Expert Systems With Applications, 2017, 85, 318-334.	4.4	3
814	Big Learning with Bayesian methods. National Science Review, 2017, 4, 627-651.	4.6	44
815	State-of-the-Art Deep Learning: Evolving Machine Intelligence Toward Tomorrowâ€™s Intelligent Network Traffic Control Systems. IEEE Communications Surveys and Tutorials, 2017, 19, 2432-2455.	24.8	611
816	Deep Convolutional Highway Unit Network for SAR Target Classification With Limited Labeled Training Data. IEEE Geoscience and Remote Sensing Letters, 2017, 14, 1091-1095.	1.4	170

#	Article	IF	Citations
817	Feature learning and change feature classification based on deep learning for ternary change detection in SAR images. ISPRS Journal of Photogrammetry and Remote Sensing, 2017, 129, 212-225.	4.9	177
818	Using line segments to train multi-stream stacked autoencoders for image classification. Pattern Recognition Letters, 2017, 94, 55-61.	2.6	13
819	Deep learning algorithms for discriminant autoencoding. Neurocomputing, 2017, 266, 325-335.	3.5	20
820	Stacked Multilevel-Denoising Autoencoders: A New Representation Learning Approach for Wind Turbine Gearbox Fault Diagnosis. IEEE Transactions on Instrumentation and Measurement, 2017, 66, 2391-2402.	2.4	220
821	Active and semi-supervised learning for object detection with imperfect data. Cognitive Systems Research, 2017, 45, 109-123.	1.9	39
823	Statistical mechanics of unsupervised feature learning in a restricted Boltzmann machine with binary synapses. Journal of Statistical Mechanics: Theory and Experiment, 2017, 2017, 053302.	0.9	21
824	Remote Sensing Scene Classification by Unsupervised Representation Learning. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 5148-5157.	2.7	242
825	Unsupervised Feature Learning Based on Deep Models for Environmental Audio Tagging. IEEE/ACM Transactions on Audio Speech and Language Processing, 2017, 25, 1230-1241.	4.0	54
826	Deep learning in pharmacy: The prediction of aqueous solubility based on deep belief network. Automatic Control and Computer Sciences, 2017, 51, 97-107.	0.4	10
828	Mobile Big Data: The Fuel for Data-Driven Wireless. IEEE Internet of Things Journal, 2017, 4, 1489-1516.	5.5	72
829	Deep learning for radar. , 2017, , .		47
830	Deep Fusion of Remote Sensing Data for Accurate Classification. IEEE Geoscience and Remote Sensing Letters, 2017, 14, 1253-1257.	1.4	148
831	LMAE: A large margin Auto-Encoders for classification. Signal Processing, 2017, 141, 137-143.	2.1	26
832	Emergence of Compositional Representations in Restricted Boltzmann Machines. Physical Review Letters, 2017, 118, 138301.	2.9	83
833	Feature learning via partial differential equation with applications to face recognition. Pattern Recognition, 2017, 69, 14-25.	5.1	20
834	Ultrasound Standard Plane Detection Using a Composite Neural Network Framework. IEEE Transactions on Cybernetics, 2017, 47, 1576-1586.	6.2	118
835	Personal Sensing: Understanding Mental Health Using Ubiquitous Sensors and Machine Learning. Annual Review of Clinical Psychology, 2017, 13, 23-47.	6.3	510
836	Toward a Rational and Mechanistic Account of Mental Effort. Annual Review of Neuroscience, 2017, 40, 99-124.	5.0	590

#	Article	IF	Citations
837	Deep Neural Networks for Wind and Solar Energy Prediction. Neural Processing Letters, 2017, 46, 829-844.	2.0	55
838	Remote Sensing Image Scene Classification: Benchmark and State of the Art. Proceedings of the IEEE, 2017, 105, 1865-1883.	16.4	1,570
839	Outlier Ensembles. , 2017, , .		74
840	LogitBoost autoregressive networks. Computational Statistics and Data Analysis, 2017, 112, 88-98.	0.7	3
841	Deep feature learning for dummies: A simple auto-encoder training method using Particle Swarm Optimisation. Pattern Recognition Letters, 2017, 94, 75-80.	2.6	14
842	Social Collaborative Viewpoint Regression with Explainable Recommendations. , 2017, , .		82
843	Recognizing Emotions from Whispered Speech Based on Acoustic Feature Transfer Learning. IEEE Access, 2017, , 1-1.	2.6	29
844	Age and gender classification in the wild with unsupervised feature learning. Journal of Electronic Imaging, 2017, 26, 023007.	0.5	1
845	Spatial-Spectral Unsupervised Convolutional Sparse Auto-Encoder Classifier for Hyperspectral Imagery. Photogrammetric Engineering and Remote Sensing, 2017, 83, 195-206.	0.3	18
846	Fast unsupervised learning for visual pattern recognition using spike timing dependent plasticity. Neurocomputing, 2017, 249, 212-224.	3.5	30
847	Bayesian Learning for Dynamic Feature Extraction With Application in Soft Sensing. IEEE Transactions on Industrial Electronics, 2017, 64, 7171-7180.	5.2	38
848	Selective Convolutional Descriptor Aggregation for Fine-Grained Image Retrieval. IEEE Transactions on Image Processing, 2017, 26, 2868-2881.	6.0	333
849	The Cost of Structure Learning. Journal of Cognitive Neuroscience, 2017, 29, 1646-1655.	1.1	29
850	Linear guided autoencoder: Representation learning with linearity. Applied Soft Computing Journal, 2017, 55, 566-575.	4.1	5
851	Embedding of semantic predications. Journal of Biomedical Informatics, 2017, 68, 150-166.	2.5	32
852	Progress in neuromorphic photonics. Nanophotonics, 2017, 6, 577-599.	2.9	139
853	Genetic Programming. Lecture Notes in Computer Science, 2017, , .	1.0	2
854	Learning a deeply supervised multi-modal RGB-D embedding for semantic scene and object category recognition. Robotics and Autonomous Systems, 2017, 92, 41-52.	3.0	15

#	Article	IF	Citations
855	Advanced Spectral Classifiers for Hyperspectral Images: A review. IEEE Geoscience and Remote Sensing Magazine, 2017, 5, 8-32.	4.9	893
856	A General Feature Engineering Wrapper for Machine Learning Using $$epsilon$$ -Lexicase Survival. Lecture Notes in Computer Science, 2017, , 80-95.	1.0	9
857	Modern Computer Vision Techniques for X-Ray Testing in Baggage Inspection. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2017, 47, 682-692.	5.9	117
858	A survey on image-based insect classification. Pattern Recognition, 2017, 65, 273-284.	5.1	153
859	Dislocated Time Series Convolutional Neural Architecture: An Intelligent Fault Diagnosis Approach for Electric Machine. IEEE Transactions on Industrial Informatics, 2017, 13, 1310-1320.	7.2	268
860	Can Learning Vector Quantization be an Alternative to SVM and Deep Learning? - Recent Trends and Advanced Variants of Learning Vector Quantization for Classification Learning. Journal of Artificial Intelligence and Soft Computing Research, 2017, 7, 65-81.	3.5	46
861	Being a Supercook: Joint Food Attributes and Multimodal Content Modeling for Recipe Retrieval and Exploration. IEEE Transactions on Multimedia, 2017, 19, 1100-1113.	5.2	77
862	Manifold Regularized Experimental Design for Active Learning. IEEE Transactions on Image Processing, 2017, 26, 969-981.	6.0	6
863	A survey of deep neural network architectures and their applications. Neurocomputing, 2017, 234, 11-26.	3.5	2,242
864	Collaborative Joint Training With Multitask Recurrent Model for Speech and Speaker Recognition. IEEE/ACM Transactions on Audio Speech and Language Processing, 2017, 25, 493-504.	4.0	39
865	Locality-constrained max-margin sparse coding. Pattern Recognition, 2017, 65, 285-295.	5.1	10
866	Scene classification based on a hierarchical convolutional sparse auto-encoder for high spatial resolution imagery. International Journal of Remote Sensing, 2017, 38, 514-536.	1.3	39
867	An evaluation of Convolutional Neural Networks for music classification using spectrograms. Applied Soft Computing Journal, 2017, 52, 28-38.	4.1	167
868	An Ensemble of Fine-Tuned Convolutional Neural Networks for Medical Image Classification. IEEE Journal of Biomedical and Health Informatics, 2017, 21, 31-40.	3.9	360
869	Representation Learning Based Speech Assistive System for Persons With Dysarthria. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2017, 25, 1510-1517.	2.7	23
870	Fully Deep Blind Image Quality Predictor. IEEE Journal on Selected Topics in Signal Processing, 2017, 11, 206-220.	7.3	331
871	Computer Vision and Natural Language Processing. ACM Computing Surveys, 2017, 49, 1-44.	16.1	33
872	A Hybrid Model Combining Convolutional Neural Network with XGBoost for Predicting Social Media Popularity. , 2017, , .		34

#	ARTICLE	IF	CITATIONS
873	Deep Learning for Steam Job Candidate Selection. , 2017, , .		2
874	Hand-dorsa vein recognition with structure growing guided CNN. Optik, 2017, 149, 469-477.	1.4	28
875	A deep learning-based sports player evaluation model based on game statistics and news articles. Knowledge-Based Systems, 2017, 138, 15-26.	4.0	18
876	Data-adaptive harmonic spectra and multilayer Stuart-Landau models. Chaos, 2017, 27, 093110.	1.0	30
877	Machine Learning and Knowledge Extraction in Digital Pathology Needs an Integrative Approach. Lecture Notes in Computer Science, 2017, , 13-50.	1.0	22
878	Learning Deep Representations from Heterogeneous Patient Data for Predictive Diagnosis. , 2017, , .		7
879	Learning Graph Representations for Defect Prediction. , 2017, , .		5
880	Detecting adversarial example attacks to deep neural networks. , 2017, , .		22
881	Analysis of Ribosome Stalling and Translation Elongation Dynamics by Deep Learning. Cell Systems, 2017, 5, 212-220.e6.	2.9	58
882	De-identification of medical records using conditional random fields and long short-term memory networks. Journal of Biomedical Informatics, 2017, 75, S43-S53.	2.5	24
883	Identifying Harm Events in Clinical Care through Medical Narratives. , 2017, , .		6
884	Auditory feature representation using convolutional restricted Boltzmann machine and Teager energy operator for speech recognition. Journal of the Acoustical Society of America, 2017, 141, EL500-EL506.	0.5	9
885	Gait recognition based on curvelet transform and PCANet. Pattern Recognition and Image Analysis, 2017, 27, 525-531.	0.6	5
886	Machine-Learning Based Approaches for Cloud Brokering. KAIST Research Series, 2017, , 191-212.	1.5	1
887	Randomized Feature Engineering as a Fast and Accurate Alternative to Kernel Methods. , 2017, , .		5
888	Sufficient forecasting using factor models. Journal of Econometrics, 2017, 201, 292-306.	3.5	46
889	Learning representations for the early detection of sepsis with deep neural networks. Computers in Biology and Medicine, 2017, 89, 248-255.	3.9	156
890	Beyond the Known: Detecting Novel Feasible Domains Over an Unbounded Design Space. Journal of Mechanical Design, Transactions of the ASME, 2017, 139, .	1.7	25

#	Article	IF	Citations
891	Bayesian feature learning for seismic compressive sensing and denoising. Geophysics, 2017, 82, O91-O104.	1.4	20
892	Automated state feature learning for actor-critic reinforcement learning through NEAT. , 2017, , .		0
893	A Tucker Deep Computation Model for Mobile Multimedia Feature Learning. ACM Transactions on Multimedia Computing, Communications and Applications, 2017, 13, 1-18.	3.0	37
894	An evolutionary building algorithm for Deep Neural Networks. , 2017, , .		6
895	Predicting clinical outcomes from large scale cancer genomic profiles with deep survival models. Scientific Reports, 2017, 7, 11707.	1.6	167
896	Building an SVM Classifier for Automated Selection of Big Data. , 2017, , .		4
897	Building a Deep Learning Classifier for Enhancing a Biomedical Big Data Service. , 2017, , .		5
898	Fusion of deep learning architectures, multilayer feedforward networks and learning vector quantizers for deep classification learning. , 2017, , .		9
899	A network integration approach for drug-target interaction prediction and computational drug repositioning from heterogeneous information. Nature Communications, 2017, 8, 573.	5.8	543
900	metapath2vec. , 2017, , .		1,372
901	Ensemble transfer learning for Alzheimer's disease diagnosis. , 2017, 2017, 3102-3105.		7
902	Intraday prediction of Borsa Istanbul using convolutional neural networks and feature correlations. Knowledge-Based Systems, 2017, 137, 138-148.	4.0	117
903	Sample reconstruction with deep autoencoder for one sample per person face recognition. IET Computer Vision, 2017, 11, 471-478.	1.3	11
904	Recasting Residual-based Local Descriptors as Convolutional Neural Networks. , 2017, , .		222
905	Representation Learning for Retinal Vasculature Embeddings. Lecture Notes in Computer Science, 2017, , 243-250.	1.0	9
906	Deep Model for Dropout Prediction in MOOCs. , 2017, , .		78
907	entity2rec. , 2017, , .		92
908	Modeling User Session and Intent with an Attention-based Encoder-Decoder Architecture. , 2017, , .		44

#	Article	IF	Citations
909	A Multi-view Deep Learning Method for Epileptic Seizure Detection using Short-time Fourier Transform. , 2017, , .		72
910	Computer Analysis of Sentiment Interpretation in Musical Conducting. , 2017, , .		1
911	A multilayer gated bilinear classifier: From optimizing a deep rectified network to a support vector machine. , 2017, , .		2
912	Speech-based Diagnosis of Autism Spectrum Condition by Generative Adversarial Network Representations. , 2017, , .		31
913	Discovery Through Constraints: Imposing Constraints on Autoencoders for Data Representation and Dictionary Learning. IEEE Systems, Man, and Cybernetics Magazine, 2017, 3, 13-24.	1.2	3
914	Face alignment using a deep neural network with local feature learning and recurrent regression. Expert Systems With Applications, 2017, 89, 66-80.	4.4	19
915	Prediction of anti‐<scp>HIV</scp> activity on the basis of stacked auto‐encoder. Journal of Chemometrics, 2017, 31, e2916.	0.7	1
916	Representations in neural network based empirical potentials. Journal of Chemical Physics, 2017, 147, 024104.	1.2	37
917	Brain tumor segmentation using holistically nested neural networks in MRI images. Medical Physics, 2017, 44, 5234-5243.	1.6	79
918	An Information Theory-Based Scheme for Efficient Classification of Remote Sensing Data. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 5864-5876.	2.7	14
919	Sparse representations based distributed attribute learning for person re-identification. Multimedia Tools and Applications, 2017, 76, 25015-25037.	2.6	6
920	Unsupervised Extraction of Stable Expression Signatures from Public Compendia with an Ensemble of Neural Networks. Cell Systems, 2017, 5, 63-71.e6.	2.9	84
921	Fully automatic acute ischemic lesion segmentation in DWI using convolutional neural networks. NeuroImage: Clinical, 2017, 15, 633-643.	1.4	221
922	A survey on deep learning in medical image analysis. Medical Image Analysis, 2017, 42, 60-88.	7.0	7,976
924	A deep learning framework for supporting the classification of breast lesions in ultrasound images. Physics in Medicine and Biology, 2017, 62, 7714-7728.	1.6	263
925	Robust semi-supervised concept factorization. , 2017, , .		1
926	Deep Feature Engineering for Noise Robust Spoofing Detection. IEEE/ACM Transactions on Audio Speech and Language Processing, 2017, 25, 1942-1955.	4.0	25
927	Rough Deep Neural Architecture for Short-Term Wind Speed Forecasting. IEEE Transactions on Industrial Informatics, 2017, 13, 2770-2779.	7.2	241

#	Article	IF	Citations
928	Node Embedding via Word Embedding for Network Community Discovery. IEEE Transactions on Signal and Information Processing Over Networks, 2017, 3, 539-552.	1.6	8
929	A multi-label classification model using convolutional netural networks. , 2017, , .		7
930	Optimality of inference in hierarchical coding for distributed object-based representations. , 2017, , .		0
931	U-safety: Urban safety analysis in a smart city. , 2017, , .		5
932	Low-rank preserving embedding. Pattern Recognition, 2017, 70, 112-125.	5.1	63
934	Learning and combining image neighborhoods using random forests for neonatal brain disease classification. Medical Image Analysis, 2017, 42, 189-199.	7.0	9
935	Unsupervised t-Distributed Video Hashing and Its Deep Hashing Extension. IEEE Transactions on Image Processing, 2017, 26, 5531-5544.	6.0	45
936	Robust Representation for Data Analytics. Advanced Information and Knowledge Processing, 2017, , .	0.2	4
937	Land Cover Classification via Multitemporal Spatial Data by Deep Recurrent Neural Networks. IEEE Geoscience and Remote Sensing Letters, 2017, 14, 1685-1689.	1.4	184
938	Big Healthcare Data Analytics: Challenges and Applications. Scalable Computing and Communications, 2017, , 11-41.	0.5	43
939	A Neural Network Approach to Jointly Modeling Social Networks and Mobile Trajectories. ACM Transactions on Information Systems, 2017, 35, 1-28.	3.8	111
940	Structural Deep Brain Network Mining. , 2017, , .		37
941	An Efficient Bandit Algorithm for Realtime Multivariate Optimization. , 2017, , .		43
942	Learning from Multiple Teacher Networks. , 2017, , .		170
943	Smart Cities: A Survey on Data Management, Security, and Enabling Technologies. IEEE Communications Surveys and Tutorials, 2017, 19, 2456-2501.	24.8	383
944	The difference learning of hidden layer between autoencoder and variational autoencoder. , 2017, , .		14
945	Shallow Representation Learning via Kernel PCA Improves QSAR Modelability. Journal of Chemical Information and Modeling, 2017, 57, 1859-1867.	2.5	13
946	Simple convolutional neural network on image classification. , 2017, , .		199

#	Article	IF	Citations
947	Deep Temporal Models using Identity Skip-Connections for Speech Emotion Recognition. , 2017, , .		25
948	Deep Neural Network Initialization Methods for Micro-Doppler Classification With Low Training Sample Support. IEEE Geoscience and Remote Sensing Letters, 2017, 14, 2462-2466.	1.4	87
949	Deep scattering. ACM Transactions on Graphics, 2017, 36, 1-11.	4.9	56
950	Estimating the Finger Orientation on Capacitive Touchscreens Using Convolutional Neural Networks. , 2017, , .		41
951	A study on cognitive social data fusion. , 2017, , .		15
952	Missing RDF Triples Detection and Correction in Knowledge Graphs. Lecture Notes in Computer Science, 2017, , 164-180.	1.0	5
953	Phase transitions in restricted Boltzmann machines with generic priors. Physical Review E, 2017, 96, 042156.	0.8	40
954	Simultaneous Inference of User Representations and Trust. , 2017, , .		1
955	Joint Representation Learning for Top-N Recommendation with Heterogeneous Information Sources. , 2017, , .		192
956	Augmented Variational Autoencoders for Collaborative Filtering with Auxiliary Information. , 2017, , .		39
957	Intelligent Fault Diagnosis of Rotary Machinery Based on Unsupervised Multiscale Representation Learning. Chinese Journal of Mechanical Engineering (English Edition), 2017, 30, 1314-1324.	1.9	17
958	Deep Reinforcement Learning: A Brief Survey. IEEE Signal Processing Magazine, 2017, 34, 26-38.	4.6	2,112
959	Delay dynamics of neuromorphic optoelectronic nanoscale resonators: Perspectives and applications. Chaos, 2017, 27, 114323.	1.0	27
960	Document level semantic comprehension of noisy text streams via convolutional neural networks. , 2017, , .		1
961	Signed Network Embedding in Social Media. , 2017, , 327-335.		135
962	Exploring deep learning image super-resolution for iris recognition. , 2017, , .		18
963	Deep Reinforcement Learning: From Q-Learning to Deep Q-Learning. Lecture Notes in Computer Science, 2017, , 475-483.	1.0	14
964	Towards Improving Canonical Correlation Analysis for Cross-modal Retrieval. , 2017, , .		6

#	Article	IF	Citations
965	HIN2Vec. , 2017, , .		348
968	Word Embedding Dropout and Variable-Length Convolution Window in Convolutional Neural Network for Sentiment Classification. Lecture Notes in Computer Science, 2017, , 40-48.	1.0	1
969	Pre-Processing Censored Survival Data Using Inverse Covariance Matrix Based Calibration. IEEE Transactions on Knowledge and Data Engineering, 2017, 29, 2111-2124.	4.0	5
970	Partitioned learning of deep Boltzmann machines for SNP data. Bioinformatics, 2017, 33, 3173-3180.	1.8	28
971	Robust Face Super-Resolution via Locality-Constrained Low-Rank Representation. IEEE Access, 2017, 5, 13103-13117.	2.6	46
972	Node embedding for network community discovery. , 2017, , .		4
973	Long range iris recognition: A survey. Pattern Recognition, 2017, 72, 123-143.	5.1	125
974	Human action recognition in RGB-D videos using motion sequence information and deep learning. Pattern Recognition, 2017, 72, 504-516.	5.1	114
975	Medical image classification via multiscale representation learning. Artificial Intelligence in Medicine, 2017, 79, 71-78.	3.8	25
976	Deep learning based nonlinear principal component analysis for industrial process fault detection. , 2017, , .		12
977	On the behavioral theory of the networked firm. , 2017, , 179-195.		1
978	Abstraction hierarchy in deep learning neural networks. , 2017, , .		5
979	Neuromorphic system with phase-change synapses for pattern learning and feature extraction. , 2017, , .		5
980	Trajectory clustering via deep representation learning. , 2017, , .		99
981	Optimising Deep Belief Networks by hyper-heuristic approach. , 2017, , .		10
982	A convolutional neural network based feature learning and fault diagnosis method for the condition monitoring of gearbox. Measurement: Journal of the International Measurement Confederation, 2017, 111, 1-10.	2.5	510
983	Gating mass cytometry data by deep learning. Bioinformatics, 2017, 33, 3423-3430.	1.8	84
984	Power-law stochastic neighbor embedding. , 2017, , .		17

#	Article	IF	Citations
985	Respiration-based emotion recognition with deep learning. Computers in Industry, 2017, 92-93, 84-90.	5.7	100
986	Steganalysis via a convolutional neural network using large convolution filters for embedding process with same stego key: A deep learning approach for telemedicine. European Research in Telemedicine, 2017, 6, 79-92.	0.6	20
987	Using real-time cluster configurations of streaming asynchronous features as online state descriptors in financial markets. Pattern Recognition Letters, 2017, 97, 21-28.	2.6	9
988	Restricted Boltzmann machine based stock market trend prediction. , 2017, , .		16
989	Classifying measured electrocardiogram signal quality using deep belief networks. , 2017, , .		19
990	Elastic restricted Boltzmann machines for cancer data analysis. Quantitative Biology, 2017, 5, 159-172.	0.3	4
991	A study of the suitability of autoencoders for preprocessing data in breast cancer experimentation. Journal of Biomedical Informatics, 2017, 72, 33-44.	2.5	15
992	Deep-learning: investigating deep neural networks hyper-parameters and comparison of performance to shallow methods for modeling bioactivity data. Journal of Cheminformatics, 2017, 9, 42.	2.8	202
993	3D deep convolutional neural networks for amino acid environment similarity analysis. BMC Bioinformatics, 2017, 18, 302.	1.2	106
994	Robust sound event classification with bilinear multi-column ELM-AE and two-stage ensemble learning. Eurasip Journal on Audio, Speech, and Music Processing, 2017, 2017, .	1.3	4
995	BCC-NER: bidirectional, contextual clues named entity tagger for gene/protein mention recognition. Eurasip Journal on Bioinformatics and Systems Biology, 2017, 2017, 7.	1.4	15
996	Improving dense conditional random field for retinal vessel segmentation by discriminative feature learning and thin-vessel enhancement. Computer Methods and Programs in Biomedicine, 2017, 148, 13-25.	2.6	66
997	Deep learning based matrix completion. Neurocomputing, 2017, 266, 540-549.	3.5	55
998	Online news recommender based on stacked auto-encoder. , 2017, , .		32
999	Domain Adaptation Using Representation Learning for the Classification of Remote Sensing Images. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2017, 10, 4198-4209.	2.3	61
1000	Validating a Deep Learning Framework by Metamorphic Testing. , 2017, , .		39
1001	Multi-task Curriculum Transfer Deep Learning of Clothing Attributes. , 2017, , .		53
1002	Visual Classification of Furniture Styles. ACM Transactions on Intelligent Systems and Technology, 2017, 8, 1-20.	2.9	12

#	Article	IF	Citations
1003	Feature extraction with convolutional neural networks for aerial image retrieval. , 2017, , .		7
1004	I Know What You Want to Express: Sentence Element Inference by Incorporating External Knowledge Base. IEEE Transactions on Knowledge and Data Engineering, 2017, 29, 344-358.	4.0	14
1005	Histopathological Image Classification With Color Pattern Random Binary Hashing-Based PCANet and Matrix-Form Classifier. IEEE Journal of Biomedical and Health Informatics, 2017, 21, 1327-1337.	3.9	57
1006	Combining feature extraction and expansion to improve classification based similarity learning. Pattern Recognition Letters, 2017, 93, 95-103.	2.6	11
1007	The extraction of motion-onset VEP BCI features based on deep learning and compressed sensing. Journal of Neuroscience Methods, 2017, 275, 80-92.	1.3	65
1008	A new image feature descriptor for content based image retrieval using scale invariant feature transform and local derivative pattern. Optik, 2017, 131, 242-254.	1.4	58
1009	Hybrid deep learning for automated lepidopteran insect image classification. Oriental Insects, 2017, 51, 79-91.	0.1	27
1010	Visual Tracking With Convolutional Random Vector Functional Link Network. IEEE Transactions on Cybernetics, 2017, 47, 3243-3253.	6.2	110
1011	Deep feature learning for cover song identification. Multimedia Tools and Applications, 2017, 76, 23225-23238.	2.6	1
1012	Contextual mapping: Visualization of high-dimensional spatial patterns in a single geo-map. Computers, Environment and Urban Systems, 2017, 61, 1-12.	3.3	15
1013	Graph Regularized Auto-Encoders for Image Representation. IEEE Transactions on Image Processing, 2017, 26, 2839-2852.	6.0	37
1014	Deep-neural network approaches for speech recognition with heterogeneous groups of speakers including children. Natural Language Engineering, 2017, 23, 325-350.	2.1	36
1015	Image classification based on convolutional neural networks with cross-level strategy. Multimedia Tools and Applications, 2017, 76, 11065-11079.	2.6	19
1016	Large scale deep learning for computer aided detection of mammographic lesions. Medical Image Analysis, 2017, 35, 303-312.	7.0	728
1017	A Deep Learning Scheme for Motor Imagery Classification based on Restricted Boltzmann Machines. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2017, 25, 566-576.	2.7	337
1018	Radar HRRP target recognition with deep networks. Pattern Recognition, 2017, 61, 379-393.	5.1	140
1019	Online and offline handwritten Chinese character recognition: A comprehensive study and new benchmark. Pattern Recognition, 2017, 61, 348-360.	5.1	228
1020	Combining local and global: Rich and robust feature pooling for visual recognition. Pattern Recognition, 2017, 62, 225-235.	5.1	27

#	ARTICLE	IF	CITATIONS
1021	Optimum-Path Forest based on k-connectivity: Theory and applications. Pattern Recognition Letters, 2017, 87, 117-126.	2.6	43
1023	Advances in machine learning applications for scenario intelligence: deep learning. Theoretical Issues in Ergonomics Science, 2017, 18, 184-198.	1.0	7
1024	A Clustering Approach to Learning Sparsely Used Overcomplete Dictionaries. IEEE Transactions on Information Theory, 2017, 63, 575-592.	1.5	14
1025	Visual Interaction with Dimensionality Reduction: A Structured Literature Analysis. IEEE Transactions on Visualization and Computer Graphics, 2017, 23, 241-250.	2.9	167
1026	A modular architecture for transparent computation in recurrent neural networks. Neural Networks, 2017, 85, 85-105.	3.3	15
1027	A survey on automated cancer diagnosis from histopathology images. Artificial Intelligence Review, 2017, 48, 31-81.	9.7	57
1028	Towards Better Analysis of Deep Convolutional Neural Networks. IEEE Transactions on Visualization and Computer Graphics, 2017, 23, 91-100.	2.9	320
1029	Sparse multiple maximum scatter difference for dimensionality reduction. , 2017, 62, 91-100.		4
1030	Multitask Learning of Context-Dependent Targets in Deep Neural Network Acoustic Models. IEEE/ACM Transactions on Audio Speech and Language Processing, 2017, 25, 238-247.	4.0	17
1031	A Systematic Semi-Supervised Self-adaptable Fault Diagnostics approach in an evolving environment. Mechanical Systems and Signal Processing, 2017, 88, 413-427.	4.4	25
1032	Finding a good initial configuration of parameters for restricted Boltzmann machine pre-training. Soft Computing, 2017, 21, 6471-6479.	2.1	3
1033	Networking for Big Data: A Survey. IEEE Communications Surveys and Tutorials, 2017, 19, 531-549.	24.8	174
1034	Sparse and Redundant Representation-Based Smart Meter Data Compression and Pattern Extraction. IEEE Transactions on Power Systems, 2017, 32, 2142-2151.	4.6	103
1035	Survey on deep learning methods in human action recognition. IET Computer Vision, 2017, 11, 623-632.	1.3	56
1036	Exploring ASR-free end-to-end modeling to improve spoken language understanding in a cloud-based dialog system. , 2017, , .		33
1037	A new data-driven intelligent fault diagnosis by using convolutional neural network. , 2017, , .		14
1038	Learning deep generative spatial models for mobile robots. , 2017, , .		17
1039	Neuro-energetic aspects of cognition â€" The role of pulse-wave-pulse conversion in the interpretation of brain imaging data. , 2017, , .		2

#	Article	IF	Citations
1040	Integrating embeddings of multiple gene networks to prioritize complex disease-associated genes. , 2017, , .		6
1041	Different latent variables learning in variational autoencoder. , 2017, , .		4
1042	Grad-CAM: Visual Explanations from Deep Networks via Gradient-Based Localization. , 2017, , .		8,176
1043	Principled Multilayer Network Embedding. , 2017, , .		60
1044	Big data from smart grids. , 2017, , .		2
1045	Experimental study on stacked autoencoder on insufficient training samples. , 2017, , .		2
1046	Comic Characters Detection Using Deep Learning. , 2017, , .		23
1047	Fingerprint minutiae extraction using deep learning. , 2017, , .		46
1048	A survey of machine learning algorithms for big data analytics. , 2017, , .		46
1049	Deep Convolutional Neural Models for Picture-Quality Prediction: Challenges and Solutions to Data-Driven Image Quality Assessment. IEEE Signal Processing Magazine, 2017, 34, 130-141.	4.6	226
1050	Everything You Wanted to Know about Deep Learning for Computer Vision but Were Afraid to Ask. , 2017, , .		71
1051	Spatio-temporal autoencoder for feature learning in patient data with missing observations. , 2017, , .		11
1052	A new algorithm for training sparse autoencoders. , 2017, , .		6
1053	LASER: A Deep Learning Approach for Speculative Execution and Replication of Deadline-Critical Jobs in Cloud. , 2017, , .		9
1054	Improving Pitch Class Profile for Musical Chords Recognition Combining Major Chord Filters and Convolution Neural Networks. , 2017, , .		2
1055	Deep encrypted text categorization. , 2017, , .		9
1056	Gender and ethnicity classification of Iris images using deep class-encoder. , 2017, , .		26
1057	Visual guided deep learning scheme for fall detection. , 2017, , .		10

#	ARTICLE	IF	CITATIONS
1058	Domain Adaptation for Online ECG Monitoring. , 2017, , .		8
1059	Learning to recommend descriptive tags for health seekers using deep learning. , 2017, , .		2
1060	Modeling the Temporal Nature of Human Behavior for Demographics Prediction. Lecture Notes in Computer Science, 2017, , 140-152.	1.0	11
1061	Accurate object classification and detection by faster-RCNN. IOP Conference Series: Materials Science and Engineering, 2017, 263, 052028.	0.3	25
1062	Speech recognition features based on deep latent Gaussian models. , 2017, , .		0
1063	Spectrum-based Deep Neural Networks for Fraud Detection. , 2017, , .		23
1064	Improving the benchmarking of social media content strategies using clustering and KPI. Procedia Computer Science, 2017, 121, 826-834.	1.2	6
1065	Evaluation of Non-linearity in MIR Spectroscopic Data for Compressed Learning. , 2017, , .		2
1066	Loop closure detection for visual SLAM systems using convolutional neural network. , 2017, , .		39
1067	Deep convolutional neural networks for automatic segmentation of left ventricle cavity from cardiac magnetic resonance images. IET Computer Vision, 2017, 11, 643-649.	1.3	22
1068	Character-Based Convolutional Grid Neural Network for Breast Cancer Classification. , 2017, , .		7
1069	Learning Feature Representations from Change Dependency Graphs for Defect Prediction. , 2017, , .		4
1070	ThiNet: A Filter Level Pruning Method for Deep Neural Network Compression. , 2017, , .		993
1071	Hierarchical feature exttratction for object recogition in complex SAR image using modified convolutional auto-encoder. , 2017, , .		0
1072	Abnormal event detection based on deep autoencoder fusing optical flow. , 2017, , .		7
1073	Toward a signal-processing foundation for computational sensing and imaging: electro-optical basis and merit functions. APSIPA Transactions on Signal and Information Processing, 2017, 6, .	2.6	5
1074	On the recognition of spontaneous emotions in spoken Chinese. , 2017, , .		0
1075	Quality-adaptive deep learning for pedestrian detection. , 2017, , .		7

#	Article	IF	Citations
1076	Learning object recognition based on compressive sampling. , 2017, , .		2
1077	Image ordinal estimation: Classification and regression benefit each other. , 2017, , .		2
1078	A novel method to analyze logs generated by wireless telecommunication systems. , 2017, , .		1
1079	Interpretation of Semantic Tweet Representations. , 2017, , .		5
1080	Learning to judge like a human. , 2017, , .		15
1081	Implementation of vehicle detection algorithm for self-driving car on toll road cipularang using Python language. , 2017, , .		9
1082	Implementation of lane detection algorithm for self-driving car on toll road cipularang using Python language. , 2017, , .		19
1083	Improving Interpretability of Deep Neural Networks with Semantic Information. , 2017, , .		66
1084	Disentangled Representation Learning GAN for Pose-Invariant Face Recognition. , 2017, , .		608
1085	ShapeOdds: Variational Bayesian Learning of Generative Shape Models. , 2017, , .		2
1086	StyleBank: An Explicit Representation for Neural Image Style Transfer. , 2017, , .		292
1087	CLEVR: A Diagnostic Dataset for Compositional Language and Elementary Visual Reasoning. , 2017, , .		742
1088	Deep Image Harmonization. , 2017, , .		147
1089	Network Dissection: Quantifying Interpretability of Deep Visual Representations. , 2017, , .		593
1090	A brief survey of machine learning methods and their sensor and IoT applications. , 2017, , .		164
1091	HashNet: Deep Learning to Hash by Continuation. , 2017, , .		415
1092	Ensemble representation learning. , 2017, , .		8
1093	RLOSD: Representation learning based opinion spam detection. , 2017, , .		5

#	Article	IF	Citations
1094	Fault diagnosis based on sparse class Gaussian Restrict Boltzmann Machine model. , 2017, , .		0
1095	Elmnet: Feature learning using extreme learning machines. , 2017, , .		4
1096	Noise self-filtering K-nearest neighbors algorithms. , 2017, , .		0
1097	Counting plants using deep learning. , 2017, , .		27
1098	Deep belief network based nonlinear representation learning for transient stability assessment. , 2017, , .		20
1099	Deep Visual-Semantic Quantization for Efficient Image Retrieval. , 2017, , .		96
1100	Aligned Image-Word Representations Improve Inductive Transfer Across Vision-Language Tasks. , 2017, , .		9
1101	Attribute Recognition by Joint Recurrent Learning of Context and Correlation. , 2017, , .		90
1102	Unsupervised Learning of Object Landmarks by Factorized Spatial Embeddings. , 2017, , .		85
1103	Deep Hashing Network for Unsupervised Domain Adaptation. , 2017, , .		888
1104	Neural Face Editing with Intrinsic Image Disentangling. , 2017, , .		206
1105	iCaRL: Incremental Classifier and Representation Learning. , 2017, , .		1,376
1106	Learning Features by Watching Objects Move. , 2017, , .		258
1107	Non-local Deep Features for Salient Object Detection. , 2017, , .		387
1108	Query-by-example word spotting using multiscale features and classification in the space of representation differences. , 2017, , .		4
1109	Application of Computer Identification and Location Algorithm in Small far Infrared Target Recognition of Ship Under Surge Interference. Polish Maritime Research, 2017, 24, 171-181.	0.6	0
1110	Using deep networks for fraud detection in the credit card transactions. , 2017, , .		37
1111	Animal Biometrics. , 2017, , .		3

#	ARTICLE	IF	CITATIONS
1112	Recognizing Persian handwritten words using deep convolutional networks. , 2017, , .		3
1113	Disentangled representations via synergy minimization. , 2017, , .		1
1114	Planning without a domain model. , 2017, , .		1
1115	Deep Neural Networks with Confidence Sampling for Electrical Anomaly Detection. , 2017, , .		14
1116	Separating inference from feature learning in deep unsupervised visual saliency estimation. , 2017, , .		1
1117	Structured discriminative concept factorization for data representation. , 2017, , .		1
1118	Study on SAR target recognition performance based on convolution neural network. , 2017, , .		1
1119	Deep Representation Learning for Human Motion Prediction and Classification. , 2017, , .		221
1120	Additive Component Analysis. , 2017, , .		3
1121	Fuzzy DBN with rule-based knowledge representation and high interpretability. , 2017, , .		12
1122	Deep features for breast cancer histopathological image classification. , 2017, , .		191
1123	Deep Learning on Operational Facility Data Related to Large-Scale Distributed Area Scientific Workflows. , 2017, , .		1
1124	A Feature Space Learning Model Based on Semi-Supervised Clustering. , 2017, , .		1
1125	Convolutional Neural Networks Based Multi-task Deep Learning for Movie Review Classification. , 2017, , .		0
1126	Effect of parameter sharing for multimodal deep autoencoders. , 2017, , .		0
1127	Attention-based Wav2Text with feature transfer learning. , 2017, , .		10
1128	Intelligent fault diagnosis of rotating machinery using locally connected restricted boltzmann machine in big data era. , 2017, , .		5
1129	Forecasting of photovoltaic power using deep belief network. , 2017, , .		23

#	Article	IF	Citations
1130	Discriminative Deep Belief Networks with Ant Colony Optimization for Health Status Assessment of Machine. IEEE Transactions on Instrumentation and Measurement, 2017, 66, 3115-3125.	2.4	101
1131	Fusion of statistical and learnt features for SAR images classification. , 2017, , .		0
1132	Learning spectro-temporal features with 3D CNNs for speech emotion recognition. , 2017, , .		23
1134	To Veer or Not to Veer: Learning from Experts How to Stay Within the Crosswalk. , 2017, , .		4
1135	Infant Footprint Recognition. , 2017, , .		12
1136	Class Rectification Hard Mining for Imbalanced Deep Learning. , 2017, , .		113
1137	Learning about individuals' health from aggregate data. , 2017, 2017, 3106-3109.		3
1138	Deep divergence-based clustering. , 2017, , .		2
1139	Learning embeddings for speaker clustering based on voice equality. , 2017, , .		5
1140	Autoencoder, low rank approximation and pseudoinverse learning algorithm. , 2017, , .		25
1141	Era of deep neural networks: A review. , 2017, , .		45
1142	Cross-subject classification of cognitive loads using a recurrent-residual deep network. , 2017, , .		6
1143	Exploring Kernel Based Spatial Context for CNN Based Hyperspectral Image Classification. , 2017, , .		4
1144	Semantic Specialization of Distributional Word Vector Spaces using Monolingual and Cross-Lingual Constraints. Transactions of the Association for Computational Linguistics, 2017, 5, 309-324.	3.2	117
1145	Measuring Countries Human Rights Positions in UN Universal Periodic Review. SSRN Electronic Journal, 2017, , .	0.4	1
1146	Data Analytics for Non-Life Insurance Pricing. SSRN Electronic Journal, 0, , .	0.4	24
1147	Toward Studying Music Cognition with Information Retrieval Techniques: Lessons Learned from the OpenMIIR Initiative. Frontiers in Psychology, 2017, 8, 1255.	1.1	12
1148	Future Directions in Machine Learning. Frontiers in Robotics and AI, 2017, 3, .	2.0	16

#	Article	IF	Citations
1149	Multi-Instance Multi-Stage Deep Learning for Medical Image Recognition. , 2017, , 83-104.		10
1150	Deformable MR Prostate Segmentation via Deep Feature Learning and Sparse Patch Matching. , 2017, , 197-222.		12
1151	Randomized Deep Learning Methods for Clinical Trial Enrichment and Design in Alzheimer's Disease. , 2017, , 341-378.		2
1152	Transfer learning based classification of optical coherence tomography images with diabetic macular edema and dry age-related macular degeneration. Biomedical Optics Express, 2017, 8, 579.	1.5	237
1153	Object classification through scattering media with deep learning on time resolved measurement. Optics Express, 2017, 25, 17466.	1.7	101
1154	Joint OSNR monitoring and modulation format identification in digital coherent receivers using deep neural networks. Optics Express, 2017, 25, 17767.	1.7	181
1155	Individual intelligent method-based fault diagnosis. , 2017, , 67-174.		11
1156	Artificial Paleography: Computational Approaches to Identifying Script Types in Medieval Manuscripts. Speculum, 2017, 92, S86-S109.	0.0	9
1157	Deep Transfer Learning for Modality Classification of Medical Images. Information (Switzerland), 2017, 8, 91.	1.7	111
1158	Sea Ice Concentration Estimation during Freeze-Up from SAR Imagery Using a Convolutional Neural Network. Remote Sensing, 2017, 9, 408.	1.8	52
1159	An Adaptive Multi-Sensor Data Fusion Method Based on Deep Convolutional Neural Networks for Fault Diagnosis of Planetary Gearbox. Sensors, 2017, 17, 414.	2.1	287
1160	Unsupervised Fault Diagnosis of a Gear Transmission Chain Using a Deep Belief Network. Sensors, 2017, 17, 1564.	2.1	55
1161	Neural Networks for Radar Waveform Recognition. Symmetry, 2017, 9, 75.	1.1	47
1162	A deep auto-encoder model for gene expression prediction. BMC Genomics, 2017, 18, 845.	1.2	79
1163	Remaining Useful Life Prediction of Hybrid Ceramic Bearings Using an Integrated Deep Learning and Particle Filter Approach. Applied Sciences (Switzerland), 2017, 7, 649.	1.3	53
1164	Comparison of Four SVM Classifiers Used with Depth Sensors to Recognize Arabic Sign Language Words. Computers, 2017, 6, 20.	2.1	7
1165	The Partial Information Decomposition of Generative Neural Network Models. Entropy, 2017, 19, 474.	1.1	37
1166	Upscaling of Surface Soil Moisture Using a Deep Learning Model with VIIRS RDR. ISPRS International Journal of Geo-Information, 2017, 6, 130.	1.4	36

#	Article	IF	Citations
1167	Deep Learning Tissue Segmentation in Cardiac Histopathology Images. , 2017, , 179-195.		17
1168	The Role of Architectural and Learning Constraints in Neural Network Models: A Case Study on Visual Space Coding. Frontiers in Computational Neuroscience, 2017, 11, 13.	1.2	7
1169	Resting State fMRI Functional Connectivity-Based Classification Using a Convolutional Neural Network Architecture. Frontiers in Neuroinformatics, 2017, 11, 61.	1.3	103
1170	Classical Statistics and Statistical Learning in Imaging Neuroscience. Frontiers in Neuroscience, 2017, 11, 543.	1.4	116
1172	A Review of Deep Learning Methods and Applications for Unmanned Aerial Vehicles. Journal of Sensors, 2017, 2017, 1-13.	0.6	233
1173	Shape Completion Using Deep Boltzmann Machine. Computational Intelligence and Neuroscience, 2017, 2017, 1-10.	1.1	1
1174	Head and Neck Cancer Tumor Segmentation Using Support Vector Machine in Dynamic Contrast-Enhanced MRI. Contrast Media and Molecular Imaging, 2017, 2017, 1-5.	0.4	21
1175	Deep Hierarchical Representation from Classifying Logo-405. Complexity, 2017, 2017, 1-12.	0.9	6
1176	Recovering Individual's Commute Routes Based on Mobile Phone Data. Mobile Information Systems, 2017, 2017, 1-11.	0.4	2
1177	Machine Intelligence in Signal Sensing, Processing, and Recognition. Journal of Electrical and Computer Engineering, 2017, 2017, 1-2.	0.6	0
1178	Tongue Images Classification Based on Constrained High Dispersal Network. Evidence-based Complementary and Alternative Medicine, 2017, 2017, 1-12.	0.5	19
1179	Deep Learning for Plant Identification in Natural Environment. Computational Intelligence and Neuroscience, 2017, 2017, 1-6.	1.1	155
1180	Application of Deep Learning in Automated Analysis of Molecular Images in Cancer: A Survey. Contrast Media and Molecular Imaging, 2017, 2017, 1-10.	0.4	43
1181	Multiscale Convolutional Neural Networks for Hand Detection. Applied Computational Intelligence and Soft Computing, 2017, 2017, 1-13.	1.6	26
1182	Iterative Schemes to Solve Low-Dimensional Calibration Equations in Parallel MR Image Reconstruction with GRAPPA. BioMed Research International, 2017, 2017, 1-16.	0.9	5
1184	Three-Class Mammogram Classification Based on Descriptive CNN Features. BioMed Research International, 2017, 2017, 1-11.	0.9	110
1185	A Markovian model of evolving world input-output network. PLoS ONE, 2017, 12, e0186746.	1.1	13
1186	Analyzing cross-college course enrollments via contextual graph mining. PLoS ONE, 2017, 12, e0188577.	1.1	4

#	ARTICLE	IF	CITATIONS
1187	Collaborative representation-based classification of microarray gene expression data. PLoS ONE, 2017, 12, e0189533.	1.1	2
1188	A deep learning framework for financial time series using stacked autoencoders and long-short term memory. PLoS ONE, 2017, 12, e0180944.	1.1	599
1189	Data-Driven Influence Learning in Social Networks. , 2017, , .		0
1190	An efficient sparse-dense matrix multiplication on a multicore system. , 2017, , .		2
1191	Medical subdomain classification of clinical notes using a machine learning-based natural language processing approach. BMC Medical Informatics and Decision Making, 2017, 17, 155.	1.5	113
1192	A link prediction approach to cancer drug sensitivity prediction. BMC Systems Biology, 2017, 11, 94.	3.0	47
1193	Learning scene-aware image priors with high-order Markov random fields. Applied Informatics, 2017, 4, .	0.5	1
1194	Correlative data based sparse denoising auto-encoder for feature learning. , 2017, , .		0
1195	Towards physical layer identification of cognitive radio devices. , 2017, , .		5
1196	Performance effect analysis for insect classification using convolutional neural network. , 2017, , .		17
1197	Lie group impression for deep learning. , 2017, , .		0
1199	A subspace recursive and selective feature transformation method for classification tasks. Big Data Analytics, 2017, 2, .	2.2	3
1200	Vehicle detection on a video traffic scene: Review and new perspectives. , 2017, , .		1
1201	Face Verification Based on Relational Disparity Features and Partial Least Squares Models. , 2017, , .		2
1202	Constructing transitive closure on multigraph with adjacency hyperedges matrix. , 2017, , .		0
1203	Feature Learning Using Synaptic Competition in a Dynamically-Sized Neuromorphic Architecture. , 2017, , .		1
1204	Comparison of semantic vectors with reduced precision using the cosine similarity measure. , 2017, , .		1
1205	Deep graph node kernels: A convex approach. , 2017, , .		1

#	Article	IF	Citations
1206	A deep learning method for lincRNA detection using auto-encoder algorithm. BMC Bioinformatics, 2017, 18, 511.	1.2	22
1207	Predicting Short-Term Congested Traffic Flow on Urban Motorway Networks. , 2017, , 145-165.		10
1208	Unsupervised Deep Learning for Data-Driven Reliability and Risk Analysis of Engineered Systems. , 2017, , 417-431.		6
1209	Selecting Fine-Tuned Features for Layout Analysis of Historical Documents. , 2017, , .		2
1210	Fusing two convolutional neural networks for high-resolution scene classification. , 2017, , .		4
1211	An infinite classification RBM model for radar HRRP recognition. , 2017, , .		6
1212	Unsupervised feature-learning for galaxy SEDs with denoising autoencoders. Astronomy and Astrophysics, 2017, 603, A60.	2.1	16
1213	On the Generality of Codebook Approach for Sensor-Based Human Activity Recognition. Electronics (Switzerland), 2017, 6, 44.	1.8	20
1214	Deep unsupervised feature extraction of sensory signals. Contemporary Engineering Sciences, 2017, 10, 145-155.	0.2	1
1215	Loop Closure Detection for Visual SLAM Based on Deep Learning. , 2017, , .		4
1216	Autoencoder with recurrent neural networks for video forgery detection. IS&T International Symposium on Electronic Imaging, 2017, 29, 92-99.	0.3	75
1217	Retrieval of Misplaced Items Using a Mobile Robot via Visual Object Recognition. , 2017, , .		2
1218	Automatically generating features for learning program analysis heuristics for C-like languages. , 2017, 1, 1-25.		17
1219	Network Intrusion Detection through Stacking Dilated Convolutional Autoencoders. Security and Communication Networks, 2017, 2017, 1-10.	1.0	119
1220	Deep recurrent neural networks in HIV-1 protease cleavage classification. International Journal of Data Mining and Bioinformatics, 2017, 19, 298.	0.1	3
1221	Image Classification Using Deep Autoencoders. , 2017, , .		11
1222	Training Object Detection And Recognition CNN Models Using Data Augmentation. IS&T International Symposium on Electronic Imaging, 2017, 29, 27-36.	0.3	50
1223	A Comprehensive Study of Big Data Machine Learning Approaches and Challenges. , 2017, , .		10

#	Article	IF	Citations
1224	An Insight into State-of-the-Art Techniques for Big Data Classification. International Journal of Information System Modeling and Design, 2017, 8, 24-42.	0.9	0
1225	Cluster Analysis in Data‐Driven Management and Decisions. Journal of Management Science and Engineering, 2017, 2, 227-251.	1.9	16
1226	Sub-band Autoencoder features for Automatic Speech Recognition. , 2017, , .		0
1227	An Adaptive Convolutional Neural Network Framework for Multi-user Myoelectric Interfaces. , 2017, , .		2
1228	Automatic LPI Radar Waveform Recognition Using CNN. IEEE Access, 2018, 6, 4207-4219.	2.6	123
1229	Automatic Classification of Functional Gait Disorders. IEEE Journal of Biomedical and Health Informatics, 2018, 22, 1653-1661.	3.9	40
1230	Brain Tumor Segmentation in MRI Scans Using Deeply-Supervised Neural Networks. Lecture Notes in Computer Science, 2018, , 320-331.	1.0	14
1231	Deep hybrid neural-kernel networks using random Fourier features. Neurocomputing, 2018, 298, 46-54.	3.5	26
1232	Extracting Spectral Features Using Deep Autoencoders With Binary Distributed Hidden Units for Statistical Parametric Speech Synthesis. IEEE/ACM Transactions on Audio Speech and Language Processing, 2018, 26, 713-724.	4.0	7
1233	Information Dropout: Learning Optimal Representations Through Noisy Computation. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2018, 40, 2897-2905.	9.7	152
1234	Deep neural networks to enable real-time multimessenger astrophysics. Physical Review D, 2018, 97, .	1.6	166
1235	A Tensor-Train Deep Computation Model for Industry Informatics Big Data Feature Learning. IEEE Transactions on Industrial Informatics, 2018, 14, 3197-3204.	7.2	41
1236	Improving the Accuracy of Simultaneously Reconstructed Activity and Attenuation Maps Using Deep Learning. Journal of Nuclear Medicine, 2018, 59, 1624-1629.	2.8	124
1237	Automatic Tobacco Plant Detection in UAV Images via Deep Neural Networks. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2018, 11, 876-887.	2.3	74
1238	Deep Learning-Based Feature Representation and Its Application for Soft Sensor Modeling With Variable-Wise Weighted SAE. IEEE Transactions on Industrial Informatics, 2018, 14, 3235-3243.	7.2	447
1239	Learning deep representation for trajectory clustering. Expert Systems, 2018, 35, e12252.	2.9	35
1240	Visual mental imagery: A view from artificial intelligence. Cortex, 2018, 105, 155-172.	1.1	8
1241	Diversity and degrees of freedom in regression ensembles. Neurocomputing, 2018, 298, 55-68.	3.5	22

#	Article	IF	Citations
1242	Chernoff information between Gaussian trees. Information Sciences, 2018, 453, 442-462.	4.0	0
1243	Improvement of Face Recognition Algorithm Based on Neural Network. , 2018, , .		11
1244	The effect of time on EMG classification of hand motions in able-bodied and transradial amputees. Journal of Electromyography and Kinesiology, 2018, 40, 72-80.	0.7	43
1245	Impact of the end of CMOS miniaturization on ICT and the world after that. , 2018, , .		0
1246	Deep learning from electronic medical records using attention-based cross-modal convolutional neural networks. , 2018, , .		10
1247	Data augmentation and directional feature maps extraction for in-air handwritten Chinese character recognition based on convolutional neural network. Pattern Recognition Letters, 2018, 111, 9-15.	2.6	34
1248	False Alarm Reduction in Atrial Fibrillation Detection Using Deep Belief Networks. IEEE Transactions on Instrumentation and Measurement, 2018, 67, 1124-1131.	2.4	48
1249	Deformation-Based 3D Facial Expression Representation. ACM Transactions on Multimedia Computing, Communications and Applications, 2018, 14, 1-22.	3.0	8
1250	Conceptual alignment deep neural networks. Journal of Intelligent and Fuzzy Systems, 2018, 34, 1631-1642.	0.8	26
1251	TSCSet. , 2018, , .		14
1252	Deep learning for sentiment analysis: A survey. Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery, 2018, 8, e1253.	4.6	898
1253	OCPMDM: Online computation platform for materials data mining. Chemometrics and Intelligent Laboratory Systems, 2018, 177, 26-34.	1.8	28
1254	Current Techniques for Breath Sound Analysis. , 2018, , 139-177.		4
1255	Research and Development of Face Recognition System Based on ARM Architecture. , 2018, , .		1
1256	Artificial intelligence for fault diagnosis of rotating machinery: A review. Mechanical Systems and Signal Processing, 2018, 108, 33-47.	4.4	1,401
1257	Deep Learning for Passive Synthetic Aperture Radar. IEEE Journal on Selected Topics in Signal Processing, 2018, 12, 90-103.	7.3	45
1258	Deep Coupling Autoencoder for Fault Diagnosis With Multimodal Sensory Data. IEEE Transactions on Industrial Informatics, 2018, 14, 1137-1145.	7.2	198
1259	Deep Domain Generalization With Structured Low-Rank Constraint. IEEE Transactions on Image Processing, 2018, 27, 304-313.	6.0	64

#	ARTICLE	IF	CITATIONS
1260	Integrating multi-level deep learning and concept ontology for large-scale visual recognition. Pattern Recognition, 2018, 78, 198-214.	5.1	39
1261	Deep Recurrent Neural Networks for Winter Vegetation Quality Mapping via Multitemporal SAR Sentinel-1. IEEE Geoscience and Remote Sensing Letters, 2018, 15, 464-468.	1.4	84
1262	Iris Recognition With Off-the-Shelf CNN Features: A Deep Learning Perspective. IEEE Access, 2018, 6, 18848-18855.	2.6	230
1263	Hand-Object Contact Force Estimation from Markerless Visual Tracking. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2018, 40, 2883-2896.	9.7	45
1264	Linear Maximum Margin Classifier for Learning from Uncertain Data. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2018, 40, 2948-2962.	9.7	26
1265	Analyzing Tongue Images Using a Conceptual Alignment Deep Autoencoder. IEEE Access, 2018, 6, 5962-5972.	2.6	29
1266	CUNet: A Compact Unsupervised Network for Image Classification. IEEE Transactions on Multimedia, 2018, , 1-1.	5.2	12
1267	Applications of deep learning to MRI images: A survey. Big Data Mining and Analytics, 2018, 1, 1-18.	7.5	195
1268	Multiple Kernel Learning for Remote Sensing Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 1425-1443.	2.7	36
1269	Concatenated and Connected Random Forests With Multiscale Patch Driven Active Contour Model for Automated Brain Tumor Segmentation of MR Images. IEEE Transactions on Medical Imaging, 2018, 37, 1943-1954.	5.4	145
1270	On Effectiveness of Transfer Learning Approach for Neural Network-Based Virtual Metrology Modeling. IEEE Transactions on Semiconductor Manufacturing, 2018, 31, 149-155.	1.4	32
1271	Hierarchical sparse coding framework for speech emotion recognition. Speech Communication, 2018, 99, 80-89.	1.6	18
1272	Applying Data-driven Imaging Biomarker in Mammography for Breast Cancer Screening: Preliminary Study. Scientific Reports, 2018, 8, 2762.	1.6	65
1273	An automatic taxonomy of galaxy morphology using unsupervised machine learning. Monthly Notices of the Royal Astronomical Society, 2018, 473, 1108-1129.	1.6	63
1274	Two-Stream Deep Architecture for Hyperspectral Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 2349-2361.	2.7	103
1275	An Extended Reinforcement Learning Framework to Model Cognitive Development With Enactive Pattern Representation. IEEE Transactions on Cognitive and Developmental Systems, 2018, 10, 738-750.	2.6	8
1276	Deep Learning Applications in Medical Image Analysis. IEEE Access, 2018, 6, 9375-9389.	2.6	903
1277	Digital watermarking for deep neural networks. International Journal of Multimedia Information Retrieval, 2018, 7, 3-16.	3.6	84

#	Article	IF	Citations
1278	Super-resolution for biometrics: A comprehensive survey. Pattern Recognition, 2018, 78, 23-42.	5.1	95
1279	Supervised Hash Coding With Deep Neural Network for Environment Perception of Intelligent Vehicles. IEEE Transactions on Intelligent Transportation Systems, 2018, 19, 284-295.	4.7	198
1280	Network Embedding as Matrix Factorization. , 2018, , .		488
1281	An integrated multi-sensor fusion-based deep feature learning approach for rotating machinery diagnosis. Measurement Science and Technology, 2018, 29, 055103.	1.4	86
1282	Big Data: Deep Learning for financial sentiment analysis. Journal of Big Data, 2018, 5, .	6.9	219
1283	Locally weighted embedding topic modeling by markov random walk structure approximation and sparse regularization. Neurocomputing, 2018, 285, 35-50.	3.5	1
1284	Learning Multiscale Deep Features for High-Resolution Satellite Image Scene Classification. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 117-126.	2.7	130
1285	Camera-Assisted Video Saliency Prediction and Its Applications. IEEE Transactions on Cybernetics, 2018, 48, 2520-2530.	6.2	2
1286	A practical tutorial on autoencoders for nonlinear feature fusion: Taxonomy, models, software and guidelines. Information Fusion, 2018, 44, 78-96.	11.7	212
1287	A New Convolutional Neural Network-Based Data-Driven Fault Diagnosis Method. IEEE Transactions on Industrial Electronics, 2018, 65, 5990-5998.	5.2	1,381
1288	Deep Convolutional Neural Networks for breast cancer screening. Computer Methods and Programs in Biomedicine, 2018, 157, 19-30.	2.6	310
1289	DropRegion training of inception font network for high-performance Chinese font recognition. Pattern Recognition, 2018, 77, 395-411.	5.1	15
1290	HAST-IDS: Learning Hierarchical Spatial-Temporal Features Using Deep Neural Networks to Improve Intrusion Detection. IEEE Access, 2018, 6, 1792-1806.	2.6	388
1291	Knowledge Graph Embedding. ACM Transactions on the Web, 2018, 12, 1-33.	2.0	17
1292	Video feature descriptor combining motion and appearance cues with length-invariant characteristics. Optik, 2018, 157, 1143-1154.	1.4	7
1293	A Deep Autoencoder-Based Knowledge Transfer Approach. Lecture Notes on Data Engineering and Communications Technologies, 2018, , 277-284.	0.5	4
1294	Towards understanding sparse filtering: A theoretical perspective. Neural Networks, 2018, 98, 154-177.	3.3	27
1295	Dataâ€driven pedestrian reâ€identification based on hierarchical semantic representation. Concurrency Computation Practice and Experience, 2018, 30, e4403.	1.4	9

#	Article	IF	Citations
1296	An architecture for emergency event prediction using LSTM recurrent neural networks. Expert Systems With Applications, 2018, 97, 315-324.	4.4	125
1297	Segmentation of glioma tumors in brain using deep convolutional neural network. Neurocomputing, 2018, 282, 248-261.	3.5	171
1298	LeNup: learning nucleosome positioning from DNA sequences with improved convolutional neural networks. Bioinformatics, 2018, 34, 1705-1712.	1.8	34
1299	A Computer-Aided Decision Support System for Detection and Localization of Cutaneous Vasculature in Dermoscopy Images Via Deep Feature Learning. Journal of Medical Systems, 2018, 42, 33.	2.2	30
1300	Handwritten digit segmentation: Is it still necessary?. Pattern Recognition, 2018, 78, 1-11.	5.1	36
1301	Kernelâ€based measures of association. Wiley Interdisciplinary Reviews: Computational Statistics, 2018, 10, e1422.	2.1	4
1302	A general framework for sensor-based human activity recognition. Computers in Biology and Medicine, 2018, 95, 248-260.	3.9	47
1303	Dropout training for SVMs with data augmentation. Frontiers of Computer Science, 2018, 12, 694-713.	1.6	5
1304	Energy Propagation in Deep Convolutional Neural Networks. IEEE Transactions on Information Theory, 2018, 64, 4819-4842.	1.5	10
1305	A Mathematical Theory of Deep Convolutional Neural Networks for Feature Extraction. IEEE Transactions on Information Theory, 2018, 64, 1845-1866.	1.5	212
1306	Environmental microorganism classification using conditional random fields and deep convolutional neural networks. Pattern Recognition, 2018, 77, 248-261.	5.1	67
1307	Learning to embed music and metadata for context-aware music recommendation. World Wide Web, 2018, 21, 1399-1423.	2.7	23
1308	TEM. , 2018, , .		137
1309	TransPath: Representation Learning for Heterogeneous Information Networks via Translation Mechanism. IEEE Access, 2018, 6, 20712-20721.	2.6	2
1310	NAIS: Neural Attentive Item Similarity Model for Recommendation. IEEE Transactions on Knowledge and Data Engineering, 2018, 30, 2354-2366.	4.0	363
1311	Non-iterative approaches in training feed-forward neural networks and their applications. Soft Computing, 2018, 22, 3473-3476.	2.1	42
1312	Leveraging knowledge engineering and machine learning for microbial bio-manufacturing. Biotechnology Advances, 2018, 36, 1308-1315.	6.0	54
1313	Community aware random walk for network embedding. Knowledge-Based Systems, 2018, 148, 47-54.	4.0	67

#	Article	IF	Citations
1314	Condition-based maintenance of naval propulsion systems: Data analysis with minimal feedback. Reliability Engineering and System Safety, 2018, 177, 12-23.	5.1	50
1315	Content Attention Model for Aspect Based Sentiment Analysis. , 2018, , .		105
1316	Transfer Learning of Artist Group Factors to Musical Genre Classification. , 2018, , .		9
1317	Convolutional pyramid of bidirectional character sequences for the recognition of handwritten words. Pattern Recognition Letters, 2018, 111, 87-93.	2.6	13
1318	Action and object words are differentially anchored in the sensory motor system - A perspective on cognitive embodiment. Scientific Reports, 2018, 8, 6583.	1.6	32
1319	Global statistical features-based approach for Acoustic Event Detection. Applied Acoustics, 2018, 139, 113-118.	1.7	14
1320	An anomaly detection method to detect web attacks using Stacked Auto-Encoder. , 2018, , .		69
1321	Smart buildings as Cyber-Physical Systems: Data-driven predictive control strategies for energy efficiency. Renewable and Sustainable Energy Reviews, 2018, 90, 742-756.	8.2	92
1322	Machine Learning in Rehabilitation Assessment for Thermal and Heart Rate Data Processing. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2018, 26, 1209-1214.	2.7	30
1323	Automatic classification of tobacco leaves based on near infrared spectroscopy and nonnegative least squares. Journal of Near Infrared Spectroscopy, 2018, 26, 101-105.	0.8	6
1324	Convolutional Neural Networks for Electrocardiogram Classification. Journal of Medical and Biological Engineering, 2018, 38, 1014-1025.	1.0	75
1325	Extracting statistically significant behaviour from fish tracking data with and without large dataset cleaning. IET Computer Vision, 2018, 12, 162-170.	1.3	18
1326	Deep convolutional autoencoder for radar-based classification of similar aided and unaided human activities. IEEE Transactions on Aerospace and Electronic Systems, 2018, 54, 1709-1723.	2.6	248
1327	Generative Adversarial Networks for Hyperspectral Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 5046-5063.	2.7	497
1328	Automated detection and classification of the proximal humerus fracture by using deep learning algorithm. Monthly Notices of the Royal Astronomical Society: Letters, 2018, 89, 468-473.	1.2	283
1329	Data Analysis Strategies in Medical Imaging. Clinical Cancer Research, 2018, 24, 3492-3499.	3.2	115
1330	A Deep Learning Framework for Robust and Accurate Prediction of ncRNA-Protein Interactions Using Evolutionary Information. Molecular Therapy - Nucleic Acids, 2018, 11, 337-344.	2.3	116
1331	VIAL: a unified process for visual interactive labeling. Visual Computer, 2018, 34, 1189-1207.	2.5	50

#	ARTICLE	IF	CITATIONS
1332	Big Data in Drug Discovery. Progress in Medicinal Chemistry, 2018, 57, 277-356.	4.1	36
1333	Automatic Pearl Classification Machine Based on a Multistream Convolutional Neural Network. IEEE Transactions on Industrial Electronics, 2018, 65, 6538-6547.	5.2	64
1334	Multilayer Graph Node Kernels: Stacking While Maintaining Convexity. Neural Processing Letters, 2018, 48, 649-667.	2.0	4
1335	Lie group impression for deep learning. Information Processing Letters, 2018, 136, 12-16.	0.4	1
1336	Midâ€level deep Food Part mining for food image recognition. IET Computer Vision, 2018, 12, 298-304.	1.3	17
1337	Ensemble of deep learning, visual and acoustic features for music genre classification. Journal of New Music Research, 2018, 47, 383-397.	0.6	31
1338	Data-Structures for Multisensory Information Processing in an Embodied Machine-Mind. IEEE Transactions on Cognitive and Developmental Systems, 2018, 10, 726-737.	2.6	3
1339	Inductive Logic Programming. Lecture Notes in Computer Science, 2018, , .	1.0	3
1340	Learning-based data analytics: Moving towards transparent power grids. CSEE Journal of Power and Energy Systems, 2018, 4, 67-82.	1.7	34
1341	Softly combining an ensemble of classifiers learned from a single convolutional neural network for scene categorization. Applied Soft Computing Journal, 2018, 67, 183-196.	4.1	9
1342	Marginal Representation Learning With Graph Structure Self-Adaptation. IEEE Transactions on Neural Networks and Learning Systems, 2018, 29, 4645-4659.	7.2	58
1343	Position-aware deep multi-task learning for drugâ€"drug interaction extraction. Artificial Intelligence in Medicine, 2018, 87, 1-8.	3.8	58
1344	A method to detect sleep apnea based on deep neural network and hidden Markov model using single-lead ECG signal. Neurocomputing, 2018, 294, 94-101.	3.5	151
1345	Graph embedding techniques, applications, and performance: A survey. Knowledge-Based Systems, 2018, 151, 78-94.	4.0	1,159
1346	A Comprehensive Survey of Graph Embedding: Problems, Techniques, and Applications. IEEE Transactions on Knowledge and Data Engineering, 2018, 30, 1616-1637.	4.0	1,233
1347	Mass Evidence Accumulation and Traveler Risk Scoring Engine in e-Border Infrastructure. IEEE Transactions on Intelligent Transportation Systems, 2018, 19, 3271-3281.	4.7	5
1348	Dictionary Learning for Bioacoustics Monitoring with Applications to Species Classification. Journal of Signal Processing Systems, 2018, 90, 233-247.	1.4	8
1349	Predicting the Absorption Potential of Chemical Compounds Through a Deep Learning Approach. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2018, 15, 432-440.	1.9	38

#	Article	IF	Citations
1350	Simultaneous Spectral-Spatial Feature Selection and Extraction for Hyperspectral Images. IEEE Transactions on Cybernetics, 2018, 48, 16-28.	6.2	217
1351	A Fuzzy Restricted Boltzmann Machine: Novel Learning Algorithms Based on the Crisp Possibilistic Mean Value of Fuzzy Numbers. IEEE Transactions on Fuzzy Systems, 2018, 26, 117-130.	6.5	64
1352	A Deep Convolutional Coupling Network for Change Detection Based on Heterogeneous Optical and Radar Images. IEEE Transactions on Neural Networks and Learning Systems, 2018, 29, 545-559.	7.2	307
1353	Representation learning with deep extreme learning machines for efficient image set classification. Neural Computing and Applications, 2018, 30, 1211-1223.	3.2	34
1354	Self-Taught Low-Rank Coding for Visual Learning. IEEE Transactions on Neural Networks and Learning Systems, 2018, 29, 645-656.	7.2	31
1355	Robust Multiview Data Analysis Through Collective Low-Rank Subspace. IEEE Transactions on Neural Networks and Learning Systems, 2018, 29, 1986-1997.	7.2	42
1356	Semi-supervised transfer subspace for domain adaptation. Pattern Recognition, 2018, 75, 235-249.	5.1	46
1357	Structure Learning for Deep Neural Networks Based on Multiobjective Optimization. IEEE Transactions on Neural Networks and Learning Systems, 2018, 29, 2450-2463.	7.2	80
1358	Scientific document summarization via citation contextualization and scientific discourse. International Journal on Digital Libraries, 2018, 19, 287-303.	1.1	65
1359	Graph Regularized Restricted Boltzmann Machine. IEEE Transactions on Neural Networks and Learning Systems, 2018, 29, 2651-2659.	7.2	50
1360	Using Deep Learning-Based Approach to Predict Remaining Useful Life of Rotating Components. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2018, 48, 11-20.	5.9	305
1361	Shakeout: A New Approach to Regularized Deep Neural Network Training. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2018, 40, 1245-1258.	9.7	43
1362	Deep learning for healthcare: review, opportunities and challenges. Briefings in Bioinformatics, 2018, 19, 1236-1246.	3.2	1,459
1363	Multimodal Neuroimaging Feature Learning With Multimodal Stacked Deep Polynomial Networks for Diagnosis of Alzheimer's Disease. IEEE Journal of Biomedical and Health Informatics, 2018, 22, 173-183.	3.9	319
1364	Disaster damage detection through synergistic use of deep learning and 3D point cloud features derived from very high resolution oblique aerial images, and multiple-kernel-learning. ISPRS Journal of Photogrammetry and Remote Sensing, 2018, 140, 45-59.	4.9	219
1365	Deep learning of chroma representation for cover song identification in compression domain. Multidimensional Systems and Signal Processing, 2018, 29, 887-902.	1.7	2
1366	Nonlinear dictionary learning with application to image classification. Pattern Recognition, 2018, 75, 282-291.	5.1	44
1367	Learning structured ordinal measures for video based face recognition. Pattern Recognition, 2018, 75, 4-14.	5.1	18

#	Article	IF	Citations
1368	Fuzzy Bag-of-Words Model for Document Representation. IEEE Transactions on Fuzzy Systems, 2018, 26, 794-804.	6.5	154
1369	On building ensembles of stacked denoising auto-encoding classifiers and their further improvement. Information Fusion, 2018, 39, 41-52.	11.7	33
1370	Likelihood-free inference via classification. Statistics and Computing, 2018, 28, 411-425.	0.8	41
1371	Topic driven multimodal similarity learning with multi-view voted convolutional features. Pattern Recognition, 2018, 75, 223-234.	5.1	9
1372	Research of stacked denoising sparse autoencoder. Neural Computing and Applications, 2018, 30, 2083-2100.	3.2	17
1373	Recognition of asphalt pavement crack length using deep convolutional neural networks. Road Materials and Pavement Design, 2018, 19, 1334-1349.	2.0	89
1374	CLAss-Specific Subspace Kernel Representations and Adaptive Margin Slack Minimization for Large Scale Classification. IEEE Transactions on Neural Networks and Learning Systems, 2018, 29, 440-456.	7.2	7
1375	A Generative Model for Sparse Hyperparameter Determination. IEEE Transactions on Big Data, 2018, 4, 2-10.	4.4	21
1376	Seamless Integration and Coordination of Cognitive Skills in Humanoid Robots: A Deep Learning Approach. IEEE Transactions on Cognitive and Developmental Systems, 2018, 10, 345-358.	2.6	9
1377	Data Visualization with Structural Control of Global Cohort and Local Data Neighborhoods. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2018, 40, 1323-1337.	9.7	8
1378	Modeling Task fMRI Data Via Deep Convolutional Autoencoder. IEEE Transactions on Medical Imaging, 2018, 37, 1551-1561.	5.4	135
1379	Facial feature point detection: A comprehensive survey. Neurocomputing, 2018, 275, 50-65.	3.5	124
1380	Weighted kappa loss function for multi-class classification of ordinal data in deep learning. Pattern Recognition Letters, 2018, 105, 144-154.	2.6	64
1381	Content and misrepresentation in hierarchical generative models. Synthàˆse, 2018, 195, 2387-2415.	0.6	61
1382	Train Delay Prediction Systems: A Big Data Analytics Perspective. Big Data Research, 2018, 11, 54-64.	2.6	85
1383	Discriminative Block-Diagonal Representation Learning for Image Recognition. IEEE Transactions on Neural Networks and Learning Systems, 2018, 29, 3111-3125.	7.2	104
1384	Multidimensional Time-Series Shapelets Reliably Detect and Classify Contact Events in Force Measurements of Wiping Actions. IEEE Robotics and Automation Letters, 2018, 3, 320-327.	3.3	8
1385	Automatic separation of compound figures in scientific articles. Multimedia Tools and Applications, 2018, 77, 519-548.	2.6	10

#	Article	IF	Citations
1386	Key Frame Extraction in the Summary Space. IEEE Transactions on Cybernetics, 2018, 48, 1923-1934.	6.2	41
1387	A neural network constructed by deep learning technique and its application to intelligent fault diagnosis of machines. Neurocomputing, 2018, 272, 619-628.	3.5	404
1388	A Regularized Deep Learning Approach for Clinical Risk Prediction of Acute Coronary Syndrome Using Electronic Health Records. IEEE Transactions on Biomedical Engineering, 2018, 65, 956-968.	2.5	60
1389	Implications of deep learning for the automation of design patterns organization. Journal of Parallel and Distributed Computing, 2018, 117, 256-266.	2.7	39
1390	Multi-modal feature fusion for geographic image annotation. Pattern Recognition, 2018, 73, 1-14.	5.1	45
1392	Deep learning framework for recognition of cattle using muzzle point image pattern. Measurement: Journal of the International Measurement Confederation, 2018, 116, 1-17.	2.5	120
1393	Learning representative exemplars using one-class Gaussian process regression. Pattern Recognition, 2018, 74, 185-197.	5.1	6
1394	Multiple kernel representation and classification of multivariate satellite-image time-series for crop mapping. International Journal of Remote Sensing, 2018, 39, 149-168.	1.3	5
1395	Modular representation of layered neural networks. Neural Networks, 2018, 97, 62-73.	3.3	32
1396	Sequence-based context-aware music recommendation. Information Retrieval, 2018, 21, 230-252.	1.6	48
1397	Multiple instance learning: A survey of problem characteristics and applications. Pattern Recognition, 2018, 77, 329-353.	5.1	392
1398	How do deep convolutional features affect tracking performance: an experimental study. Visual Computer, 2018, 34, 1701-1711.	2.5	9
1399	Event Recognition on Images by Fine-Tuning of Deep Neural Networks. Advances in Intelligent Systems and Computing, 2018, , 479-487.	0.5	3
1400	IntensityPatches and RegionPatches for image recognition. Applied Soft Computing Journal, 2018, 62, 176-186.	4.1	4
1401	Weakly-Supervised Deep Embedding for Product Review Sentiment Analysis. IEEE Transactions on Knowledge and Data Engineering, 2018, 30, 185-197.	4.0	123
1402	Single-molecule techniques in biophysics: a review of the progress in methods and applications. Reports on Progress in Physics, 2018, 81, 024601.	8.1	136
1403	A review on neural networks with random weights. Neurocomputing, 2018, 275, 278-287.	3.5	360
1404	Deep Reinforcement Learning: An Overview. Lecture Notes in Networks and Systems, 2018, , 426-440.	0.5	123

#	Article	IF	Citations
1405	Infinite ensemble clustering. Data Mining and Knowledge Discovery, 2018, 32, 385-416.	2.4	28
1406	Electric Locomotive Bearing Fault Diagnosis Using a Novel Convolutional Deep Belief Network. IEEE Transactions on Industrial Electronics, 2018, 65, 2727-2736.	5.2	352
1407	Computational intelligence approaches for classification of medical data: State-of-the-art, future challenges and research directions. Neurocomputing, 2018, 276, 2-22.	3.5	90
1408	Robobarista: Object Part Based Transfer of Manipulation Trajectories from Crowd-Sourcing in 3D Pointclouds. Springer Proceedings in Advanced Robotics, 2018, , 701-720.	0.9	9
1409	Kernelized support vector machine with deep learning: An efficient approach for extreme multiclass dataset. Pattern Recognition Letters, 2018, 115, 4-13.	2.6	60
1410	Scalable and Unsupervised Feature Engineering Using Vibration-Imaging and Deep Learning for Rotor System Diagnosis. IEEE Transactions on Industrial Electronics, 2018, 65, 3539-3549.	5.2	108
1411	Deep ranking structural support vector machine for image tagging. Pattern Recognition Letters, 2018, 105, 30-38.	2.6	14
1412	Codebook-based electrooculography data analysis towards cognitive activity recognition. Computers in Biology and Medicine, 2018, 95, 277-287.	3.9	9
1413	A deep belief network with PLSR for nonlinear system modeling. Neural Networks, 2018, 104, 68-79.	3.3	59
1414	Cattle behaviour classification from collar, halter, and ear tag sensors. Information Processing in Agriculture, 2018, 5, 124-133.	2.9	72
1415	Deep learning analysis of the myocardium in coronary CT angiography for identification of patients with functionally significant coronary artery stenosis. Medical Image Analysis, 2018, 44, 72-85.	7.0	154
1416	Neuromorphic computing's yesterday, today, and tomorrow â€" an evolutional view. The Integration VLSI Journal, 2018, 61, 49-61.	1.3	25
1417	Machine Learning for Precision Psychiatry: Opportunities and Challenges. Biological Psychiatry: Cognitive Neuroscience and Neuroimaging, 2018, 3, 223-230.	1.1	365
1418	Intelligent agents defending for an IoT world: A review. Computers and Security, 2018, 73, 439-458.	4.0	35
1419	Deep Learning in Microscopy Image Analysis: A Survey. IEEE Transactions on Neural Networks and Learning Systems, 2018, 29, 4550-4568.	7.2	261
1420	Statistical physics and representations in real and artificial neural networks. Physica A: Statistical Mechanics and Its Applications, 2018, 504, 45-76.	1.2	15
1422	Application of Feature-Learning Methods Toward Product Usage Context Identification and Comfort Prediction. Journal of Computing and Information Science in Engineering, 2018, 18, .	1.7	12
1423	Primary central nervous system lymphoma and glioblastoma differentiation based on conventional magnetic resonance imaging by high-throughput SIFT features. International Journal of Neuroscience, 2018, 128, 608-618.	0.8	21

#	Article	IF	Citations
1424	Computational intelligence in optical remote sensing image processing. Applied Soft Computing Journal, 2018, 64, 75-93.	4.1	153
1425	Deep multiple multilayer kernel learning in core vector machines. Expert Systems With Applications, 2018, 96, 149-156.	4.4	8
1426	Adaptable deep learning structures for object labeling/tracking under dynamic visual environments. Multimedia Tools and Applications, 2018, 77, 9651-9689.	2.6	16
1427	Deep Convolutional Neural Networks for mental load classification based on EEG data. Pattern Recognition, 2018, 76, 582-595.	5.1	157
1428	Matrix completion by deep matrix factorization. Neural Networks, 2018, 98, 34-41.	3.3	115
1429	Digital image analysis in breast pathologyâ€"from image processing techniques to artificial intelligence. Translational Research, 2018, 194, 19-35.	2.2	203
1430	Method of predicting human mobility patterns using deep learning. Neurocomputing, 2018, 280, 56-64.	3.5	26
1431	Margined winner-take-all: New learning rule for pattern recognition. Neural Networks, 2018, 97, 152-161.	3.3	6
1432	Combining the Kernel Collaboration Representation and Deep Subspace Learning for Facial Expression Recognition. Journal of Circuits, Systems and Computers, 2018, 27, 1850121.	1.0	21
1433	A survey on deep learning for big data. Information Fusion, 2018, 42, 146-157.	11.7	827
1434	Feature weighting for multinomial kernel logistic regression and application to action recognition. Neurocomputing, 2018, 275, 1752-1768.	3.5	15
1435	Neural network with deep learning architectures. Journal of Information and Optimization Sciences, 2018, 39, 31-38.	0.2	21
1436	A Video Coloring Method Based on CNN and Feature Point Tracking. Smart Innovation, Systems and Technologies, 2018, , 312-320.	0.5	0
1437	Supervised kernel approach for automated learning using General Stochastic Networks. Engineering Applications of Artificial Intelligence, 2018, 68, 10-17.	4.3	6
1438	Hierarchical representation learning using spherical k-means for segmentation-free word spotting. Pattern Recognition Letters, 2018, 101, 52-59.	2.6	4
1439	Fast auto-clean CNN model for online prediction of food materials. Journal of Parallel and Distributed Computing, 2018, 117, 218-227.	2.7	32
1440	Machine Health Monitoring Using Local Feature-Based Gated Recurrent Unit Networks. IEEE Transactions on Industrial Electronics, 2018, 65, 1539-1548.	5.2	561
1441	Attention driven multi-modal similarity learning. Information Sciences, 2018, 432, 530-542.	4.0	12

#	Article	IF	Citations
1442	Learning Latent Patterns in Molecular Data for Explainable Drug Side Effects Prediction. , 2018, , .		5
1443	Identification of High Pressure Critical Links in Water Distribution Systems. , 2018, , .		1
1444	Traditional and Deep Learning Based Methods for Mammographic Image Analysis. , 2018, , .		0
1445	A Novel Ensemble Deep Ridgelet Auto-Encoders for Intelligent Fault Diagnosis of Bearing. , 2018, , .		2
1446	Self-Supervised Adversarial Hashing Networks for Cross-Modal Retrieval. , 2018, , .		276
1447	Discriminative Dictionary Learning for Mixture Component Detection with Application to RF Signal Recognition. , 2018, , .		1
1448	Clothing Extremity Identification Using Convolutional Neural Network Regressor. , 2018, , .		1
1449	MEMN:Multiple Vectors Embedding for Multi-Label Networks. IEEE Access, 2018, 6, 66143-66152.	2.6	0
1450	Image and Text Fusion for Character-Based Breast Cancer Classification. , 2018, , .		0
1451	Onboard Observation Task Planning for an Autonomous Earth Observation Satellite Using Long Short-Term Memory. IEEE Access, 2018, 6, 65118-65129.	2.6	23
1452	Smart Learning for Cyber Psychosocial and Physical Computation. , 2018, , .		2
1453	Distributed representations of tuples for entity resolution. Proceedings of the VLDB Endowment, 2018, 11, 1454-1467.	2.1	28
1454	Nonlinear Blind Source Separation Unifying Vanishing Component Analysis and Temporal Structure. IEEE Access, 2018, 6, 42837-42850.	2.6	7
1455	An Investigation Into the Efficacy of Deep Learning Tools for Big Data Analysis in Health Care. International Journal of Grid and High Performance Computing, 2018, 10, 1-13.	0.7	12
1456	Image fusion based on shift invariant shearlet transform and stacked sparse autoencoder. Journal of Algorithms and Computational Technology, 2018, 12, 73-84.	0.4	4
1457	Is Simple Better? Revisiting Non-Linear Matrix Factorization for Learning Incomplete Ratings. , 2018, , .		2
1458	Graph Structured Dictionary for Regression. , 2018, , .		0
1459	Survey of Image Processing Techniques for Brain Pathology Diagnosis: Challenges and Opportunities. Frontiers in Robotics and AI, 2018, 5, 120.	2.0	12

#	Article	IF	Citations
1460	A Multi-Task Deep Learning Architecture for Maritime Surveillance Using AIS Data Streams. , 2018, , .		58
1461	Unsupervised Convolutional Autoencoder-Based Feature Learning for Automatic Detection of Plant Diseases. , 2018, , .		36
1462	Representation Learning for Sensor-based Device Pairing. , 2018, , .		0
1463	PhaseNet for Video Frame Interpolation. , 2018, , .		122
1464	An Accurate and Efficient Device-Free Localization Approach Based on Gaussian Bernoulli Restricted Boltzmann Machine. , 2018, , .		10
1465	Domain Generalization with Adversarial Feature Learning. , 2018, , .		507
1466	Partial Transfer Learning with Selective Adversarial Networks. , 2018, , .		249
1467	HATS: Histograms of Averaged Time Surfaces for Robust Event-Based Object Classification. , 2018, , .		218
1468	Distributed Learning of Deep Sparse Neural Networks for High-dimensional Classification. , 2018, , .		2
1469	Herb Community Detection from TCM Prescription Based on Graph Embedding. , 2018, , .		0
1470	Continuous restricted Boltzmann machines. Wireless Networks, 2018, , 1.	2.0	3
1471	Symbolic Music Genre Transfer with CycleGAN. , 2018, , .		47
1472	Improvement on Speech Depression Recognition Based on Deep Networks. , 2018, , .		10
1473	SURI: Feature Selection Based on Unique Relevant Information for Health Data. , 2018, , .		5
1474	Face Recognition Based on Stacked Convolutional Autoencoder and Sparse Representation. , 2018, , .		6
1475	Towards View-Invariant Intersection Recognition from Videos using Deep Network Ensembles. , 2018, , .		7
1476	Sparse Autoencoders Using Non-smooth Regularization. , 2018, , .		2
1477	Deep learning for predicting toxicity of chemicals: a mini review. Journal of Environmental Science and Health, Part C: Environmental Carcinogenesis and Ecotoxicology Reviews, 2018, 36, 252-271.	2.9	61

#	Article	IF	Citations
1478	Unsupervised Learning of Representations from Solar Energy Data. , 2018, , .		3
1479	THREE-DIMENSIONAL CONVOLUTIONAL NEURAL NETWORK BASED TRAFFIC CLASSIFICATION FOR WIRELESS COMMUNICATIONS. , 2018, , .		18
1480	Layer-Wise Relevance Propagation for Explainable Deep Learning Based Speech Recognition. , 2018, , .		6
1481	Variational Approach for Learning Community Structures. Complexity, 2018, 2018, 1-13.	0.9	5
1482	A Stacked Autoencoder Neural Network based Automated Feature Extraction Method for Anomaly detection in On-line Condition Monitoring. , 2018, , .		18
1483	Patient-Specific Heartbeat Classification Based on I-Vector Adapted Deep Neural Networks. , 2018, , .		15
1484	An End-To-End Siamese Convolutional Neural Network for Loop Closure Detection in Visual Slam System. , 2018, , .		9
1485	A context-free encoding scheme of protein sequences for predicting antigenicity of diverse influenza A viruses. BMC Genomics, 2018, 19, 936.	1.2	9
1486	A Lung Disease Classification Based on Feature Fusion Convolutional Neural Network with X-ray Image Enhancement. , 2018, , .		6
1487	Localized Deep-CNN Structure for Face Recognition. , 2018, , .		3
1488	Hyperspectral Image Classification Based on Long Short Term Memory Network. , 2018, , .		5
1489	Processor Free Time Forecasting Based on Convolutional Neural Network. , 2018, , .		4
1490	Facial Attribute Editing by Latent Space Adversarial Variational Autoencoders. , 2018, , .		3
1491	Multi-scale pulmonary nodule classification with deep feature fusion via residual network. Journal of Ambient Intelligence and Humanized Computing, 2023, 14, 14829-14840.	3.3	5
1492	GONet: A Semi-Supervised Deep Learning Approach For Traversability Estimation. , 2018, , .		42
1493	PalmTouch. , 2018, , .		43
1494	A Fusion of Deep Convolutional Generative Adversarial Networks and Sequence to Sequence Autoencoders for Acoustic Scene Classification. , 2018, , .		7
1495	A 2.5D Cancer Segmentation for MRI Images Based on U-Net. , 2018, , .		10

#	Article	IF	Citations
1496	Joint Node-Edge Network Embedding for Link Prediction. Lecture Notes in Computer Science, 2018, , 20-31.	1.0	15
1497	Learning Embedding Space for Clustering From Deep Representations. , 2018, , .		8
1498	Toward Audio Beehive Monitoring: Deep Learning vs. Standard Machine Learning in Classifying Beehive Audio Samples. Applied Sciences (Switzerland), 2018, 8, 1573.	1.3	56
1499	Deep Learning Approach for Estimating Workability of Self-Compacting Concrete from Mixing Image Sequences. Advances in Materials Science and Engineering, 2018, 2018, 1-16.	1.0	8
1500	LPTK: a linguistic pattern-aware dependency tree kernel approach for the BioCreative VI CHEMPROT task. Database: the Journal of Biological Databases and Curation, 2018, 2018, .	1.4	20
1501	Unsupervised Representation Learning Using Convolutional and Stacked Auto-Encoders: A Domain and Cross-Domain Feature Space Analysis. , 2018, , .		15
1502	Cross-Domain Self-Supervised Multi-task Feature Learning Using Synthetic Imagery. , 2018, , .		92
1503	Deep Belief Networks for Feature Fusion in Hyperspectral Image Classification. , 2018, , .		7
1504	A Texture Generation Approach for Detection of Novel Surface Defects. , 2018, , .		6
1505	Research on Fault Diagnosis of Air Conditioner Based on Deep Learning. International Journal of Robotics and Control, 2018, 2, 18.	0.5	0
1506	A Reweighted Scheme to Improve the Representation of the Neural Autoregressive Distribution Estimator. Computational Intelligence and Neuroscience, 2018, 2018, 1-9.	1.1	0
1507	Spectral Graph Wavelet based Component Clustering for System Reliability Analysis. , 2018, , .		0
1508	Machine learning: the new 'big thing' for competitive advantage. International Journal of Knowledge Engineering and Data Mining, 2018, 5, 277.	0.0	34
1510	Two-Stage Short-Term Wind Speed Prediction Based on LSTM-LSSVM-CFA. , 2018, , .		5
1511	Adipocyte Size Evaluation Based on Photoacoustic Spectral Analysis Combined with Deep Learning Method. Applied Sciences (Switzerland), 2018, 8, 2178.	1.3	6
1512	Progressive Collapse Analysis of SRC Frame-RC Core Tube Hybrid Structure. Applied Sciences (Switzerland), 2018, 8, 2316.	1.3	8
1513	Modeling Sentiment Polarity in Support Ticket Data for Predicting Cloud Service Subscription Renewal. , 2018, , .		1
1514	Autonomous Robots and Behavior Initiators. , 2018, , .		1

#	Article	IF	Citations
1515	A Method Based on RF Spectral Featuresfor Evaluating the Porosity Degree in Ceramic Materials. , 2018, , .		1
1516	Improving Region Based CNN Object Detector Using Bayesian Optimization. , 2018, , .		3
1517	Is it possible to describe television series from online comments?. Journal of Internet Services and Applications, 2018, 9, .	1.6	3
1518	BiasedWalk: Biased Sampling for Representation Learning on Graphs. , 2018, , .		9
1519	Standard SQL Approaches for Similarity Searching. , 2018, , .		0
1520	Incorporating Scalability in Unsupervised Spatio- Temporal Feature Learning. , 2018, , .		1
1521	Lifting Scheme Based Deep Network Model for Remote Sensing Imagery Classification. , 2018, , .		0
1522	Distributed Assimilation of Grid Conditions and Load Integration via Social Learning. , 2018, , .		0
1523	A3embed. , 2018, , .		2
1524	Towards CNN Map Representation and Compression for Camera Relocalisation. , 2018, , .		8
1525	Feature Extraction Using a Mutually-Competitive Autoencoder for Protein Function Prediction. , 2018, , .		0
1526	Analyzing the Noise Robustness of Deep Neural Networks. , 2018, , .		36
1527	Image-Based Process Monitoring Using Deep Belief Networks. IFAC-PapersOnLine, 2018, 51, 115-120.	0.5	4
1528	A Systematic Approach to Dynamic Monitoring of Industrial Processes Based on Second-Order Slow Feature Analysis. IFAC-PapersOnLine, 2018, 51, 387-392.	0.5	5
1529	Real-time Detection of Steel Strip Surface Defects Based on Improved YOLO Detection Network. IFAC-PapersOnLine, 2018, 51, 76-81.	0.5	215
1530	Unintrusive Monitoring of Induction Motors Bearings via Deep Learning on Stator Currents. Procedia Computer Science, 2018, 144, 42-51.	1.2	12
1531	Direct Error Driven Learning for Deep Neural Networks with Applications to Bigdata. Procedia Computer Science, 2018, 144, 89-95.	1.2	5
1532	Evolution of Abstraction Across Layers in Deep Learning Neural Networks. Procedia Computer Science, 2018, 144, 203-213.	1.2	12

#	ARTICLE	IF	CITATIONS
1533	High Density Silicon Substrates for Processor-Memory Integration. , 2018, , .		0
1534	Fire Detection in Infrared Video Surveillance Based on Convolutional Neural Network and SVM. , 2018, , .		17
1535	Disentangling Factors of Variation by Mixing Them. , 2018, , .		4
1536	Deep Convolutional Neural Networks with Transfer Learning for Neonatal Pain Expression Recognition. , 2018, , .		4
1537	Interactive Segmentation of Glioblastoma for Post-surgical Treatment Follow-up. , 2018, , .		2
1538	A Deep Reinforcement Learning Framework for Identifying Funny Scenes in Movies. , 2018, , .		10
1539	A New Model for the Two-Dimensional Acoustic Cloak. , 2018, , .		0
1540	Feature Learning and Classification in Neuroimaging: Predicting Cognitive Impairment from Magnetic Resonance Imaging. , 2018, , .		0
1541	Autoencoding Density-Based Anomaly Detection for Signal Integrity Applications. , 2018, , .		2
1542	Phoneme Based Embedded Segmental K-Means for Unsupervised Term Discovery. , 2018, , .		5
1543	Generative Model with Kernel Density Estimation. , 2018, , .		0
1544	Topological and Algebraic Properties of Chernoff Information between Gaussian Graphs. , 2018, , .		1
1545	Prediction of Human Whole-Body Movements with AE- ProMPs. , 2018, , .		4
1546	TextANN: An Improved Text Classification Model Based on Data Augmentation. , 2018, , .		1
1547	Functorial Signal Representation: Foundations and Redundancy. , 2018, , .		0
1548	Latent Semantic Analysis Boosted Convolutional Neural Networks for Document Classification. , 2018, , .		2
1549	Cyberbullying Detection using Recursive Neural Network through Offline Repository. , 2018, , .		5
1550	Speaker Verification based on Deep Neural Network for Text-Constrained Short Commands. , 2018, , .		0

#	Article	IF	Citations
1551	Identifying Tree-Related Microhabitats in TLS Point Clouds Using Machine Learning. Remote Sensing, 2018, 10, 1735.	1.8	23
1552	Deep Unsupervised Representation Learning for Abnormal Heart Sound Classification. , 2018, 2018, 4776-4779.		21
1553	Stacked Autoencoders for Multiclass Change Detection in Hyperspectral Images. , 2018, , .		19
1554	Deep Barcodes for Fast Retrieval of Histopathology Scans. , 2018, , .		13
1555	AutoModeling: Integrated Approach for Automated Model Generation by Ensemble Selection of Feature Subset and Classifier. , 2018, , .		5
1556	AI in Actuarial Science. SSRN Electronic Journal, 0, , .	0.4	17
1557	Analysis of LSTM-RNN Based on Attack Type of KDD-99 Dataset. Lecture Notes in Computer Science, 2018, , 326-333.	1.0	6
1558	A Large-Scale Data-Oriented Intelligent System for Urban Growth Simulation. , 2018, , 143-154.		1
1559	Capturing Edge Attributes via Network Embedding. IEEE Transactions on Computational Social Systems, 2018, 5, 907-917.	3.2	22
1560	Novel neural network application for bacterial colony classification. Theoretical Biology and Medical Modelling, 2018, 15, 22.	2.1	31
1561	Synthesizing and Reconstructing Missing Sensory Modalities in Behavioral Context Recognition. Sensors, 2018, 18, 2967.	2.1	15
1562	A Neural Network Extension of the Lee-Carter Model to Multiple Populations. SSRN Electronic Journal, 0, , .	0.4	8
1563	No free lunch in ball catching: A comparison of Cartesian and angular representations for control. PLoS ONE, 2018, 13, e0197803.	1.1	3
1564	Deep Representation Learning for Trajectory Similarity Computation. , 2018, , .		108
1565	Artificial intelligence in gastrointestinal endoscopy: The future is almost here. World Journal of Gastrointestinal Endoscopy, 2018, 10, 239-249.	0.4	122
1566	Pattern Strengthened Deep Model for Sar Image Classification. , 2018, , .		0
1567	$M^3ext{Fusion}$: A Deep Learning Architecture for Multiscale Multimodal Multitemporal Satellite Data Fusion. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2018, 11, 4939-4949.	2.3	67
1568	Accelerate deep Q-network learning by n-step backup. , 2018, , .		1

#	Article	IF	Citations
1569	Real-Time Misfire Detection of Large Gas Engine Using Big Data Analytics. , 2018, , .		0
1570	Enhanced Bag of Features Using AlexNet and Improved Biogeography-Based Optimization for Histopathological Image Analysis. , 2018, , .		23
1571	Learning Urban Community Structures. ACM Transactions on Intelligent Systems and Technology, 2018, 9, 1-28.	2.9	46
1572	Information-Based Boundary Equilibrium Generative Adversarial Networks with Interpretable Representation Learning. Computational Intelligence and Neuroscience, 2018, 2018, 1-14.	1.1	6
1573	3D Spatial Pyramid Dilated Network for Pulmonary Nodule Classification. Symmetry, 2018, 10, 376.	1.1	4
1574	Deep Stochastic Configuration Networks with Universal Approximation Property. , 2018, , .		38
1575	Deep Learning Models Based on Distributed Feature Representations for Alternative Splicing Prediction. IEEE Access, 2018, 6, 58826-58834.	2.6	33
1576	Functional mechanisms underlie the emergence of a diverse range of plasticity phenomena. PLoS Computational Biology, 2018, 14, e1006590.	1.5	5
1577	NOISE-ADAPTIVE DEEP NEURAL NETWORK FOR SINGLE-CHANNEL SPEECH ENHANCEMENT. , 2018, , .		6
1578	Design of Internet of Things Business Model with Deep Learning Artificial Intelligence. International Journal of Grid and Distributed Computing, 2018, 11, 11-22.	0.8	5
1579	A Word-Embedding-Based Steganalysis Method for Linguistic Steganography via Synonym Substitution. IEEE Access, 2018, 6, 64131-64141.	2.6	19
1580	Learning to Rank with Deep Autoencoder Features. , 2018, , .		9
1581	A Novel Time Series Prediction Model Based on Deep Sparse Autoencoder. , 2018, , .		4
1582	Prediction for High Risk Clinical Symptoms of Epilepsy Based on Deep Learning Algorithm. IEEE Access, 2018, 6, 77596-77605.	2.6	37
1583	A Very Deep One Dimensional Convolutional Neural Network (VDOCNN) for Appliance Power Signature Classification. , 2018, , .		12
1584	Taskonomy: Disentangling Task Transfer Learning. , 2018, , .		446
1585	Deep Learning with Long Short-Term Memory Recurrent Neural Network for Daily Container Volumes of Storage Yard Predictions in Port. , 2018, , .		5
1586	Classification methods of a small sample target object in the sky based on the higher layer visualizing feature and transfer learning deep networks. Eurasip Journal on Wireless Communications and Networking, 2018, 2018, .	1.5	5

#	Article	IF	Citations
1587	Machine Learning Based Link Adaptation Method for MIMO System. , 2018, , .		14
1588	Convolutional neural network based on SMILES representation of compounds for detecting chemical motif. BMC Bioinformatics, 2018, 19, 526.	1.2	114
1589	Framework for artificial intelligence analysis in large-scale power grids based on digital simulation. CSEE Journal of Power and Energy Systems, 2018, 4, 459-468.	1.7	43
1590	Model-Reuse Attacks on Deep Learning Systems. , 2018, , .		84
1591	An Investigation of Machine Learning Approaches in the Solvency II Valuation Framework. SSRN Electronic Journal, 0, , .	0.4	7
1592	Analysis of Images, Social Networks and Texts. Lecture Notes in Computer Science, 2018, , .	1.0	0
1593	Detach and Adapt: Learning Cross-Domain Disentangled Deep Representation. , 2018, , .		53
1594	Feature Learning in Feature-Sample Networks Using Multi-Objective Optimization. , 2018, , .		0
1595	Exploring Disentangled Feature Representation Beyond Face Identification. , 2018, , .		97
1596	A Low Power, High Throughput, Fully Event-Based Stereo System. , 2018, , .		37
1597	Radar HRRP Group-Target Recognition Based on Combined Methods in the Backgroud of Sea Clutter. , 2018, , .		5
1598	Transfer Learning with Convolutional Neural Networks for SAR Ship Recognition. IOP Conference Series: Materials Science and Engineering, 2018, 322, 072001.	0.3	18
1599	Learning Sampling Distributions for Robot Motion Planning. , 2018, , .		168
1600	Pseudoinverse Learning Algorithom for Fast Sparse Autoencoder Training. , 2018, , .		6
1601	Evaluation Measures for Frequent Itemsets Based on Distributed Representations. , 2018, , .		1
1602	Essence Vector-Based Query Modeling for Spoken Document Retrieval. , 2018, , .		1
1603	Predicting protein-protein interactions using high-quality non-interacting pairs. BMC Bioinformatics, 2018, 19, 525.	1.2	20
1604	Evolutionary Hierarchical Sparse Extreme Learning Autoencoder Network for Object Recognition. Symmetry, 2018, 10, 474.	1.1	6

#	Article	IF	Citations
1605	A New Method for Classification of Images Using Convolutional Neural Network Based on Dwt-Svd Perceptual Hash Function. , 2018, , .		4
1606	Neural Network Evolving Algorithm Based on the Triplet Codon Encoding Method. Genes, 2018, 9, 626.	1.0	2
1607	Resolution and relevance trade-offs in deep learning. Journal of Statistical Mechanics: Theory and Experiment, 2018, 2018, 123406.	0.9	21
1608	A New Discriminative Collaborative Neighbor Representation Method for Robust Face Recognition. IEEE Access, 2018, 6, 74713-74727.	2.6	22
1609	SBLC: a hybrid model for disease named entity recognition based on semantic bidirectional LSTMs and conditional random fields. BMC Medical Informatics and Decision Making, 2018, 18, 114.	1.5	16
1610	Intelligent Autonomy for Aerospace Engineering Systems. , 2018, , .		2
1611	Information cartography based on syncretic representation of scientific papers. , 2018, , .		0
1612	Underwater Target Classification Using Deep Neural Network. , 2018, , .		3
1613	Deep-learning-based inverse design model for intelligent discovery of organic molecules. Npj Computational Materials, 2018, 4, .	3.5	91
1614	Improving Target Discriminability for Unsupervised Domain Adaptation. Lecture Notes in Computer Science, 2018, , 287-298.	1.0	1
1615	Analysis of Encoder Representations as Features Using Sparse Autoencoders in Gradient Boosting and Ensemble Tree Models. Lecture Notes in Computer Science, 2018, , 159-169.	1.0	0
1616	A Motor-Imagery BCI System Based on Deep Learning Networks and Its Applications. , 2018, , .		4
1617	Online Feature Learning from a non-i.i.d. Stream in a Neuromorphic System with Synaptic Competition. , 2018, , .		0
1618	Towards Learning Nuisance-Free Representations of Speech. , 2018, , .		0
1619	Hybrid Networks: Improving Deep Learning Networks via Integrating Two Views of Images. Lecture Notes in Computer Science, 2018, , 46-58.	1.0	3
1620	Extending Embedding Representation by Incorporating Latent Relations. IEEE Access, 2018, 6, 52682-52690.	2.6	2
1621	Learning, Storing, and Disentangling Correlated Patterns in Neural Networks. Lecture Notes in Computer Science, 2018, , 506-514.	1.0	0
1622	Face Feature Dynamic Recognition Method Based on Intelligent Image. , 2018, , .		0

#	Article	IF	Citations
1623	Learning Representations of Ultrahigh-dimensional Data for Random Distance-based Outlier Detection. , 2018, , .		117
1624	A Two-Branch CNN Architecture for Land Cover Classification of PAN and MS Imagery. Remote Sensing, 2018, 10, 1746.	1.8	51
1625	Wavelet Autoencoder for Radar HRRP Target Recognition with Recurrent Neural Network. Lecture Notes in Computer Science, 2018, , 262-275.	1.0	1
1626	Explainable and Interpretable Models in Computer Vision and Machine Learning. The Springer Series on Challenges in Machine Learning, 2018, , .	10.4	50
1627	Psychology Meets Machine Learning: Interdisciplinary Perspectives on Algorithmic Job Candidate Screening. The Springer Series on Challenges in Machine Learning, 2018, , 197-253.	10.4	37
1628	Deformation Stability of Deep Convolutional Neural Networks on Sobolev Spaces. , 2018, , .		0
1629	TBCNN for Programs' Abstract Syntax Trees. SpringerBriefs in Computer Science, 2018, , 41-57.	0.2	0
1630	Prediction of Anti-Malarial Activity Based on Deep Belief Network. International Journal of Computational Intelligence and Applications, 2018, 17, 1850012.	0.6	0
1631	A Distributed Semi-Supervised Platform for DNase-Seq Data Analytics using Deep Generative Convolutional Networks. , 2018, , .		2
1632	Deep Learning Based Lithology Classification Using Dual-Frequency Pol-SAR Data. Applied Sciences (Switzerland), 2018, 8, 1513.	1.3	16
1633	Principles of Neuromorphic Photonics. , 2018, , 83-118.		11
1634	Deep Learning for fault detection in wind turbines. Renewable and Sustainable Energy Reviews, 2018, 98, 189-198.	8.2	156
1635	Application of artificial intelligence in ophthalmology. International Journal of Ophthalmology, 2018, 11, 1555-1561.	0.5	52
1636	Relation Extraction Based on Deep Learning. , 2018, , .		6
1637	A Review of the Autoencoder and Its Variants: A Comparative Perspective from Target Recognition in Synthetic-Aperture Radar Images. IEEE Geoscience and Remote Sensing Magazine, 2018, 6, 44-68.	4.9	124
1638	New Frontiers in Spectral-Spatial Hyperspectral Image Classification: The Latest Advances Based on Mathematical Morphology, Markov Random Fields, Segmentation, Sparse Representation, and Deep Learning. IEEE Geoscience and Remote Sensing Magazine, 2018, 6, 10-43.	4.9	255
1639	Human Motion Recognition by Textile Sensors Based on Machine Learning Algorithms. Sensors, 2018, 18, 3109.	2.1	38
1640	Feature Extraction By Using Deep Learning: A Survey. , 2018, , .		81

#	ARTICLE	IF	CITATIONS
1641	Text Sentiment Polarity Classification Method Based on Word Embedding. , 2018, , .		2
1642	Applying Artificial Intelligence to Identify Physiomarkers Predicting Severe Sepsis in the PICU*. Pediatric Critical Care Medicine, 2018, 19, e495-e503.	0.2	89
1643	Concussion classification via deep learning using whole-brain white matter fiber strains. PLoS ONE, 2018, 13, e0197992.	1.1	30
1644	Pedestrian Attributes Recognition in Surveillance Scenarios with Hierarchical Multi-task CNN Models. Lecture Notes in Computer Science, 2018, , 758-767.	1.0	1
1645	Importance of Feature Selection in Machine Learning and Adaptive Design for Materials. Springer Series in Materials Science, 2018, , 59-79.	0.4	21
1646	Neuroimaging-based diagnosis of Parkinson's disease with deep neural mapping large margin distribution machine. Neurocomputing, 2018, 320, 141-149.	3.5	28
1647	Ensemble Clustering via Learning Representations from Auto-Encoder. , 2018, , .		0
1648	Ownership Identification and Signaling of Multimedia Content Components. , 2018, , .		1
1649	Artificial Intelligence for Development: AI4D. SSRN Electronic Journal, 2018, , .	0.4	4
1650	A novel supervised sparse feature extraction method and its application on rotating machine fault diagnosis. Neurocomputing, 2018, 320, 129-140.	3.5	31
1651	Detection of phishing websites using a novel twofold ensemble model. Journal of Systems and Information Technology, 2018, 20, 321-357.	0.8	12
1652	XGBOD: Improving Supervised Outlier Detection with Unsupervised Representation Learning. , 2018, , .		59
1653	Computing low-dimensional representations of speech from socio-auditory structures for phonetic analyses. Journal of Phonetics, 2018, 71, 355-375.	0.6	5
1654	More Realistic and Efficient Face-Based Mobile Authentication using CNNs. , 2018, , .		0
1655	Multimodal Deep Learning using Images and Text for Information Graphic Classification. , 2018, , .		18
1656	Deep Autoencoder-like Nonnegative Matrix Factorization for Community Detection. , 2018, , .		130
1657	AVEC 2018 Workshop and Challenge. , 2018, , .		95
1658	A survey on big data analytics with deep learning in text using machine learning mechanisms. International Journal of Engineering and Technology(UAE), 2018, 7, 335.	0.2	0

#	Article	IF	Citations
1659	From Machine Learning to Explainable AI. , 2018, , .		149
1660	Traffic Accidents Classification and Injury Severity Prediction. , 2018, , .		19
1661	Unsupervised Neural Categorization for Scientific Publications. , 2018, , 37-45.		11
1663	Incremental Deep Learning for Robust Object Detection in Unknown Cluttered Environments. IEEE Access, 2018, 6, 61748-61760.	2.6	17
1664	Answering with Cases: A CBR Approach to Deep Learning. Lecture Notes in Computer Science, 2018, , 15-27.	1.0	11
1665	Machine learning methods for crop yield prediction and climate change impact assessment in agriculture. Environmental Research Letters, 2018, 13, 114003.	2.2	230
1666	Face Recognition Based on Deep Aggregated Sparse Autoencoder Network. , 2018, , .		1
1667	Knowledge Graph Embedding via Relation Paths and Dynamic Mapping Matrix. Lecture Notes in Computer Science, 2018, , 106-118.	1.0	14
1668	Computational Analysis of Learned Representations in Deep Neural Network Classifiers. , 2018, , .		1
1669	Evolutionary Computation based Feature Selection: A Survey. , 2018, , .		3
1670	MRI Compatibility: Automatic Brain Shunt Valve Recognition using Feature Engineering and Deep Convolutional Neural Networks. Scientific Reports, 2018, 8, 16052.	1.6	9
1671	Bag-of-Deep-Features: Noise-Robust Deep Feature Representations for Audio Analysis. , 2018, , .		19
1672	Parallel Deep Neural Network for Detecting Computer Attacks in Information Telecommunication Systems. , 2018, , .		4
1673	Large-Scale and Language-Oblivious Code Authorship Identification. , 2018, , .		55
1674	AC Transmission Signal Neural Circuit and the Design of Deep Learning Model. , 2018, , .		0
1675	Fast Object Detection for Quadcopter Drone Using Deep Learning. , 2018, , .		38
1676	Learning deep representations for semantic image parsing: a comprehensive overview. Frontiers of Computer Science, 2018, 12, 840-857.	1.6	9
1677	Deep Recurrent Neural Network for Agricultural Classification using multitemporal SAR Sentinel-1 for Camargue, France. Remote Sensing, 2018, 10, 1217.	1.8	182

#	Article	IF	Citations
1678	Arrhythmia detection using deep convolutional neural network with long duration ECG signals. Computers in Biology and Medicine, 2018, 102, 411-420.	3.9	555
1679	Scene Hierarchy: A Missing Piece in Scene Classification. , 2018, , .		0
1680	Gaussian Processes for Learning and Control: A Tutorial with Examples. IEEE Control Systems, 2018, 38, 53-86.	1.0	63
1681	Supervised Deep Sparse Coding Networks. , 2018, , .		8
1682	An Extensive Survey on Some Deep Learning Applications. SSRN Electronic Journal, 0, , .	0.4	1
1683	A gas path fault diagnostic model for gas turbine based on deep belief network with prior information. , 2018, , .		1
1684	Grid-Based Crime Prediction Using Geographical Features. ISPRS International Journal of Geo-Information, 2018, 7, 298.	1.4	57
1685	Cross-covariance regularized autoencoders for nonredundant sparse feature representation. Neurocomputing, 2018, 316, 49-58.	3.5	13
1686	Deep Learning on 1-D Biosignals: a Taxonomy-based Survey. Yearbook of Medical Informatics, 2018, 27, 098-109.	0.8	56
1687	Shift Invariance and Deformation Error Properties of Deep Convolutional Neural Networks Based on Wavelets. , 2018, , .		0
1688	Detection of Paroxysmal Atrial Fibrillation using Attention-based Bidirectional Recurrent Neural Networks. , 2018, , .		53
1689	A Transdisciplinary Review of Deep Learning Research and Its Relevance for Water Resources Scientists. Water Resources Research, 2018, 54, 8558-8593.	1.7	560
1690	Learning Data Manifolds with a Cutting Plane Method. Neural Computation, 2018, 30, 2593-2615.	1.3	7
1691	Mobile Big Data. Wireless Networks, 2018, , .	0.3	5
1692	The Validation of Gesture-Based Datasets for Arabic Sign Language. , 2018, , .		0
1693	A Review of Artificial Intelligence Algorithms Used for Smart Machine Tools. Inventions, 2018, 3, 41.	1.3	44
1694	Deep and shallow features fusion based on deep convolutional neural network for speech emotion recognition. International Journal of Speech Technology, 2018, 21, 931-940.	1.4	39
1695	A social practice oriented signs detection for human-humanoid interaction. Biologically Inspired Cognitive Architectures, 2018, 25, 8-16.	0.9	1

#	Article	IF	Citations
1696	PADDLE: Performance Analysis Using a Data-Driven Learning Environment. , 2018, , .		8
1697	Discovering software vulnerabilities using data-flow analysis and machine learning. , 2018, , .		25
1698	The Effect of Embedding Dimension Reduction on Increasing LSTM Performance for Sentiment Analysis. , 2018, , .		2
1699	Welcome Message from the Program Chair. , 2018, , .		0
1700	In Depth Survey on SMS4 Architecture. , 2018, , .		10
1701	ACSSC 2018 Session TA5a. , 2018, , .		0
1702	Convolutional Neural Network Method for Determining the Optimum Number of Transport Data Loggers. , 2018, , .		0
1703	Signal Restoration Based on Temporal Structure and Multi-Layer Architecture. , 2018, , .		1
1705	Blockchain Technology: A Novel Approach in Information Security Research. , 2018, , .		0
1706	Recognition of Fatigue Status of Pilots Based on Deep Contractive Sparse Auto-Encoding Network. , 2018, , .		1
1707	Reconstruction of Skeletal Muscle Architecture from DT-MRI Sequences. , 2018, , .		0
1708	Section I: Congress & Expo. , 2018, , .		0
1709	Research on the Geographical Distribution Model of Languages Trend. , 2018, , .		0
1710	Weighted PCA-EFMNet: A deep learning network for Face Verification in the Wild. , 2018, , .		6
1711	A survey on automatic image caption generation. Neurocomputing, 2018, 311, 291-304.	3.5	138
1713	Deep Learning Role in Early Diagnosis of Prostate Cancer. Technology in Cancer Research and Treatment, 2018, 17, 153303461877553.	0.8	69
1714	Enhancement of Classification of Small Data Sets Using Self-awareness â€" An Iris Flower Case-Study. , 2018, , .		14
1715	Generalized Recurrent Neural Network accommodating Dynamic Causal Modeling for functional MRI analysis. NeuroImage, 2018, 178, 385-402.	2.1	15

#	Article	IF	Citations
1716	Deep Super Learner: A Deep Ensemble for Classification Problems. Lecture Notes in Computer Science, 2018, , 84-95.	1.0	27
1717	Deep learning for image-based cancer detection and diagnosisâ€â'â€A survey. Pattern Recognition, 2018, 83, 134-149.	5.1	353
1718	Determining the optimal temperature parameter for Softmax function in reinforcement learning. Applied Soft Computing Journal, 2018, 70, 80-85.	4.1	31
1719	Deep learning for remote sensing image classification: A survey. Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery, 2018, 8, e1264.	4.6	222
1720	Text Categorization Improvement via User Interaction. Lecture Notes in Computer Science, 2018, , 265-275.	1.0	0
1721	Automated depression analysis using convolutional neural networks from speech. Journal of Biomedical Informatics, 2018, 83, 103-111.	2.5	139
1722	Feature extraction and physical interpretation of melt pressure during injection molding process. Journal of Materials Processing Technology, 2018, 261, 50-60.	3.1	25
1723	Chemometrics and hyperspectral imaging applied to assessment of chemical, textural and structural characteristics of meat. Meat Science, 2018, 144, 100-109.	2.7	53
1724	Synthetic to Real Adaptation with Generative Correlation Alignment Networks. , 2018, , .		50
1725	Convolution-based classification of audio and symbolic representations of music. Journal of New Music Research, 2018, 47, 191-205.	0.6	7
1726	A Vehicle Recognition Method Based on Adaptive Segmentation. Lecture Notes in Computer Science, 2018, , 125-136.	1.0	1
1727	WordNet-Based Text Categorization Using Convolutional Neural Networks. Lecture Notes in Networks and Systems, 2018, , 243-251.	0.5	3
1728	Surprise-based learning of state representations. Biologically Inspired Cognitive Architectures, 2018, 24, 1-20.	0.9	0
1729	Open-circuit fault diagnosis of power rectifier using sparse autoencoder based deep neural network. Neurocomputing, 2018, 311, 1-10.	3.5	66
1730	Intelligent fault diagnosis of rolling bearing using one-dimensional multi-scale deep convolutional neural network based health state classification. , 2018, , .		40
1731	A Deep Neural Network With Spatial Pooling (DNNSP) for 3-D Point Cloud Classification. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 4594-4604.	2.7	42
1732	Survey on encoding schemes for genomic data representation and feature learningâ€"from signal processing to machine learning. Big Data Mining and Analytics, 2018, 1, 191-210.	7.5	52
1733	High-throughput adaptive sampling for whole-slide histopathology image analysis (HASHI) via convolutional neural networks: Application to invasive breast cancer detection. PLoS ONE, 2018, 13, e0196828.	1.1	100

#	ARTICLE	IF	CITATIONS
1734	A deep-learning classifier identifies patients with clinical heart failure using whole-slide images of H&E tissue. PLoS ONE, 2018, 13, e0192726.	1.1	93
1735	Convolutional neural networks for classification of alignments of non-coding RNA sequences. Bioinformatics, 2018, 34, i237-i244.	1.8	59
1736	An Enhancement Deep Feature Extraction Method for Bearing Fault Diagnosis Based on Kernel Function and Autoencoder. Shock and Vibration, 2018, 2018, 1-12.	0.3	7
1737	Tile-Based Semisupervised Classification of Large-Scale VHR Remote Sensing Images. Journal of Sensors, 2018, 2018, 1-14.	0.6	15
1738	Lightweight Tag-Aware Personalized Recommendation on the Social Web Using Ontological Similarity. IEEE Access, 2018, 6, 35590-35610.	2.6	9
1739	Ubiquitous Artificial Intelligence and Dynamic Data Streams. , 2018, , .		0
1740	Opportunities and challenges for quantum-assisted machine learning in near-term quantum computers. Quantum Science and Technology, 2018, 3, 030502.	2.6	121
1741	An Algorithm Based on Deep Learning for Predicting In‐Hospital Cardiac Arrest. Journal of the American Heart Association, 2018, 7, .	1.6	188
1742	Prediction task guided representation learning of medical codes in EHR. Journal of Biomedical Informatics, 2018, 84, 1-10.	2.5	12
1743	Autonomous learning of POMDP state representations from surprises. , 2018, , .		1
1744	Machine Learning Methods in Computational Toxicology. Methods in Molecular Biology, 2018, 1800, 119-139.	0.4	41
1745	Data science vs. statistics: two cultures?. Japanese Journal of Statistics and Data Science, 2018, 1, 117-138.	0.7	25
1746	Dictionary Learning With Low Computational Complexity for Classification of Human Micro-Dopplers Across Multiple Carrier Frequencies. IEEE Access, 2018, 6, 29793-29805.	2.6	15
1747	Hybrid shallow and deep learned feature mixture model for arrhythmia classification. , 2018, , .		2
1748	Medical concept normalization in social media posts with recurrent neural networks. Journal of Biomedical Informatics, 2018, 84, 93-102.	2.5	65
1749	A meta-learning framework using representation learning to predict drug-drug interaction. Journal of Biomedical Informatics, 2018, 84, 136-147.	2.5	32
1750	Removal of Salt and Pepper Noise in Corrupted Image Based on Multilevel Weighted Graphs and IGOWA Operator. Mathematical Problems in Engineering, 2018, 2018, 1-11.	0.6	8
1751	Spectral Eigen Index: Military vehicle fingerprinting using Eigen analysis in spectral domain. Pattern Recognition Letters, 2018, 112, 98-103.	2.6	2

#	Article	IF	Citations
1752	Spatial Sequential Recurrent Neural Network for Hyperspectral Image Classification. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2018, 11, 4141-4155.	2.3	99
1753	Personalizing a Generic ECG Heartbeat Classification for Arrhythmia Detection: A Deep Learning Approach. , 2018, , .		7
1754	Augmented Self-paced Learning with Generative Adversarial Networks. Lecture Notes in Computer Science, 2018, , 450-456.	1.0	1
1755	DL-GSA: A Deep Learning Metaheuristic Approach to Missing Data Imputation. Lecture Notes in Computer Science, 2018, , 513-521.	1.0	2
1756	Coupled Linear and Deep Nonlinear Method for Meetup Service Recommendation. Lecture Notes in Computer Science, 2018, , 246-260.	1.0	2
1757	Deep Learning for Computer Vision: A Brief Review. Computational Intelligence and Neuroscience, 2018, 2018, 1-13.	1.1	1,747
1758	Evolutionary Design of Problem-Adapted Image Descriptors for Texture Classification. IEEE Access, 2018, 6, 40450-40462.	2.6	5
1759	Adaptive Learning Algorithm Convergence in Passive and Reactive Environments. Neural Computation, 2018, 30, 2805-2832.	1.3	3
1760	A Deep Learning Approach for Predicting Antidepressant Response in Major Depression Using Clinical and Genetic Biomarkers. Frontiers in Psychiatry, 2018, 9, 290.	1.3	122
1761	Unsupervised Learning for Concept Detection in Medical Images: A Comparative Analysis. Applied Sciences (Switzerland), 2018, 8, 1213.	1.3	7
1762	Voiceprint Identification for Limited Dataset Using the Deep Migration Hybrid Model Based on Transfer Learning. Sensors, 2018, 18, 2399.	2.1	32
1763	Representation learning based adaptive multimode process monitoring. Chemometrics and Intelligent Laboratory Systems, 2018, 181, 95-104.	1.8	11
1764	Perceive Your Users in Depth. , 2018, , .		66
1765	Deep Learning to Forecast Solar Irradiance Using a Six-Month UTSA SkyImager Dataset. Energies, 2018, 11, 1988.	1.6	38
1766	Born to learn: The inspiration, progress, and future of evolved plastic artificial neural networks. Neural Networks, 2018, 108, 48-67.	3.3	73
1767	A Survey on Machine Learning-Based Mobile Big Data Analysis: Challenges and Applications. Wireless Communications and Mobile Computing, 2018, 2018, 1-19.	0.8	33
1768	Identification of Invariant Sensorimotor Structures as a Prerequisite for the Discovery of Objects. Frontiers in Robotics and AI, 2018, 5, 70.	2.0	6
1770	Quantifying Humansâ€™ Priors Over Graphical Representations of Tasks. Springer Proceedings in Complexity, 2018, , 281-290.	0.2	1

#	Article	IF	Citations
1771	Detection of Obstructive Sleep Apnea Using Deep Neural Network. , 2018, , 97-120.		2
1772	Learning from History and Present. , 2018, , .		138
1773	Multi-task Representation Learning for Travel Time Estimation. , 2018, , .		165
1774	DeepInf. , 2018, , .		308
1775	End-to-End Deep Neural Networks and Transfer Learning for Automatic Analysis of Nation-State Malware. Entropy, 2018, 20, 390.	1.1	10
1776	Multi-Scale Distributed Representation for Deep Learning and its Application to b-Jet Tagging. Journal of the Korean Physical Society, 2018, 72, 1292-1300.	0.3	0
1777	Classification of Tumor Epithelium and Stroma by Exploiting Image Features Learned by Deep Convolutional Neural Networks. Annals of Biomedical Engineering, 2018, 46, 1988-1999.	1.3	58
1778	Accelerating Infinite Ensemble of Clustering by Pivot Features. Cognitive Computation, 2018, 10, 1042-1050.	3.6	9
1779	Bitcoin technical trading with artificial neural network. Physica A: Statistical Mechanics and Its Applications, 2018, 510, 587-609.	1.2	110
1780	Learning and Transferring IDs Representation in E-commerce. , 2018, , .		11
1781	How does normalization impact RNA-seq disease diagnosis?. Journal of Biomedical Informatics, 2018, 85, 80-92.	2.5	20
1782	Cross-language Citation Recommendation via Hierarchical Representation Learning on Heterogeneous Graph. , 2018, , .		37
1783	Next-Step Suggestions for Modern Interactive Data Analysis Platforms. , 2018, , .		35
1784	Deep Feature Representation with Stacked Sparse Auto-Encoder and Convolutional Neural Network for Hyperspectral Imaging-Based Detection of Cucumber Defects. Transactions of the ASABE, 2018, 61, 425-436.	1.1	33
1785	Experimental Study of Characterizing Frequent Itemsets Using Representation Learning. , 2018, , .		3
1786	From 4G to 5G: Self-organized network management meets machine learning. Computer Communications, 2018, 129, 248-268.	3.1	137
1787	Genome-wide prediction of cis-regulatory regions using supervised deep learning methods. BMC Bioinformatics, 2018, 19, 202.	1.2	88
1788	Logo detection and recognition with synthetic images. IS&T International Symposium on Electronic Imaging, 2018, 30, 337-1-337-7.	0.3	15

#	Article	IF	Citations
1789	Explaining Therapy Predictions with Layer-Wise Relevance Propagation in Neural Networks. , 2018, , .		36
1790	Learning a Dynamic-Based Representation for Multivariate Biomarker Time Series Classifications. , 2018, , .		2
1791	Gear pitting fault diagnosis using disentangled features from unsupervised deep learning. , 2018, , .		0
1792	A new framework for mobile robot trajectory tracking using depth data and learning algorithms. Journal of Intelligent and Fuzzy Systems, 2018, 34, 3969-3982.	0.8	7
1793	Big Data Perspective and Challenges in Next Generation Networks. Future Internet, 2018, 10, 56.	2.4	33
1794	Visually-Enabled Active Deep Learning for (Geo) Text and Image Classification: A Review. ISPRS International Journal of Geo-Information, 2018, 7, 65.	1.4	38
1795	Weakly-supervised convolutional neural networks for multimodal image registration. Medical Image Analysis, 2018, 49, 1-13.	7.0	280
1796	Computational Principles of Supervised Learning in the Cerebellum. Annual Review of Neuroscience, 2018, 41, 233-253.	5.0	174
1797	Readmission prediction via deep contextual embedding of clinical concepts. PLoS ONE, 2018, 13, e0195024.	1.1	80
1798	An Overview of Deep Learning Based Methods for Unsupervised and Semi-Supervised Anomaly Detection in Videos. Journal of Imaging, 2018, 4, 36.	1.7	303
1799	Introduction to MAchine Learning & Knowledge Extraction (MAKE). Machine Learning and Knowledge Extraction, 2018, 1, 1-20.	3.2	47
1800	Representation Learning for Class C G Protein-Coupled Receptors Classification. Molecules, 2018, 23, 690.	1.7	3
1801	Remote Sensing Scene Classification Based on Convolutional Neural Networks Pre-Trained Using Attention-Guided Sparse Filters. Remote Sensing, 2018, 10, 290.	1.8	46
1802	Automatic Ship Classification from Optical Aerial Images with Convolutional Neural Networks. Remote Sensing, 2018, 10, 511.	1.8	103
1803	Multi-Sensor Data Integration Using Deep Learning for Characterization of Defects in Steel Elements. Sensors, 2018, 18, 292.	2.1	75
1804	Comparison of Feature Learning Methods for Human Activity Recognition Using Wearable Sensors. Sensors, 2018, 18, 679.	2.1	196
1805	An Unsupervised Deep Hyperspectral Anomaly Detector. Sensors, 2018, 18, 693.	2.1	67
1807	A deep neural network based on kernel function and auto-encoder for bearing fault diagnosis. , 2018, , .		10

#	Article	IF	Citations
1808	A first study exploring the performance of the state-of-the art CNN model in the problem of breast cancer. , 2018, , .		31
1809	Synaptic Device Network Architecture with Feature Extraction for Unsupervised Image Classification. Small, 2018, 14, e1800521.	5.2	19
1810	Learning predictive models of drug side-effect relationships from distributed representations of literature-derived semantic predications. Journal of the American Medical Informatics Association: JAMIA, 2018, 25, 1339-1350.	2.2	16
1811	HSF-Net: Multiscale Deep Feature Embedding for Ship Detection in Optical Remote Sensing Imagery. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 7147-7161.	2.7	147
1812	Neural Simpletrons: Learning in the Limit of Few Labels with Directed Generative Networks. Neural Computation, 2018, 30, 2113-2174.	1.3	8
1813	Controlling an organic synthesis robot with machine learning to search for new reactivity. Nature, 2018, 559, 377-381.	13.7	462
1814	Image-based manufacturing analytics: Improving the accuracy of an industrial pellet classification system using deep neural networks. Chemometrics and Intelligent Laboratory Systems, 2018, 180, 26-35.	1.8	18
1815	Deep learning approach for cyberattack detection. , 2018, , .		59
1816	Semantic word shifts in a scientific domain. Scientometrics, 2018, 117, 211-226.	1.6	9
1817	Compression of network traffic parameters for detecting cyber attacks based on deep learning. , 2018, , .		19
1818	Experimental validation of a deep neural network—Sparse representation classification ensemble method. Structural Design of Tall and Special Buildings, 2018, 27, e1504.	0.9	14
1819	DeepCRISPR: optimized CRISPR guide RNA design by deep learning. Genome Biology, 2018, 19, 80.	3.8	285
1820	Ten Years of Relevance Score for Content Based Image Retrieval. Lecture Notes in Computer Science, 2018, , 117-131.	1.0	5
1821	Representation Learning for Classification in Heterogeneous Graphs with Application to Social Networks. ACM Transactions on Knowledge Discovery From Data, 2018, 12, 1-33.	2.5	7
1822	The deep kernelized autoencoder. Applied Soft Computing Journal, 2018, 71, 816-825.	4.1	14
1823	Mesh motion scale invariant feature and collaborative learning for visual recognition. Multimedia Tools and Applications, 2018, 77, 22367-22384.	2.6	1
1824	Big data analysis for brain tumor detection: Deep convolutional neural networks. Future Generation Computer Systems, 2018, 87, 290-297.	4.9	224
1825	Scalable and accurate deep learning with electronic health records. Npj Digital Medicine, 2018, 1, 18.	5.7	1,440

#	Article	IF	Citations
1826	Small sample learning with high order contractive auto-encoders and application in SAR images. Science China Information Sciences, 2018, 61, 1.	2.7	1
1827	Towards deep anchor learning. , 2018, , .		1
1828	Structurally Layered Representation Learning: Towards Deep Learning Through Genetic Programming. Lecture Notes in Computer Science, 2018, , 271-288.	1.0	13
1829	Model-aware categorical data embedding: a data-driven approach. Soft Computing, 2018, 22, 3603-3619.	2.1	5
1830	Energy-based anomaly detection for mixed data. Knowledge and Information Systems, 2018, 57, 413-435.	2.1	13
1831	CrisMap: a Big Data Crisis Mapping System Based on Damage Detection and Geoparsing. Information Systems Frontiers, 2018, 20, 993-1011.	4.1	54
1832	Toward optimal feature and time segment selection by divergence method for EEG signals classification. Computers in Biology and Medicine, 2018, 97, 161-170.	3.9	28
1833	EMR-based medical knowledge representation and inference via Markov random fields and distributed representation learning. Artificial Intelligence in Medicine, 2018, 87, 49-59.	3.8	35
1834	Robust Constrained Concept Factorization. Studies in Computational Intelligence, 2018, , 207-225.	0.7	2
1835	Applying Machine Learning to Pediatric Critical Care Data*. Pediatric Critical Care Medicine, 2018, 19, 599-608.	0.2	37
1836	PCANet: An energy perspective. Neurocomputing, 2018, 313, 271-287.	3.5	19
1837	MicroPheno: predicting environments and host phenotypes from 16S rRNA gene sequencing using a k-mer based representation of shallow sub-samples. Bioinformatics, 2018, 34, i32-i42.	1.8	68
1838	Deep learning enabled intelligent fault diagnosis: Overview and applications. Journal of Intelligent and Fuzzy Systems, 2018, 35, 5771-5784.	0.8	54
1839	Deep domain similarity Adaptation Networks for across domain classification. Pattern Recognition Letters, 2018, 112, 270-276.	2.6	3
1840	On Definition of Deep Learning. , 2018, , .		70
1841	Machine learning for image based species identification. Methods in Ecology and Evolution, 2018, 9, 2216-2225.	2.2	267
1842	Fast Inference Predictive Coding: A Novel Model for Constructing Deep Neural Networks. IEEE Transactions on Neural Networks and Learning Systems, 2019, 30, 1150-1165.	7.2	25
1843	Computer-aided classification of prostate cancer grade groups from MRI images using texture features and stacked sparse autoencoder. Computerized Medical Imaging and Graphics, 2018, 69, 60-68.	3.5	62

#	Article	IF	Citations
1844	A new algorithm of vehicle license plate location based on convolutional neural network. Journal of Computational Methods in Sciences and Engineering, 2018, 18, 1021-1033.	0.1	7
1845	An Introduction to Neural Networks. , 2018, , 1-52.		17
1846	Local Binary Patterns Based on Subspace Representation of Image Patch for Face Recognition. Lecture Notes in Computer Science, 2018, , 130-139.	1.0	0
1847	Iterative Deep Subspace Clustering. Lecture Notes in Computer Science, 2018, , 42-51.	1.0	1
1848	Incorporating pre-training in long short-term memory networks for tweet classification. Social Network Analysis and Mining, 2018, 8, 1.	1.9	12
1849	Multi-modal brain fingerprinting: A manifold approximation based framework. NeuroImage, 2018, 183, 212-226.	2.1	23
1850	A sentiment information Collectorâ€"Extractor architecture based neural network for sentiment analysis. Information Sciences, 2018, 467, 549-558.	4.0	21
1851	Deep learning similarities from different representations of source code. , 2018, , .		86
1852	Optimally Connected Deep Belief Net for Click Through Rate Prediction in Online Advertising. IEEE Access, 2018, 6, 43009-43020.	2.6	11
1853	Variational autoencoders with triplet loss for representation learning. , 2018, , .		0
1854	Optimal Deep Learning LSTM Model for Electric Load Forecasting using Feature Selection and Genetic Algorithm: Comparison with Machine Learning Approaches â€. Energies, 2018, 11, 1636.	1.6	529
1855	A deep Boltzmann machine and multi-grained scanning forest ensemble collaborative method and its application to industrial fault diagnosis. Computers in Industry, 2018, 100, 287-296.	5.7	72
1856	Benchmarking deep learning models on large healthcare datasets. Journal of Biomedical Informatics, 2018, 83, 112-134.	2.5	240
1857	Data-driven graph construction and graph learning: A review. Neurocomputing, 2018, 312, 336-351.	3.5	93
1858	Self-Paced AutoEncoder. IEEE Signal Processing Letters, 2018, 25, 1054-1058.	2.1	18
1859	High-fidelity phenotyping: richness and freedom from bias. Journal of the American Medical Informatics Association: JAMIA, 2018, 25, 289-294.	2.2	56
1860	Replacement AutoEncoder: A Privacy-Preserving Algorithm for Sensory Data Analysis. , 2018, , .		29
1861	Crystal Structure Prediction via Deep Learning. Journal of the American Chemical Society, 2018, 140, 10158-10168.	6.6	241

#	Article	IF	Citations
1862	A new subset based deep feature learning method for intelligent fault diagnosis of bearing. Expert Systems With Applications, 2018, 110, 125-142.	4.4	74
1863	Leveraging multiple gene networks to prioritize GWAS candidate genes via network representation learning. Methods, 2018, 145, 41-50.	1.9	12
1864	Large-scale comparison of machine learning methods for drug target prediction on ChEMBL. Chemical Science, 2018, 9, 5441-5451.	3.7	357
1865	Automatically identifying, counting, and describing wild animals in camera-trap images with deep learning. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E5716-E5725.	3.3	630
1866	Integrating Driving Behavior and Traffic Context Through Signal Symbolization for Data Reduction and Risky Lane Change Detection. IEEE Transactions on Intelligent Vehicles, 2018, 3, 242-253.	9.4	25
1867	Task-specific word identification from short texts using a convolutional neural network1. Intelligent Data Analysis, 2018, 22, 533-550.	0.4	8
1868	Bibliometric Analysis of the Deep Learning Research Status with the Data from Web of Science. Lecture Notes in Computer Science, 2018, , 585-595.	1.0	2
1869	Deep Stock Ranker: A LSTM Neural Network Model for Stock Selection. Lecture Notes in Computer Science, 2018, , 614-623.	1.0	24
1870	Emerging Trends in Vehicular Communication Networks. , 2018, , 37-57.		3
1871	UbeHealth: A Personalized Ubiquitous Cloud and Edge-Enabled Networked Healthcare System for Smart Cities. IEEE Access, 2018, 6, 32258-32285.	2.6	181
1872	A framework of predicting drug resistance of lung tuberculosis by utilizing radiological images. , 2018, , .		1
1873	Information Systems Security and Privacy. Communications in Computer and Information Science, 2018, , .	0.4	1
1874	Discovering space —Grounding spatial topology and metric regularity in a naive agent's sensorimotor experience. Neural Networks, 2018, 105, 371-392.	3.3	11
1875	Automatic recognition of holistic functional brain networks using iteratively optimized convolutional neural networks (IO-CNN) with weak label initialization. Medical Image Analysis, 2018, 47, 111-126.	7.0	16
1876	SAR Targets Classification Based on Deep Memory Convolution Neural Networks and Transfer Parameters. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2018, 11, 2834-2846.	2.3	89
1877	Discriminatively boosted image clustering with fully convolutional auto-encoders. Pattern Recognition, 2018, 83, 161-173.	5.1	168
1878	Unsupervised Learning of Face Representations. , 2018, , .		13
1879	Representation learning using event-based STDP. Neural Networks, 2018, 105, 294-303.	3.3	21

#	Article	IF	Citations
1880	TUMK-ELM: A Fast Unsupervised Heterogeneous Data Learning Approach. IEEE Access, 2018, 6, 35305-35315.	2.6	42
1881	A Better Understanding of Machine Learning Malware Misclassifcation. Communications in Computer and Information Science, 2018, , 35-58.	0.4	0
1882	Retinal vessel segmentation based on Fully Convolutional Neural Networks. Expert Systems With Applications, 2018, 112, 229-242.	4.4	217
1883	Improvement on Speech Emotion Recognition Based on Deep Convolutional Neural Networks. , 2018, , .		14
1884	Dimensionality Reduction via Community Detection in Small Sample Datasets. Lecture Notes in Computer Science, 2018, , 102-114.	1.0	2
1885	Learning Neural Representations for Network Anomaly Detection. IEEE Transactions on Cybernetics, 2019, 49, 3074-3087.	6.2	89
1886	Multiscale Convolutional Neural Networks for Fault Diagnosis of Wind Turbine Gearbox. IEEE Transactions on Industrial Electronics, 2019, 66, 3196-3207.	5.2	569
1887	A Survey of Feature Extraction in Dermoscopy Image Analysis of Skin Cancer. IEEE Journal of Biomedical and Health Informatics, 2019, 23, 1096-1109.	3.9	121
1888	Reconstructible Nonlinear Dimensionality Reduction via Joint Dictionary Learning. IEEE Transactions on Neural Networks and Learning Systems, 2019, 30, 175-189.	7.2	30
1889	Scene Categorization Using Deeply Learned Gaze Shifting Kernel. IEEE Transactions on Cybernetics, 2019, 49, 2156-2167.	6.2	20
1890	Interval Deep Generative Neural Network for Wind Speed Forecasting. IEEE Transactions on Smart Grid, 2019, 10, 3974-3989.	6.2	116
1891	Deep learning and its applications to machine health monitoring. Mechanical Systems and Signal Processing, 2019, 115, 213-237.	4.4	1,616
1892	Neurons With Paraboloid Decision Boundaries for Improved Neural Network Classification Performance. IEEE Transactions on Neural Networks and Learning Systems, 2019, 30, 284-294.	7.2	8
1893	Fused feature encoding in convolutional neural network. Multimedia Tools and Applications, 2019, 78, 1635-1648.	2.6	3
1894	Using Multiple-Feature-Spaces-Based Deep Learning for Tool Condition Monitoring in Ultraprecision Manufacturing. IEEE Transactions on Industrial Electronics, 2019, 66, 3794-3803.	5.2	95
1895	Interpreting Deep Visual Representations via Network Dissection. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2019, 41, 2131-2145.	9.7	140
1896	A Novel Liver Image Classification Method Using Perceptual Hash-Based Convolutional Neural Network. Arabian Journal for Science and Engineering, 2019, 44, 3173-3182.	1.7	61
1897	A Two-stage Iterative Approach to Improve Crowdsourcing-Based Relevance Assessment. Arabian Journal for Science and Engineering, 2019, 44, 3155-3172.	1.7	3

#	Article	IF	Citations
1898	Wave2Vec: Deep representation learning for clinical temporal data. Neurocomputing, 2019, 324, 31-42.	3.5	38
1899	Machine learning improved classification of psychoses using clinical and biological stratification: Update from the bipolar-schizophrenia network for intermediate phenotypes (B-SNIP). Schizophrenia Research, 2019, 214, 60-69.	1.1	22
1900	Stacked Robust Adaptively Regularized Auto-Regressions for Domain Adaptation. IEEE Transactions on Knowledge and Data Engineering, 2019, 31, 561-574.	4.0	23
1901	Deep Learning Based Part-of-Speech Tagging for Malayalam Twitter Data (Special Issue: Deep Learning) Tj ETQq1 1 0.784314 rgBT /Overlock	1.2	25
1902	Viewpoint invariant semantic object and scene categorization with RGB-D sensors. Autonomous Robots, 2019, 43, 1005-1022.	3.2	12
1903	CURE: Flexible Categorical Data Representation by Hierarchical Coupling Learning. IEEE Transactions on Knowledge and Data Engineering, 2019, 31, 853-866.	4.0	32
1904	Computer-Aided Diagnostic System for Early Detection of Acute Renal Transplant Rejection Using Diffusion-Weighted MRI. IEEE Transactions on Biomedical Engineering, 2019, 66, 539-552.	2.5	39
1905	Graph-Based Place Recognition in Image Sequences with CNN Features. Journal of Intelligent and Robotic Systems: Theory and Applications, 2019, 95, 389-403.	2.0	35
1906	EndNet: Sparse AutoEncoder Network for Endmember Extraction and Hyperspectral Unmixing. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 482-496.	2.7	122
1907	Error-space representations for multi-dimensional data streams with temporal dependence. Pattern Analysis and Applications, 2019, 22, 1211-1220.	3.1	3
1908	Symmetry-adapted representation learning. Pattern Recognition, 2019, 86, 201-208.	5.1	13
1909	Learning for Personalized Medicine: A Comprehensive Review From a Deep Learning Perspective. IEEE Reviews in Biomedical Engineering, 2019, 12, 194-208.	13.1	63
1910	Artificial Intelligence for Business. SpringerBriefs in Business, 2019, , .	0.3	60
1911	Accurate ROI localization and hierarchical hyper-sphere model for finger-vein recognition. Neurocomputing, 2019, 328, 171-181.	3.5	30
1912	A Deep Active Survival Analysis approach for precision treatment recommendations: Application of prostate cancer. Expert Systems With Applications, 2019, 115, 16-26.	4.4	40
1913	Robust visual tracking based on convolutional neural network with extreme learning machine. Multimedia Tools and Applications, 2019, 78, 7543-7562.	2.6	6
1914	From aging to early-stage Alzheimer's: Uncovering handwriting multimodal behaviors by semi-supervised learning and sequential representation learning. Pattern Recognition, 2019, 86, 112-133.	5.1	22
1915	Packing Convolutional Neural Networks in the Frequency Domain. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2019, 41, 2495-2510.	9.7	51

#	Article	IF	Citations
1916	ThiNet: Pruning CNN Filters for a Thinner Net. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2019, 41, 2525-2538.	9.7	147
1917	ResInNet: A Novel Deep Neural Network With Feature Reuse for Internet of Things. IEEE Internet of Things Journal, 2019, 6, 679-691.	5.5	69
1918	Joint sparse representation and locality preserving projection for feature extraction. International Journal of Machine Learning and Cybernetics, 2019, 10, 1731-1745.	2.3	27
1919	Drug Repositioning for Schizophrenia and Depression/Anxiety Disorders: A Machine Learning Approach Leveraging Expression Data. IEEE Journal of Biomedical and Health Informatics, 2019, 23, 1304-1315.	3.9	60
1920	Optimizing Autoencoders for Learning Deep Representations From Health Data. IEEE Journal of Biomedical and Health Informatics, 2019, 23, 103-111.	3.9	18
1921	Feature space learning model. Journal of Ambient Intelligence and Humanized Computing, 2019, 10, 2029-2040.	3.3	6
1922	A linear relation between input and first layer in neural networks. Annals of Mathematics and Artificial Intelligence, 2019, 87, 361-372.	0.9	1
1923	Hyperspectral image classification based on average spectral-spatial features and improved hierarchical-ELM. Infrared Physics and Technology, 2019, 102, 103013.	1.3	13
1924	Neural Networks at the Edge. , 2019, , .		4
1925	Insights: Anwendungsmöglichkeiten von passivem Smartphone-Tracking im therapeutischen Kontext. Verhaltenstherapie, 2019, 29, 155-165.	0.3	11
1926	Compact and Low-Power Neural Spike Compression Using Undercomplete Autoencoders. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2019, 27, 1529-1538.	2.7	18
1927	Recent advances and applications of machine learning in solid-state materials science. Npj Computational Materials, 2019, 5, .	3.5	1,289
1928	Optimizing sparse RFI prediction using deep learning. Monthly Notices of the Royal Astronomical Society, 2019, 488, 2605-2615.	1.6	29
1929	Recommender Systems with Heterogeneous Side Information. , 2019, , .		20
1930	Global Vectors for Node Representations. , 2019, , .		27
1931	Semi-supervised learning with convolutional neural networks for UAV images automatic recognition. Computers and Electronics in Agriculture, 2019, 164, 104932.	3.7	31
1932	Improved Gaussian–Bernoulli restricted Boltzmann machine for learning discriminative representations. Knowledge-Based Systems, 2019, 185, 104911.	4.0	16
1933	A deep learning method for online capacity estimation of lithium-ion batteries. Journal of Energy Storage, 2019, 25, 100817.	3.9	208

#	Article	IF	Citations
1934	Effective and Efficient Sports Play Retrieval with Deep Representation Learning. , 2019, , .		19
1935	Understanding VAEs in Fisher-Shannon Plane. Proceedings of the AAAI Conference on Artificial Intelligence, 2019, 33, 5917-5924.	3.6	7
1936	Fuzzy Clustering in Cascaded Feature Space. International Journal of Fuzzy Systems, 2019, 21, 2155-2167.	2.3	7
1937	Representation Learning and Nature Encoded Fusion for Heterogeneous Sensor Networks. IEEE Access, 2019, 7, 39227-39235.	2.6	5
1938	Truncated Graph-Regularized Low Rank Representation for Link Prediction. IEEE Access, 2019, 7, 48224-48235.	2.6	1
1939	Brain Image Recognition Algorithm and High Performance Computing of Internet of Medical Things Based on Convolutional Neural Network. IEEE Access, 2019, 7, 108633-108646.	2.6	2
1940	DeepMammo: Deep Transfer Learning for Lesion Classification of Mammographic Images. , 2019, , .		4
1941	Using Deep Learning for IoT-enabled Camera: A Use Case of Flood Monitoring. , 2019, , .		6
1942	Recurrent Deep Divergence-based Clustering for Simultaneous Feature Learning and Clustering of Variable Length Time Series. , 2019, , .		8
1943	Semi-supervised learning with connectivity-driven convolutional neural networks. Pattern Recognition Letters, 2019, 128, 16-22.	2.6	9
1944	Network representation learning: models, methods and applications. SN Applied Sciences, 2019, 1, 1.	1.5	9
1945	PCANet: A Common Solution for Laser-Induced Fluorescence Spectral Classification. IEEE Access, 2019, 7, 107129-107141.	2.6	8
1946	A deep learning model for real-time mortality prediction in critically ill children. Critical Care, 2019, 23, 279.	2.5	68
1947	Detecting Shilling Attacks with Automatic Features from Multiple Views. Security and Communication Networks, 2019, 2019, 1-13.	1.0	17
1948	Mapping Irrigated Areas Using Sentinel-1 Time Series in Catalonia, Spain. Remote Sensing, 2019, 11, 1836.	1.8	65
1949	Effect of CVCE passes on the microstructure and properties of the as-cast commercially pure aluminum 1A85. Canadian Metallurgical Quarterly, 2019, 58, 456-463.	0.4	0
1950	Auto-encoder based Graph Convolutional Networks for Online Financial Anti-fraud. , 2019, , .		5
1951	Automatic Labeling of Industrial Images by using Generative Adversarial Networks. , 2019, , .		0

#	Article	IF	Citations
1952	Machine-Learning-Based Error Detection and Design Optimization in Signal Integrity Applications. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2019, 9, 1712-1720.	1.4	16
1953	Decoupling Spatial Pattern and its Movement Via Complex Factorization Over Orthogonal Filter Pairs. , 2019, , .		0
1954	Human Motion Prediction Via Pattern Completion in Latent Representation Space. , 2019, , .		4
1955	Deep transfer network for rotating machine fault analysis. Pattern Recognition, 2019, 96, 106993.	5.1	49
1956	Vehicle trajectory modelling with consideration of distant neighbouring dependencies for destination prediction. International Journal of Geographical Information Science, 2019, 33, 2011-2032.	2.2	3
1957	A Packet-Length-Adjustable Attention Model Based on Bytes Embedding Using Flow-WGAN for Smart Cybersecurity. IEEE Access, 2019, 7, 82913-82926.	2.6	12
1958	Machine learning and data mining frameworks for predicting drug response in cancer: An overview and a novel in silico screening process based on association rule mining. , 2019, 203, 107395.		76
1959	Prediction of Plant lncRNA-Protein Interactions Using Sequence Information Based on Deep Learning. Lecture Notes in Computer Science, 2019, , 358-368.	1.0	1
1960	Graph representation learning with encoding edges. Neurocomputing, 2019, 361, 29-39.	3.5	19
1961	Feature extraction using Deep Learning for Intrusion Detection System. , 2019, , .		15
1962	Multi-Label Image Recognition with Joint Class-Aware Map Disentangling and Label Correlation Embedding. , 2019, , .		24
1963	Intrinsic Isometric Manifold Learning with Application to Localization. SIAM Journal on Imaging Sciences, 2019, 12, 1347-1391.	1.3	11
1964	Enhanced Deepâ€Learning Prediction of Molecular Properties via Augmentation of Bond Topology. ChemMedChem, 2019, 14, 1604-1609.	1.6	33
1965	Semi-supervised distributed representations of documents for sentiment analysis. Neural Networks, 2019, 119, 139-150.	3.3	14
1966	Neural embeddings: accurate and readable inferences based on semantic kernels. Natural Language Engineering, 2019, 25, 519-541.	2.1	4
1967	Learning Effective Embeddings From Crowdsourced Labels: An Educational Case Study. , 2019, , .		9
1968	Spatiotemporal Representation Learning for Driving Behavior Analysis: A Joint Perspective of Peer and Temporal Dependencies. IEEE Transactions on Knowledge and Data Engineering, 2019, , 1-1.	4.0	11
1969	Deep Learning and Neurology: A Systematic Review. Neurology and Therapy, 2019, 8, 351-365.	1.4	101

#	ARTICLE	IF	CITATIONS
1970	User-Oriented Paraphrase Generation With Keywords Controlled Network. IEEE Access, 2019, 7, 80542-80551.	2.6	9
1971	Macroscopic crowd panic quantification model of crowd evacuation based on information entropy. , 2019, , .		3
1972	New Quantitative Approach for the Morphological Similarity Analysis of Urban Fabrics Based on a Convolutional Autoencoder. IEEE Access, 2019, 7, 138162-138174.	2.6	9
1973	Imaging Through Turbid Media With Vague Concentrations Based on Cosine Similarity and Convolutional Neural Network. IEEE Photonics Journal, 2019, 11, 1-15.	1.0	10
1974	Medicare fraud detection using neural networks. Journal of Big Data, 2019, 6, .	6.9	61
1975	Optimal principal component analysis of STEM XEDS spectrum images. Advanced Structural and Chemical Imaging, 2019, 5, 4.	4.0	26
1976	Latent Space Cartography: Visual Analysis of Vector Space Embeddings. Computer Graphics Forum, 2019, 38, 67-78.	1.8	52
1977	Design teacher and supervised dual stacked auto-encoders for quality-relevant fault detection in industrial process. Applied Soft Computing Journal, 2019, 81, 105526.	4.1	40
1978	Disentangled representation learning in cardiac image analysis. Medical Image Analysis, 2019, 58, 101535.	7.0	105
1979	Learning representations of multivariate time series with missing data. Pattern Recognition, 2019, 96, 106973.	5.1	35
1980	Visual Analysis of Research Paper Collections Using Normalized Relative Compression. Entropy, 2019, 21, 612.	1.1	1
1981	Variant Gated Recurrent Units With Encoders to Preprocess Packets for Payload-Aware Intrusion Detection. IEEE Access, 2019, 7, 49985-49998.	2.6	30
1982	Deep Learning for Single Image Super-Resolution: A Brief Review. IEEE Transactions on Multimedia, 2019, 21, 3106-3121.	5.2	616
1983	Deep Learning-Based Long-Term Power Allocation Scheme for NOMA Downlink System in S-IoT. IEEE Access, 2019, 7, 86288-86296.	2.6	40
1984	An integration of deep learning with feature embedding for protein–protein interaction prediction. PeerJ, 2019, 7, e7126.	0.9	62
1985	Concepts of Artificial Intelligence for Computer-Assisted Drug Discovery. Chemical Reviews, 2019, 119, 10520-10594.	23.0	499
1986	Multilingual Open Information Extraction: Challenges and Opportunities. Information (Switzerland), 2019, 10, 228.	1.7	11
1987	Sparse deep feature learning for facial expression recognition. Pattern Recognition, 2019, 96, 106966.	5.1	42

#	Article	IF	Citations
1988	Identifying signal-dependent information about the preictal state: A comparison across ECoG, EEG and EKG using deep learning. EBioMedicine, 2019, 45, 422-431.	2.7	20
1989	ClearF: a supervised feature scoring method to find biomarkers using class-wise embedding and reconstruction. BMC Medical Genomics, 2019, 12, 95.	0.7	3
1991	GKB: A Predictive Analytics Framework to Generate Online Product Recommendations. , 2019, , .		2
1992	Improvement of Chatbot in Trading System for SMEs by Using Deep Neural Network. , 2019, , .		7
1993	Deep Learning Application in Security and Privacy – Theory and Practice: A Position Paper. Lecture Notes in Computer Science, 2019, , 129-144.	1.0	0
1994	Handgun Detection in Single-Spectrum Multiple X-ray Views Based on 3D Object Recognition. Journal of Nondestructive Evaluation, 2019, 38, 1.	1.1	11
1995	Quality assessment on remote sensing image based on neural networks. Journal of Visual Communication and Image Representation, 2019, 63, 102580.	1.7	5
1996	Global-connected network with generalized ReLU activation. Pattern Recognition, 2019, 96, 106961.	5.1	23
1997	Artificial intelligence algorithm for predicting mortality of patients with acute heart failure. PLoS ONE, 2019, 14, e0219302.	1.1	84
1998	Reinforcement learning for neural architecture search: A review. Image and Vision Computing, 2019, 89, 57-66.	2.7	89
1999	Cross-domain neural-kernel networks. Pattern Recognition Letters, 2019, 125, 474-480.	2.6	10
2000	Machine-learning-guided directed evolution for protein engineering. Nature Methods, 2019, 16, 687-694.	9.0	580
2001	Object classification on raw radar data using convolutional neural networks. , 2019, , .		4
2002	Emergent Schrödinger equation in an introspective machine learning architecture. Science Bulletin, 2019, 64, 1228-1233.	4.3	21
2003	Iterative Autoencoding and Clustering for Unsupervised Feature Representation. , 2019, , .		2
2004	Intrusion detection using dimensionality reduced soft matrix. , 2019, , .		5
2005	Survey and Cross-benchmark Comparison of Remaining Time Prediction Methods in Business Process Monitoring. ACM Transactions on Intelligent Systems and Technology, 2019, 10, 1-34.	2.9	89
2006	Roundness and positioning deviation prediction in single point incremental forming using deep learning approaches. Advances in Mechanical Engineering, 2019, 11, 168781401986446.	0.8	17

#	Article	IF	Citations
2007	A novel cascaded deep neural network for analyzing smart phone data for indoor localization. Future Generation Computer Systems, 2019, 101, 760-769.	4.9	13
2008	Polar-Spatial Feature Fusion Learning With Variational Generative-Discriminative Network for PolSAR Classification. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 8914-8927.	2.7	24
2009	Legal Intelligence for E-commerce. , 2019, , .		14
2010	Two-stage framework for optic disc localization and glaucoma classification in retinal fundus images using deep learning. BMC Medical Informatics and Decision Making, 2019, 19, 136.	1.5	75
2011	Unveiling phase transitions with machine learning. Physical Review B, 2019, 100, .	1.1	50
2013	Alternative Routen in komplexen Umgebungen. , 2019, , .		0
2014	Mutual information-based dropout: Learning deep relevant feature representation architectures. Neurocomputing, 2019, 361, 173-184.	3.5	8
2015	Deep-dose: a voxel dose estimation method using deep convolutional neural network for personalized internal dosimetry. Scientific Reports, 2019, 9, 10308.	1.6	61
2016	An intelligent method for iris recognition using supervised machine learning techniques. Optics and Laser Technology, 2019, 120, 105701.	2.2	33
2017	A Representation Learning Framework for Property Graphs. , 2019, , .		26
2018	A Study on Development of the Camera-Based Blind Spot Detection System Using the Deep Learning Methodology. Applied Sciences (Switzerland), 2019, 9, 2941.	1.3	9
2019	Feasibility of predicting live birth by combining conventional embryo evaluation with artificial intelligence applied to a blastocyst image in patients classified by age. Reproductive Medicine and Biology, 2019, 18, 344-356.	1.0	18
2020	A Learning Approach for Topic-Aware Influence Maximization. Lecture Notes in Computer Science, 2019, , 125-140.	1.0	3
2021	Deep classifier on the electrocardiogram interpretation system. Journal of Physics: Conference Series, 2019, 1246, 012030.	0.3	3
2022	NNMLInf. , 2019, , .		7
2023	Bayesian Learning of Latent Representations of Language Structures. Computational Linguistics, 2019, 45, 199-228.	2.5	4
2024	An artificial neural network model for clinical score prediction in Alzheimer disease using structural neuroimaging measures. Journal of Psychiatry and Neuroscience, 2019, 44, 246-250.	1.4	35
2025	Scene Categorization by Deeply Learning Gaze Behavior in a Semisupervised Context. IEEE Transactions on Cybernetics, 2021, 51, 4265-4276.	6.2	5

#	ARTICLE	IF	CITATIONS
2026	Evaluating Polymer Representations via Quantifying Structure–Property Relationships. Journal of Chemical Information and Modeling, 2019, 59, 3110-3119.	2.5	39
2027	Learning moment closure in reaction-diffusion systems with spatial dynamic Boltzmann distributions. Physical Review E, 2019, 99, 063315.	0.8	2
2028	Optimization of a Deep-Learning Method Based on the Classification of Images Generated by Parameterized Deep Snap a Novel Molecular-Image-Input Technique for Quantitative Structure–Activity Relationship (QSAR) Analysis. Frontiers in Bioengineering and Biotechnology, 2019, 7, 65.	2.0	46
2029	A novel drying-free identification method of cashmere textiles by NIR spectroscopy combined with an adaptive representation learning classification method. Microchemical Journal, 2019, 149, 104018.	2.3	10
2030	Conservative Exploration for Semi-Bandits with Linear Generalization: A Product Selection Problem for Urban Warehouses. SSRN Electronic Journal, 2019, , .	0.4	0
2031	Multi-Task Learning Using Task Dependencies for Face Attributes Prediction. Applied Sciences (Switzerland), 2019, 9, 2535.	1.3	1
2032	Improving Generative and Discriminative Modelling Performance by Implementing Learning Constraints in Encapsulated Variational Autoencoders. Applied Sciences (Switzerland), 2019, 9, 2551.	1.3	2
2033	Enhancing Network Embedding with Implicit Clustering. Lecture Notes in Computer Science, 2019, , 452-467.	1.0	6
2035	ForestLayer: Efficient training of deep forests on distributed task-parallel platforms. Journal of Parallel and Distributed Computing, 2019, 132, 113-126.	2.7	21
2037	Inspection and Selection of Representations. Lecture Notes in Computer Science, 2019, , 227-242.	1.0	7
2038	Learning deep neural networks for node classification. Expert Systems With Applications, 2019, 137, 324-334.	4.4	31
2039	Laplacian Eigenmaps Network-Based Nonlocal Means Method for MR Image Denoising. Sensors, 2019, 19, 2918.	2.1	22
2041	A Deep Learning Method for Lung Segmentation on Large Size Chest X-Ray Image. , 2019, , .		5
2042	A Learning-Based Method for Solving Ill-Posed Nonlinear Inverse Problems: A Simulation Study of Lung EIT. SIAM Journal on Imaging Sciences, 2019, 12, 1275-1295.	1.3	67
2043	Identifying incidental findings from radiology reports of trauma patients: An evaluation of automated feature representation methods. International Journal of Medical Informatics, 2019, 129, 81-87.	1.6	12
2044	Representation Learning for Recommender Systems with Application to the Scientific Literature. , 2019, , .		3
2045	Identifying Subsurface Drainage using Satellite Big Data and Machine Learning via Google Earth Engine. Water Resources Research, 2019, 55, 8028-8045.	1.7	30
2046	Virtual Hospital with Real-Time Image Diagnosis. Journal of Physics: Conference Series, 2019, 1302, 042051.	0.3	0

#	Article	IF	Citations
2047	Exploring Deep Physiological Models for Nociceptive Pain Recognition. Sensors, 2019, 19, 4503.	2.1	39
2048	Distorted Representation Space Characterization Through Backpropagated Gradients. , 2019, , .		12
2049	Reconstructed similarity for faster GANs-based word translation to mitigate hubness. Neurocomputing, 2019, 362, 83-93.	3.5	7
2050	On the use of Action Units and fuzzy explanatory models for facial expression recognition. PLoS ONE, 2019, 14, e0223563.	1.1	2
2051	Data Analytics and Machine Learning for Smart Process Manufacturing: Recent Advances and Perspectives in the Big Data Era. Engineering, 2019, 5, 1010-1016.	3.2	186
2052	Video anomaly detection and localization via multivariate gaussian fully convolution adversarial autoencoder. Neurocomputing, 2019, 369, 92-105.	3.5	65
2053	Machine learning in cardiovascular magnetic resonance: basic concepts and applications. Journal of Cardiovascular Magnetic Resonance, 2019, 21, 61.	1.6	157
2054	Phasic dopamine release identification using convolutional neural network. Computers in Biology and Medicine, 2019, 114, 103466.	3.9	11
2055	Learning to see stuff. Current Opinion in Behavioral Sciences, 2019, 30, 100-108.	2.0	45
2057	Inter-patient ECG classification with convolutional and recurrent neural networks. Biocybernetics and Biomedical Engineering, 2019, 39, 868-879.	3.3	79
2058	CNN-Based Cognitive Radar Array Selection. , 2019, , .		2
2059	Deep Learning–based CT Image Reconstruction: Initial Evaluation Targeting Hypovascular Hepatic Metastases. Radiology: Artificial Intelligence, 2019, 1, e180011.	3.0	52
2060	Integration of continuous restricted Boltzmann machine and SVR in NOx emissions prediction of a tangential firing boiler. Chemometrics and Intelligent Laboratory Systems, 2019, 195, 103870.	1.8	33
2061	Water quality improvement strategies for a coastal artificial lake. IOP Conference Series: Earth and Environmental Science, 2019, 267, 052023.	0.2	0
2062	From Vision to Content: Construction of Domain-Specific Multi-Modal Knowledge Graph. IEEE Access, 2019, 7, 108278-108294.	2.6	8
2063	Adversarial Learning-based Data Augmentation for Rotation-robust Human Tracking. , 2019, , .		2
2064	On the Use of U-Net for Dominant Melody Estimation in Polyphonic Music. , 2019, , .		4
2065	Deep-learning-based risk stratification for mortality of patients with acute myocardial infarction. PLoS ONE, 2019, 14, e0224502.	1.1	54

#	ARTICLE	IF	CITATIONS
2066	Tags-Aware Recommender Systems: A Systematic Review. , 2019, , .		3
2067	Brain Tumor Classification Using ResNet-101 Based Squeeze and Excitation Deep Neural Network. , 2019, , .		60
2068	Big Vibration Data Diagnosis of Bearing Fault Base on Feature Representation of Autoencoder and Optimal LSSVM-CRO Classifier Model. , 2019, , .		2
2069	Deep unsupervised state representation learning with robotic priors: a robustness analysis. , 2019, , .		3
2070	A Distributed Q-Learning Approach for Adaptive Sleep Modes in 5G Networks. , 2019, , .		17
2071	A deep learning technique for imputing missing healthcare data. , 2019, 2019, 6513-6516.		21
2072	SURREAL: Subgraph Robust Representation Learning. Applied Network Science, 2019, 4, .	0.8	0
2073	Fault Detection and Diagnosis Using Combined Autoencoder and Long Short-Term Memory Network. Sensors, 2019, 19, 4612.	2.1	118
2074	Optimal structure of groups under exposure to fake news. Applied Network Science, 2019, 4, .	0.8	3
2075	Texture and Wavelet based PCANet (TW-PCANet) for Infants' Facial Expression Recognition. , 2019, , .		1
2076	On the Use of Predictive Models for Improving the Quality of Industrial Maintenance: An Analytical Literature Review of Maintenance Strategies. , 0, , .		16
2077	A new feature selection method based on task environments for controlling robots. Applied Soft Computing Journal, 2019, 85, 105812.	4.1	6
2078	Defect Detection from X-Ray Images Using A Three-Stage Deep Learning Algorithm. , 2019, , .		17
2079	Variational Autoencoders for Cancer Data Integration: Design Principles and Computational Practice. Frontiers in Genetics, 2019, 10, 1205.	1.1	76
2080	Guest editorial: Special issue on machine learning in schizophrenia. Schizophrenia Research, 2019, 214, 1-2.	1.1	3
2081	A CNN-Based Pan-Sharpening Method for Integrating Panchromatic and Multispectral Images Using Landsat 8. Remote Sensing, 2019, 11, 2606.	1.8	14
2083	TCANet for Domain Adaptation of Hyperspectral Images. Remote Sensing, 2019, 11, 2289.	1.8	6
2084	An Improved Approach to Audio Segmentation and Classification in Broadcasting Industries. Journal of Database Management, 2019, 30, 44-66.	1.0	2

#	Article	IF	Citations
2085	Frameworks for Efficient Brain-Computer Interfacing. IEEE Transactions on Biomedical Circuits and Systems, 2019, 13, 1714-1722.	2.7	20
2086	Modulation of Activation Function in Triangular Recurrent Neural Networks for Time Series Modeling. , 2019, , .		1
2087	Artificial intelligence meets software engineering in the classroom. , 2019, , .		2
2088	On Learning Disentangled Representation for Acoustic Event Detection. , 2019, , .		3
2089	Recommendation Based on Users' Long-Term and Short-Term Interests with Attention. Mathematical Problems in Engineering, 2019, 2019, 1-13.	0.6	8
2090	Modeling concepts and their relationships for corpus-based query auto-completion. Open Computer Science, 2019, 9, 212-225.	1.3	2
2091	Horsing Around—A Dataset Comprising Horse Movement. Data, 2019, 4, 131.	1.2	10
2092	TrustSign: Trusted Malware Signature Generation in Private Clouds Using Deep Feature Transfer Learning. , 2019, , .		15
2093	Learning to Upsample Smoke Images via a Deep Convolutional Network. IEEE Access, 2019, 7, 138932-138940.	2.6	2
2094	A Fourier Domain Training Framework for Convolutional Neural Networks Based on the Fourier Domain Pyramid Pooling Method and Fourier Domain Exponential Linear Unit. IEEE Access, 2019, 7, 116612-116631.	2.6	9
2095	Fast Code Clone Detection Based on Weighted Recursive Autoencoders. IEEE Access, 2019, 7, 125062-125078.	2.6	25
2096	Novelty Detection in Social Media by Fusing Text and Image Into a Single Structure. IEEE Access, 2019, 7, 132786-132802.	2.6	7
2097	DeepAttr: Inferring Demographic Attributes via Social Network Embedding. IEEE Access, 2019, 7, 130270-130282.	2.6	5
2098	Unsupervised Exemplar-Based Learning for Improved Document Image Classification. IEEE Access, 2019, 7, 133738-133748.	2.6	9
2099	GestureVLAD: Combining Unsupervised Features Representation and Spatio-Temporal Aggregation for Doppler-Radar Gesture Recognition. IEEE Access, 2019, 7, 137122-137135.	2.6	22
2100	Diting: An Author Disambiguation Method Based on Network Representation Learning. IEEE Access, 2019, 7, 135539-135555.	2.6	4
2101	Clustering of Remote Sensing Data Based on K-Nearest Neighbors Sampling With Non-Evenly Division. IEEE Access, 2019, 7, 147292-147301.	2.6	0
2102	A Multiscale Feature Learning Scheme Based on Deep Learning for Industrial Process Monitoring and Fault Diagnosis. IEEE Access, 2019, 7, 151189-151202.	2.6	23

#	ARTICLE	IF	CITATIONS
2103	Robust and efficient data transmission over noisy communication channels using stacked and denoising autoencoders. China Communications, 2019, 16, 72-82.	2.0	14
2104	A new LSTM-based gene expression prediction model: L-GEPM. Journal of Bioinformatics and Computational Biology, 2019, 17, 1950022.	0.3	12
2105	Representation learning for minority andÂsubtle activities in a smart homeÂenvironment. Journal of Ambient Intelligence and Smart Environments, 2019, 11, 495-513.	0.8	4
2106	Deep CNN with LM learning based myocardial ischemia detection in cardiac magnetic resonance images. , 2019, 2019, 824-827.		7
2107	Flower Recognition Based on Convolutional Neural Network. , 2019, , .		1
2108	Deep Generative State-Space Modeling of FMRI Images for Psychiatric Disorder Diagnosis. , 2019, , .		4
2109	Short-Term Forecasting of Power Production in a Large-Scale Photovoltaic Plant Based on LSTM. Applied Sciences (Switzerland), 2019, 9, 3192.	1.3	30
2110	A Domain Agnostic Normalization Layer for Unsupervised Adversarial Domain Adaptation. , 2019, , .		17
2111	Customer Reviews Analysis With Deep Neural Networks for E-Commerce Recommender Systems. IEEE Access, 2019, 7, 119121-119130.	2.6	39
2112	The Analysis of Text Categorization Represented With Word Embeddings Using Homogeneous Classifiers. , 2019, , .		4
2113	Learning Transferable Self-Attentive Representations for Action Recognition in Untrimmed Videos with Weak Supervision. Proceedings of the AAAI Conference on Artificial Intelligence, 2019, 33, 9227-9234.	3.6	49
2114	Cancer Diagnosis Using Deep Learning: A Bibliographic Review. Cancers, 2019, 11, 1235.	1.7	268
2115	Multi-view representation learning for segmentation of abnormal tissues in medical images applied to multiple sclerosis lesion delineation. SN Applied Sciences, 2019, 1, 1.	1.5	0
2116	Deep Learning With Customized Abstract Syntax Tree for Bug Localization. IEEE Access, 2019, 7, 116309-116320.	2.6	37
2117	Semantic variation operators for multidimensional genetic programming. , 2019, , .		14
2118	A Deep Learning Approach to the Malware Classification Problem using Autoencoders. , 2019, , .		2
2119	A Framework to Assess Value of Information in Future Vehicular Networks. , 2019, , .		16
2120	Deep Learning in Alzheimer's Disease: Diagnostic Classification and Prognostic Prediction Using Neuroimaging Data. Frontiers in Aging Neuroscience, 2019, 11, 220.	1.7	406

#	Article	IF	Citations
2121	A random-weighted plane-Gaussian artificial neural network. Neural Computing and Applications, 2019, 31, 8681-8692.	3.2	9
2122	Two-Dimensional Diffraction Tomography with Noise Suppression Using Principal Component Analysis. , 2019, , .		0
2123	TF-Ranking. , 2019, , .		70
2124	Environmental Audio Scene and Sound Event Recognition for Autonomous Surveillance. ACM Computing Surveys, 2020, 52, 1-34.	16.1	47
2125	When deep learning met code search. , 2019, , .		114
2126	Deep learning based predictive modeling for structure-property linkages. Materialia, 2019, 8, 100435.	1.3	20
2127	Defect detection and recognition based on ADABOOT-SVM integrated model. Journal of Physics: Conference Series, 2019, 1187, 042025.	0.3	1
2128	Research on Quality Performance Evaluation of General Aviation Industry Policy Effectiveness Based on Grey Relational Analysis. IOP Conference Series: Earth and Environmental Science, 2019, 252, 052044.	0.2	1
2129	Deep Learning-Based Parkinsonâ€™s Disease Classification Using Vocal Feature Sets. IEEE Access, 2019, 7, 115540-115551.	2.6	177
2130	Lossy Source Coding via Deep Learning. , 2019, , .		5
2131	Optimized Input for CNN-Based Hyperspectral Image Classification Using Spatial Transformer Network. IEEE Geoscience and Remote Sensing Letters, 2019, 16, 1884-1888.	1.4	60
2132	Information Generative Bayesian Adversarial Networks: A Representation Learning Model for Transmission Gear Parameters. IEEE/ASME Transactions on Mechatronics, 2019, 24, 1998-2007.	3.7	5
2133	Joint Attention Mechanism for Person Re-Identification. IEEE Access, 2019, 7, 90497-90506.	2.6	21
2134	Knowledge Enhanced Quality Estimation for Crowdsourcing. IEEE Access, 2019, 7, 106694-106704.	2.6	1
2135	Unifying Structural Proximity and Equivalence for Network Embedding. IEEE Access, 2019, 7, 106124-106138.	2.6	14
2136	Integrated GANs: Semi-Supervised SAR Target Recognition. IEEE Access, 2019, 7, 113999-114013.	2.6	11
2137	Visual Image Caption Generation for Service Robotics and Industrial Applications. , 2019, , .		16
2138	Microwave Meta-lens for Generating Polarization-Independent refracted waves. , 2019, , .		0

#	Article	IF	Citations
2139	Learning An Mr Acquisition-Invariant Representation Using Siamese Neural Networks. , 2019, , .		3
2140	Denoising-Contractive Autoencoder for Robust Device-Free Occupancy Detection. IEEE Internet of Things Journal, 2019, 6, 9572-9582.	5.5	13
2141	On Multi-view Interpretation of Convolutional Neural Networks. , 2019, , .		0
2142	Intelligent Radio for Next Generation Wireless Communications: An Overview. IEEE Wireless Communications, 2019, 26, 94-101.	6.6	12
2143	An Overview of Deep Learning in Prognostics and Health Management. , 2019, , .		0
2144	Volumetric Feature Learning for Query-by-Example in Medical Imaging Archives. , 2019, , .		1
2145	Estimation of Distribution using Population Queue based Variational Autoencoders. , 2019, , .		1
2146	An Evolutionary Deep Learning Approach Using Genetic Programming with Convolution Operators for Image Classification. , 2019, , .		18
2147	HoloDetect. , 2019, , .		62
2148	Reference Product Search. , 2019, , .		1
2149	Learning Distributed Representation of Recipe Flow Graphs via Frequent Subgraphs. , 2019, , .		2
2150	Learning of Brain Connectivity Features for EEG-based Person Identification. , 2019, , .		0
2151	Towards Explainable Face Aging with Generative Adversarial Networks. , 2019, , .		17
2152	Towards a topologicalâ€"geometrical theory of group equivariant non-expansive operators for data analysis and machine learning. Nature Machine Intelligence, 2019, 1, 423-433.	8.3	21
2153	Automated Counting of Cancer Cells by Ensembling Deep Features. Cells, 2019, 8, 1019.	1.8	12
2154	Representation Learning With Class Level Autoencoder for Intelligent Fault Diagnosis. IEEE Signal Processing Letters, 2019, 26, 1476-1480.	2.1	20
2155	Retinal blood vessel segmentation from diabetic retinopathy images using tandem PCNN model and deep learning based SVM. Optik, 2019, 199, 163328.	1.4	57
2156	Image Anonymization Detection with Deep Handcrafted Features. , 2019, , .		4

#	Article	IF	Citations
2157	An Evaluation of Autoencoder and Sparse Filter as Automated Feature Extraction Process for Automotive Damper Defect Diagnosis. , 2019, , .		2
2158	Investigating Extensions to Random Walk Based Graph Embedding. , 2019, , .		7
2159	Application of Deep Learning for Fault Diagnostic in Induction Machineâ€™s Bearings. , 2019, , .		8
2160	Representation Learning and Dissimilarity for Writer Identification. , 2019, , .		1
2161	PuVAE: A Variational Autoencoder to Purify Adversarial Examples. IEEE Access, 2019, 7, 126582-126593.	2.6	36
2162	Deep Neural Networks Applied to User Recognition Based on Keystroke Dynamics. , 2019, , .		1
2163	Large-Scale Cross-Category Analysis of Consumer Review Content on Sales Conversion Leveraging Deep Learning. Journal of Marketing Research, 2019, 56, 918-943.	3.0	107
2164	Text, Speech, and Dialogue. Lecture Notes in Computer Science, 2019, , .	1.0	0
2165	Remarks on Recognition of Aromas from Tea Leaves Using Deep Neural Network Based on PPF-Coated QCR Sensor Signals. , 2019, , .		0
2166	POI Representation Learning by a Hybrid Model. , 2019, , .		3
2167	Representation Learning for Minority and Subtle Activities in a Smart Home Environment. , 2019, , .		3
2168	Trends and Applications in Knowledge Discovery and Data Mining. Lecture Notes in Computer Science, 2019, , .	1.0	0
2170	Automatic Fault Detection for Marine Diesel Engine Degradation in Autonomous Ferry Crossing Operation. , 2019, , .		6
2171	A Deep Recurrent Neural Network Based Predictive Control Framework for Reliable Distributed Stream Data Processing. , 2019, , .		1
2172	A Review on Dimensionality Reduction for Multi-label Classification. IEEE Transactions on Knowledge and Data Engineering, 2019, , 1-1.	4.0	17
2173	Application of new deep genetic cascade ensemble of SVM classifiers to predict the Australian credit scoring. Applied Soft Computing Journal, 2019, 84, 105740.	4.1	106
2174	Enhanced Stacked Denoising Autoencoder-Based Feature Learning for Recognition of Wafer Map Defects. IEEE Transactions on Semiconductor Manufacturing, 2019, 32, 613-624.	1.4	45
2175	A Deep One-Class Neural Network for Anomalous Event Detection in Complex Scenes. IEEE Transactions on Neural Networks and Learning Systems, 2019, 31, 1-14.	7.2	67

#	Article	IF	Citations
2176	Transfer channel pruning for compressing deep domain adaptation models. International Journal of Machine Learning and Cybernetics, 2019, 10, 3129-3144.	2.3	10
2177	A Novel Predictive-Coding-Inspired Variational RNN Model for Online Prediction and Recognition. Neural Computation, 2019, 31, 2025-2074.	1.3	52
2178	Artificial intelligence facilitates drug design in the big data era. Chemometrics and Intelligent Laboratory Systems, 2019, 194, 103850.	1.8	32
2179	Pattern Statistics Network for Classification of High-Resolution SAR Images. Remote Sensing, 2019, 11, 1942.	1.8	3
2180	Efficient Hybrid Descriptor for Face Verification in the Wild Using the Deep Learning Approach. Optical Memory and Neural Networks (Information Optics), 2019, 28, 151-164.	0.4	4
2181	Dynamic reconstruction based representation learning for multivariable process monitoring. Journal of Process Control, 2019, 81, 112-125.	1.7	3
2182	Learning Finite-Dimensional Coding Schemes with Nonlinear Reconstruction Maps. SIAM Journal on Mathematics of Data Science, 2019, 1, 617-642.	1.0	4
2183	Investigating the feasibility of finger identification on capacitive touchscreens using deep learning. , 2019, , .		33
2184	Revisiting User Mobility and Social Relationships in LBSNs: A Hypergraph Embedding Approach. , 2019, , .		168
2185	Industrial Anomaly Detection and Attack Classification Method Based on Convolutional Neural Network. Security and Communication Networks, 2019, 2019, 1-11.	1.0	28
2186	Layer-Wise Pre-Training Low-Rank NMF Model for Mammogram-Based Breast Tumor Classification. Journal of the Operations Research Society of China, 2019, 7, 515-537.	0.9	1
2187	Combining Sentinel-1 and Sentinel-2 Satellite Image Time Series for land cover mapping via a multi-source deep learning architecture. ISPRS Journal of Photogrammetry and Remote Sensing, 2019, 158, 11-22.	4.9	177
2188	Exploiting label information to improve auto-encoding based classifiers. Neurocomputing, 2019, 370, 104-108.	3.5	4
2189	Deep Learning with Big Data: An Emerging Trend. , 2019, , .		7
2190	Multi-representation adaptation network for cross-domain image classification. Neural Networks, 2019, 119, 214-221.	3.3	156
2191	Cell Fault Management Using Machine Learning Techniques. IEEE Access, 2019, 7, 124514-124539.	2.6	30
2192	Cascade embedding model for knowledge graph inference and retrieval. Information Processing and Management, 2019, 56, 102093.	5.4	15
2193	A framework combining DNN and level-set method to segment brain tumor in multi-modalities MR image. Soft Computing, 2019, 23, 9237-9251.	2.1	19

#	ARTICLE	IF	CITATIONS
2194	A gentle introduction to deep learning in medical image processing. Zeitschrift Fur Medizinische Physik, 2019, 29, 86-101.	0.6	344
2196	WAEF: Weighted Aggregation with Enhancement Filter for Visual Object Tracking. Lecture Notes in Computer Science, 2019, , 83-99.	1.0	6
2197	Deep Neural Generative Model of Functional MRI Images for Psychiatric Disorder Diagnosis. IEEE Transactions on Biomedical Engineering, 2019, 66, 2768-2779.	2.5	37
2198	Cross-Modality Feature Learning via Convolutional Autoencoder. ACM Transactions on Multimedia Computing, Communications and Applications, 2019, 15, 1-20.	3.0	9
2199	A semi-supervised auto-encoder using label and sparse regularizations for classification. Applied Soft Computing Journal, 2019, 77, 205-217.	4.1	28
2200	An efficient method of computation offloading in an edge cloud platform. Journal of Parallel and Distributed Computing, 2019, 127, 58-64.	2.7	41
2201	Deep Learning in Medical Ultrasound Analysis: A Review. Engineering, 2019, 5, 261-275.	3.2	459
2202	Adversarial correlated autoencoder for unsupervised multi-view representation learning. Knowledge-Based Systems, 2019, 168, 109-120.	4.0	26
2203	Progressively diffused networks for semantic visual parsing. Pattern Recognition, 2019, 90, 78-86.	5.1	9
2204	Outlier classification using autoencoders: Application for fluctuation driven flows in fusion plasmas. Review of Scientific Instruments, 2019, 90, 013505.	0.6	3
2205	â€œDave...I can assure you ...that itâ€™s going to be all right ...â€•A Definition, Case for, and Survey of Algorithmic Assurances in Human-Autonomy Trust Relationships. ACM Computing Surveys, 2019, 51, 1-37.	16.1	50
2206	Machine Learning and Integrative Analysis of Biomedical Big Data. Genes, 2019, 10, 87.	1.0	208
2207	Learning Robust Auto-Encoders With Regularizer for Linearity and Sparsity. IEEE Access, 2019, 7, 17195-17206.	2.6	9
2208	Automatic Deep Feature Learning via Patch-Based Deep Belief Network for Vertebrae Segmentation in CT Images. Applied Sciences (Switzerland), 2019, 9, 69.	1.3	46
2209	Interest-Related Item Similarity Model Based on Multimodal Data for Top-N Recommendation. IEEE Access, 2019, 7, 12809-12821.	2.6	13
2210	RGB-D Image Multi-Target Detection Method Based on 3D DSF R-CNN. International Journal of Pattern Recognition and Artificial Intelligence, 2019, 33, 1954026.	0.7	14
2211	A Sequential Data Analysis Approach to Detect Emergent Leaders in Small Groups. IEEE Transactions on Multimedia, 2019, 21, 2107-2116.	5.2	16
2212	A practical feature-engineering framework for electricity theft detection in smart grids. Applied Energy, 2019, 238, 481-494.	5.1	107

#	Article	IF	Citations
2213	On the necessity of abstraction. Current Opinion in Behavioral Sciences, 2019, 29, 1-7.	2.0	36
2214	AdverQuil. , 2019, , .		0
2215	The Winning Solution to the IEEE CIG 2017 Game Data Mining Competition. Machine Learning and Knowledge Extraction, 2019, 1, 252-264.	3.2	6
2216	DuPLO: A DUal view Point deep Learning architecture for time series classificatiOn. ISPRS Journal of Photogrammetry and Remote Sensing, 2019, 149, 91-104.	4.9	106
2217	A time series clustering approach for Building Automation and Control Systems. Applied Energy, 2019, 238, 1337-1345.	5.1	28
2218	A proactive task dispatching method based on future bottleneck prediction for the smart factory. International Journal of Computer Integrated Manufacturing, 2019, 32, 278-293.	2.9	42
2219	Knowledge representation learning with entity descriptions, hierarchical types, and textual relations. Information Processing and Management, 2019, 56, 809-822.	5.4	40
2220	A Machine Learning-Based Fast-Forward Solver for Ground Penetrating Radar With Application to Full-Waveform Inversion. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 4417-4426.	2.7	69
2221	EEG Classification of Motor Imagery Using a Novel Deep Learning Framework. Sensors, 2019, 19, 551.	2.1	159
2222	Deep associative neural network for associative memory based on unsupervised representation learning. Neural Networks, 2019, 113, 41-53.	3.3	33
2223	Solving the Sparsity Problem in Recommendations via Cross-Domain Item Embedding Based on Co-Clustering. , 2019, , .		30
2224	Deep learning based personalized recommendation with multi-view information integration. Decision Support Systems, 2019, 118, 58-69.	3.5	91
2225	Bayesian Weight Decay on Bounded Approximation for Deep Convolutional Neural Networks. IEEE Transactions on Neural Networks and Learning Systems, 2019, 30, 2866-2875.	7.2	10
2226	W-MetaPath2Vec: The topic-driven meta-path-based model for large-scaled content-based heterogeneous information network representation learning. Expert Systems With Applications, 2019, 123, 328-344.	4.4	20
2227	An Optimized Network Representation Learning Algorithm Using Multi-Relational Data. Mathematics, 2019, 7, 460.	1.1	0
2228	A Review of Dimensionality Reduction in High-Dimensional Data Using Multi-core and Many-core Architecture. Communications in Computer and Information Science, 2019, , 54-63.	0.4	2
2229	A Lighted Deep Convolutional Neural Network Based Fault Diagnosis of Rotating Machinery. Sensors, 2019, 19, 2381.	2.1	50
2230	NASM: Nonlinearly Attentive Similarity Model for Recommendation System via Locally Attentive Embedding. IEEE Access, 2019, 7, 70689-70700.	2.6	6

#	Article	IF	Citations
2231	Exploring the Potential of Spherical Harmonics and PCVM for Compounds Activity Prediction. International Journal of Molecular Sciences, 2019, 20, 2175.	1.8	2
2232	Using Labeled Autoencoder to Supervise Neural Network Combined with k-Nearest Neighbor for Visual Industrial Process Monitoring. Industrial & Engineering Chemistry Research, 2019, 58, 9952-9958.	1.8	36
2233	Weighted residual fusion with multi-modality features for high-resolution aerial scene classification. Journal of Modern Optics, 2019, 66, 1079-1088.	0.6	0
2234	Representation Learning on Networks: Theories, Algorithms, and Applications. , 2019, , .		3
2235	Cross-domain network representations. Pattern Recognition, 2019, 94, 135-148.	5.1	15
2236	A deep learning framework for Hybrid Heterogeneous Transfer Learning. Artificial Intelligence, 2019, 275, 310-328.	3.9	36
2237	Data-driven ship digital twin for estimating the speed loss caused by the marine fouling. Ocean Engineering, 2019, 186, 106063.	1.9	131
2238	Predicting delay discounting from heterogeneous social media data. Social Network Analysis and Mining, 2019, 9, 1.	1.9	1
2239	Classification and comparison via neural networks. Neural Networks, 2019, 118, 65-80.	3.3	18
2240	Leveraging deep neural networks for anomalyâ€based web application firewall. IET Information Security, 2019, 13, 352-361.	1.1	31
2241	Deep learning approach to multimedia traffic classification based on QoS characteristics. IET Networks, 2019, 8, 145-154.	1.1	4
2242	Deep Multigrained Cascade Forest for Hyperspectral Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 8169-8183.	2.7	39
2243	A Survey on Big Multimedia Data Processing and Management in Smart Cities. ACM Computing Surveys, 2020, 52, 1-29.	16.1	32
2244	Attack Detection for Securing Cyber Physical Systems. IEEE Internet of Things Journal, 2019, 6, 8471-8481.	5.5	51
2245	Multi-task Self-Supervised Learning for Human Activity Detection. , 2019, 3, 1-30.		150
2246	Enhancing Disability Determination Decision Process Through Natural Language Processing. International Journal of Applied Research on Public Health Management, 2019, 4, 15-28.	0.1	2
2247	Deep learning model for unstructured knowledge classification using structural features. Personal and Ubiquitous Computing, 2019, , 1.	1.9	1
2248	Automatic Windowing for MRI With Convolutional Neural Network. IEEE Access, 2019, 7, 68594-68606.	2.6	4

#	Article	IF	Citations
2249	Enhancing Time Series Momentum Strategies Using Deep Neural Networks. SSRN Electronic Journal, 2019, , .	0.4	2
2250	Convolutional neural networks for radar HRRP target recognition and rejection. Eurasip Journal on Advances in Signal Processing, 2019, 2019, .	1.0	67
2251	Towards Unknown Traffic Identification Using Deep Auto-Encoder and Constrained Clustering. Lecture Notes in Computer Science, 2019, , 309-322.	1.0	7
2252	Data-driven reconstruction of nonlinear dynamics from sparse observation. Journal of Computational Physics, 2019, 395, 671-689.	1.9	14
2253	Review of the application of machine learning to the automatic semantic annotation of images. IET Image Processing, 2019, 13, 1232-1245.	1.4	4
2254	A Simple and Efficient Network for Small Target Detection. IEEE Access, 2019, 7, 85771-85781.	2.6	39
2255	Performance assessment of SVM-based classification techniques for the detection of artificial debondings within pavement structures from stepped-frequency A-scan radar data. NDT and E International, 2019, 107, 102128.	1.7	25
2256	Representation learning by hierarchical ELM auto‐encoder with double random hidden layers. IET Computer Vision, 2019, 13, 411-419.	1.3	10
2257	Agent-based cooperative animation for box-manipulation using reinforcement learning. Proceedings of the ACM on Computer Graphics and Interactive Techniques, 2019, 2, 1-18.	1.0	7
2258	Learning Inference Rules from Data. KI - Kunstliche Intelligenz, 2019, 33, 267-278.	2.2	1
2259	Evolving autoencoding structures through genetic programming. Genetic Programming and Evolvable Machines, 2019, 20, 413-440.	1.5	11
2260	Motor current signal analysis using deep neural networks for planetary gear fault diagnosis. Measurement: Journal of the International Measurement Confederation, 2019, 145, 45-54.	2.5	47
2261	A Novel Method for Traffic Sign Recognition Based on DCGAN and MLP With PILAE Algorithm. IEEE Access, 2019, 7, 74602-74611.	2.6	15
2262	Neural Networks and Advanced Algorithms for Intelligent Monitoring in Industry. Lecture Notes in Mobility, 2019, , 173-183.	0.2	3
2263	Automated brain histology classification using machine learning. Journal of Clinical Neuroscience, 2019, 66, 239-245.	0.8	118
2264	An Ad Hoc Random Initialization Deep Neural Network Architecture for Discriminating Malignant Breast Cancer Lesions in Mammographic Images. Contrast Media and Molecular Imaging, 2019, 2019, 1-9.	0.4	18
2265	Machine Learning Techniques for Undertaking Roundabouts in Autonomous Driving. Sensors, 2019, 19, 2386.	2.1	33
2266	Convolutional neural network based heterogeneous transfer learning for remote-sensing scene classification. International Journal of Remote Sensing, 2019, 40, 8506-8527.	1.3	27

#	ARTICLE	IF	CITATIONS
2267	Robust manifold broad learning system for large-scale noisy chaotic time series prediction: A perturbation perspective. Neural Networks, 2019, 117, 179-190.	3.3	31
2268	Can Genetic Programming Do Manifold Learning Too?. Lecture Notes in Computer Science, 2019, , 114-130.	1.0	14
2269	Predicting residential energy consumption using CNN-LSTM neural networks. Energy, 2019, 182, 72-81.	4.5	809
2270	The Generalized Sleep Spindles Detector: A Generative Model Approach on Single-Channel EEGs. Lecture Notes in Computer Science, 2019, , 127-138.	1.0	1
2272	Constructing an Associative Memory System Using Spiking Neural Network. Frontiers in Neuroscience, 2019, 13, 650.	1.4	21
2273	Applied Data Science. , 2019, , .		9
2274	A survey on facial soft biometrics for video surveillance and forensic applications. Artificial Intelligence Review, 2019, 52, 1155-1187.	9.7	17
2275	Deep learning for waveform estimation and imaging in passive radar. IET Radar, Sonar and Navigation, 2019, 13, 915-926.	0.9	9
2276	Cognitive radar antenna selection via deep learning. IET Radar, Sonar and Navigation, 2019, 13, 871-880.	0.9	70
2277	Knowledge Graph Fact Prediction Via Knowledge-Enriched Tensor Factorization. SSRN Electronic Journal, 0, , .	0.4	0
2278	Feature Optimization in Sentiment Analysis by Term Co-occurrence Fitness Evolution (TCFE). International Journal of Information Technology and Web Engineering, 2019, 14, 16-36.	1.2	2
2279	A decision support system for predicting the treatment of ectopic pregnancies. International Journal of Medical Informatics, 2019, 129, 198-204.	1.6	25
2280	Brain Tumor Segmentation Using U-Net and Edge Contour Enhancement. , 2019, , .		4
2281	Comparison of Network Intrusion Detection Performance Using Feature Representation. Communications in Computer and Information Science, 2019, , 463-475.	0.4	12
2282	A RR interval based automated apnea detection approach using residual network. Computer Methods and Programs in Biomedicine, 2019, 176, 93-104.	2.6	52
2283	Unsupervised visual feature learning with spike-timing-dependent plasticity: How far are we from traditional feature learning approaches?. Pattern Recognition, 2019, 93, 418-429.	5.1	20
2284	Exploiting deep convolutional neural networks for a neural-based learning classifier system. Neurocomputing, 2019, 354, 61-70.	3.5	16
2285	Understanding the Brain Function and Emotions. Lecture Notes in Computer Science, 2019, , .	1.0	6

#	Article	IF	Citations
2286	From Bioinspired Systems and Biomedical Applications to Machine Learning. Lecture Notes in Computer Science, 2019, , .	1.0	7
2287	An LSTM-Based Topic Flow Pattern Learning Algorithm and Its Application in Deceptive Review Detection. Advances in Intelligent Systems and Computing, 2019, , 553-561.	0.5	0
2288	Autonomous Deep Learning: Continual Learning Approach for Dynamic Environments. , 2019, , 666-674.		44
2289	A Showcase of the Use of Autoencoders in Feature Learning Applications. Lecture Notes in Computer Science, 2019, , 412-421.	1.0	2
2290	Dual Deep Learning Model for Image Based Smoke Detection. Fire Technology, 2019, 55, 2419-2442.	1.5	33
2291	Deep collective matrix factorization for augmented multi-view learning. Machine Learning, 2019, 108, 1395-1420.	3.4	10
2292	Application of Computer Vision and Deep Learning in Breast Cancer Assisted Diagnosis. , 2019, , .		8
2293	Spectrum Analysis of EEG Signals Using CNN to Model Patientâ€™s Consciousness Level Based on Anesthesiologistsâ€™ Experience. IEEE Access, 2019, 7, 53731-53742.	2.6	43
2294	Discriminant Analysis Deep Neural Networks. , 2019, , .		17
2295	A deep autoencoder feature learning method for process pattern recognition. Journal of Process Control, 2019, 79, 1-15.	1.7	62
2296	Validation of Random Dataset Using an Efficient CNN Model Trained on MNIST Handwritten Dataset. , 2019, , .		12
2297	Learning Discriminative Features from Spectrograms Using Center Loss for Speech Emotion Recognition. , 2019, , .		33
2298	Classifying Periodic Astrophysical Phenomena from non-survey optimized variable-cadence observational data. Expert Systems With Applications, 2019, 131, 94-115.	4.4	4
2299	Deep shared representation learning for weather elements forecasting. Knowledge-Based Systems, 2019, 179, 120-128.	4.0	48
2300	Automating Autoencoder Architecture Configuration: An Evolutionary Approach. Lecture Notes in Computer Science, 2019, , 339-349.	1.0	4
2301	Anomaly detection for time series using temporal convolutional networks and Gaussian mixture model. Journal of Physics: Conference Series, 2019, 1187, 042111.	0.3	8
2302	Web-Based Model for Apparel Classification. SSRN Electronic Journal, 0, , .	0.4	1
2304	Evaluation of deep learning in non-coding RNA classification. Nature Machine Intelligence, 2019, 1, 246-256.	8.3	105

#	Article	IF	Citations
2305	Lightweight Deep Residual CNN for Fault Diagnosis of Rotating Machinery Based on Depthwise Separable Convolutions. IEEE Access, 2019, 7, 57023-57036.	2.6	61
2306	Automated Machine Learning. The Springer Series on Challenges in Machine Learning, 2019, , .	10.4	633
2307	Automatic classification of focal liver lesions based on MRI and risk factors. PLoS ONE, 2019, 14, e0217053.	1.1	47
2308	A Trimmed Clustering-Based l1-Principal Component Analysis Model for Image Classification and Clustering Problems with Outliers. Applied Sciences (Switzerland), 2019, 9, 1562.	1.3	2
2309	Deep Learning Meets Hyperspectral Image Analysis: A Multidisciplinary Review. Journal of Imaging, 2019, 5, 52.	1.7	190
2310	Towards low-complexity wireless technology classification across multiple environments. Ad Hoc Networks, 2019, 91, 101881.	3.4	26
2311	RGB-D-Based Object Recognition Using Multimodal Convolutional Neural Networks: A Survey. IEEE Access, 2019, 7, 43110-43136.	2.6	38
2312	Hierarchy-aware Loss Function on a Tree Structured Label Space for Audio Event Detection. , 2019, , .		14
2313	Exactly Decoding a Vector through Relu Activation. , 2019, , .		1
2314	Seismic Event and Phase Detection Using Time–Frequency Representation and Convolutional Neural Networks. Seismological Research Letters, 2019, 90, 481-490.	0.8	78
2316	Parallel Processing of Sound Dynamics across Mouse Auditory Cortex via Spatially Patterned Thalamic Inputs and Distinct Areal Intracortical Circuits. Cell Reports, 2019, 27, 872-885.e7.	2.9	88
2317	Deep Representation Learning Characterized by Inter-Class Separation for Image Clustering. , 2019, , .		6
2318	Feasibility of deep learning for predicting live birth from a blastocyst image in patients classified by age. Reproductive Medicine and Biology, 2019, 18, 190-203.	1.0	32
2319	Feasibility of artificial intelligence for predicting live birth without aneuploidy from a blastocyst image. Reproductive Medicine and Biology, 2019, 18, 204-211.	1.0	41
2320	An Improved Demand Forecasting Model Using Deep Learning Approach and Proposed Decision Integration Strategy for Supply Chain. Complexity, 2019, 2019, 1-15.	0.9	68
2321	Deep and Embedded Learning Approach for Traffic Flow Prediction in Urban Informatics. IEEE Transactions on Intelligent Transportation Systems, 2019, 20, 3927-3939.	4.7	100
2322	Fringe Pattern Improvement and Super-Resolution Using Deep Learning in Digital Holography. IEEE Transactions on Industrial Informatics, 2019, 15, 6179-6186.	7.2	43
2324	Image analysis-based closed loop quality control for additive manufacturing with fused filament fabrication. Journal of Manufacturing Systems, 2019, 51, 75-86.	7.6	122

#	Article	IF	Citations
2325	Ensemble RBM-based classifier using fuzzy integral for big data classification. International Journal of Machine Learning and Cybernetics, 2019, 10, 3327-3337.	2.3	9
2326	A Survey of Techniques for Mobile Service Encrypted Traffic Classification Using Deep Learning. IEEE Access, 2019, 7, 54024-54033.	2.6	92
2327	Extending technological trajectories to latest technological changes by overcoming time lags. Technological Forecasting and Social Change, 2019, 143, 142-153.	6.2	17
2328	A Penalized Autoencoder Approach for Nonlinear Independent Component Analysis. , 2019, , .		1
2329	Identification Method for Voltage Sags Based on K-means-Singular Value Decomposition and Least Squares Support Vector Machine. Energies, 2019, 12, 1137.	1.6	19
2330	Classification of Brain Tumors Using Deep Features Extracted Using CNN. Journal of Physics: Conference Series, 2019, 1172, 012016.	0.3	26
2331	A Comprehensive Survey of Prognostics and Health Management Based on Deep Learning for Autonomous Ships. IEEE Transactions on Reliability, 2019, 68, 720-740.	3.5	59
2332	Multi-Scale Convolutional Neural Networks Aggregation For Hyperspectral Images Classification. , 2019, , .		4
2333	Diagnosing and Classification Tumors and MS Simultaneous of Magnetic Resonance Images Using Convolution Neural Network. , 2019, , .		18
2334	Unsupervised Spatial–Spectral Feature Learning by 3D Convolutional Autoencoder for Hyperspectral Classification. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 6808-6820.	2.7	216
2335	Bird Species Recognition Using Unsupervised Modeling of Individual Vocalization Elements. IEEE/ACM Transactions on Audio Speech and Language Processing, 2019, 27, 932-947.	4.0	32
2336	Discriminative Pattern Mining for Breast Cancer Histopathology Image Classification via Fully Convolutional Autoencoder. IEEE Access, 2019, 7, 36433-36445.	2.6	39
2337	Broad Learning Model Based on Enhanced Features Learning. IEEE Access, 2019, 7, 42536-42550.	2.6	13
2338	A novel framework for face recognition using robust local representation–based classification. International Journal of Distributed Sensor Networks, 2019, 15, 155014771983608.	1.3	0
2339	Recent Progress on Generative Adversarial Networks (GANs): A Survey. IEEE Access, 2019, 7, 36322-36333.	2.6	375
2340	A bilevel framework for joint optimization of session compensation and classification for speaker identification. , 2019, 89, 104-115.		7
2341	Learning Multi-Domain Adversarial Neural Networks for Text Classification. IEEE Access, 2019, 7, 40323-40332.	2.6	17
2342	A Low Power Fall Sensing Technology Based on FD-CNN. IEEE Sensors Journal, 2019, 19, 5110-5118.	2.4	33

#	ARTICLE	IF	CITATIONS
2343	On the Use of U-Net for Dominant Melody Estimation in Polyphonic Music. , 2019, , .		2
2344	Decreasing the Size of the Restricted Boltzmann Machine. Neural Computation, 2019, 31, 784-805.	1.3	3
2345	A deep learning ball tracking system in soccer videos. Opto-electronics Review, 2019, 27, 58-69.	2.4	40
2346	Clusteringâ€Based Resource Allocation mechanism in Long Term Evolution Advanced networks with autoâ€encoder for feature learning. Transactions on Emerging Telecommunications Technologies, 2019, 30, e3591.	2.6	0
2347	Combining handcrafted features with latent variables in machine learning for prediction of radiationâ€induced lung damage. Medical Physics, 2019, 46, 2497-2511.	1.6	38
2348	Image-based process monitoring using deep learning framework. Chemometrics and Intelligent Laboratory Systems, 2019, 189, 8-17.	1.8	33
2349	Deep learning and its application in geochemical mapping. Earth-Science Reviews, 2019, 192, 1-14.	4.0	214
2350	Representation Interpretation with Spatial Encoding and Multimodal Analytics. , 2019, , .		9
2351	Domain-Specific Knowledge Graph Construction. SpringerBriefs in Computer Science, 2019, , .	0.2	58
2352	Multiscale Superpixel Segmentation With Deep Features for Change Detection. IEEE Access, 2019, 7, 36600-36616.	2.6	49
2353	Recognition and Processing of Speech Signals Using Neural Networks. Circuits, Systems, and Signal Processing, 2019, 38, 3454-3481.	1.2	7
2354	Regression convolutional neural network for improved simultaneous EMG control. Journal of Neural Engineering, 2019, 16, 036015.	1.8	110
2355	SCGAN: Disentangled Representation Learning by Adding Similarity Constraint on Generative Adversarial Nets. IEEE Access, 2019, 7, 147928-147938.	2.6	14
2357	Robot Motion Planning in Learned Latent Spaces. IEEE Robotics and Automation Letters, 2019, 4, 2407-2414.	3.3	74
2358	A New Framework to Train Autoencoders Through Non-Smooth Regularization. IEEE Transactions on Signal Processing, 2019, 67, 1860-1874.	3.2	11
2359	Conceptual Representations for Computational Concept Creation. ACM Computing Surveys, 2020, 52, 1-33.	16.1	13
2360	A Novel Local Human Visual Perceptual Texture Description with Key Feature Selection for Texture Classification. Mathematical Problems in Engineering, 2019, 2019, 1-20.	0.6	7
2361	Clinical Natural Language Processing with Deep Learning. , 2019, , 147-171.		20

#	Article	IF	Citations
2362	Relative Principal Components Analysis: Application to Analyzing Biomolecular Conformational Changes. Journal of Chemical Theory and Computation, 2019, 15, 2166-2178.	2.3	13
2363	Improving Precipitation Estimation Using Convolutional Neural Network. Water Resources Research, 2019, 55, 2301-2321.	1.7	142
2364	Temporal Convolutional Neural Network for the Classification of Satellite Image Time Series. Remote Sensing, 2019, 11, 523.	1.8	306
2365	Research in Data Science. Association for Women in Mathematics Series, 2019, , .	0.1	0
2366	Automated identification and grading system of diabetic retinopathy using deep neural networks. Knowledge-Based Systems, 2019, 175, 12-25.	4.0	185
2367	A novel deep learning based framework for the detection and classification of breast cancer using transfer learning. Pattern Recognition Letters, 2019, 125, 1-6.	2.6	516
2368	Improving electron micrograph signal-to-noise with an atrous convolutional encoder-decoder. Ultramicroscopy, 2019, 202, 18-25.	0.8	23
2369	A parallel spatiotemporal deep learning network for highway traffic flow forecasting. International Journal of Distributed Sensor Networks, 2019, 15, 155014771983279.	1.3	11
2370	PixelBNN: Augmenting the PixelCNN with Batch Normalization and the Presentation of a Fast Architecture for Retinal Vessel Segmentation. Journal of Imaging, 2019, 5, 26.	1.7	44
2371	Factorized discriminative conditional variational auto-encoder for radar HRRP target recognition. Signal Processing, 2019, 158, 176-189.	2.1	54
2372	Reconstruction of Hidden Representation for Robust Feature Extraction. ACM Transactions on Intelligent Systems and Technology, 2019, 10, 1-24.	2.9	8
2373	Image set classification using candidate sets selection and improved reverse training. Neurocomputing, 2019, 341, 60-69.	3.5	14
2374	A Comprehensive Survey of Vision-Based Human Action Recognition Methods. Sensors, 2019, 19, 1005.	2.1	294
2375	Environmental sound processing and its applications. IEEJ Transactions on Electrical and Electronic Engineering, 2019, 14, 340-351.	0.8	3
2376	A State-of-the-Art Survey on Deep Learning Theory and Architectures. Electronics (Switzerland), 2019, 8, 292.	1.8	954
2377	Bi-level multi-objective evolution of a Multi-Layered Echo-State Network Autoencoder for data representations. Neurocomputing, 2019, 341, 195-211.	3.5	18
2378	FLOating-Window Projective Separator (FloWPS): A Data Trimming Tool for Support Vector Machines (SVM) to Improve Robustness of the Classifier. Frontiers in Genetics, 2018, 9, 717.	1.1	19
2379	A comprehensive survey on computer vision based approaches for automatic identification of products in retail store. Image and Vision Computing, 2019, 86, 45-63.	2.7	42

#	Article	IF	Citations
2381	Clustering single-cell RNA-seq data with a model-based deep learning approach. Nature Machine Intelligence, 2019, 1, 191-198.	8.3	189
2382	Analysis of Simulated Crowd Flow Exit Data: Visualization, Panic Detection and Exit Time Convergence, Attribution, and Estimation. Association for Women in Mathematics Series, 2019, , 239-281.	0.1	0
2383	A transferability evaluation model for intellectual property. Computers and Industrial Engineering, 2019, 131, 344-355.	3.4	19
2384	Document-level attention-based BiLSTM-CRF incorporating disease dictionary for disease named entity recognition. Computers in Biology and Medicine, 2019, 108, 122-132.	3.9	78
2385	Extracting Keyphrases from Research Papers Using Word Embeddings. Lecture Notes in Computer Science, 2019, , 54-67.	1.0	2
2386	Street‑segment‑based salt and abrasive prediction for winter maintenance using machine learning and GIS. Transactions in GIS, 2019, 23, 48-69.	1.0	9
2387	Automatically Segmenting the Left Atrium from Cardiac Images Using Successive 3D U-Nets and a Contour Loss. Lecture Notes in Computer Science, 2019, , 221-229.	1.0	22
2388	Entity Resolution. SpringerBriefs in Computer Science, 2019, , 33-57.	0.2	1
2389	Ecosystems. SpringerBriefs in Computer Science, 2019, , 75-87.	0.2	0
2390	Deep Representation Learning for Social Network Analysis. Frontiers in Big Data, 2019, 2, 2.	1.8	42
2391	Assaying neural activity of children during video game play in public spaces: a deep learning approach. Journal of Neural Engineering, 2019, 16, 036028.	1.8	18
2392	Convolutional neural network: Deep learning-based classification of building quality problems. Advanced Engineering Informatics, 2019, 40, 46-57.	4.0	88
2393	Dense U-net Based on Patch-Based Learning for Retinal Vessel Segmentation. Entropy, 2019, 21, 168.	1.1	140
2394	Making sense of kernel spaces in neural learning. Computer Speech and Language, 2019, 58, 51-75.	2.9	1
2395	Deep neural-kernel blocks. Neural Networks, 2019, 116, 46-55.	3.3	15
2396	A New Snapshot Ensemble Convolutional Neural Network for Fault Diagnosis. IEEE Access, 2019, 7, 32037-32047.	2.6	32
2397	A Multi-Task Learning Model for Better Representation of Clothing Images. IEEE Access, 2019, 7, 34499-34507.	2.6	8
2398	A Technical Review of Convolutional Neural Network-Based Mammographic Breast Cancer Diagnosis. Computational and Mathematical Methods in Medicine, 2019, 2019, 1-16.	0.7	75

#	Article	IF	Citations
2399	Causability and explainability of artificial intelligence in medicine. Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery, 2019, 9, e1312.	4.6	647
2400	Galaxy morphology classification with deep convolutional neural networks. Astrophysics and Space Science, 2019, 364, 1.	0.5	55
2401	GPR target detection using a neural network classifier designed by a multi-objective genetic algorithm. Applied Soft Computing Journal, 2019, 79, 310-325.	4.1	41
2402	A deep learning approach for anomaly detection based on SAE and LSTM in mechanical equipment. International Journal of Advanced Manufacturing Technology, 2019, 103, 499-510.	1.5	101
2403	Machine learning approaches and their current application in plant molecular biology: A systematic review. Plant Science, 2019, 284, 37-47.	1.7	66
2404	On bulk/boundary duality and deep networks. AIP Conference Proceedings, 2019, , .	0.3	1
2405	Deep Neural Network Hardware Implementation Based on Stacked Sparse Autoencoder. IEEE Access, 2019, 7, 40674-40694.	2.6	31
2406	Advanced Topic: Knowledge Graph Completion. SpringerBriefs in Computer Science, 2019, , 59-74.	0.2	1
2407	An Adversarial Neuro-Tensorial Approach for Learning Disentangled Representations. International Journal of Computer Vision, 2019, 127, 743-762.	10.9	16
2408	An Encoding Scheme Capturing Generic Priors and Properties of Amino Acids Improves Protein Classification. IEEE Access, 2019, 7, 7348-7356.	2.6	1
2409	Multi-layer Feed-forward Neural Network Deep Learning Control with Hybrid Position and Virtual-force Algorithm for Mobile Robot Obstacle Avoidance. International Journal of Control, Automation and Systems, 2019, 17, 1007-1018.	1.6	28
2410	Data Science for Healthcare. , 2019, , .		17
2411	The Role of Deep Learning in Improving Healthcare. , 2019, , 75-116.		7
2412	An evidential analytics for buried information in big data samples: Case study of semiconductor manufacturing. Information Sciences, 2019, 486, 190-203.	4.0	17
2413	A scalable attribute-aware network embedding system. Neurocomputing, 2019, 339, 279-291.	3.5	12
2414	Learning multi-layer coarse-to-fine representations for large-scale image classification. Pattern Recognition, 2019, 91, 175-189.	5.1	13
2415	Artificial intelligence: a survey on evolution, models, applications and future trends. Journal of Management Analytics, 2019, 6, 1-29.	1.6	241
2416	An Optical Communication's Perspective on Machine Learning and Its Applications. Journal of Lightwave Technology, 2019, 37, 493-516.	2.7	210

#	ARTICLE	IF	CITATIONS
2417	An Unsupervised Reconstruction-Based Fault Detection Algorithm for Maritime Components. IEEE Access, 2019, 7, 16101-16109.	2.6	28
2418	Multi-Scale Convolutional Neural Networks for Space Infrared Point Objects Discrimination. IEEE Access, 2019, 7, 28113-28123.	2.6	14
2419	OCEAN: Object-centric arranging network for self-supervised visual representations learning. Expert Systems With Applications, 2019, 125, 281-292.	4.4	4
2420	Validation of multitask artificial neural networks to model desiccant wheels activated at low temperature. International Journal of Refrigeration, 2019, 100, 434-442.	1.8	6
2421	A Novel Hierarchical Algorithm for Bearing Fault Diagnosis Based on Stacked LSTM. Shock and Vibration, 2019, 2019, 1-10.	0.3	47
2422	Barley yield and fertilization analysis from UAV imagery: a deep learning approach. International Journal of Remote Sensing, 2019, 40, 2493-2516.	1.3	37
2423	Pose Guided Human Image Synthesis by View Disentanglement and Enhanced Weighting Loss. Lecture Notes in Computer Science, 2019, , 380-394.	1.0	4
2424	Bibliometric-enhanced information retrieval: a novel deep feature engineering approach for algorithm searching from full-text publications. Scientometrics, 2019, 119, 257-277.	1.6	37
2425	Active semi-supervised learning based on self-expressive correlation with generative adversarial networks. Neurocomputing, 2019, 345, 103-113.	3.5	41
2426	Deep divergence-based approach to clustering. Neural Networks, 2019, 113, 91-101.	3.3	32
2427	Convolutional neural network in network (CNNiN): hyperspectral image classification and dimensionality reduction. IET Image Processing, 2019, 13, 246-253.	1.4	24
2428	Underwater target classification at greater depths using deep neural network with joint multiple€domain feature. IET Radar, Sonar and Navigation, 2019, 13, 484-491.	0.9	11
2429	A Hierarchical Deep Domain Adaptation Approach for Fault Diagnosis of Power Plant Thermal System. IEEE Transactions on Industrial Informatics, 2019, 15, 5139-5148.	7.2	122
2430	Predicting Gene Ontology Function of Human MicroRNAs by Integrating Multiple Networks. Frontiers in Genetics, 2019, 10, 3.	1.1	44
2431	Deep Learning Based Analysis of Histopathological Images of Breast Cancer. Frontiers in Genetics, 2019, 10, 80.	1.1	175
2432	Deep Learning Based Handwritten Chinese Character and Text Recognition. Cognitive Computation Trends, 2019, , 57-88.	1.7	2
2433	Detector Monitoring with Artificial Neural Networks at the CMS Experiment at the CERN Large Hadron Collider. Computing and Software for Big Science, 2019, 3, 1.	1.3	9
2434	Comparison of convolutional neural networks for landslide susceptibility mapping in Yanshan County, China. Science of the Total Environment, 2019, 666, 975-993.	3.9	303

#	Article	IF	Citations
2435	Deep Belief Network Modeling for Automatic Liver Segmentation. IEEE Access, 2019, 7, 20585-20595.	2.6	82
2436	Artificial Intelligence in Cardiothoracic Radiology. American Journal of Roentgenology, 2019, 212, 997-1001.	1.0	12
2437	Place niche and its regional variability: Measuring spatial context patterns for points of interest with representation learning. Computers, Environment and Urban Systems, 2019, 75, 146-160.	3.3	26
2438	Knowledge graph fact prediction via knowledge-enriched tensor factorization. Web Semantics, 2019, 59, 100497.	2.2	12
2439	De Novo Molecular Design by Combining Deep Autoencoder Recurrent Neural Networks with Generative Topographic Mapping. Journal of Chemical Information and Modeling, 2019, 59, 1182-1196.	2.5	93
2440	CNN Prediction of Future Disease Activity for Multiple Sclerosis Patients from Baseline MRI and Lesion Labels. Lecture Notes in Computer Science, 2019, , 57-69.	1.0	4
2441	Deep learning-based feature engineering methods for improved building energy prediction. Applied Energy, 2019, 240, 35-45.	5.1	180
2442	Adversarially Approximated Autoencoder for Image Generation and Manipulation. IEEE Transactions on Multimedia, 2019, 21, 2387-2396.	5.2	55
2443	Neural Tensor Factorization for Temporal Interaction Learning. , 2019, , .		51
2444	FRMN - A Face Recognition Model Based on Convolutional Neural Network. IOP Conference Series: Materials Science and Engineering, 2019, 585, 012101.	0.3	3
2445	Leveraging Semantic Embeddings for Safety-Critical Applications. , 2019, , .		3
2446	Toward Packet Routing with Fully-distributed Multi-agent Deep Reinforcement Learning. , 2019, , .		17
2447	Intrusion Detection System Using Convolutional Neuronal Networks: A Cognitive Computing Approach for Anomaly Detection based on Deep Learning. , 2019, , .		4
2448	Research on Fast Target Detection And Classification Algorithm for Passive Millimeter Wave Imaging. , 2019, , .		1
2449	Training auto-encoders effectively via eliminating task-irrelevant input variables. International Journal of Computational Science and Engineering, 2019, 18, 332.	0.4	1
2450	Perceptual maps of Turkish airline services for different periods using supervised machine learning approach and multidimensional scaling. International Journal of Sustainable Aviation, 2019, 5, 205.	0.1	3
2451	Hyperprior Induced Unsupervised Disentanglement of Latent Representations. Proceedings of the AAAI Conference on Artificial Intelligence, 2019, 33, 3175-3182.	3.6	9
2452	A comparative study of text mining in big data analytics using deep learning and other machine learning algorithms. International Journal of Hybrid Intelligence, 2019, 1, 163.	0.1	0

#	Article	IF	Citations
2453	ASPW-DRL: assembly sequence planning for workpieces via a deep reinforcement learning approach. Assembly Automation, 2019, 40, 65-75.	1.0	11
2454	Dual Low-Rank Decompositions for Robust Cross-View Learning. IEEE Transactions on Image Processing, 2019, 28, 194-204.	6.0	10
2455	Back-propagation Based Contribution for nonlinear fault diagnosis. , 2019, , .		0
2456	Image Caption Model Based on Multi-Head Attention and Encoder-Decoder Framework. , 2019, , .		1
2457	A comparison of methods for link sign prediction with signed network embeddings. , 2019, , .		1
2458	Special Session: Automated Driving 2. , 2019, , .		0
2459	Detecting Selected Network Covert Channels Using Machine Learning. , 2019, , .		6
2460	Issues with High Volatage Measurement and its Mitigation. , 2019, , .		1
2461	Streaming 1.9 Billion Hypersparse Network Updates per Second with D4M. , 2019, , .		11
2462	Research on Point Cloud Power Line Segmentation and fitting algorithm. , 2019, , .		2
2463	Feedback Learning for Improving the Robustness of Neural Networks. , 2019, , .		2
2464	Fast Self-Tuning Decentralized Variable Frequency Optimal Controller Design for Three-Phase Embedded Grids. , 2019, , .		2
2465	Subtractive Perceptrons for Learning Images: A Preliminary Report. , 2019, , .		0
2467	Non-invasive Measurement of Wave Reflections in the Human Umbilical Artery Using Ultrasound. , 2019, , .		1
2468	Anomalous Atmospheric Phase Screen Compensation in Ground-Based SAR Over Mountainous Area. , 2019, , .		5
2469	Virtual Fence Moving Algorithm for Circulated Grazing. , 2019, , .		0
2470	The Intelligent Recognition of the Disaster Damage of Distribution Network Detected by UAV. , 2019, , .		2
2471	MDLDA: A New Multi-Dimension Topic Approach. , 2019, , .		0

#	Article	IF	Citations
2472	Balanced Image Data Based Ensemble of Convolutional Neural Networks. , 2019, , .		2
2473	Convolutional Neural Network Based Up-Sampling for Depth Video Intra Coding. , 2019, , .		4
2474	Multi-column Deep Neural Network Based On Particle Swarm Optimization. , 2019, , .		2
2475	Load Balancing Scheme for the Public Cloud using Reinforcement Learning with Raven Roosting Optimization Policy (RROP). , 2019, , .		4
2477	A Design of Data Path Based on CMOS Logic for a 72-Gb/s PAM-4 Transmitter in 28-nm CMOS. , 2019, , .		0
2478	A Review of Deep Learning Approaches for Image Analysis. , 2019, , .		6
2479	RegCNN: A Deep Multi-output Regression Method for Wastewater Treatment. , 2019, , .		4
2480	SERA 2019 Message from Conference Chair. , 2019, , .		0
2481	Analysing the power transformer temperature limitation for avoidance of bubble formation. High Voltage, 2019, 4, 210-216.	2.7	33
2482	Development of Fault Location for Distributed Parameter Transmission Lines of a Power System. , 2019, , .		6
2483	Adaptive Deep Learning based Time-Varying Volume Compression. , 2019, , .		2
2484	A Redistribution Method of CT Image HU Value. , 2019, , .		0
2485	Sequential Information Bottleneck Network for RUL Prediction. , 2019, , .		2
2486	On the Asymptotic Sample Complexity of HGR Maximal Correlation Functions in Semi-supervised Learning. , 2019, , .		2
2487	Inpatient2Vec: Medical Representation Learning for Inpatients. , 2019, , .		10
2488	Space Shift Keying for Molecular Communication: Theory and Experiment. , 2019, , .		16
2489	Disentangled Representation of Data Distributions in Scatterplots. , 2019, , .		5
2490	Sensor Fail-Safe of PMSM Current Control System By Utilizing Current And Position State Estimation Techniques. , 2019, , .		1

#	Article	IF	Citations
2491	Location Embedding and Deep Convolutional Neural Networks for Next Location Prediction. , 2019, , .		11
2492	A three-stage learning algorithm for deep multilayer perceptron with effective weight initialisation based on sparse auto-encoder. Artificial Intelligence Research, 2019, 8, 41.	0.3	1
2493	Optimizing Variational Graph Autoencoder for Community Detection. , 2019, , .		5
2494	Improvement of Noise Suppression Performance of SEGAN by Sparse Latent Vectors. , 2019, , .		1
2495	Deep Learning-Based Encoder for One-Bit Quantization. , 2019, , .		2
2496	How to Improve CNN-Based 6-DoF Camera Pose Estimation. , 2019, , .		7
2497	IES 2019 Keynote Speaker. , 2019, , .		0
2498	ICAEE 2019 ReadMe. , 2019, , .		0
2499	Regularization Learning for Image Recognition. , 2019, , .		0
2500	Hybrid Method for Moving Object Exploration in Video Surveillance. , 2019, , .		7
2501	Multi-view Outlier Detection in Deep Intact Space. , 2019, , .		17
2502	motif2vec: Motif Aware Node Representation Learning for Heterogeneous Networks. , 2019, , .		16
2504	GPU Acceleration of Communication Avoiding Chebyshev Basis Conjugate Gradient Solver for Multiphase CFD Simulations. , 2019, , .		6
2505	Grasping Novel Objects by Semi-supervised Domain Adaptation. , 2019, , .		0
2506	Loss Functions Forcing Cluster Separations for Multi-class Classification Using Deep Neural Networks. , 2019, , .		2
2507	Low-Complexity III-V Circuitry for Millimeter Wave Communication and Radar. , 2019, , .		0
2508	Method Based on Chinese Characteristic Data. , 2019, , .		0
2510	An Approach to Suppress Low-Frequency Oscillation in Traction Network of High-Speed Railway Based on Improved Sliding Mode Variable Structure and Passive-Based Control. , 2019, , .		1

#	ARTICLE	IF	CITATIONS
2511	State Representation Learning with Robotic Priors for Partially Observable Environments. , 2019, , .		5
2512	Session Chairs. , 2019, , .		0
2513	Using Computational Intelligence for Smart Device Operation Monitoring. , 2019, , .		1
2514	Variational Adversarial Active Learning. , 2019, , .		252
2515	ICA-SYMP 2019 Front Matter. , 2019, , .		0
2516	Realâ€time stochastic operation strategy of a microgrid using approximate dynamic programmingâ€based spatiotemporal decomposition approach. IET Renewable Power Generation, 2019, 13, 3061-3070.	1.7	13
2518	E-learning and Flipped classroom in Inclusive Education Course Design for Teachers Training. , 2019, , .		2
2519	Salient Object Detection based on Multiple Priors Fusion*. , 2019, , .		1
2520	All-Digital Current-Sensorless Multi-Mode DC-DC Converter for Battery Powered Applications. , 2019, , .		0
2521	Multiple Classifier Framework System for Fast Sequential Prediction of Breast Cancer using Deep Learning Models. , 2019, , .		2
2522	Retrieval of Horizontal Visibility Using MODIS Data: A Deep Learning Approach. Atmosphere, 2019, 10, 740.	1.0	1
2523	Unconventional Public Transport Anonymous Data Collection employing Artificial Intelligence. , 2019, , .		3
2524	Signal Detection for Full-duplex Cognitive Underwater Acoustic Communications with SIC Using Model-Driven Deep Learning Network. , 2019, , .		6
2525	Artificial Intelligence and its Impact on the Fourth Industrial Revolution: A Review. International Journal of Artificial Intelligence & Applications, 2019, 10, 41-48.	0.3	6
2526	FaceColor: A Face Beauty Recogonition Model Based on Convolutional Neural Networks. , 2019, , .		0
2527	Inferring Concept Prerequisite Relations from Online Educational Resources. Proceedings of the AAAI Conference on Artificial Intelligence, 2019, 33, 9589-9594.	3.6	33
2528	Local Image Feature Extraction using Stacked-Autoencoder in the Bag-of-Visual Word modelling of Images. , 2019, , .		1
2529	Bayes-Factor-VAE: Hierarchical Bayesian Deep Auto-Encoder Models for Factor Disentanglement. , 2019, , .		12

#	Article	IF	Citations
2530	Hierarchical Open-Set Object Detection in Unseen Data. Symmetry, 2019, 11, 1271.	1.1	1
2531	Daily life patients sentiment analysis model based on well-encoded embedding vocabulary for related-medication text. , 2019, , .		10
2532	Representation learning for automated spectroscopic redshift estimation. Astronomy and Astrophysics, 2019, 625, A73.	2.1	2
2533	Time Series Representation Learning Applications for Power Analytics. , 2019, , .		0
2534	Cognitive Radar for Classification. IEEE Aerospace and Electronic Systems Magazine, 2019, 34, 30-38.	2.3	22
2535	A new information system for prioritisation of product quality improvement. AIP Conference Proceedings, 2019, , .	0.3	2
2536	Continuous Incident Triage for Large-Scale Online Service Systems. , 2019, , .		41
2537	Effects of Reward Terms in Agent-Based Box-Manipulation Animation Using Deep Reinforcement Learning. , 2019, , .		0
2538	Learning to Transfer Examples for Partial Domain Adaptation. , 2019, , .		150
2539	Hierarchical Disentanglement of Discriminative Latent Features for Zero-Shot Learning. , 2019, , .		36
2540	Helping the Visually Impaired See via Image Multi-labeling Based on SqueezeNet CNN. Applied Sciences (Switzerland), 2019, 9, 4656.	1.3	23
2541	Bearing Fault Diagnosis Based on Deep Semi-supervised Small Sample Classifier. , 2019, , .		2
2542	Representation Learning for Emotion Recognition from Smartphone Keyboard Interactions. , 2019, , .		5
2543	The Daily Container Volumes Prediction of Storage Yard in Port with Long Short-Term Memory Recurrent Neural Network. Journal of Advanced Transportation, 2019, 2019, 1-11.	0.9	22
2544	Congestion Graphs for Automated Time Predictions. Proceedings of the AAAI Conference on Artificial Intelligence, 2019, 33, 4854-4861.	3.6	13
2545	Uncovering low-dimensional structure in high-dimensional representations of long-term recordings in people with epilepsy. , 2019, 2019, 2246-2251.		0
2546	A Machine Learning Approach to Detection of Geomagnetically Induced Currents in Power Grids. , 2019, , .		7
2547	A Computer Vision Based Beamforming Scheme for Millimeter Wave Communication in LOS Scenarios. , 2019, , .		8

#	Article	IF	Citations
2548	Stored in Memory. IEEE Annals of the History of Computing, 2019, 41, 64-65.	0.2	1
2549	A Survey of Vehicle Re-Identification Based on Deep Learning. IEEE Access, 2019, 7, 172443-172469.	2.6	34
2550	Nonlinear Frequency Conversion of Broadband Mid-IR Laser Radiation. , 2019, , .		0
2551	Three-Dimensional Simulation for Training Autonomous Vehicles in Smart City Environments. , 2019, , .		1
2552	On the Use of Built-In Temperature Sensors to Monitor Aging in RF Circuits. , 2019, , .		0
2553	FineGAN: Unsupervised Hierarchical Disentanglement for Fine-Grained Object Generation and Discovery. , 2019, , .		68
2554	Lightweight Convolutional Neural Network for Breast Cancer Classification Using RNA-Seq Gene Expression Data. IEEE Access, 2019, 7, 185338-185348.	2.6	42
2555	Trastuzumabâ€‘conjugated nanoparticles composed of poly(butylene adipateâ€‹*co* â€‌butylene) Tj ETQq1 1 0.784314 rgBT /Overl Nanobiotechnology, 2019, 13, 829-833.	1.9	4
2556	Complementary Neural Networks for Managing Innovation Projects. , 2019, , .		2
2557	A Random Matrix Analysis and Optimization Framework to Large Dimensional Transfer Learning. , 2019, , .		1
2558	ARM: An Accelerator for Resource Allocation in Mobile Edge Computing. , 2019, , .		1
2559	Identity From Here, Pose From There: Self-Supervised Disentanglement and Generation of Objects Using Unlabeled Videos. , 2019, , .		11
2560	A Learned Representation for Scalable Vector Graphics. , 2019, , .		43
2561	Geometric Disentanglement for Generative Latent Shape Models. , 2019, , .		32
2562	Generatively Inferential Co-Training for Unsupervised Domain Adaptation. , 2019, , .		15
2563	Investigating Convolutional Neural Networks using Spatial Orderness. , 2019, , .		0
2564	Research on the Real-Time Rendering of Global Illumination of the Virtual Reality System Based on Cloud Computing. , 2019, , .		0
2565	A Closer Look at Disentangling in Î²-VAE. , 2019, , .		8

#	Article	IF	Citations
2566	Evidence Transfer for Improving Clustering Tasks Using External Categorical Evidence. , 2019, , .		1
2567	Screen Intelligence Engine: ML based method for predicting IoT devices using screen contents. , 2019, , .		1
2568	Convolutional neural network-based coarse initial position estimation of a monocular camera in large-scale 3D light detection and ranging maps. International Journal of Advanced Robotic Systems, 2019, 16, 172988141989351.	1.3	2
2569	Deep Learning for Visual SLAM in Transportation Robotics: A review. Transportation Safety and Environment, 2019, 1, 177-184.	1.1	29
2570	Predicting Invasive Ductal Carcinoma in breast histology images using Convolutional Neural Network. , 2019, , .		24
2571	Radar Based Object Recognition with Convolutional Neural Network. , 2019, , .		0
2572	One-Shot Neural Architecture Search via Self-Evaluated Template Network. , 2019, , .		105
2573	Self-Supervised Representation Learning via Neighborhood-Relational Encoding. , 2019, , .		27
2574	Disentangling Pose from Appearance in Monochrome Hand Images. , 2019, , .		1
2575	UG-Net for Robotic Grasping using Only Depth Image. , 2019, , .		5
2576	Ground-based Visible-light Cloud Image Classification based on a Convolutional Neural Network. , 2019, , .		1
2577	Self-Supervised Representation Learning From Multi-Domain Data. , 2019, , .		21
2578	Application of computer vision and deep learning for flame monitoring and combustion anomaly detection. Journal of Physics: Conference Series, 2019, 1421, 012005.	0.3	1
2579	Identification of a Unique Set of Parameter for the Charge Transport Model in LDPE Based on Mathematical Inverse Methods and Experimental Data. , 2019, , .		1
2580	Threshold and Resistive Switching Behaviors in Epitaxially Regrown GaN P-N Diodes for High Temperature Applications. , 2019, , .		0
2581	A Novel Synchronized Fusion Model for Multi-Band Images. IEEE Access, 2019, 7, 139196-139211.	2.6	3
2582	Weight-Variable Scattering Convolution Networks and Its Application in Electromagnetic Signal Classification. IEEE Access, 2019, 7, 175889-175896.	2.6	9
2583	Optimal Burn-in Strategy for High Reliable Products Using Convolutional Neural Network. IEEE Access, 2019, 7, 178511-178521.	2.6	3

#	ARTICLE	IF	CITATIONS
2584	Image Super-Resolution Using Residual Convolutional Neural Network. , 2019, , .		0
2585	Compensating Supervision Incompleteness with Prior Knowledge in Semantic Image Interpretation. , 2019, , .		10
2586	Automatic ICD code assignment utilizing textual descriptions and hierarchical structure of ICD code. , 2019, , .		3
2587	A 60GHz Digitally-Controlled Differential Reflection-type Phase Shifter in 65-nm CMOS with Low Phase Error. , 2019, , .		0
2588	Accelerating Large-Scale Molecular Similarity Search through Exploiting High Performance Computing. , 2019, , .		3
2589	Large-Scale Long-Tailed Recognition in an Open World. , 2019, , .		497
2590	Unsupervised Visual Domain Adaptation: A Deep Max-Margin Gaussian Process Approach. , 2019, , .		25
2591	Bayesian Non-Parametric Classification With Tree-Based Feature Transformation for NIPPV Efficacy Prediction in COPD Patients. IEEE Access, 2019, 7, 177774-177783.	2.6	7
2592	Security and Fault Detection in In-node components of IIoT Constrained Devices. , 2019, , .		3
2593	Falsification of Cyber-Physical Systems with Robustness Uncertainty Quantification Through Stochastic optimization with Adaptive Restart. , 2019, , .		15
2594	An Adaptive Wordpiece Language Model for Learning Chinese Word Embeddings. , 2019, , .		2
2595	Spatial Mixture Models with Learnable Deep Priors for Perceptual Grouping. Proceedings of the AAAI Conference on Artificial Intelligence, 2019, 33, 9135-9142.	3.6	2
2596	Research on Applications of Artificial Intelligence in Business Management of Power Grid Enterprises. , 2019, , .		7
2597	Anomaly Detection with Conditional Variational Autoencoders. , 2019, , .		40
2598	SVD Square-root Iterated Extended Kalman Filter for Modeling of Epileptic Seizure Count Time Series with External Inputs. , 2019, 2019, 616-619.		4
2599	Back-to-Back Connected Multiplexers for a Broadband Channel Splitter and Channel Combiner. , 2019, , .		0
2600	Evolving Hyperparameters for Training Deep Neural Networks against Adversarial Attacks. , 2019, , .		2
2601	Comparing Decoding Performance of LDPC Codes and Convolutional Codes for Short Packet Transmission. , 2019, , .		3

#	ARTICLE	IF	CITATIONS
2602	A Deep Learning Approach for SAR Image Fusion. , 2019, , .		2
2603	Gate-Layer Autoencoders with Application to Incomplete EEG Signal Recovery. , 2019, , .		5
2604	Criteria Prioritization in Adaptive Security Activities Selection, ASAS Model using Analytic Network Process, ANP. , 2019, , .		1
2605	VaLLR: Threshold Voltage Distribution Aware LLR Optimization to Improve LDPC Decoding Performance for 3D TLC NAND Flash. , 2019, , .		4
2606	Detection of Rheumatoid Arthritis Using Machine Learning. , 2019, , .		5
2607	Low Von 17kV SiC IGBT assisted n-MOS Thyristor. , 2019, , .		1
2608	A Multi-Modular System-Genetics (MMSG) Approach for Deep Representation Learning for Personalized Treatment of Cancer Using Sensitivity Analysis of Precision Drugs and Gene Expression Data. Data-Enabled Discovery and Applications, 2019, 3, 1.	1.2	1
2609	A Lightweight Anonymous Authentication Protocol For IoT Wireless Sensor Networks. , 2019, , .		2
2610	Improvement to the design of underground blasting in a metallurgical carbon mining of the Carbonapoles mine, located in the municipality of SamacÃ¡, BoyacÃ¡. , 2019, , .		0
2611	Challenges of SMT assembling on biodegradable PCB substrates. , 2019, , .		2
2612	Regularized Adversarial Training (RAT) for Robust Cellular Electron Cryo Tomograms Classification. , 2019, , .		0
2613	DeepSDF: Learning Continuous Signed Distance Functions for Shape Representation. , 2019, , .		1,377
2614	Numerical Simulations of Dust Dynamics Around Small Asteroids. IEEE Transactions on Plasma Science, 2019, 47, 3724-3730.	0.6	9
2615	Weighted Consensus Problem for Multi-agent Systems. , 2019, , .		1
2616	A Fully Differential Thin Film Piezo on Silicon Flexural Mode Ring Resonator with Exceptional Quality Factor. , 2019, , .		1
2617	ManiNetCluster: a novel manifold learning approach to reveal the functional links between gene networks. BMC Genomics, 2019, 20, 1003.	1.2	26
2618	Training Deep Learning Based Image Denoisers From Undersampled Measurements Without Ground Truth and Without Image Prior. , 2019, , .		24
2619	Unsupervised Disentangling of Appearance and Geometry by Deformable Generator Network. , 2019, , .		19

#	ARTICLE	IF	CITATIONS
2620	Intelligent Control System for Static Var Compensator of Arc Furnace. , 2019, , .		3
2621	Disentangling and Learning Robust Representations with Natural Clustering. , 2019, , .		1
2622	Self-Supervised Representation Learning by Rotation Feature Decoupling. , 2019, , .		111
2623	Learning Competitive and Discriminative Reconstructions for Anomaly Detection. Proceedings of the AAAI Conference on Artificial Intelligence, 2019, 33, 5167-5174.	3.6	10
2624	Variable DC part Voltage of DSTATCOM for enhancing power quality of microgrid. , 2019, , .		1
2625	Unsupervised Part-Based Disentangling of Object Shape and Appearance. , 2019, , .		95
2626	Variational Autoencoders Pursue PCA Directions (by Accident). , 2019, , .		36
2627	Hierarchical Key Management Scheme with Multilevel Secure Access. , 2019, , .		0
2628	A mmWave Phase Shifter Based on Ferroelectric Hafnium Zirconium Oxide Varactors. , 2019, , .		15
2629	Statistical Analysis of Enhanced SDEx Encryption Method Based on SHA-256 Hash Function. , 2019, , .		2
2630	DeepCPI: A Deep Learning-based Framework for Large-scale in silico Drug Screening. Genomics, Proteomics and Bioinformatics, 2019, 17, 478-495.	3.0	53
2631	Data Selection for training Semantic Segmentation CNNs with cross-dataset weak supervision. , 2019, , .		0
2632	Abnormality Detection in the Renal Ultrasound Images using Ensemble MSVM Model. , 2019, , .		3
2633	Multi-focus image fusion using pixel level deep learning convolutional neural network. , 2019, , .		0
2634	Extreme Dimensionality Reduction for Network Attack Visualization with Autoencoders. , 2019, , .		13
2635	Research on Offline Handwritten Chinese Character Recognition Based on Deep Learning. , 2019, , .		2
2637	Deep Learning in Object Detection and Recognition. , 2019, , .		31
2638	Answer Acquisition for Knowledge Base Question Answering Systems Based on Dynamic Memory Network. IEEE Access, 2019, 7, 161329-161339.	2.6	8

#	Article	IF	Citations
2639	EDA based Deep Neural Network Parameter Optimization. , 2019, , .		0
2640	Learning Embeddings of Intersections on Road Networks. , 2019, , .		15
2641	User Diverse Preference Modeling by Multimodal Attentive Metric Learning. , 2019, , .		47
2642	Feature Analysis of Passive Underwater Targets Recognition Based on Deep Neural Network. , 2019, , .		6
2643	A Feature Extraction Method Based on Sparse Filtering With Local Structure Preserved and Its Applications to Bearing Fault Diagnosis. IEEE Access, 2019, 7, 160559-160572.	2.6	4
2644	Classification for Remote Sensing Data With Improved CNN-SVM Method. IEEE Access, 2019, 7, 164507-164516.	2.6	34
2645	Learning Disentangled Representation with Pairwise Independence. Proceedings of the AAAI Conference on Artificial Intelligence, 2019, 33, 4245-4252.	3.6	2
2646	A Review on Deep Learning Applications in Prognostics and Health Management. IEEE Access, 2019, 7, 162415-162438.	2.6	129
2647	Deep Neural Network Models for Question Classification in Community Question-Answering Forums. , 2019, , .		9
2648	BioSentVec: creating sentence embeddings for biomedical texts. , 2019, , .		91
2649	Coupling one-shot learning and online discriminative learning for robust object tracking. Journal of Intelligent and Fuzzy Systems, 2019, 36, 819-828.	0.8	0
2650	Performance Analysis of Optimization Algorithms on Stacked Autoencoder. , 2019, , .		7
2652	An anticrime information support system design: Application of K-means-VMD-BiGRU in the city of Chicago. Information and Management, 2022, 59, 103247.	3.6	16
2653	Social Network Polluting Contents Detection through Deep Learning Techniques. , 2019, , .		3
2654	Audio-based Recognition of Bipolar Disorder Utilising Capsule Networks. , 2019, , .		13
2655	Power Grid Online Surveillance through PMU-Embedded Convolutional Neural Networks. , 2019, , .		10
2656	Learning Parameters in Deep Belief Networks Through Ant Lion Optimization Algorithm. , 2019, , .		1
2657	A recurrence network-based convolutional neural network for fatigue driving detection from EEG. Chaos, 2019, 29, 113126.	1.0	47

#	Article	IF	Citations
2658	CoNN: Collaborative Neural Network for Personalized Representation Learning with Application to Scalable Task Classification. , 2019, , .		2
2659	Machine learning in acoustics: Theory and applications. Journal of the Acoustical Society of America, 2019, 146, 3590-3628.	0.5	306
2660	Data Augmentation for Brain-Tumor Segmentation: A Review. Frontiers in Computational Neuroscience, 2019, 13, 83.	1.2	195
2661	Deep learning classifiers for hyperspectral imaging: A review. ISPRS Journal of Photogrammetry and Remote Sensing, 2019, 158, 279-317.	4.9	580
2662	What Makes You Look Like You: Learning an Inherent Feature Representation for Person Re-Identification. , 2019, , .		2
2663	Adversarial Unsupervised Representation Learning for Activity Time-Series. Proceedings of the AAAI Conference on Artificial Intelligence, 2019, 33, 834-841.	3.6	5
2664	Discrimination of Movement-Related Cortical Potentials Exploiting Unsupervised Learned Representations From ECoGs. Frontiers in Neuroscience, 2019, 13, 1248.	1.4	1
2665	Applications of Deep Learning to Audio Generation. IEEE Circuits and Systems Magazine, 2019, 19, 19-38.	2.6	9
2666	Deep Reinforcement Learning for Adaptive Caching in Hierarchical Content Delivery Networks. IEEE Transactions on Cognitive Communications and Networking, 2019, 5, 1024-1033.	4.9	88
2667	Deep Learning for Atmospheric Cloud Image Segmentation. , 2019, , .		5
2668	Accelerating Deep Unsupervised Domain Adaptation with Transfer Channel Pruning. , 2019, , .		11
2669	Attentional Heterogeneous Graph Neural Network: Application to Program Reidentification. , 2019, , 693-701.		25
2670	AVEC 2019 Workshop and Challenge: State-of-Mind, Detecting Depression with AI, and Cross-Cultural Affect Recognition. , 2019, , .		167
2671	A network-based approach to uncover microRNA-mediated disease comorbidities and potential pathobiological implications. Npj Systems Biology and Applications, 2019, 5, 41.	1.4	24
2672	A Fault Diagnosis Method Based on Transfer Convolutional Neural Networks. IEEE Access, 2019, 7, 171423-171430.	2.6	27
2673	Boundary-aware Semi-supervised Deep Learning for Breast Ultrasound Computer-Aided Diagnosis. , 2019, 2019, 947-950.		7
2674	Brain Tumor Segmentation from MRI Using Pre-segmentation Based on Superpixels and Fully Convolutional Neural Networks. , 2019, , .		2
2675	Deep Discriminative Representation Learning for Nonlinear Process Fault Detection. IEEE Transactions on Automation Science and Engineering, 2019, , 1-10.	3.4	12

#	ARTICLE	IF	CITATIONS
2676	Clustering and Classification for Time Series Data in Visual Analytics: A Survey. IEEE Access, 2019, 7, 181314-181338.	2.6	42
2677	Towards Interpretable Deep Extreme Multi-Label Learning. , 2019, , .		1
2678	Generative Models For Low-Rank Video Representation And Reconstruction From Compressive Measurements. , 2019, , .		2
2679	Unsupervised pregnancy and physical activity detection in mammals using circadian rhythms. , 2019, , .		0
2680	Labeling malicious communication samples based on semi-supervised deep neural network. China Communications, 2019, 16, 183-200.	2.0	5
2681	Application of the DeepSense Deep Learning Framework to Determination of Activity Context from Smartphone Data. Proceedings of the Human Factors and Ergonomics Society, 2019, 63, 792-796.	0.2	0
2682	Insights â€" Future Implications of Passive Smartphone Sensing in the Therapeutic Context. Verhaltenstherapie, 2022, 32, 86-95.	0.3	12
2683	An Ensemble Convolutional Neural Networks for Bearing Fault Diagnosis Using Multi-Sensor Data. Sensors, 2019, 19, 5300.	2.1	53
2684	Stock price prediction using DEEP learning algorithm and its comparison with machine learning algorithms. Intelligent Systems in Accounting, Finance and Management, 2019, 26, 164-174.	2.8	128
2685	An Efficient Deep Belief Network with Fuzzy Learning for Nonlinear System Modeling. , 2019, , .		2
2686	Judicial Knowledge Reasoning Based on Representation Learning. , 2019, , .		0
2687	Semantics-Aware Hidden Markov Model for Human Mobility. IEEE Transactions on Knowledge and Data Engineering, 2019, , 1-1.	4.0	12
2688	Deep-Learning-based Identification of Influential Spreaders in Online Social Networks. , 2019, , .		5
2689	Deep Learning-based Visual Tracking of UAVs using a PTZ Camera System. , 2019, , .		12
2690	Multiclass Breast Cancer Classification Using Convolutional Neural Network. , 2019, , .		26
2691	Robust Hybrid Beamforming With Quantized Deep Neural Networks. , 2019, , .		6
2692	Anatomy of Leaf Classification Techniques. , 2019, , .		2
2693	Primer on machine learning. Current Opinion in Anaesthesiology, 2019, 32, 653-660.	0.9	10

#	Article	IF	Citations
2694	An Introduction to Variational Autoencoders. Foundations and Trends in Machine Learning, 2019, 12, 307-392.	46.6	863
2695	Promising Artificial Intelligence-Machine Learning-Deep Learning Algorithms in Ophthalmology. Asia-Pacific Journal of Ophthalmology, 2019, 8, 264-272.	1.3	90
2696	Learning Deep Hierarchical Spatialâ€"Spectral Features for Hyperspectral Image Classification Based on Residual 3D-2D CNN. Sensors, 2019, 19, 5276.	2.1	57
2697	A Study on Convolution Neural Network for Breast Cancer Detection. , 2019, , .		10
2698	Neural Network Based Control Algorithm for Solar PV Interfaced System. , 2019, , .		4
2699	A novel endâ€toâ€end deep learning scheme for classifying multiâ€class motor imagery electroencephalography signals. Expert Systems, 2019, 36, e12494.	2.9	96
2700	Conceptual analysis of Internet of Things use cases in Banking domain. , 2019, , .		19
2701	Landslide Detection of Hyperspectral Remote Sensing Data Based on Deep Learning With Constrains. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2019, 12, 5047-5060.	2.3	85
2702	A Fund Selection Robo-Advisor with Deep-learning Driven Market Prediction. , 2019, , .		6
2703	Fuzzy Deep Stack of Autoencoders for Dealing with Data Uncertainty. , 2019, , .		3
2704	Topo2Vec: A Novel Node Embedding Generation Based on Network Topology for Link Prediction. IEEE Transactions on Computational Social Systems, 2019, 6, 1306-1317.	3.2	13
2705	Deep Learning Algorithm to Predict Need for Critical Care in Pediatric Emergency Departments. Pediatric Emergency Care, 2021, 37, e988-e994.	0.5	11
2706	Improving Sentiment Analysis in Twitter Using Sentiment Specific Word Embeddings. , 2019, , .		9
2707	The Techniques and Evaluation Method for Beautification of Handwriting Chinese Characters Based on Cubic BÃ©zier Curve and Convolutional Neural Network. , 2019, , .		0
2708	Deep Learning â€" Based Models for Drug-Drug Interactions Extraction in the Current Biomedical Literature. , 2019, , .		3
2709	Multimodal Representation Learning: Advances, Trends and Challenges. , 2019, , .		14
2710	Differentiating users by language and location estimation in sentiment analisys of informal text during major public events. Expert Systems With Applications, 2019, 117, 15-28.	4.4	6
2711	Deep convolutional neural networks for brain image analysis on magnetic resonance imaging: a review. Artificial Intelligence in Medicine, 2019, 95, 64-81.	3.8	257

#	Article	IF	Citations
2712	Analysis of the inter-dataset representation ability of deep features for high spatial resolution remote sensing image scene classification. Multimedia Tools and Applications, 2019, 78, 9667-9689.	2.6	12
2713	Distributional modelling for semantic shift detection. International Journal of Lexicography, 2019, 32, 163-183.	0.2	3
2714	Representation Learning by Rotating Your Faces. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2019, 41, 3007-3021.	9.7	93
2715	Deep Principal Component Analysis Based on Layerwise Feature Extraction and Its Application to Nonlinear Process Monitoring. IEEE Transactions on Control Systems Technology, 2019, 27, 2526-2540.	3.2	67
2716	Transferable Representation Learning with Deep Adaptation Networks. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2019, 41, 3071-3085.	9.7	345
2717	Enhancing multimodal deep representation learning by fixed model reuse. Multimedia Tools and Applications, 2019, 78, 30769-30791.	2.6	2
2718	SynergyFlow. ACM Transactions on Design Automation of Electronic Systems, 2019, 24, 1-27.	1.9	5
2719	Quaternion Grassmann average network for learning representation of histopathological image. Pattern Recognition, 2019, 89, 67-76.	5.1	24
2720	A mix-pooling CNN architecture with FCRF for brain tumor segmentation. Journal of Visual Communication and Image Representation, 2019, 58, 316-322.	1.7	66
2721	Reconstructing Perceived Images From Human Brain Activities With Bayesian Deep Multiview Learning. IEEE Transactions on Neural Networks and Learning Systems, 2019, 30, 2310-2323.	7.2	56
2722	Using Drug Expression Profiles and Machine Learning Approach for Drug Repurposing. Methods in Molecular Biology, 2019, 1903, 219-237.	0.4	25
2723	Brain-inspired automated visual object discovery and detection. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 96-105.	3.3	5
2724	Anchor Cascade for Efficient Face Detection. IEEE Transactions on Image Processing, 2019, 28, 2490-2501.	6.0	28
2725	DeeptransMap: a considerably deep transmission estimation network for single image dehazing. Multimedia Tools and Applications, 2019, 78, 30627-30649.	2.6	3
2726	Multimode process monitoring based on robust dictionary learning with application to aluminium electrolysis process. Neurocomputing, 2019, 332, 305-319.	3.5	53
2727	Cyberattack Detection Using Deep Generative Models with Variational Inference. Journal of Water Resources Planning and Management - ASCE, 2019, 145, .	1.3	23
2728	A Survey of Super-Resolution in Iris Biometrics With Evaluation of Dictionary-Learning. IEEE Access, 2019, 7, 6519-6544.	2.6	19
2729	MADEx: A System for Detecting Medications, Adverse Drug Events, and Their Relations from Clinical Notes. Drug Safety, 2019, 42, 123-133.	1.4	35

#	Article	IF	Citations
2730	Learning representations for quality estimation of crowdsourced submissions. Information Processing and Management, 2019, 56, 1484-1493.	5.4	8
2731	Deep Learning in Image Cytometry: A Review. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2019, 95, 366-380.	1.1	145
2732	Toward Better Summarizing Bug Reports With Crowdsourcing Elicited Attributes. IEEE Transactions on Reliability, 2019, 68, 2-22.	3.5	23
2733	Sparse binarised statistical dynamic features for spatio-temporal texture analysis. Signal, Image and Video Processing, 2019, 13, 575-582.	1.7	3
2734	Deep convolutional representations and kernel extreme learning machines for image classification. Multimedia Tools and Applications, 2019, 78, 29271-29290.	2.6	12
2735	Crowdsourcing of Histological Image Labeling and Object Delineation by Medical Students. IEEE Transactions on Medical Imaging, 2019, 38, 1284-1294.	5.4	26
2736	Deep Transfer Low-Rank Coding for Cross-Domain Learning. IEEE Transactions on Neural Networks and Learning Systems, 2019, 30, 1768-1779.	7.2	55
2737	Region-Enhanced Multi-layer Extreme Learning Machine. Cognitive Computation, 2019, 11, 101-109.	3.6	8
2738	Sentiment Analysis. Annual Review of Statistics and Its Application, 2019, 6, 287-308.	4.1	18
2739	When Urban Safety Index Inference Meets Location-Based Data. IEEE Transactions on Mobile Computing, 2019, 18, 2701-2713.	3.9	7
2740	Convolutional neural networks analysed via inverse problem theory and sparse representations. IET Signal Processing, 2019, 13, 215-223.	0.9	2
2741	A deep neural network learning algorithm outperforms a conventional algorithm for emergency department electrocardiogram interpretation. Journal of Electrocardiology, 2019, 52, 88-95.	0.4	69
2742	Deep Transfer Learning Based on Sparse Autoencoder for Remaining Useful Life Prediction of Tool in Manufacturing. IEEE Transactions on Industrial Informatics, 2019, 15, 2416-2425.	7.2	329
2743	Unsupervised Deep Video Hashing via Balanced Code for Large-Scale Video Retrieval. IEEE Transactions on Image Processing, 2019, 28, 1993-2007.	6.0	117
2744	Systems Biology and Machine Learning in Plantâ€"Pathogen Interactions. Molecular Plant-Microbe Interactions, 2019, 32, 45-55.	1.4	68
2745	Joint Optimization of Caching, Computing, and Radio Resources for Fog-Enabled IoT Using Natural Actorâ€"Critic Deep Reinforcement Learning. IEEE Internet of Things Journal, 2019, 6, 2061-2073.	5.5	227
2746	From BoW to CNN: Two Decades of Texture Representation for Texture Classification. International Journal of Computer Vision, 2019, 127, 74-109.	10.9	247
2747	Local Binary Patterns Based Facial Expression Recognition for Efficient Smart Applications. Lecture Notes in Intelligent Transportation and Infrastructure, 2019, , 297-322.	0.3	11

#	Article	IF	Citations
2748	Occupancy detection of residential buildings using smart meter data: A large-scale study. Energy and Buildings, 2019, 183, 195-208.	3.1	80
2749	Word spotting and recognition via a joint deep embedding of image and text. Pattern Recognition, 2019, 88, 312-320.	5.1	18
2750	Quantum-based subgraph convolutional neural networks. Pattern Recognition, 2019, 88, 38-49.	5.1	44
2751	Semisupervised Stacked Autoencoder With Cotraining for Hyperspectral Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 3813-3826.	2.7	71
2752	A Digital-Twin-Assisted Fault Diagnosis Using Deep Transfer Learning. IEEE Access, 2019, 7, 19990-19999.	2.6	276
2753	EEG-Based Spatio–Temporal Convolutional Neural Network for Driver Fatigue Evaluation. IEEE Transactions on Neural Networks and Learning Systems, 2019, 30, 2755-2763.	7.2	272
2754	Reconciling deep learning with symbolic artificial intelligence: representing objects and relations. Current Opinion in Behavioral Sciences, 2019, 29, 17-23.	2.0	107
2755	A feature extraction method for lung nodules based on a multichannel principal component analysis network (PCANet). Multimedia Tools and Applications, 2019, 78, 17317-17335.	2.6	7
2756	Faulty elements diagnosis of phased array antennas using a generative adversarial learning-based stacked denoising sparse autoencoder. Journal of Electromagnetic Waves and Applications, 2019, 33, 382-407.	1.0	1
2757	Fast unsupervised deep fusion network for change detection of multitemporal SAR images. Neurocomputing, 2019, 332, 56-70.	3.5	26
2758	Unsupervised Deep Learning for Induction Motor Bearings Monitoring. Data-Enabled Discovery and Applications, 2019, 3, 1.	1.2	27
2759	Spatial–Temporal Discriminative Restricted Boltzmann Machine for Event-Related Potential Detection and Analysis. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2019, 27, 139-151.	2.7	19
2760	A video prediction approach for animating single face image. Multimedia Tools and Applications, 2019, 78, 16389-16410.	2.6	6
2761	Daily Runoff Forecasting Using a Hybrid Model Based on Variational Mode Decomposition and Deep Neural Networks. Water Resources Management, 2019, 33, 1571-1590.	1.9	92
2762	Deep learning PM2.5 concentrations with bidirectional LSTM RNN. Air Quality, Atmosphere and Health, 2019, 12, 411-423.	1.5	76
2763	Profit optimization in service-oriented data market: A Stackelberg game approach. Future Generation Computer Systems, 2019, 95, 17-25.	4.9	15
2764	Recent Deep Learning Techniques, Challenges and Its Applications for Medical Healthcare System: A Review. Neural Processing Letters, 2019, 50, 1907-1935.	2.0	74
2765	Enhanced Deep Networks for Short-Term and Medium-Term Load Forecasting. IEEE Access, 2019, 7, 4045-4055.	2.6	94

#	ARTICLE	IF	CITATIONS
2766	Gear pitting fault diagnosis using disentangled features from unsupervised deep learning. Proceedings of the Institution of Mechanical Engineers, Part O: Journal of Risk and Reliability, 2019, 233, 719-730.	0.6	11
2767	Deep learning algorithm for data-driven simulation of noisy dynamical system. Journal of Computational Physics, 2019, 376, 1212-1231.	1.9	71
2768	Embedded System for Access Control Based on Facial Biometry and RFID. Advances in Intelligent Systems and Computing, 2019, , 868-883.	0.5	0
2769	Machine Learning in Network Centrality Measures. ACM Computing Surveys, 2019, 51, 1-32.	16.1	35
2770	Rethinking multiscale cardiac electrophysiology with machine learning and predictive modelling. Computers in Biology and Medicine, 2019, 104, 339-351.	3.9	40
2771	Deep Learning Models Unveiled Functional Difference Between Cortical Gyri and Sulci. IEEE Transactions on Biomedical Engineering, 2019, 66, 1297-1308.	2.5	18
2772	Semi-supervised deep embedded clustering. Neurocomputing, 2019, 325, 121-130.	3.5	121
2773	Shearlet feature manifold for face recognition. Journal of Ambient Intelligence and Humanized Computing, 2019, 10, 3453-3460.	3.3	3
2774	TL-GDBN: Growing Deep Belief Network With Transfer Learning. IEEE Transactions on Automation Science and Engineering, 2019, 16, 874-885.	3.4	100
2775	Topographic representation adds robustness to supervised learning. Journal of Intelligent and Fuzzy Systems, 2019, 36, 3249-3262.	0.8	3
2776	Earthquake Fingerprints: Extracting Waveform Features for Similarity-Based Earthquake Detection. Pure and Applied Geophysics, 2019, 176, 1037-1059.	0.8	28
2777	Autoencoders for learning template spectrograms in electrocorticographic signals. Journal of Neural Engineering, 2019, 16, 016025.	1.8	5
2778	Interactive machine learning: experimental evidence for the human in the algorithmic loop. Applied Intelligence, 2019, 49, 2401-2414.	3.3	151
2779	A review of various semi-supervised learning models with a deep learning and memory approach. Iran Journal of Computer Science, 2019, 2, 65-80.	1.8	21
2780	Data-Driven Cybersecurity Incident Prediction: A Survey. IEEE Communications Surveys and Tutorials, 2019, 21, 1744-1772.	24.8	216
2781	Unleashing Machine Learning onto Big Data: Issues, Challenges and Trends. Studies in Computational Intelligence, 2019, , 271-286.	0.7	1
2782	Deep Domain Adaptation. Advanced Information and Knowledge Processing, 2019, , 203-249.	0.2	1
2783	Restricted Boltzmann Machines With Gaussian Visible Units Guided by Pairwise Constraints. IEEE Transactions on Cybernetics, 2019, 49, 4321-4334.	6.2	27

#	Article	IF	Citations
2784	Deep motifs and motion signatures. ACM Transactions on Graphics, 2018, 37, 1-13.	4.9	43
2785	DeepTracker. ACM Transactions on Intelligent Systems and Technology, 2019, 10, 1-25.	2.9	27
2786	Power Line Recognition From Aerial Images With Deep Learning. IEEE Transactions on Aerospace and Electronic Systems, 2019, 55, 2241-2252.	2.6	37
2787	Network embedding based on deep extreme learning machine. International Journal of Machine Learning and Cybernetics, 2019, 10, 2709-2724.	2.3	5
2788	Deep Genomics and Proteomics: Language Model-Based Embedding of Biological Sequences and Their Applications in Bioinformatics. , 2019, , 167-181.		3
2789	Speech and Language in Humanoid Robots. , 2019, , 2261-2292.		2
2790	Machine Learning: A Concise Overview. Studies in Big Data, 2019, , 27-58.	0.8	4
2791	A Structure-Enriched Neural Network for network embedding. Expert Systems With Applications, 2019, 117, 300-311.	4.4	22
2792	Deep Learning with Microfluidics for Biotechnology. Trends in Biotechnology, 2019, 37, 310-324.	4.9	160
2793	A Survey of Multi-View Representation Learning. IEEE Transactions on Knowledge and Data Engineering, 2019, 31, 1863-1883.	4.0	295
2794	A Multi-View Deep Learning Framework for EEG Seizure Detection. IEEE Journal of Biomedical and Health Informatics, 2019, 23, 83-94.	3.9	163
2795	Taking full advantage of convolutional network for robust visual tracking. Multimedia Tools and Applications, 2019, 78, 11011-11025.	2.6	1
2796	Development and Validation of Deep Learningâ€"based Automatic Detection Algorithm for Malignant Pulmonary Nodules on Chest Radiographs. Radiology, 2019, 290, 218-228.	3.6	372
2797	Deep learning for in vitro prediction of pharmaceutical formulations. Acta Pharmaceutica Sinica B, 2019, 9, 177-185.	5.7	90
2798	Unsupervised EEG feature extraction based on echo state network. Information Sciences, 2019, 475, 1-17.	4.0	64
2799	Holistic CNN Compression via Low-Rank Decomposition with Knowledge Transfer. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2019, 41, 2889-2905.	9.7	103
2800	Visualizing and understanding Sum-Product Networks. Machine Learning, 2019, 108, 551-573.	3.4	7
2801	CCODM: conditional co-occurrence degree matrix document representation method. Soft Computing, 2019, 23, 1239-1255.	2.1	2

#	Article	IF	Citations
2802	Deep features-based speech emotion recognition for smart affective services. Multimedia Tools and Applications, 2019, 78, 5571-5589.	2.6	123
2803	Diffusion nets. Applied and Computational Harmonic Analysis, 2019, 47, 259-285.	1.1	23
2804	Partition selection with sparse autoencoders for content based image classification. Neural Computing and Applications, 2019, 31, 675-690.	3.2	16
2805	Predicting movie box-office revenues using deep neural networks. Neural Computing and Applications, 2019, 31, 1855-1865.	3.2	36
2806	Retrieving real world clothing images via multi-weight deep convolutional neural networks. Cluster Computing, 2019, 22, 7123-7134.	3.5	11
2807	Integrating segmentation with deep learning for enhanced classification of epithelial and stromal tissues in H&E images. Pattern Recognition Letters, 2019, 119, 214-221.	2.6	42
2808	Training convolutional neural network from multi-domain contour images for 3D shape retrieval. Pattern Recognition Letters, 2019, 119, 41-48.	2.6	6
2809	Short-Term Residential Load Forecasting Based on LSTM Recurrent Neural Network. IEEE Transactions on Smart Grid, 2019, 10, 841-851.	6.2	1,424
2810	Evaluating representational systems in artificial intelligence. Artificial Intelligence Review, 2019, 52, 1463-1493.	9.7	2
2811	Deep learning in big data Analytics: A comparative study. Computers and Electrical Engineering, 2019, 75, 275-287.	3.0	147
2812	A New Deep Transfer Learning Based on Sparse Auto-Encoder for Fault Diagnosis. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2019, 49, 136-144.	5.9	731
2813	A systemic analysis of link prediction in social network. Artificial Intelligence Review, 2019, 52, 1961-1995.	9.7	62
2814	Unsupervised Learning of 3-D Local Features From Raw Voxels Based on a Novel Permutation Voxelization Strategy. IEEE Transactions on Cybernetics, 2019, 49, 481-494.	6.2	26
2815	Adversarial image detection in deep neural networks. Multimedia Tools and Applications, 2019, 78, 2815-2835.	2.6	27
2816	Convolutional neural networks for crowd behaviour analysis: a survey. Visual Computer, 2019, 35, 753-776.	2.5	94
2817	Methodology for improving classification accuracy using ontologies: application in the recognition of activities of daily living. Journal of Ambient Intelligence and Humanized Computing, 2019, 10, 2125-2142.	3.3	14
2818	A novel double incremental learning algorithm for time series prediction. Neural Computing and Applications, 2019, 31, 6055-6077.	3.2	28
2819	WUB-IP: A High-Precision UWB Positioning Scheme for Indoor Multiuser Applications. IEEE Systems Journal, 2019, 13, 279-288.	2.9	57

#	Article	IF	Citations
2820	Deep Geo-Constrained Auto-Encoder for Non-Landmark GPS Estimation. IEEE Transactions on Big Data, 2019, 5, 120-133.	4.4	2
2821	Multi-Scale Deep Reinforcement Learning for Real-Time 3D-Landmark Detection in CT Scans. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2019, 41, 176-189.	9.7	209
2822	Multimodal Machine Learning: A Survey and Taxonomy. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2019, 41, 423-443.	9.7	1,531
2823	Evolving Unsupervised Deep Neural Networks for Learning Meaningful Representations. IEEE Transactions on Evolutionary Computation, 2019, 23, 89-103.	7.5	110
2824	Deep Learning for Fall Detection: Three-Dimensional CNN Combined With LSTM on Video Kinematic Data. IEEE Journal of Biomedical and Health Informatics, 2019, 23, 314-323.	3.9	217
2825	Two-Stream Collaborative Learning With Spatial-Temporal Attention for Video Classification. IEEE Transactions on Circuits and Systems for Video Technology, 2019, 29, 773-786.	5.6	88
2826	Using generative adversarial networks for improving classification effectiveness in credit card fraud detection. Information Sciences, 2019, 479, 448-455.	4.0	280
2827	A Fuzzy clustering based MRI brain image segmentation using back propagation neural networks. Cluster Computing, 2019, 22, 12305-12312.	3.5	15
2828	From shallow feature learning to deep learning: Benefits from the width and depth of deep architectures. Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery, 2019, 9, e1255.	4.6	52
2829	Imbalanced Deep Learning by Minority Class Incremental Rectification. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2019, 41, 1367-1381.	9.7	192
2830	Automatic feature constructing from vibration signals for machining state monitoring. Journal of Intelligent Manufacturing, 2019, 30, 995-1008.	4.4	27
2832	Deep Model Based Transfer and Multi-Task Learning for Biological Image Analysis. IEEE Transactions on Big Data, 2020, 6, 322-333.	4.4	101
2833	Cooperative Training of Descriptor and Generator Networks. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2020, 42, 27-45.	9.7	39
2834	Sparse Learning of Higher-Order Statistics for Communications and Sensing. IEEE Transactions on Emerging Topics in Computational Intelligence, 2020, 4, 13-22.	3.4	2
2835	Using structural MRI to identify bipolar disorders â€" 13 site machine learning study in 3020 individuals from the ENIGMA Bipolar Disorders Working Group. Molecular Psychiatry, 2020, 25, 2130-2143.	4.1	127
2836	Integrating Gray Data Preprocessor and Deep Belief Network for Day-Ahead PV Power Output Forecast. IEEE Transactions on Sustainable Energy, 2020, 11, 185-194.	5.9	72
2837	ICANE: interaction content-aware network embedding via co-embedding of nodes and edges. International Journal of Data Science and Analytics, 2020, 9, 401-414.	2.4	3
2838	A comprehensive overview of feature representation for biometric recognition. Multimedia Tools and Applications, 2020, 79, 4867-4890.	2.6	42

#	Article	IF	Citations
2839	Augmenting data with GANs to segment melanoma skin lesions. Multimedia Tools and Applications, 2020, 79, 15575-15592.	2.6	57
2840	An evolutionary hyper-heuristic to optimise deep belief networks for image reconstruction. Applied Soft Computing Journal, 2020, 97, 105510.	4.1	22
2841	Nature Inspired Meta-heuristic Algorithms for Deep Learning: Recent Progress and Novel Perspective. Advances in Intelligent Systems and Computing, 2020, , 59-70.	0.5	18
2842	Evolving Deep Convolutional Neural Networks for Image Classification. IEEE Transactions on Evolutionary Computation, 2020, 24, 394-407.	7.5	409
2843	Mining Deep Semantic Representations for Scene Classification of High-Resolution Remote Sensing Imagery. IEEE Transactions on Big Data, 2020, 6, 522-536.	4.4	21
2844	LSTM-Based End-to-End Framework for Biomedical Event Extraction. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2020, 17, 2029-2039.	1.9	18
2845	A survey of swarm and evolutionary computing approaches for deep learning. Artificial Intelligence Review, 2020, 53, 1767-1812.	9.7	104
2846	Deep representation learning for domain adaptable classification of infrared spectral imaging data. Bioinformatics, 2020, 36, 287-294.	1.8	19
2847	Churn modeling with probabilistic meta paths-based representation learning. Information Processing and Management, 2020, 57, 102052.	5.4	7
2848	Robust biomarker discovery for microbiome-wide association studies. Methods, 2020, 173, 44-51.	1.9	11
2849	A new growing pruning deep learning neural network algorithm (GP-DLNN). Neural Computing and Applications, 2020, 32, 18143-18159.	3.2	26
2850	I-Vector-Based Patient Adaptation of Deep Neural Networks for Automatic Heartbeat Classification. IEEE Journal of Biomedical and Health Informatics, 2020, 24, 717-727.	3.9	18
2851	Trace Quotient with Sparsity Priors for Learning Low Dimensional Image Representations. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2020, 42, 3119-3135.	9.7	11
2852	A real-time hourly ozone prediction system using deep convolutional neural network. Neural Computing and Applications, 2020, 32, 8783-8797.	3.2	50
2853	Urban big data fusion based on deep learning: An overview. Information Fusion, 2020, 53, 123-133.	11.7	160
2854	Forecasting heating and cooling loads of buildings: a comparative performance analysis. Journal of Ambient Intelligence and Humanized Computing, 2020, 11, 1253-1264.	3.3	70
2855	Bipartite Differential Neural Network for Unsupervised Image Change Detection. IEEE Transactions on Neural Networks and Learning Systems, 2020, 31, 876-890.	7.2	33
2856	Learning Representations for Neural Network-Based Classification Using the Information Bottleneck Principle. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2020, 42, 2225-2239.	9.7	96

#	Article	IF	Citations
2857	Nonlinear Generalized Predictive Control of the Crystal Diameter in CZ-Si Crystal Growth Process Based on Stacked Sparse Autoencoder. IEEE Transactions on Control Systems Technology, 2020, 28, 1132-1139.	3.2	23
2858	Automatic keyphrase extraction using word embeddings. Soft Computing, 2020, 24, 5593-5608.	2.1	5
2859	A Secure Scalable Life-Long Learning Based on Multiagent Framework Using Cloud Computing. Lecture Notes in Networks and Systems, 2020, , 400-421.	0.5	0
2860	A deep learning interpretable classifier for diabetic retinopathy disease grading. Neurocomputing, 2020, 396, 465-476.	3.5	110
2861	Flow Adversarial Networks: Flowrate Prediction for Gasâ€"Liquid Multiphase Flows Across Different Domains. IEEE Transactions on Neural Networks and Learning Systems, 2020, 31, 475-487.	7.2	23
2862	An Interpretable Fuzzy DBN-Based Classifier for Indoor User Movement Prediction in Ambient Assisted Living Applications. IEEE Transactions on Industrial Informatics, 2020, 16, 42-53.	7.2	18
2863	Recent advances in hyperspectral imaging for melanoma detection. Wiley Interdisciplinary Reviews: Computational Statistics, 2020, 12, e1465.	2.1	31
2864	An autoencoder-based spectral clustering algorithm. Soft Computing, 2020, 24, 1661-1671.	2.1	3
2865	State Estimation via Communication for Monitoring. IEEE Transactions on Emerging Topics in Computational Intelligence, 2020, 4, 786-793.	3.4	3
2866	Marginalized Multiview Ensemble Clustering. IEEE Transactions on Neural Networks and Learning Systems, 2020, 31, 600-611.	7.2	57
2867	Learning More Universal Representations for Transfer-Learning. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2020, 42, 2212-2224.	9.7	32
2868	Toward Compact ConvNets via Structure-Sparsity Regularized Filter Pruning. IEEE Transactions on Neural Networks and Learning Systems, 2020, 31, 574-588.	7.2	96
2869	Advances in Deep Learning. Studies in Big Data, 2020, , .	0.8	83
2871	Harnessing the Power of Machine Learning in Dementia Informatics Research: Issues, Opportunities, and Challenges. IEEE Reviews in Biomedical Engineering, 2020, 13, 113-129.	13.1	33
2872	Unsupervised Deep Learning Architectures. Studies in Big Data, 2020, , 77-94.	0.8	4
2873	Novel deep genetic ensemble of classifiers for arrhythmia detection using ECG signals. Neural Computing and Applications, 2020, 32, 11137-11161.	3.2	141
2874	Computational Intelligence in Cloud Computing. Topics in Intelligent Engineering and Informatics, 2020, , 111-127.	0.4	11
2875	Habit2vec: Trajectory Semantic Embedding for Living Pattern Recognition in Population. IEEE Transactions on Mobile Computing, 2020, 19, 1096-1108.	3.9	48

#	Article	IF	Citations
2876	Reverse Engineering Creativity into Interpretable Neural Networks. Lecture Notes in Networks and Systems, 2020, , 235-247.	0.5	3
2877	Multi-task learning using variational auto-encoder for sentiment classification. Pattern Recognition Letters, 2020, 132, 115-122.	2.6	30
2878	Deep Learning Classification on Optical Coherence Tomography Retina Images. International Journal of Pattern Recognition and Artificial Intelligence, 2020, 34, 2052002.	0.7	10
2879	Machine learning for predicting properties of porous media from 2d X-ray images. Journal of Petroleum Science and Engineering, 2020, 184, 106514.	2.1	83
2881	Classification of the tree for aerial image using a deep convolution neural network and visual feature clustering. Journal of Supercomputing, 2020, 76, 2503-2517.	2.4	7
2882	Rapid and simultaneous determination of physical and chemical properties of asphalt by ATR-FTIR spectroscopy combined with a novel calibration-free method. Construction and Building Materials, 2020, 230, 116950.	3.2	23
2883	CLR-based deep convolutional spiking neural network with validation based stopping for time series classification. Applied Intelligence, 2020, 50, 830-848.	3.3	19
2884	Residual deep PCA-based feature extraction for hyperspectral image classification. Neural Computing and Applications, 2020, 32, 14287-14300.	3.2	15
2885	Conductive particle detection via deep learning for ACF bonding in TFT-LCD manufacturing. Journal of Intelligent Manufacturing, 2020, 31, 1037-1049.	4.4	23
2886	SIEVE: Helping developers sift wheat from chaff via cross-platform analysis. Empirical Software Engineering, 2020, 25, 996-1030.	3.0	6
2887	Grad-CAM: Visual Explanations from Deep Networks via Gradient-Based Localization. International Journal of Computer Vision, 2020, 128, 336-359.	10.9	2,183
2888	A sparse deep belief network with efficient fuzzy learning framework. Neural Networks, 2020, 121, 430-440.	3.3	48
2889	Data-Independent Feature Learning with Markov Random Fields in Convolutional Neural Networks. Neurocomputing, 2020, 378, 24-35.	3.5	3
2890	A literature survey on kinship verification through facial images. Neurocomputing, 2020, 377, 213-224.	3.5	24
2891	Condition Monitoring of Machines Using Fused Features From EMD-Based Local Energy With DNN. IEEE Sensors Journal, 2020, 20, 8316-8327.	2.4	37
2892	A Novel Application of Deep Belief Networks in Learning Partial Discharge Patterns for Classifying Corona, Surface, and Internal Discharges. IEEE Transactions on Industrial Electronics, 2020, 67, 3277-3287.	5.2	82
2893	Empirical geodesic graphs and CAT(k) metrics for data analysis. Statistics and Computing, 2020, 30, 1-18.	0.8	6
2894	Constrained Magnetic Resonance Spectroscopic Imaging by Learning Nonlinear Low-Dimensional Models. IEEE Transactions on Medical Imaging, 2020, 39, 545-555.	5.4	34

#	ARTICLE	IF	CITATIONS
2895	Learning Neural Circuit by AC Operation and Frequency Signal Output. Studies in Computational Intelligence, 2020, , 33-49.	0.7	0
2896	Unsupervised representation learning based on the deep multi-view ensemble learning. Applied Intelligence, 2020, 50, 562-581.	3.3	13
2897	An integrated feature learning approach using deep learning for travel time prediction. Expert Systems With Applications, 2020, 139, 112864.	4.4	49
2898	A Deep Transfer Learning Solution for Food Material Recognition Using Electronic Scales. IEEE Transactions on Industrial Informatics, 2020, 16, 2290-2300.	7.2	21
2899	Data clustering based on principal curves. Advances in Data Analysis and Classification, 2020, 14, 77-96.	0.9	9
2900	Co-Learning Feature Fusion Maps From PET-CT Images of Lung Cancer. IEEE Transactions on Medical Imaging, 2020, 39, 204-217.	5.4	144
2901	Choosing the proper autoencoder for feature fusion based on data complexity and classifiers: Analysis, tips and guidelines. Information Fusion, 2020, 54, 44-60.	11.7	29
2902	Gated and attentive neural collaborative filtering for user generated list recommendation. Knowledge-Based Systems, 2020, 187, 104839.	4.0	20
2903	Multi-negative samples with Generative Adversarial Networks for image retrieval. Neurocomputing, 2020, 394, 146-157.	3.5	7
2904	Detection of microcytic hypochromia using cbc and blood film features extracted from convolution neural network by different classifiers. Multimedia Tools and Applications, 2020, 79, 4573-4595.	2.6	23
2905	Combine Topic Modeling with Semantic Embedding: Embedding Enhanced Topic Model. IEEE Transactions on Knowledge and Data Engineering, 2020, 32, 2322-2335.	4.0	12
2906	One deep music representation to rule them all? A comparative analysis of different representation learning strategies. Neural Computing and Applications, 2020, 32, 1067-1093.	3.2	29
2907	A deep learning algorithm using a fully connected sparse autoencoder neural network for landslide susceptibility prediction. Landslides, 2020, 17, 217-229.	2.7	278
2908	Ensemble Adaptation Networks with low-cost unsupervised hyper-parameter search. Pattern Analysis and Applications, 2020, 23, 1215-1224.	3.1	0
2909	Network Embedding via Coupled Kernelized Multi-Dimensional Array Factorization. IEEE Transactions on Knowledge and Data Engineering, 2020, 32, 2414-2425.	4.0	8
2910	Feature learning for fault detection in high-dimensional condition monitoring signals. Proceedings of the Institution of Mechanical Engineers, Part O: Journal of Risk and Reliability, 2020, 234, 104-115.	0.6	15
2911	Generative Model Driven Representation Learning in a Hybrid Framework for Environmental Audio Scene and Sound Event Recognition. IEEE Transactions on Multimedia, 2020, 22, 3-14.	5.2	22
2912	Matching Graph, a Method for Extracting Parallel Information from Comparable Corpora. ACM Transactions on Asian and Low-Resource Language Information Processing, 2020, 19, 1-29.	1.3	0

#	ARTICLE	IF	CITATIONS
2913	Direct Error-Driven Learning for Deep Neural Networks With Applications to Big Data. IEEE Transactions on Neural Networks and Learning Systems, 2020, 31, 1763-1770.	7.2	4
2914	Infinite Lattice Learner: an ensemble for incremental learning. Soft Computing, 2020, 24, 6957-6974.	2.1	0
2915	Sequential Factorized Autoencoder for Localizing the Origin of Ventricular Activation From 12-Lead Electrocardiograms. IEEE Transactions on Biomedical Engineering, 2020, 67, 1505-1516.	2.5	23
2916	Snapshot High Dynamic Range Imaging via Sparse Representations and Feature Learning. IEEE Transactions on Multimedia, 2020, 22, 688-703.	5.2	5
2917	A two-stage attention aware method for train bearing shed oil inspection based on convolutional neural networks. Neurocomputing, 2020, 380, 212-224.	3.5	22
2918	Spoken Language Understanding of Human-Machine Conversations for Language Learning Applications. Journal of Signal Processing Systems, 2020, 92, 805-817.	1.4	5
2919	DEVDAN: Deep evolving denoising autoencoder. Neurocomputing, 2020, 390, 297-314.	3.5	68
2920	Rate Distortion via Deep Learning. IEEE Transactions on Communications, 2020, 68, 456-465.	4.9	3
2921	Laplacian-Uniform Mixture-Driven Iterative Robust Coding With Applications to Face Recognition Against Dense Errors. IEEE Transactions on Neural Networks and Learning Systems, 2020, 31, 3620-3633.	7.2	6
2922	Deep Learning for Generic Object Detection: A Survey. International Journal of Computer Vision, 2020, 128, 261-318.	10.9	1,565
2923	Implementation of DNNs on IoT devices. Neural Computing and Applications, 2020, 32, 1327-1356.	3.2	14
2924	Leveraging deep learning with symbolic sequences for robust head poses estimation. Pattern Analysis and Applications, 2020, 23, 1391-1406.	3.1	1
2925	Machine learning methods for optical communication systems and networks. , 2020, , 921-978.		12
2926	On Kernel Method–Based Connectionist Models and Supervised Deep Learning Without Backpropagation. Neural Computation, 2020, 32, 97-135.	1.3	9
2927	Effect of layer-wise fine-tuning in magnification-dependent classification of breast cancer histopathological image. Visual Computer, 2020, 36, 1755-1769.	2.5	35
2928	A comparative study of data-dependent approaches without learning in measuring similarities of data objects. Data Mining and Knowledge Discovery, 2020, 34, 124-162.	2.4	11
2929	Machine learning in medical imaging. , 2020, , 167-196.		12
2930	Leveraging the Deep Learning Paradigm for Continuous Affect Estimation from Facial Expressions. IEEE Transactions on Affective Computing, 2022, 13, 426-439.	5.7	3

#	Article	IF	Citations
2931	Surrogate-Assisted Robust Optimization of Large-Scale Networks Based on Graph Embedding. IEEE Transactions on Evolutionary Computation, 2020, 24, 735-749.	7.5	32
2932	Combination of Recurrent Neural Network and Deep Learning for Robot Navigation Task in Off-Road Environment. Robotica, 2020, 38, 1450-1462.	1.3	4
2933	Single-slice Alzheimer's disease classification and disease regional analysis with Supervised Switching Autoencoders. Computers in Biology and Medicine, 2020, 116, 103527.	3.9	28
2934	Familial Clustering for Weakly-Labeled Android Malware Using Hybrid Representation Learning. IEEE Transactions on Information Forensics and Security, 2020, 15, 3401-3414.	4.5	43
2935	A survey of deep learning techniques for autonomous driving. Journal of Field Robotics, 2020, 37, 362-386.	3.2	771
2936	Leveraging deep graph-based text representation for sentiment polarity applications. Expert Systems With Applications, 2020, 144, 113090.	4.4	31
2937	Intersections and crosswalk detection using deep learning and image processing techniques. Physica A: Statistical Mechanics and Its Applications, 2020, 543, 123510.	1.2	20
2938	A Perception-Inspired Deep Learning Framework for Predicting Perceptual Texture Similarity. IEEE Transactions on Circuits and Systems for Video Technology, 2020, 30, 3714-3726.	5.6	6
2939	Change Detection in SAR Images Based on Deep Learning. International Journal of Aeronautical and Space Sciences, 2020, 21, 549-559.	1.0	16
2940	Nearshore two-step typhoon wind-wave prediction using deep recurrent neural networks. Journal of Hydroinformatics, 2020, 22, 346-367.	1.1	13
2941	Visual Recognition of traffic police gestures with convolutional pose machine and handcrafted features. Neurocomputing, 2020, 390, 248-259.	3.5	53
2942	Data-driven missing data imputation in cluster monitoring system based on deep neural network. Applied Intelligence, 2020, 50, 860-877.	3.3	40
2943	Robust Deep Learning Architecture for Traffic Flow Estimation from a Subset of Link Sensors. Journal of Transportation Engineering Part A: Systems, 2020, 146, .	0.8	24
2944	Data-Driven Cyber Security in Perspectiveâ€"Intelligent Traffic Analysis. IEEE Transactions on Cybernetics, 2020, 50, 3081-3093.	6.2	78
2945	Axes of a revolution: challenges and promises of big data in healthcare. Nature Medicine, 2020, 26, 29-38.	15.2	206
2946	Seismic Bayesian evidential learning: estimation and uncertainty quantification of sub-resolution reservoir properties. Computational Geosciences, 2020, 24, 1121-1140.	1.2	19
2947	Detecting Gas Turbine Combustor Anomalies Using Semi-supervised Anomaly Detection with Deep Representation Learning. Cognitive Computation, 2020, 12, 398-411.	3.6	26
2948	A deep learning just-in-time modeling approach for soft sensor based on variational autoencoder. Chemometrics and Intelligent Laboratory Systems, 2020, 197, 103922.	1.8	50

#	Article	IF	Citations
2949	Detecting Fatigue Status of Pilots Based on Deep Learning Network Using EEG Signals. IEEE Transactions on Cognitive and Developmental Systems, 2021, 13, 575-585.	2.6	51
2950	A Machine Learning Approach to Detection of Geomagnetically Induced Currents in Power Grids. IEEE Transactions on Industry Applications, 2020, 56, 1098-1106.	3.3	22
2951	Epigenetics Analysis and Integrated Analysis of Multiomics Data, Including Epigenetic Data, Using Artificial Intelligence in the Era of Precision Medicine. Biomolecules, 2020, 10, 62.	1.8	61
2953	PGA-Net: Pyramid Feature Fusion and Global Context Attention Network for Automated Surface Defect Detection. IEEE Transactions on Industrial Informatics, 2020, 16, 7448-7458.	7.2	246
2954	An unsupervised online monitoring method for tool wear using a sparse auto-encoder. International Journal of Advanced Manufacturing Technology, 2020, 106, 2493-2507.	1.5	43
2955	Multimodal deep learning for finance: integrating and forecasting international stock markets. Journal of Supercomputing, 2020, 76, 8294-8312.	2.4	27
2956	A new self-paced method for multiple instance boosting learning. Information Sciences, 2020, 515, 80-90.	4.0	7
2957	A typology of adopters and nonadopters of improved sorghum seeds in Tanzania: A deep learning neural network approach. World Development, 2020, 127, 104839.	2.6	9
2958	A Network Framework for Small-Sample Learning. IEEE Transactions on Neural Networks and Learning Systems, 2020, 31, 4049-4062.	7.2	13
2959	Community-oriented attributed network embedding. Knowledge-Based Systems, 2020, 193, 105418.	4.0	13
2960	Joint Antenna Selection and Hybrid Beamformer Design Using Unquantized and Quantized Deep Learning Networks. IEEE Transactions on Wireless Communications, 2020, 19, 1677-1688.	6.1	100
2961	Realizing Data Features by Deep Nets. IEEE Transactions on Neural Networks and Learning Systems, 2020, 31, 4036-4048.	7.2	8
2962	Deep Convolutional Neural Networks for Customer Churn Prediction Analysis. International Journal of Cognitive Informatics and Natural Intelligence, 2020, 14, 1-16.	0.4	11
2963	An extensive survey on traditional and deep learning-based face sketch synthesis models. International Journal of Information Technology (Singapore), 2020, 12, 995-1004.	1.8	6
2964	Deep learning-based retrieval of cyanobacteria pigment in inland water for in-situ and airborne hyperspectral data. Ecological Indicators, 2020, 110, 105879.	2.6	21
2965	Deep Learning Analysis of Coronary Arteries in Cardiac CT Angiography for Detection of Patients Requiring Invasive Coronary Angiography. IEEE Transactions on Medical Imaging, 2020, 39, 1545-1557.	5.4	43
2966	Research on the parallelization of image quality analysis algorithm based on deep learning. Journal of Visual Communication and Image Representation, 2020, 71, 102709.	1.7	4
2967	Highâ€performance dynamic magnetic resonance image reconstruction and synthesis employing deep feature learning convolutional networks. International Journal of Imaging Systems and Technology, 2020, 30, 380-390.	2.7	4

#	ARTICLE	IF	CITATIONS
2968	Index tracking through deep latent representation learning. Quantitative Finance, 2020, 20, 639-652.	0.9	22
2969	A GPSO-optimized convolutional neural networks for EEG-based emotion recognition. Neurocomputing, 2020, 380, 225-235.	3.5	50
2970	A Convolutional Neural Network With Mapping Layers for Hyperspectral Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 3136-3147.	2.7	25
2971	Deep Learning-Based Detection for Moderate-Density Code Multiple Access in IoT Networks. IEEE Communications Letters, 2020, 24, 122-125.	2.5	11
2972	Automatic classification of single-molecule charge transport data with an unsupervised machine-learning algorithm. Physical Chemistry Chemical Physics, 2020, 22, 1674-1681.	1.3	26
2973	A Deep Transfer Learning Framework for Seismic Data Analysis: A Case Study on Bright Spot Detection. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 3202-3212.	2.7	28
2974	A Gaussian-based model for early detection of mild cognitive impairment using multimodal neuroimaging. Journal of Neuroscience Methods, 2020, 333, 108544.	1.3	26
2975	Multi-view heterogeneous fusion and embedding for categorical attributes on mixed data. Soft Computing, 2020, 24, 10843-10863.	2.1	8
2976	Gaussian mixture embedding of multiple node roles in networks. World Wide Web, 2020, 23, 927-950.	2.7	2
2977	Coupled generative adversarial and auto-encoder neural networks to reconstruct three-dimensional multi-scale porous media. Journal of Petroleum Science and Engineering, 2020, 186, 106794.	2.1	61
2978	Modeling for the bed temperature 2D-interval prediction of CFB boilers based on long-short term memory network. Energy, 2020, 194, 116733.	4.5	24
2979	CRF with deep class embedding for large scale classification. Computer Vision and Image Understanding, 2020, 191, 102865.	3.0	5
2980	Single‐layer multiple‐kernel‐based convolutional neural network for biological Raman spectral analysis. Journal of Raman Spectroscopy, 2020, 51, 414-421.	1.2	29
2981	Hybrid adversarial network for unsupervised domain adaptation. Information Sciences, 2020, 514, 44-55.	4.0	24
2982	Statistical Mechanics of Deep Learning. Annual Review of Condensed Matter Physics, 2020, 11, 501-528.	5.2	117
2983	A new convolutional neural network model for peripapillary atrophy area segmentation from retinal fundus images. Applied Soft Computing Journal, 2020, 86, 105890.	4.1	28
2984	Machine learning for spatiotemporal big data in air pollution. , 2020, , 107-134.		5
2985	Deep Learning Hierarchical Representation From Heterogeneous Flow-Level Communication Data. IEEE Transactions on Information Forensics and Security, 2020, 15, 1525-1540.	4.5	10

#	Article	IF	Citations
2986	Deep relevant representation learning for soft sensing. Information Sciences, 2020, 514, 263-274.	4.0	35
2987	Modeling Hierarchical Brain Networks via Volumetric Sparse Deep Belief Network. IEEE Transactions on Biomedical Engineering, 2020, 67, 1739-1748.	2.5	22
2988	Using deep learning techniques in medical imaging: a systematic review of applications on CT and PET. Artificial Intelligence Review, 2020, 53, 4093-4160.	9.7	90
2989	Machine Learning Coupled Multiâ€Scale Modeling for Redox Flow Batteries. Advanced Theory and Simulations, 2020, 3, 1900167.	1.3	21
2990	Automated Brain Tumor Segmentation Based on Multi-Planar Superpixel Level Features Extracted From 3D MR Images. IEEE Access, 2020, 8, 25335-25349.	2.6	29
2991	Learning Semisupervised Multilabel Fully Convolutional Network for Hierarchical Object Parsing. IEEE Transactions on Neural Networks and Learning Systems, 2020, 31, 1-10.	7.2	14
2992	An Adaptive Deep Belief Network With Sparse Restricted Boltzmann Machines. IEEE Transactions on Neural Networks and Learning Systems, 2020, 31, 4217-4228.	7.2	46
2993	A Deep Supervised Learning Framework for Data-Driven Soft Sensor Modeling of Industrial Processes. IEEE Transactions on Neural Networks and Learning Systems, 2020, 31, 4737-4746.	7.2	63
2994	Mining Data for Financial Applications. Lecture Notes in Computer Science, 2020, , .	1.0	0
2995	ELM embedded discriminative dictionary learning for image classification. Neural Networks, 2020, 123, 331-342.	3.3	19
2996	Deep Clustering With Sample-Assignment Invariance Prior. IEEE Transactions on Neural Networks and Learning Systems, 2020, 31, 4857-4868.	7.2	98
2997	6-PACK: Category-level 6D Pose Tracker with Anchor-Based Keypoints. , 2020, , .		87
2998	Multimodal Emotion Recognition Using Deep Generalized Canonical Correlation Analysis with an Attention Mechanism. , 2020, , .		29
2999	Direction-of-Arrival Estimation in the Low-SNR Regime via a Denoising Autoencoder. , 2020, , .		8
3000	Manifold-based Test Generation for Image Classifiers. , 2020, , .		4
3001	Unsupervised Euclidean Distance Attack on Network Embedding. , 2020, , .		7
3002	Detection for Multisatellite Downlink Signal Based on Generative Adversarial Neural Network. Mathematical Problems in Engineering, 2020, 2020, 1-14.	0.6	0
3003	Automated Intensity Modulated Radiation Therapy Treatment Planning for Cervical Cancer Based on Convolution Neural Network. Technology in Cancer Research and Treatment, 2020, 19, 153303382095700.	0.8	8

#	ARTICLE	IF	CITATIONS
3004	Speech Recognition for Task Domains with Sparse Matched Training Data. Applied Sciences (Switzerland), 2020, 10, 6155.	1.3	3
3005	An Underwater Acoustic Target Recognition Method Based on Restricted Boltzmann Machine. Sensors, 2020, 20, 5399.	2.1	19
3006	Neural circuit policies enabling auditable autonomy. Nature Machine Intelligence, 2020, 2, 642-652.	8.3	98
3007	Clustering Analysis via Deep Generative Models With Mixture Models. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 340-350.	7.2	13
3008	CIDMP: Completely Interpretable Detection of Malaria Parasite in Red Blood Cells using Lower-dimensional Feature Space. , 2020, , .		11
3009	Two-stage Sequential Recommendation via Bidirectional Attentive Behavior Embedding and Long/Short-term Integration. , 2020, , .		1
3010	Invisible Backdoor Attacks on Deep Neural Networks via Steganography and Regularization. IEEE Transactions on Dependable and Secure Computing, 2020, , 1-1.	3.7	72
3011	Defect Detection in Printed Circuit Boards Using You-Only-Look-Once Convolutional Neural Networks. Electronics (Switzerland), 2020, 9, 1547.	1.8	92
3012	AI-driven attenuation correction for brain PET/MRI: Clinical evaluation of a dementia cohort and importance of the training group size. NeuroImage, 2020, 222, 117221.	2.1	47
3013	Compression by and for Deep Boltzmann Machines. IEEE Transactions on Communications, 2020, 68, 7498-7510.	4.9	1
3014	BSD-GAN: Branched Generative Adversarial Network for Scale-Disentangled Representation Learning and Image Synthesis. IEEE Transactions on Image Processing, 2020, 29, 9073-9083.	6.0	10
3015	A Novel THz Differential Spectral Clustering Recognition Method Based on t-SNE. Discrete Dynamics in Nature and Society, 2020, 2020, 1-9.	0.5	2
3016	Untangling the complexity of multimorbidity with machine learning. Mechanisms of Ageing and Development, 2020, 190, 111325.	2.2	23
3017	Wi-HSNN: A subnetwork-based encoding structure for dimension reduction and food classification via harnessing multi-CNN model high-level features. Neurocomputing, 2020, 414, 57-66.	3.5	14
3018	Quality Control of Additively Manufactured Metallic Structures with Machine Learning of Thermography Images. Jom, 2020, 72, 4682-4694.	0.9	20
3019	A hybrid deep learning-based fruit classification using attention model and convolution autoencoder. Complex & Intelligent Systems, 2023, 9, 2209-2219.	4.0	31
3020	Integrating Machine Learning with Human Knowledge. IScience, 2020, 23, 101656.	1.9	95
3021	Cloud2Edge Elastic AI Framework for Prototyping and Deployment of AI Inference Engines in Autonomous Vehicles. Sensors, 2020, 20, 5450.	2.1	10

#	Article	IF	Citations
3022	Deep fisher autoencoder combined with self-organizing map for visual industrial process monitoring. Journal of Manufacturing Systems, 2020, 56, 241-251.	7.6	15
3023	Multitask learning deep neural networks to combine revealed and stated preference data. Journal of Choice Modelling, 2020, 37, 100236.	1.2	19
3024	An Autoencoder Gated Recurrent Unit for Remaining Useful Life Prediction. Processes, 2020, 8, 1155.	1.3	31
3025	Community detection in Networks using Graph Embedding. Procedia Computer Science, 2020, 173, 372-381.	1.2	11
3026	Artificial Intelligence-Based Multiclass Classification of Benign or Malignant Mucosal Lesions of the Stomach. Frontiers in Pharmacology, 2020, 11, 572372.	1.6	15
3027	UVIRTâ€"Unsupervised Virtual Try-on Using Disentangled Clothing and Person Features. Sensors, 2020, 20, 5647.	2.1	6
3028	Learning Multimodal Representations by Symmetrically Transferring Local Structures. Symmetry, 2020, 12, 1504.	1.1	0
3029	Breast Cancer Diagnosis in Histopathological Images Using ResNet-50 Convolutional Neural Network. , 2020, , .		75
3030	Symmetric All Convolutional Neural-Network-Based Unsupervised Feature Extraction for Hyperspectral Images Classification. IEEE Transactions on Cybernetics, 2022, 52, 2981-2993.	6.2	23
3031	A natural language processing approach based on embedding deep learning from heterogeneous compounds for quantitative structureâ€"activity relationship modeling. Chemical Biology and Drug Design, 2020, 96, 961-972.	1.5	7
3032	Pre-trained models for natural language processing: A survey. Science China Technological Sciences, 2020, 63, 1872-1897.	2.0	674
3033	Geometric deep learning for computational mechanics Part I: anisotropic hyperelasticity. Computer Methods in Applied Mechanics and Engineering, 2020, 371, 113299.	3.4	107
3034	A comprehensive review of deep learning in colon cancer. Computers in Biology and Medicine, 2020, 126, 104003.	3.9	125
3035	A comprehensive and systematic look up into deep learning based object detection techniques: A review. Computer Science Review, 2020, 38, 100301.	10.2	110
3036	Joint feature representation and classification via adaptive graph semi-supervised nonnegative matrix factorization. Signal Processing: Image Communication, 2020, 89, 115984.	1.8	13
3037	Deep learning in the construction industry: A review of present status and future innovations. Journal of Building Engineering, 2020, 32, 101827.	1.6	165
3038	Investigating object compositionality in Generative Adversarial Networks. Neural Networks, 2020, 130, 309-325.	3.3	10
3039	Asset returns in deep learning methods: An empirical analysis on SSE 50 and CSI 300. Research in International Business and Finance, 2020, 54, 101291.	3.1	7

#	Article	IF	Citations
3040	Comparison of machine learning methods for the construction of a standalone gait diagnosis device. IET Signal Processing, 2020, 14, 243-250.	0.9	1
3041	Two Decades of AI4NETS - AI/ML for Data Networks: Challenges & Research Directions. , 2020, , .		2
3042	Consistency of Medical Data Using Intelligent Neuron Faster R-CNN Algorithm for Smart Health Care Application. Healthcare (Switzerland), 2020, 8, 185.	1.0	9
3043	CCAE: Cross-field categorical attributes embedding for cancer clinical endpoint prediction. Artificial Intelligence in Medicine, 2020, 107, 101915.	3.8	7
3044	Towards Adversarial Robustness via Feature Matching. IEEE Access, 2020, 8, 88594-88603.	2.6	5
3045	Inverse design of broadband metasurface absorber based on convolutional autoencoder network and inverse design network. Journal Physics D: Applied Physics, 2020, 53, 464002.	1.3	41
3046	Online Fault Detection in Autonomous Ferries: Using Fault-type Independent Spectral Anomaly Detection. IEEE Transactions on Instrumentation and Measurement, 2020, , 1-1.	2.4	14
3047	Backdoor Attacks Against Transfer Learning With Pre-Trained Deep Learning Models. IEEE Transactions on Services Computing, 2022, 15, 1526-1539.	3.2	29
3048	River flow sequence feature extraction and prediction using an enhanced sparse autoencoder. Journal of Hydroinformatics, 2020, 22, 1391-1409.	1.1	3
3049	Riboflow: Using Deep Learning to Classify Riboswitches With â¼499% Accuracy. Frontiers in Bioengineering and Biotechnology, 2020, 8, 808.	2.0	6
3050	A Novel Method for Detection of Tuberculosis in Chest Radiographs Using Artificial Ecosystem-Based Optimisation of Deep Neural Network Features. Symmetry, 2020, 12, 1146.	1.1	102
3051	Two-stage knowledge transfer framework for image classification. Pattern Recognition, 2020, 107, 107529.	5.1	17
3052	Physiology as a Lingua Franca for Clinical Machine Learning. Patterns, 2020, 1, 100017.	3.1	9
3053	Automatic well test interpretation based on convolutional neural network for infinite reservoir. Journal of Petroleum Science and Engineering, 2020, 195, 107618.	2.1	29
3054	ROCKET: exceptionally fast and accurate time series classification using random convolutional kernels. Data Mining and Knowledge Discovery, 2020, 34, 1454-1495.	2.4	359
3055	Toward a Controllable Disentanglement Network. IEEE Transactions on Cybernetics, 2022, 52, 2491-2504.	6.2	4
3056	Non-linear Modeling: Neural Networks. , 2020, , 519-541.		2
3057	SINE: Second-Order Information Network Embedding. IEEE Access, 2020, 8, 139044-139051.	2.6	2

#	Article	IF	Citations
3058	5. Recent advancement of machine learning and deep learning in the field of healthcare system. , 2020, , 77-98.		24
3059	FWNet: Semantic Segmentation for Full-Waveform LiDAR Data Using Deep Learning. Sensors, 2020, 20, 3568.	2.1	13
3060	Measuring Cancer Hallmark Mediation of the TET1 Glioma Survival Effect with Linked Neural-Network Based Mediation Experiments. Scientific Reports, 2020, 10, 8886.	1.6	2
3061	A machine learning approach for handling big data produced by high resolution mass spectrometry after data independent acquisition of small molecules â€" Proof of concept study using an artificial neural network for sample classification. Drug Testing and Analysis, 2020, 12, 836-845.	1.6	20
3062	Deep learning in steganography and steganalysis. , 2020, , 321-349.		35
3063	Blade Rub-Impact Fault Identification Using Autoencoder-Based Nonlinear Function Approximation and a Deep Neural Network. Sensors, 2020, 20, 6265.	2.1	7
3064	Deep Convolutional Neural Network-Based Inverse Filtering Approach for Speech De-Reverberation. , 2020, , .		6
3065	Super resolution DOA estimation based on deep neural network. Scientific Reports, 2020, 10, 19859.	1.6	21
3066	Rational thoughts in neural codes. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 29311-29320.	3.3	14
3067	Classifying Breast Cancer Molecular Subtypes by Using Deep Clustering Approach. Frontiers in Genetics, 2020, 11, 553587.	1.1	10
3068	Machine learning paradigm for structural health monitoring. Structural Health Monitoring, 2021, 20, 1353-1372.	4.3	124
3069	Machine learning for landslides prevention: a survey. Neural Computing and Applications, 2021, 33, 10881-10907.	3.2	96
3070	Exo-atmospheric infrared objects classification based on dual-channel LSTM network. Infrared Physics and Technology, 2020, 111, 103535.	1.3	5
3071	Multi-level host-based intrusion detection system for Internet of things. Journal of Cloud Computing: Advances, Systems and Applications, 2020, 9, .	2.1	42
3072	Using Variational Multi-view Learning for Classification of Grocery Items. Patterns, 2020, 1, 100143.	3.1	4
3073	Violence recognition using convolutional neural network: A survey. Journal of Intelligent and Fuzzy Systems, 2020, 39, 7931-7952.	0.8	6
3074	Deep learning in deep time. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 29268-29270.	3.3	1
3075	P<scp>eax</scp>: Interactive Visual Pattern Search in Sequential Data Using Unsupervised Deep Representation Learning. Computer Graphics Forum, 2020, 39, 167-179.	1.8	20

#	ARTICLE	IF	CITATIONS
3076	A Stacked Denoising Sparse Autoencoder Based Fault Early Warning Method for Feedwater Heater Performance Degradation. Energies, 2020, 13, 6061.	1.6	5
3077	Deep learning suggests that gene expression is encoded in all parts of a co-evolving interacting gene regulatory structure. Nature Communications, 2020, 11, 6141.	5.8	83
3078	Forecasting Electricity Consumption in Commercial Buildings Using a Machine Learning Approach. Energies, 2020, 13, 5885.	1.6	20
3079	Deep Learning in LncRNAome: Contribution, Challenges, and Perspectives. Non-coding RNA, 2020, 6, 47.	1.3	9
3080	Serendipity adjustable application recommendation via joint disentangled recurrent variational auto-encoder. Electronic Commerce Research and Applications, 2020, 44, 101017.	2.5	4
3081	A multimodal approach for multi-label movie genre classification. Multimedia Tools and Applications, 2022, 81, 19071-19096.	2.6	14
3082	Semi-Supervised Source Localization with Deep Generative Modeling. , 2020, , .		16
3083	Brain at Work and in Everyday Life as the Next Frontier: Grand Field Challenges for Neuroergonomics. Frontiers in Neuroergonomics, 2020, 1, .	0.6	42
3084	Deep Learning in Protein Structural Modeling and Design. Patterns, 2020, 1, 100142.	3.1	119
3085	Molecular estimation of neurodegeneration pseudotime in older brains. Nature Communications, 2020, 11, 5781.	5.8	26
3086	Emergency Frequency Control Strategy Using Demand Response Based on Deep Reinforcement Learning. , 2020, , .		0
3087	Exploring Human attitude during Human-Robot Interaction. , 2020, , .		1
3088	Representation learning via a semi-supervised stacked distance autoencoder for image classification. Frontiers of Information Technology and Electronic Engineering, 2020, 21, 1005-1018.	1.5	11
3089	Breast Cancer Histopathology Image Classification Using an Ensemble of Deep Learning Models. Sensors, 2020, 20, 4373.	2.1	124
3090	A Cyclically-Trained Adversarial Network for Invariant Representation Learning. , 2020, , .		2
3091	A web-based intelligence platform for diagnosis of malaria in thick blood smear images: a case for a developing country. , 2020, , .		5
3092	Neural Tensor Completion for Accurate Network Monitoring. , 2020, , .		13
3093	Deformable Generator Networks: Unsupervised Disentanglement of Appearance and Geometry. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, 44, 1162-1179.	9.7	5

#	ARTICLE	IF	CITATIONS
3094	Uncertainty quantification for plant disease detection using Bayesian deep learning. Applied Soft Computing Journal, 2020, 96, 106597.	4.1	61
3095	Deep Clustering with LSTM for Vital Signs Separation in Contact-free Heart Rate Estimation. , 2020, , .		5
3096	MCMT-GAN: Multi-Task Coherent Modality Transferable GAN for 3D Brain Image Synthesis. IEEE Transactions on Image Processing, 2020, 29, 8187-8198.	6.0	28
3097	Time-Series Data Augmentation based on Interpolation. Procedia Computer Science, 2020, 175, 64-71.	1.2	46
3098	Unsupervised Heterogeneous Coupling Learning for Categorical Representation. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, 44, 533-549.	9.7	19
3099	Near-infrared fault detection based on stacked regularized auto-encoder network. Chemometrics and Intelligent Laboratory Systems, 2020, 204, 104101.	1.8	2
3100	Informational and extreme machine learning for onboard recognition system of ground objects. , 2020, , .		1
3101	Detection of coronary artery atherosclerotic disease using novel features from synchrosqueezing transform of phonocardiogram. Biomedical Signal Processing and Control, 2020, 62, 102055.	3.5	16
3102	Representation Learning for Electronic Health Records: A Survey. Journal of Physics: Conference Series, 2020, 1487, 012015.	0.3	2
3103	Transferring Deep Belief Networks for the Classification of LANDSAT8 Remote Sensing Imagery. Journal of Physics: Conference Series, 2020, 1544, 012106.	0.3	1
3104	A multi-scale 3D convolution neural network for spectral-spatial classification of hyperspectral imagery. IOP Conference Series: Earth and Environmental Science, 2020, 502, 012015.	0.2	3
3105	Micro-crack detection of solar cell based on adaptive deep features and visual saliency. Sensor Review, 2020, 40, 385-396.	1.0	5
3106	Dual Encoder-Decoder Based Generative Adversarial Networks for Disentangled Facial Representation Learning. IEEE Access, 2020, 8, 130159-130171.	2.6	9
3107	Feature learning for representing sparse networks based on random walks. Intelligent Data Analysis, 2020, 24, 873-886.	0.4	1
3108	Adherence to Vaccination Policy among Public Health Professionals: Results of a National Survey in Italy. Vaccines, 2020, 8, 379.	2.1	15
3109	A deep learning system to obtain the optimal parameters for a threshold-based breast and dense tissue segmentation. Computer Methods and Programs in Biomedicine, 2020, 195, 105668.	2.6	21
3110	Deep representation learning of electronic health records to unlock patient stratification at scale. Npj Digital Medicine, 2020, 3, 96.	5.7	90
3111	Relation-Guided Representation Learning. Neural Networks, 2020, 131, 93-102.	3.3	34

#	Article	IF	Citations
3112	Deep Learning Enabled Laser Speckle Wavemeter with a High Dynamic Range. Laser and Photonics Reviews, 2020, 14, 2000120.	4.4	47
3113	The QSAR similarity principle in the deep learning era: Confirmation or revision?. Foundations of Chemistry, 2020, 22, 383-402.	0.4	7
3114	DMRAE: discriminative manifold regularized auto-encoder for sparse and robust feature learning. Progress in Artificial Intelligence, 2020, 9, 263-274.	1.5	4
3115	Multi-step ahead forecasting of regional air quality using spatial-temporal deep neural networks: A case study of Huaihai Economic Zone. Journal of Cleaner Production, 2020, 277, 123231.	4.6	47
3116	Improving convolutional neural network for text classification by recursive data pruning. Neurocomputing, 2020, 414, 143-152.	3.5	24
3117	Deep learning methods in network intrusion detection: A survey and an objective comparison. Journal of Network and Computer Applications, 2020, 169, 102767.	5.8	177
3118	Automated River Plastic Monitoring Using Deep Learning and Cameras. Earth and Space Science, 2020, 7, e2019EA000960.	1.1	61
3119	Learned Low Bit-rate Image Compression with Adversarial Mechanism. , 2020, , .		5
3120	Cognitively-Inspired Model for Incremental Learning Using a Few Examples. , 2020, , .		24
3121	Using a distributed deep learning algorithm for analyzing big data in smart cities. Smart and Sustainable Built Environment, 2020, 10, 90-105.	2.2	9
3122	Path Planning Method With Improved Artificial Potential Field—A Reinforcement Learning Perspective. IEEE Access, 2020, 8, 135513-135523.	2.6	86
3123	Unsupervised Feature Learning to Improve Transferability of Landslide Susceptibility Representations. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2020, 13, 3917-3930.	2.3	31
3124	Improving Generative Modelling in VAEs Using Multimodal Prior. IEEE Transactions on Multimedia, 2021, 23, 2153-2161.	5.2	4
3125	Charting the Right Manifold: Manifold Mixup for Few-shot Learning. , 2020, , .		165
3127	A mutual information-based Variational Autoencoder for robust JIT soft sensing with abnormal observations. Chemometrics and Intelligent Laboratory Systems, 2020, 204, 104118.	1.8	9
3128	Alzheimer's Disease stage identification using deep learning models. Journal of Biomedical Informatics, 2020, 109, 103514.	2.5	32
3129	The data representativeness criterion: Predicting the performance of supervised classification based on data set similarity. PLoS ONE, 2020, 15, e0237009.	1.1	17
3130	Analytical Model of Electron Density and Its Machine Learning Inference. Journal of Chemical Information and Modeling, 2020, 60, 3831-3842.	2.5	17

#	Article	IF	Citations
3131	Combination of Convolutional Neural Networks and Recurrent Neural Networks for predicting soil properties using Vis–NIR spectroscopy. Geoderma, 2020, 380, 114616.	2.3	70
3132	Rethinking Zero-Shot Video Classification: End-to-End Training for Realistic Applications. , 2020, , .		64
3133	Learning to Observe: Approximating Human Perceptual Thresholds for Detection of Suprathreshold Image Transformations. , 2020, , .		4
3134	Inverse Feature Learning: Feature Learning Based on Representation Learning of Error. IEEE Access, 2020, 8, 132937-132949.	2.6	0
3135	Semantic segmentation of cerebrospinal fluid and brain volume with a convolutional neural network in pediatric hydrocephalus–transfer learning from existing algorithms. Acta Neurochirurgica, 2020, 162, 2463-2474.	0.9	18
3136	Convolutional neural networks for relevance feedback in content based image retrieval. Multimedia Tools and Applications, 2020, 79, 26995-27021.	2.6	26
3137	Detection of Mesangial hypercellularity of MEST-C score in immunoglobulin A-nephropathy using deep convolutional neural network. Multimedia Tools and Applications, 2020, 79, 27683-27703.	2.6	5
3138	Nocturnal low glucose detection in healthy elderly from one-lead ECG using convolutional denoising autoencoders. Biomedical Signal Processing and Control, 2020, 62, 102054.	3.5	18
3139	A Comparison of Unidirectional and Bidirectional LSTM Networks for Human Activity Recognition. , 2020, , .		23
3140	A Survey on Large-Scale Machine Learning. IEEE Transactions on Knowledge and Data Engineering, 2020, , 1-1.	4.0	43
3141	Perceptual bias and technical metapictures: critical machine vision as a humanities challenge. AI and Society, 2021, 36, 1133-1144.	3.1	19
3142	Kernel-blending connection approximated by a neural network for image classification. Computational Visual Media, 2020, 6, 467-476.	10.8	15
3143	A sensor fault detection scheme of DFIG-based wind turbine using deep auto-encoder approach. , 2020, , .		1
3144	Multimodal Emotion Recognition in Polish (Student Consortium). , 2020, , .		1
3145	BalNode2Vec: Balanced Random Walk based Versatile Feature Learning for Networks. , 2020, , .		0
3146	Towards Interpretable Arrhythmia Classification With Human-Machine Collaborative Knowledge Representation. IEEE Transactions on Biomedical Engineering, 2021, 68, 2098-2109.	2.5	16
3147	Deep Variational Autoencoder for Mapping Functional Brain Networks. IEEE Transactions on Cognitive and Developmental Systems, 2021, 13, 841-852.	2.6	13
3148	Short-Term Cost Forecasting of EV Battery Using LSTM Network. , 2020, , .		1

#	ARTICLE	IF	CITATIONS
3149	A Deep Learning-Based Cad System For Renal Allograft Assessment: Diffusion, Bold, And Clinical Biomarkers. , 2020, 2020, 355-359.		4
3150	OIAD: One-for-all Image Anomaly Detection with Disentanglement Learning. , 2020, , .		3
3151	Towards Semantically Scalable Image Coding using Semantic Map. , 2020, , .		1
3152	Interpretable Representation Learning for Speech and Audio Signals Based on Relevance Weighting. IEEE/ACM Transactions on Audio Speech and Language Processing, 2020, 28, 2823-2836.	4.0	13
3153	Evolving Connections in Group of Neurons for Robust Learning. IEEE Transactions on Cybernetics, 2022, 52, 3069-3082.	6.2	3
3154	Detection of Event of Interest for Satellite Video Understanding. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 7860-7871.	2.7	18
3155	Deep Learning and Genome-Wide Association Studies for the Classification of Type 2 Diabetes. , 2020, , .		4
3156	Regularized Training of Convolutional Autoencoders using the RÃ©nyi-Stratonovich Value of Information. , 2020, , .		0
3157	Anomaly Detection Based on Unsupervised Disentangled Representation Learning in Combination with Manifold Learning. , 2020, , .		5
3158	Evolving Deep Convolutional Neural Networks for Hyperspectral Image Denoising. , 2020, , .		5
3159	Regularized Wasserstein Means for Aligning Distributional Data. Proceedings of the AAAI Conference on Artificial Intelligence, 2020, 34, 5166-5173.	3.6	7
3160	Learning representations in Bayesian Confidence Propagation neural networks. , 2020, , .		6
3161	Learning Word Representation for the Cyber Security Vulnerability Domain. , 2020, , .		7
3162	Clinical concept extraction using transformers. Journal of the American Medical Informatics Association: JAMIA, 2020, 27, 1935-1942.	2.2	71
3163	EEG feature learning with Intrinsic Plasticity based Deep Echo State Network. , 2020, , .		6
3164	Dual Supervised Autoencoder Based Trajectory Classification Using Enhanced Spatio-Temporal Information. IEEE Access, 2020, 8, 173918-173932.	2.6	6
3165	Unsupervised Learning From Limited Available Data by Î²-NMF and Dual Autoencoder. , 2020, , .		2
3166	Anonymous Model Pruning for Compressing Deep Neural Networks. , 2020, , .		2

#	ARTICLE	IF	CITATIONS
3167	Robot Motor Skill Transfer With Alternate Learning in Two Spaces. IEEE Transactions on Neural Networks and Learning Systems, 2021, 32, 4553-4564.	7.2	4
3168	REAF: Reducing Approximation of Channels by Reducing Feature Reuse Within Convolution. IEEE Access, 2020, 8, 169957-169965.	2.6	3
3169	RPI-MCNNBLSTM: BLSTM Networks Combining With Multiple Convolutional Neural Network Models to Predict RNA-Protein Interactions Using Multiple Biometric Features Codes. IEEE Access, 2020, 8, 189869-189877.	2.6	2
3170	Contrastive Representation Learning: A Framework and Review. IEEE Access, 2020, 8, 193907-193934.	2.6	293
3171	Reinforcement Learning Meets Cognitive Situation Management: A Review of Recent Learning Approaches from the Cognitive Situation Management Perspective. , 2020, , .		2
3172	Iterative Cauchy Thresholding: Regularisation With A Heavy-Tailed Prior. , 2020, , .		1
3173	End-to-End Deep Kernel Map Design for Image Annotation. , 2020, , .		1
3174	Condition-Based Monitoring in Variable Machine Running Conditions Using Low-Level Knowledge Transfer With DNN. IEEE Transactions on Automation Science and Engineering, 2021, 18, 1983-1997.	3.4	16
3175	Depth Selection for Deep ReLU Nets in Feature Extraction and Generalization. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, 44, 1853-1868.	9.7	16
3176	Deep Learning for Sentiment Analysis Based on Customer Reviews. , 2020, , .		13
3177	Interpreting Variational Autoencoders with Fuzzy Logic: A step towards interpretable deep learning based fuzzy classifiers. , 2020, , .		5
3178	The Role of Machine Learning in Spine Surgery: The Future Is Now. Frontiers in Surgery, 2020, 7, 54.	0.6	56
3179	Understanding the role of individual units in a deep neural network. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 30071-30078.	3.3	176
3180	Deep learning for dayâ€ahead electricity price forecasting. IET Smart Grid, 2020, 3, 462-469.	1.5	27
3181	Bibliometric Analysis of the Application of Convolutional Neural Network in Computer Vision. IEEE Access, 2020, 8, 155417-155428.	2.6	7
3182	Encoderâ€"Decoder Full Residual Deep Networks for Robust Regression and Spatiotemporal Estimation. IEEE Transactions on Neural Networks and Learning Systems, 2021, 32, 4217-4230.	7.2	17
3183	Toward Packet Routing With Fully Distributed Multiagent Deep Reinforcement Learning. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 855-868.	5.9	28
3184	Privacy Risks of General-Purpose Language Models. , 2020, , .		33

#	ARTICLE	IF	CITATIONS
3185	Detecting face presentation attacks in mobile devices with a patch-based CNN and a sensor-aware loss function. PLoS ONE, 2020, 15, e0238058.	1.1	22
3186	Neural Attentive Knowledge Tracing Model for Student Performance Prediction. , 2020, , .		0
3187	Automatic Diabetic Retinopathy Grading via Self-Knowledge Distillation. Electronics (Switzerland), 2020, 9, 1337.	1.8	24
3188	Machine learning and AI in marketing â€" Connecting computing power to human insights. International Journal of Research in Marketing, 2020, 37, 481-504.	2.4	220
3189	OCT Image Recognition of Cardiovascular Vulnerable Plaque Based on CNN. IEEE Access, 2020, 8, 140767-140776.	2.6	9
3190	Generating In-Between Images Through Learned Latent Space Representation Using Variational Autoencoders. IEEE Access, 2020, 8, 149456-149467.	2.6	10
3191	Variations in Variational Autoencoders - A Comparative Evaluation. IEEE Access, 2020, 8, 153651-153670.	2.6	37
3192	Integrated Sparse Coding With Graph Learning for Robust Data Representation. IEEE Access, 2020, 8, 161245-161260.	2.6	6
3193	Deep Learning for Intake Gesture Detection From Wrist-Worn Inertial Sensors: The Effects of Data Preprocessing, Sensor Modalities, and Sensor Positions. IEEE Access, 2020, 8, 164936-164949.	2.6	13
3194	Enhanced Kernel-Based Multilayer Fuzzy Weighted Extreme Learning Machines. IEEE Access, 2020, 8, 166246-166260.	2.6	3
3195	The definition and measurement of heterogeneity. Translational Psychiatry, 2020, 10, 299.	2.4	20
3196	Using Deep Learning to Develop a Stock Price Prediction Model Based on Individual Investor Emotions. Journal of Behavioral Finance, 2021, 22, 480-489.	0.8	13
3197	Contrastive Self-Supervised Hashing With Dual Pseudo Agreement. IEEE Access, 2020, 8, 165034-165043.	2.6	5
3198	Quality Control on Manufacturing Computer Keyboards Using Multilevel Deep Neural Networks. , 2020, , .		0
3199	A Novel Parameter Initialization Technique Using RBM-NN for Human Action Recognition. Computational Intelligence and Neuroscience, 2020, 2020, 1-30.	1.1	2
3200	DL-IDS: Extracting Features Using CNN-LSTM Hybrid Network for Intrusion Detection System. Security and Communication Networks, 2020, 2020, 1-11.	1.0	79
3201	Representation Learning from Limited Educational Data with Crowdsourced Labels. IEEE Transactions on Knowledge and Data Engineering, 2020, , 1-1.	4.0	5
3202	Enhanced Unsupervised Graph Embedding via Hierarchical Graph Convolution Network. Mathematical Problems in Engineering, 2020, 2020, 1-9.	0.6	3

#	Article	IF	Citations
3203	TL-Net: A Novel Network for Transmission Line Scenes Classification. Energies, 2020, 13, 3910.	1.6	2
3204	Feature Extraction of Laser Machining Data by Using Deep Multi-Task Learning. Information (Switzerland), 2020, 11, 378.	1.7	11
3205	VAE-Sim: A Novel Molecular Similarity Measure Based on a Variational Autoencoder. Molecules, 2020, 25, 3446.	1.7	23
3206	Deep convolutional neural network recovers pure absorbance spectra from highly scatterâ€distorted spectra of cells. Journal of Biophotonics, 2020, 13, e202000204.	1.1	14
3207	Fog Data Analytics for IoT Applications. Studies in Big Data, 2020, , .	0.8	10
3208	Enhancing Generic Segmentation With Learned Region Representations. , 2020, , .		2
3209	Associate-3Ddet: Perceptual-to-Conceptual Association for 3D Point Cloud Object Detection. , 2020, , .		56
3210	On the Use of Artificial Intelligence for High Impedance Fault Detection and Electrical Safety. IEEE Transactions on Industry Applications, 2020, 56, 7208-7216.	3.3	49
3211	AI in actuarial science â€" a review of recent advances â€" part 1. Annals of Actuarial Science, 2021, 15, 207-229.	1.0	21
3212	Defect Detection Using Combined Deep Autoencoder and Classifier for Small Sample Size. , 2020, , .		4
3213	Representation Learning of Knowledge Graphs with Embedding Subspaces. Scientific Programming, 2020, 2020, 1-10.	0.5	3
3214	Distinguishing Oracle Variants Based on the Isomorphism and Symmetry Invariances of Oracle-Bone Inscriptions. IEEE Access, 2020, 8, 152258-152275.	2.6	4
3215	End-to-end audio-scene classification from raw audio: Multi time-frequency resolution CNN architecture for efficient representation learning. , 2020, , .		5
3216	Adaptive bagâ€ofâ€visual word modelling using stackedâ€autoencoder and particle swarm optimisation for the unsupervised categorisation of images. IET Image Processing, 2020, 14, 1769-1776.	1.4	2
3217	Exploring Deep Learning-Based Architecture, Strategies, Applications and Current Trends in Generic Object Detection: A Comprehensive Review. IEEE Access, 2020, 8, 170461-170495.	2.6	86
3218	GMFAD: Towards Generalized Visual Recognition via Multilayer Feature Alignment and Disentanglement. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, 44, 1289-1303.	9.7	4
3219	Cross-Validation Approach to Evaluate Clustering Algorithms: An Experimental Study Using Multi-Label Datasets. SN Computer Science, 2020, 1, 1.	2.3	9
3220	A training algorithm for networks of high-variability reservoirs. Scientific Reports, 2020, 10, 14451.	1.6	7

#	Article	IF	Citations
3221	A semi-greedy neural network CAE-HL-CNN for SAR target recognition with limited training data. International Journal of Remote Sensing, 2020, 41, 7889-7911.	1.3	10
3222	Multi-faceted modelling for strip breakage in cold rolling using machine learning. International Journal of Production Research, 2021, 59, 6347-6360.	4.9	9
3223	Exploring Unique Relevance for Mutual Information based Feature Selection. , 2020, , .		1
3224	Deep-broad Learning System for Traffic Flow Prediction toward 5G Cellular Wireless Network. , 2020, , .		16
3225	A Comparative Study of VMD-Based Hybrid Forecasting Model for Nonstationary Daily Streamflow Time Series. Complexity, 2020, 2020, 1-21.	0.9	18
3226	Deep Adversarial Canonical Correlation Analysis. , 2020, , 352-360.		9
3227	A Low-Dimensional Representation Learning Method for Text Classification and Clustering. , 2020, , .		1
3228	AC Cooling Time Prediction Using Common Representation Model. IEEE Access, 2020, 8, 131534-131544.	2.6	6
3229	G3AN: Disentangling Appearance and Motion for Video Generation. , 2020, , .		45
3230	Video Big Data Analytics in the Cloud: A Reference Architecture, Survey, Opportunities, and Open Research Issues. IEEE Access, 2020, 8, 152377-152422.	2.6	17
3231	Global-Local Bidirectional Reasoning for Unsupervised Representation Learning of 3D Point Clouds. , 2020, , .		70
3232	Towards Unsupervised Learning of Generative Models for 3D Controllable Image Synthesis. , 2020, , .		49
3233	Deepti: Deep-Learning-Based Tropical Cyclone Intensity Estimation System. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2020, 13, 4271-4281.	2.3	33
3234	Deep Learning Based Reduced Order Model for Airfoil-Gust and Aeroelastic Interaction. AIAA Journal, 2020, 58, 4304-4321.	1.5	26
3235	A Multi-Scale Feature Fusion Method Based on U-Net for Retinal Vessel Segmentation. Entropy, 2020, 22, 811.	1.1	30
3236	On the Use of Concentrated Timeâ€"Frequency Representations as Input to a Deep Convolutional Neural Network: Application to Non Intrusive Load Monitoring. Entropy, 2020, 22, 911.	1.1	23
3237	Brain Tumour Image Segmentation Using Deep Networks. IEEE Access, 2020, 8, 153589-153598.	2.6	60
3238	S3VAE: Self-Supervised Sequential VAE for Representation Disentanglement and Data Generation. , 2020, , .		29

#	Article	IF	Citations
3239	Learning to Manipulate Individual Objects in an Image. , 2020, , .		7
3240	NestedVAE: Isolating Common Factors via Weak Supervision. , 2020, , .		5
3242	A Novel Deep Similarity Learning Approach to Electronic Health Records Data. IEEE Access, 2020, 8, 209278-209295.	2.6	17
3243	One-dimension hierarchical local receptive fields based extreme learning machine for radar target HRRP recognition. Neurocomputing, 2020, 418, 314-325.	3.5	10
3244	Designing accurate emulators for scientific processes using calibration-driven deep models. Nature Communications, 2020, 11, 5622.	5.8	15
3245	SpineNet-6mA: A Novel Deep Learning Tool for Predicting DNA N6-Methyladenine Sites in Genomes. IEEE Access, 2020, 8, 201450-201457.	2.6	31
3246	An Unsupervised Intelligent Method for Cutting Pick State Recognition of Coal Mining Shearer. IEEE Access, 2020, 8, 196647-196656.	2.6	1
3247	3DRTE: 3D Rotation Embedding in Temporal Knowledge Graph. IEEE Access, 2020, 8, 207515-207523.	2.6	5
3248	Robust Neural Networks Learning via a Minimization of Stochastic Output Sensitivity. IEEE Access, 2020, 8, 205455-205466.	2.6	0
3249	Network Representation Learning: From Traditional Feature Learning to Deep Learning. IEEE Access, 2020, 8, 205600-205617.	2.6	20
3250	An Evolutionary DenseRes Deep Convolutional Neural Network for Medical Image Segmentation. IEEE Access, 2020, 8, 212298-212314.	2.6	16
3251	A Multimodal Clustering Framework With Cross Reconstruction Autoencoders. IEEE Access, 2020, 8, 218433-218443.	2.6	2
3252	Short Text Embedding Autoencoders With Attention-Based Neighborhood Preservation. IEEE Access, 2020, 8, 223156-223171.	2.6	1
3253	The Variational InfoMax AutoEncoder. , 2020, , .		2
3254	Multimodal Disentangled Domain Adaption for Social Media Event Rumor Detection. IEEE Transactions on Multimedia, 2021, 23, 4441-4454.	5.2	18
3255	Sentiment Analysis of Social Media via Multimodal Feature Fusion. Symmetry, 2020, 12, 2010.	1.1	23
3256	Review of Semi-Supervised Learning Methods for Medical Computer-Aided Diagnosis Systems. , 2020, , .		0
3257	Deep feature learning of in-cylinder flow fields to analyze cycle-to-cycle variations in an SI engine. International Journal of Engine Research, 2020, , 146808742097414.	1.4	15

#	ARTICLE	IF	CITATIONS
3258	Underwater Topography Inversion in Liaodong Shoal Based on GRU Deep Learning Model. Remote Sensing, 2020, 12, 4068.	1.8	11
3259	A Multimodel Decision Fusion Method Based on DCNN-IDST for Fault Diagnosis of Rolling Bearing. Shock and Vibration, 2020, 2020, 1-12.	0.3	6
3260	Machine Learning Feature Extraction Based on Binary Pixel Quantification Using Low-Resolution Images for Application of Unmanned Ground Vehicles in Apple Orchards. Agronomy, 2020, 10, 1926.	1.3	4
3261	An Efficient Deep-Learning-Based Detection and Classification System for Cyber-Attacks in IoT Communication Networks. Electronics (Switzerland), 2020, 9, 2152.	1.8	64
3262	VODCA: Verification of Diagnosis Using CAM-Based Approach for Explainable Process Monitoring. Sensors, 2020, 20, 6858.	2.1	7
3263	Using deep learning to solve computer security challenges: a survey. Cybersecurity, 2020, 3, .	3.1	20
3264	The Development of Electromechanical Actuator Mathematical Model for Fault Identification Using Data Mining Methods. , 2020, , .		4
3265	Rare Failure Prediction Using an Integrated Auto-encoder and Bidirectional Gated Recurrent Unit Network. IFAC-PapersOnLine, 2020, 53, 276-282.	0.5	4
3266	Deep learning-based cross-classifications reveal conserved spatial behaviors within tumor histological images. Nature Communications, 2020, 11, 6367.	5.8	108
3267	Predicting Traffic Volume and Occupancy at Failed Detectors. Transportation Research Procedia, 2020, 48, 1072-1083.	0.8	2
3268	Social Data Science Xennials. , 2020, , .		3
3271	A novel unsupervised learning method for intelligent fault diagnosis of rolling element bearings based on deep functional auto-encoder. Journal of Mechanical Science and Technology, 2020, 34, 4367-4381.	0.7	19
3272	Consistent constraint-based video-level learning for action recognition. Eurasip Journal on Image and Video Processing, 2020, 2020, .	1.7	1
3273	Dynamic Data Retrieval Using Incremental Clustering and Indexing. International Journal of Information Retrieval Research, 2020, 10, 74-91.	0.6	1
3274	Transmission Line Scene Classification Based on Light-VGGNet. Journal of Physics: Conference Series, 2020, 1631, 012038.	0.3	0
3275	Neuron Blockchain Algorithm for Legal Problems in Inheritance of Legacy. Electronics (Switzerland), 2020, 9, 1595.	1.8	5
3276	DeepSSV: detecting somatic small variants in paired tumor and normal sequencing data with convolutional neural network. Briefings in Bioinformatics, 2021, 22, .	3.2	9
3277	Neutrino interaction classification with a convolutional neural network in the DUNE far detector. Physical Review D, 2020, 102, .	1.6	19

#	Article	IF	Citations
3278	FPGA Acceleration of CNNs-Based Malware Traffic Classification. Electronics (Switzerland), 2020, 9, 1631.	1.8	7
3279	Effective Melanoma Recognition Using Deep Convolutional Neural Network with Covariance Discriminant Loss. Sensors, 2020, 20, 5786.	2.1	2
3280	Investigation of the influences of the process parameters on the weld depth in laser beam welding of AA6082 using machine learning methods. Procedia CIRP, 2020, 94, 702-707.	1.0	5
3281	Small Data Challenges in Big Data Era: A Survey of Recent Progress on Unsupervised and Semi-Supervised Methods. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, 44, 2168-2187.	9.7	105
3282	Traffic Classification Based on Graph Convolutional Network. , 2020, , .		3
3283	M2GSNet: Multi-Modal Multi-Task Graph Spatiotemporal Network for Ultra-Short-Term Wind Farm Cluster Power Prediction. Applied Sciences (Switzerland), 2020, 10, 7915.	1.3	20
3284	An Effective and Improved CNN-ELM Classifier for Handwritten Digits Recognition and Classification. Symmetry, 2020, 12, 1742.	1.1	24
3285	Selective Cascade of Residual ExtraTrees. SN Computer Science, 2020, 1, 1.	2.3	0
3286	Learning image features with fewer labels using a semi-supervised deep convolutional network. Neural Networks, 2020, 132, 131-143.	3.3	14
3287	Semantically Scalable Image Coding With Compression of Feature Maps. , 2020, , .		5
3288	A Hybrid Approach for Intrusive Appliance Load Monitoring in Smart Home. , 2020, , .		3
3289	Forecasting the Demand for Container Throughput Using a Mixed-Precision Neural Architecture Based on CNNâ€"LSTM. Mathematics, 2020, 8, 1784.	1.1	16
3290	P-NUT: Predicting NUTrient Content from Short Text Descriptions. Mathematics, 2020, 8, 1811.	1.1	11
3291	Synthesis of Prostate MR Images for Classification Using Capsule Network-Based GAN Model. Sensors, 2020, 20, 5736.	2.1	14
3292	A Novel Error Correction Approach to Improve Standard Point Positioning of Integrated BDS/GPS. Sensors, 2020, 20, 6162.	2.1	3
3293	Video Anomaly Detection using Convolutional Spatiotemporal Autoencoder. , 2020, , .		12
3294	Locally linear back-propagation based contribution for nonlinear process fault diagnosis. IEEE/CAA Journal of Automatica Sinica, 2020, 7, 764-775.	8.5	15
3295	An Integrated Scheme for Online Dynamic Security Assessment Based on Partial Mutual Information and Iterated Random Forest. IEEE Transactions on Smart Grid, 2020, 11, 3606-3619.	6.2	47

#	ARTICLE	IF	CITATIONS
3296	Fusion of deep-learned and hand-crafted features for cancelable recognition systems. Soft Computing, 2020, 24, 15189-15208.	2.1	17
3297	TAPER: Time-Aware Patient EHR Representation. IEEE Journal of Biomedical and Health Informatics, 2020, 24, 3268-3275.	3.9	36
3298	Learning Molecular Representations for Medicinal Chemistry. Journal of Medicinal Chemistry, 2020, 63, 8705-8722.	2.9	105
3299	Machine learning techniques for biomedical image segmentation: An overview of technical aspects and introduction to state‐of‐art applications. Medical Physics, 2020, 47, e148-e167.	1.6	151
3300	Mean-field inference methods for neural networks. Journal of Physics A: Mathematical and Theoretical, 2020, 53, 223002.	0.7	18
3301	Graph Convolutional Architectures via Arbitrary Order of Information Aggregation. IEEE Access, 2020, 8, 92802-92813.	2.6	1
3302	Protein Interaction Network Reconstruction Through Ensemble Deep Learning With Attention Mechanism. Frontiers in Bioengineering and Biotechnology, 2020, 8, 390.	2.0	21
3303	Construction of cascaded depth model based on boosting feature selection and classification. Evolutionary Intelligence, 2020, , 1.	2.3	0
3304	EvoAAA: An evolutionary methodology for automated neural autoencoder architecture search. Integrated Computer-Aided Engineering, 2020, 27, 211-231.	2.5	7
3305	Machine learning after the deep learning revolution. Frontiers of Computer Science, 2020, 14, 1.	1.6	8
3306	Partial Discharge Localization in 3-D With a Multi-DNN Model Based on a Virtual Measurement Method. IEEE Access, 2020, 8, 87434-87445.	2.6	8
3307	Microfluidic Synthesis of Luminescent and Plasmonic Nanoparticles: Fast, Efficient, and Data‐Rich. Advanced Materials Technologies, 2020, 5, .	3.0	49
3308	Potential, challenges and future directions for deep learning in prognostics and health management applications. Engineering Applications of Artificial Intelligence, 2020, 92, 103678.	4.3	245
3309	Landsat 8 OLI Satellite Image Classification using Convolutional Neural Network. Procedia Computer Science, 2020, 167, 987-993.	1.2	14
3310	A parallel neural network structure for sentiment classification of MOOCs discussion forums. Journal of Intelligent and Fuzzy Systems, 2020, 38, 4915-4927.	0.8	5
3311	MLGaze: Machine Learning-Based Analysis of Gaze Error Patterns in Consumer Eye Tracking Systems. Vision (Switzerland), 2020, 4, 25.	0.5	5
3312	Embedding Encoder-Decoder With Attention Mechanism for Monaural Speech Enhancement. IEEE Access, 2020, 8, 96677-96685.	2.6	6
3313	Semantic Segmentation to Develop an Indoor Navigation System for an Autonomous Mobile Robot. Mathematics, 2020, 8, 855.	1.1	21

#	Article	IF	Citations
3314	Micromechanics-based surrogate models for the response of composites: A critical comparison between a classical mesoscale constitutive model, hyper-reduction and neural networks. European Journal of Mechanics, A/Solids, 2020, 82, 103995.	2.1	40
3315	Identification of Potential PBT/POP-Like Chemicals by a Deep Learning Approach Based on 2D Structural Features. Environmental Science & Technology, 2020, 54, 8221-8231.	4.6	26
3316	Biosystems Design by Machine Learning. ACS Synthetic Biology, 2020, 9, 1514-1533.	1.9	76
3317	Combining a gradient-based method and an evolution strategy for multi-objective reinforcement learning. Applied Intelligence, 2020, 50, 3301-3317.	3.3	10
3318	On semi-supervised multiple representation behavior learning. Journal of Computational Science, 2020, 46, 101111.	1.5	1
3319	Short-Term Load Forecasting Based on Deep Neural Networks Using LSTM Layer. Journal of Electrical Engineering and Technology, 2020, 15, 1501-1509.	1.2	68
3320	Deep Neural Network Enabled Space Group Identification in EBSD. Microscopy and Microanalysis, 2020, 26, 447-457.	0.2	21
3321	Deep Learners and Deep Learner Descriptors for Medical Applications. Intelligent Systems Reference Library, 2020, , .	1.0	3
3322	A systematic review of deep transfer learning for machinery fault diagnosis. Neurocomputing, 2020, 407, 121-135.	3.5	253
3323	Deep Learning in Next-Frame Prediction: A Benchmark Review. IEEE Access, 2020, 8, 69273-69283.	2.6	35
3324	DONE: Enhancing network embedding via greedy vertex domination. Neurocomputing, 2020, 410, 71-82.	3.5	2
3325	A Multilayered-and-Randomized Latent Factor Model for High-Dimensional and Sparse Matrices. IEEE Transactions on Big Data, 2022, 8, 784-794.	4.4	42
3326	Artificial Intelligence Applications and Innovations. AIAI 2020 IFIP WG 12.5 International Workshops. IFIP Advances in Information and Communication Technology, 2020, , .	0.5	7
3327	Topology optimization based on deep representation learning (DRL) for compliance and stress-constrained design. Computational Mechanics, 2020, 66, 449-469.	2.2	31
3328	Multi-label charge predictions leveraging label co-occurrence in imbalanced data scenario. Soft Computing, 2020, 24, 17821-17846.	2.1	5
3329	An information-theoretic instance-based classifier. Information Sciences, 2020, 536, 263-276.	4.0	1
3330	Deep density-based image clustering. Knowledge-Based Systems, 2020, 197, 105841.	4.0	57
3331	Short-term electricity price forecasting G-LSTM model and economic dispatch for distribution system. IOP Conference Series: Earth and Environmental Science, 2020, 467, 012186.	0.2	3

#	ARTICLE	IF	CITATIONS
3332	Cancer-Related Gene Signature Selection Based on Boosted Regression for Multilayer Perceptron. IEEE Access, 2020, 8, 64992-65004.	2.6	7
3333	Towards Robust Pattern Recognition: A Review. Proceedings of the IEEE, 2020, 108, 894-922.	16.4	76
3334	Decoding whole-genome mutational signatures in 37 human pan-cancers by denoising sparse autoencoder neural network. Oncogene, 2020, 39, 5031-5041.	2.6	9
3335	Accelerated Bayesian inference using deep learning. Monthly Notices of the Royal Astronomical Society, 2020, 496, 328-338.	1.6	19
3336	TBLC-rAttention: A Deep Neural Network Model for Recognizing the Emotional Tendency of Chinese Medical Comment. IEEE Access, 2020, 8, 96811-96828.	2.6	6
3337	Cross Lingual Transfer Learning for Zero-Resource Domain Adaptation. , 2020, , .		7
3338	AutoSF: Searching Scoring Functions for Knowledge Graph Embedding. , 2020, , .		43
3339	Layer-Normalized LSTM for Hybrid-Hmm and End-To-End ASR. , 2020, , .		4
3340	Domain adaptation based on domain-invariant and class-distinguishable feature learning using multiple adversarial networks. Neurocomputing, 2020, 411, 178-192.	3.5	8
3341	Artificial Intelligence and Machine Learning for Digital Pathology. Lecture Notes in Computer Science, 2020, , .	1.0	10
3342	Learning pareto optimal solution of a multi-attribute bilateral negotiation using deep reinforcement. Electronic Commerce Research and Applications, 2020, 43, 100987.	2.5	5
3343	Deep Convolutional Self-Organizing Map Network for Robust Handwritten Digit Recognition. IEEE Access, 2020, 8, 107035-107045.	2.6	43
3344	Disentangling, Embedding and Ranking Label Cues for Multi-Label Image Recognition. IEEE Transactions on Multimedia, 2021, 23, 1827-1840.	5.2	13
3345	Output-relevant Variational autoencoder for Just-in-time soft sensor modeling with missing data. Journal of Process Control, 2020, 92, 90-97.	1.7	33
3346	A deep domain adaption model with multi-task networks for planetary gearbox fault diagnosis. Neurocomputing, 2020, 409, 173-190.	3.5	48
3347	Joint Learning of User Representation With Diffusion Sequence and Network Structure. IEEE Transactions on Knowledge and Data Engineering, 2022, 34, 1275-1287.	4.0	5
3348	Multi-Speaker and Multi-Domain Emotional Voice Conversion Using Factorized Hierarchical Variational Autoencoder. , 2020, , .		6
3349	Learning Hybrid Representation by Robust Dictionary Learning in Factorized Compressed Space. IEEE Transactions on Image Processing, 2020, 29, 3941-3956.	6.0	31

#	Article	IF	Citations
3350	Improving Diagnosis of Depression With XGBOOST Machine Learning Model and a Large Biomarkers Dutch Dataset (n = 11,081). Frontiers in Big Data, 2020, 3, 15.	1.8	47
3351	Deep learning spatiotemporal air pollution data in China using data fusion. Earth Science Informatics, 2020, 13, 859-868.	1.6	10
3352	Structure learning with similarity preserving. Neural Networks, 2020, 129, 138-148.	3.3	34
3353	LBSN2Vec++: Heterogeneous Hypergraph Embedding for Location-Based Social Networks. IEEE Transactions on Knowledge and Data Engineering, 2020, , 1-1.	4.0	37
3354	A Statistical Data-Filtering Method Proposed for Short-Term Load Forecasting Models. Journal of Electrical Engineering and Technology, 2020, 15, 1947-1967.	1.2	4
3355	Data-Enhanced Stacked Autoencoders for Insufficient Fault Classification of Machinery and its Understanding via Visualization. IEEE Access, 2020, 8, 67790-67798.	2.6	14
3356	Active Image Synthesis for Efficient Labeling. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, 43, 3770-3781.	9.7	7
3358	An Improved Dual-Channel Network to Eliminate Catastrophic Forgetting. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 415-425.	5.9	1
3359	Introduction to deep learning: minimum essence required to launch a research. Japanese Journal of Radiology, 2020, 38, 907-921.	1.0	14
3360	Deep learning and cognitive science. Cognition, 2020, 203, 104365.	1.1	34
3361	Travel Mode Choice Prediction Using Deep Neural Networks With Entity Embeddings. IEEE Access, 2020, 8, 64959-64970.	2.6	18
3362	Multi-View Representation Learning With Deep Gaussian Processes. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, 43, 4453-4468.	9.7	31
3363	Multivariate Financial Time-Series Prediction With Certified Robustness. IEEE Access, 2020, 8, 109133-109143.	2.6	12
3364	Representation-Based Completion of Knowledge Graph with Open-World Data. , 2020, , .		1
3365	A novel multi-focus image fusion by combining simplified very deep convolutional networks and patch-based sequential reconstruction strategy. Applied Soft Computing Journal, 2020, 91, 106253.	4.1	19
3366	Deep learning analysis on microscopic imaging in materials science. Materials Today Nano, 2020, 11, 100087.	2.3	82
3368	Text-based Malicious Domain Names Detection Based on Variational Autoencoder And Supervised Learning. , 2020, , .		1
3369	AdapNet: Adaptability Decomposing Encoder–Decoder Network for Weakly Supervised Action Recognition and Localization. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 1852-1863.	7.2	28

#	ARTICLE	IF	CITATIONS
3370	Artificial Neural Network Blockchain Techniques for Healthcare System: Focusing on the Personal Health Records. Electronics (Switzerland), 2020, 9, 763.	1.8	35
3371	Corpus-Based Paraphrase Detection Experiments and Review. Information (Switzerland), 2020, 11, 241.	1.7	13
3372	Dynamics-Preserving Graph Embedding for Community Mining and Network Immunization. Information (Switzerland), 2020, 11, 250.	1.7	1
3374	A review of object detection based on deep learning. Multimedia Tools and Applications, 2020, 79, 23729-23791.	2.6	219
3375	Brain tumor segmentation with radius contraction and expansion based initial contour detection for active contour model. Multimedia Tools and Applications, 2020, 79, 23793-23819.	2.6	11
3376	Feature engineering in big data analytics for IoT-enabled smart manufacturing â€" Comparison between deep learning and statistical learning. Computers and Chemical Engineering, 2020, 141, 106970.	2.0	43
3377	Dough-Stage Maize (<i>Zea mays</i> L.) Ear Recognition Based on Multiscale Hierarchical Features and Multifeature Fusion. Mathematical Problems in Engineering, 2020, 2020, 1-14.	0.6	3
3378	Spatial resolution of local field potential signals in macaque V4. Journal of Neural Engineering, 2020, 17, 026003.	1.8	2
3379	Multilingual Semantic Textual Similarity using Multilingual Word Representations. , 2020, , .		2
3380	Powered Two-Wheeler Detection Using Crowdsourced Smartphone Data. IEEE Transactions on Intelligent Vehicles, 2020, 5, 575-584.	9.4	4
3381	Asian Female Facial Beauty Prediction Using Deep Neural Networks via Transfer Learning and Multi-Channel Feature Fusion. IEEE Access, 2020, 8, 56892-56907.	2.6	15
3382	Error bounds for approximations with deep ReLU neural networks in Ws,p norms. Analysis and Applications, 2020, 18, 803-859.	1.2	100
3383	Predicting the Response to FOLFOX-Based Chemotherapy Regimen from Untreated Liver Metastases on Baseline CT: a Deep Neural Network Approach. Journal of Digital Imaging, 2020, 33, 937-945.	1.6	13
3384	A comparison of Arabic sign language dynamic gesture recognition models. Heliyon, 2020, 6, e03554.	1.4	17
3385	Machine Learning with Health Care Perspective. Learning and Analytics in Intelligent Systems, 2020, , .	0.5	29
3386	Deep Reinforcement Learning-Based Approach to Tackle Topic-Aware Influence Maximization. Data Science and Engineering, 2020, 5, 1-11.	4.6	58
3387	BIRADS features-oriented semi-supervised deep learning for breast ultrasound computer-aided diagnosis. Physics in Medicine and Biology, 2020, 65, 125005.	1.6	38
3388	Privacy and utility preserving sensor-data transformations. Pervasive and Mobile Computing, 2020, 63, 101132.	2.1	21

#	Article	IF	Citations
3389	Deep learning a boon for biophotonics?. Journal of Biophotonics, 2020, 13, e201960186.	1.1	61
3390	Learning feature spaces for regression with genetic programming. Genetic Programming and Evolvable Machines, 2020, 21, 433-467.	1.5	23
3391	Unsupervised Detection of Abnormal Electricity Consumption Behavior Based on Feature Engineering. IEEE Access, 2020, 8, 55483-55500.	2.6	32
3392	Generative Models for Low-Dimensional Video Representation and Reconstruction. IEEE Transactions on Signal Processing, 2020, 68, 1688-1701.	3.2	13
3393	Principal Component Adversarial Example. IEEE Transactions on Image Processing, 2020, 29, 4804-4815.	6.0	29
3394	Learning social representations with deep autoencoder for recommender system. World Wide Web, 2020, 23, 2259-2279.	2.7	111
3395	â€˜Place-cellâ€™ emergence and learning of invariant data with restricted Boltzmann machines: breaking and dynamical restoration of continuous symmetries in the weight space. Journal of Physics A: Mathematical and Theoretical, 2020, 53, 174002.	0.7	9
3396	Toward Sustainable Micro-Level Fog-Federated Load Sharing in Internet of Vehicles. IEEE Internet of Things Journal, 2020, 7, 3614-3622.	5.5	17
3397	Realistic Film Noise Generation Based on Experimental Noise Spectra. IEEE Transactions on Image Processing, 2020, 29, 2987-2998.	6.0	2
3398	A multistep deep learning framework for the automated detection and segmentation of astrocytes in fluorescent images of brain tissue. Scientific Reports, 2020, 10, 5137.	1.6	21
3399	All-Digital Mismatched Calibrator and Compensator for SR Latch-Based Variable-Gain Time Amplifier. IEEE Access, 2020, 8, 42082-42096.	2.6	2
3400	Deep Learningâ€"Based Algorithm for Detecting Aortic Stenosis Using Electrocardiography. Journal of the American Heart Association, 2020, 9, e014717.	1.6	113
3401	Standard machine learning approaches outperform deep representation learning on phenotype prediction from transcriptomics data. BMC Bioinformatics, 2020, 21, 119.	1.2	41
3402	3-D Deconvolutional Networks for the Unsupervised Representation Learning of Human Motions. IEEE Transactions on Cybernetics, 2022, 52, 398-410.	6.2	13
3403	Deep Learning-Based Real-Time Building Occupancy Detection Using AMI Data. IEEE Transactions on Smart Grid, 2020, 11, 4490-4501.	6.2	59
3404	Cooperative Caching and Transmission in CoMP-Integrated Cellular Networks Using Reinforcement Learning. IEEE Transactions on Vehicular Technology, 2020, 69, 5508-5520.	3.9	46
3405	A Survey on Deep Learning for Multimodal Data Fusion. Neural Computation, 2020, 32, 829-864.	1.3	252
3406	A Survey of Privacy Protection and Network Security in User On-Demand Anonymous Communication. IEEE Access, 2020, 8, 54856-54871.	2.6	5

#	ARTICLE	IF	CITATIONS
3407	Network Approaches to Improving Consumer IoT Security. , 2020, , .		3
3408	Digital Forensics and Watermarking. Lecture Notes in Computer Science, 2020, , .	1.0	1
3409	A Novel Intelligent Fault Diagnosis Method for Rolling Bearing Based on Integrated Weight Strategy Features Learning. Sensors, 2020, 20, 1774.	2.1	14
3410	Dictionaryâ€Based Automated Information Extraction From Geological Documents Using a Deep Learning Algorithm. Earth and Space Science, 2020, 7, e2019EA000993.	1.1	25
3411	Radar Signal Modulation Recognition Based on Deep Joint Learning. IEEE Access, 2020, 8, 48515-48528.	2.6	25
3412	Adaptive Deep Cascade Broad Learning System and Its Application in Image Denoising. IEEE Transactions on Cybernetics, 2021, 51, 4450-4463.	6.2	42
3413	Research on Architecture of Internet of Things Platform Based on Service Mesh. , 2020, , .		4
3414	Autoencoder-Based Error Correction Coding for One-Bit Quantization. IEEE Transactions on Communications, 2020, 68, 3440-3451.	4.9	24
3415	Blind Universal Bayesian Image Denoising With Gaussian Noise Level Learning. IEEE Transactions on Image Processing, 2020, 29, 4885-4897.	6.0	75
3416	Spatiotemporal deep networks for detecting abnormality in videos. Multimedia Tools and Applications, 2020, 79, 11237-11268.	2.6	6
3417	The power of deep learning to ligand-based novel drug discovery. Expert Opinion on Drug Discovery, 2020, 15, 755-764.	2.5	44
3418	A Subwavelength-Laser-Driven Transmitting Optical Nanoantenna for Wireless Communications. IEEE Journal on Multiscale and Multiphysics Computational Techniques, 2020, 5, 144-154.	1.4	6
3419	A Study of Low-Cost Sequential Electroplating Bumping Process and its Metallurgical Behavior. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2020, 10, 917-923.	1.4	2
3420	Is it time to drag tech jobs out of Silicon Valley? - [Careers]. IEEE Spectrum, 2020, 57, 50-50.	0.5	1
3421	Deep Attention-Based Review Level Sentiment Analysis for Arabic Reviews. , 2020, , .		3
3422	Test Case Generation Algorithms and Tools for Specifications in Natural Language. , 2020, , .		5
3423	Track-before-Detect Short Range Radar System for Industrial Applications. , 2020, , .		0
3424	Efficient Data Advertisement in Information Centric Disruption Tolerant Networks. , 2020, , .		1

#	Article	IF	Citations
3425	Motion Assessment for Accelerometric and Heart Rate Cycling Data Analysis. Sensors, 2020, 20, 1523.	2.1	5
3426	Code analysis for intelligent cyber systems: A data-driven approach. Information Sciences, 2020, 524, 46-58.	4.0	25
3427	Predicting Quantum Many-Body Dynamics with Transferable Neural Networks*. Chinese Physics Letters, 2020, 37, 018401.	1.3	4
3428	Millimeter-Wave Slot Array Antenna Front-End for Amplitude-Only Direction Finding. IEEE Transactions on Antennas and Propagation, 2020, 68, 5365-5374.	3.1	17
3429	Semi-Supervised Nests of Melanocytes Segmentation Method Using Convolutional Autoencoders. Sensors, 2020, 20, 1546.	2.1	26
3430	Classification Modeling Method for Near-Infrared Spectroscopy of Tobacco Based on Multimodal Convolution Neural Networks. Journal of Analytical Methods in Chemistry, 2020, 2020, 1-13.	0.7	32
3431	A multimodal computer–aided diagnostic system for precise identification of renal allograft rejection: Preliminary results. Medical Physics, 2020, 47, 2427-2440.	1.6	15
3432	HNet-DNN: Inferring New Drug–Disease Associations with Deep Neural Network Based on Heterogeneous Network Features. Journal of Chemical Information and Modeling, 2020, 60, 2367-2376.	2.5	19
3433	Optimization of the Charge Comparison Method for Multiradiation Field Using Various Measurement Systems. IEEE Transactions on Nuclear Science, 2020, 67, 679-687.	1.2	9
3434	Gray-box Soft Sensors in Process Industry: Current Practice, and Future Prospects in Era of Big Data. Processes, 2020, 8, 243.	1.3	28
3435	Stacked Fusion Supervised Auto-encoder with an Additional Classification Layer. Neural Processing Letters, 2020, 51, 2649-2667.	2.0	1
3436	Automated text classification of near-misses from safety reports: An improved deep learning approach. Advanced Engineering Informatics, 2020, 44, 101060.	4.0	95
3437	AppendiXNet: Deep Learning for Diagnosis of Appendicitis from A Small Dataset of CT Exams Using Video Pretraining. Scientific Reports, 2020, 10, 3958.	1.6	60
3438	The role of medical informatics in the management of medical information. Journal of Medical Investigation, 2020, 67, 27-29.	0.2	8
3439	A Multiscale Spatio-Temporal Convolutional Deep Belief Network for Sensor Fault Detection of Wind Turbine. Sensors, 2020, 20, 3580.	2.1	10
3440	A bibliometric analysis on deep learning during 2007–2019. International Journal of Machine Learning and Cybernetics, 2020, 11, 2807-2826.	2.3	39
3441	Feature subset and time segment selection for the classification of EEG data based motor imagery. Biomedical Signal Processing and Control, 2020, 61, 102026.	3.5	27
3442	Evaluation of carbonation progress using AIJ model, FEM analysis, and machine learning algorithms. Construction and Building Materials, 2020, 259, 119703.	3.2	16

#	Article	IF	Citations
3443	Augmenting Dementia Cognitive Assessment With Instruction-Less Eye-Tracking Tests. IEEE Journal of Biomedical and Health Informatics, 2020, 24, 3066-3075.	3.9	22
3444	Stacked squeeze-and-excitation recurrent residual network for visual-semantic matching. Pattern Recognition, 2020, 105, 107359.	5.1	11
3445	Sensitivity Analysis of Sensors in a Hydraulic Condition Monitoring System Using CNN Models. Sensors, 2020, 20, 3307.	2.1	18
3446	Fault detection method in subsea power distribution systems using statistical optimisation. IET Energy Systems Integration, 2020, 2, 144-150.	1.1	4
3447	Investigating the need for preprocessing of near-infrared spectroscopic data as a function of sample size. Chemometrics and Intelligent Laboratory Systems, 2020, 204, 104105.	1.8	38
3448	The Deep Convolutional Neural Network for NOx Emission Prediction of a Coal-Fired Boiler. IEEE Access, 2020, 8, 85912-85922.	2.6	16
3449	Hierarchically Clustered Representation Learning. Proceedings of the AAAI Conference on Artificial Intelligence, 2020, 34, 5776-5783.	3.6	5
3450	A novel validation framework to enhance deep learning models in time-series forecasting. Neural Computing and Applications, 2020, 32, 17149-17167.	3.2	42
3451	Efficient neural network compression via transfer learning for machine vision inspection. Neurocomputing, 2020, 413, 294-304.	3.5	13
3452	Approaches for integrating heterogeneous RNA-seq data reveal cross-talk between microbes and genes in asthmatic patients. Genome Biology, 2020, 21, 150.	3.8	5
3453	SAOSA: Stable Adaptive Optimization for Stacked Auto-encoders. Neural Processing Letters, 2020, 52, 823-848.	2.0	1
3454	Deeply synergistic optical and SAR time series for crop dynamic monitoring. Remote Sensing of Environment, 2020, 247, 111952.	4.6	59
3455	Human Identification for Activities of Daily Living: A Deep Transfer Learning Approach. Journal of Management Information Systems, 2020, 37, 457-483.	2.1	33
3456	Unsupervised Cross-Dataset Adaptation via Probabilistic Amodal 3D Human Pose Completion. , 2020, , .		4
3457	Infinite Feature Selection: A Graph-based Feature Filtering Approach. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, 43, 4396-4410.	9.7	84
3458	Verification Plan Using Neural Algorithm Blockchain Smart Contract for Secure P2P Real Estate Transactions. Electronics (Switzerland), 2020, 9, 1052.	1.8	21
3459	Self-supervised multimodal reconstruction of retinal images over paired datasets. Expert Systems With Applications, 2020, 161, 113674.	4.4	21
3460	Non-iterative and Fast Deep Learning: Multilayer Extreme Learning Machines. Journal of the Franklin Institute, 2020, 357, 8925-8955.	1.9	139

#	Article	IF	Citations
3461	A survey on instance segmentation: state of the art. International Journal of Multimedia Information Retrieval, 2020, 9, 171-189.	3.6	201
3462	Accelerating projections to kernel-induced spaces by feature approximation. Pattern Recognition Letters, 2020, 136, 31-39.	2.6	0
3463	Hiding a plane with a pixel: examining shape-bias in CNNs and the benefit of building in biological constraints. Vision Research, 2020, 174, 57-68.	0.7	30
3464	AI on a chip. Lab on A Chip, 2020, 20, 3074-3090.	3.1	80
3465	Approximating the Gradient of Cross-Entropy Loss Function. IEEE Access, 2020, 8, 111626-111635.	2.6	39
3466	Edge Enhanced Implicit Orientation Learning With Geometric Prior for 6D Pose Estimation. IEEE Robotics and Automation Letters, 2020, 5, 4931-4938.	3.3	20
3467	DiversityGAN: Diversity-Aware Vehicle Motion Prediction via Latent Semantic Sampling. IEEE Robotics and Automation Letters, 2020, 5, 5089-5096.	3.3	41
3468	Survey on categorical data for neural networks. Journal of Big Data, 2020, 7, .	6.9	225
3469	Fruits diseases classification: exploiting a hierarchical framework for deep features fusion and selection. Multimedia Tools and Applications, 2020, 79, 25763-25783.	2.6	52
3470	Radical and Stroke-Enhanced Chinese Word Embeddings Based on Neural Networks. Neural Processing Letters, 2020, 52, 1109-1121.	2.0	5
3471	Improve the translational distance models for knowledge graph embedding. Journal of Intelligent Information Systems, 2020, 55, 445-467.	2.8	12
3472	A review of deep learning with special emphasis on architectures, applications and recent trends. Knowledge-Based Systems, 2020, 194, 105596.	4.0	222
3473	Separability and geometry of object manifolds in deep neural networks. Nature Communications, 2020, 11, 746.	5.8	74
3474	Efficient Incremental Learning Using Dynamic Correction Vector. IEEE Access, 2020, 8, 23090-23099.	2.6	10
3475	Semi-Supervised Hyperspectral Image Classification via Spatial-Regulated Self-Training. Remote Sensing, 2020, 12, 159.	1.8	69
3476	Deep learning of circulating tumour cells. Nature Machine Intelligence, 2020, 2, 124-133.	8.3	48
3477	A deep adversarial variational autoencoder model for dimensionality reduction in single-cell RNA sequencing analysis. BMC Bioinformatics, 2020, 21, 64.	1.2	62
3478	A heuristic representation learning based on evidential memberships: Case study of UCI-SPECTF. International Journal of Approximate Reasoning, 2020, 120, 125-137.	1.9	42

#	ARTICLE	IF	CITATIONS
3479	Editable video creation based on embedded simulation engine and GAN. Microprocessors and Microsystems, 2020, 75, 103048.	1.8	3
3480	Effect of pooling strategy on convolutional neural network for classification of hyperspectral remote sensing images. IET Image Processing, 2020, 14, 480-486.	1.4	17
3481	Deep Subspace Clustering. IEEE Transactions on Neural Networks and Learning Systems, 2020, 31, 5509-5521.	7.2	74
3482	Hyperspectral Image Classification. , 0, , .		8
3483	A novel application of deep learning with image cropping: a smart city use case for flood monitoring. Journal of Reliable Intelligent Environments, 2020, 6, 51-61.	3.8	14
3484	3D CUBE Algorithm for the Key Generation Method: Applying Deep Neural Network Learning-Based. IEEE Access, 2020, 8, 33689-33702.	2.6	9
3485	Successful Identification of Nasopharyngeal Carcinoma in Nasopharyngeal Biopsies Using Deep Learning. Cancers, 2020, 12, 507.	1.7	31
3486	DCNN for condition monitoring and fault detection in rotating machines and its contribution to the understanding of machine nature. Heliyon, 2020, 6, e03395.	1.4	22
3487	Deep learning in environmental remote sensing: Achievements and challenges. Remote Sensing of Environment, 2020, 241, 111716.	4.6	744
3488	Discriminative Feature Learning for Skin Disease Classification Using Deep Convolutional Neural Network. IEEE Access, 2020, 8, 39025-39033.	2.6	61
3489	Rolling bearing fault diagnosis based on intelligent optimized self-adaptive deep belief network. Measurement Science and Technology, 2020, 31, 055009.	1.4	27
3490	Supervised Extreme Learning Machine-Based Auto-Encoder for Discriminative Feature Learning. IEEE Access, 2020, 8, 11700-11709.	2.6	10
3491	Efficient Classification of White Blood Cell Leukemia with Improved Swarm Optimization of Deep Features. Scientific Reports, 2020, 10, 2536.	1.6	159
3492	Supervised High-Level Feature Learning With Label Consistencies for Object Recognition. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 4501-4516.	2.7	5
3493	A technical view on neural architecture search. International Journal of Machine Learning and Cybernetics, 2020, 11, 795-811.	2.3	14
3494	Grape detection, segmentation, and tracking using deep neural networks and three-dimensional association. Computers and Electronics in Agriculture, 2020, 170, 105247.	3.7	194
3495	Three-dimensional multi-source localization of underwater objects using convolutional neural networks for artificial lateral lines. Journal of the Royal Society Interface, 2020, 17, 20190616.	1.5	13
3496	A Multi-Task Representation Learning Architecture for Enhanced Graph Classification. Frontiers in Neuroscience, 2019, 13, 1395.	1.4	12

#	Article	IF	Citations
3497	A distributed parallel training method of deep belief networks. Soft Computing, 2020, 24, 13357-13368.	2.1	6
3498	Rotor Position Estimation for Aviation Three-Stage Starter/Generators in the Low-Speed Region Without High-Frequency Signal Injection. IEEE Transactions on Power Electronics, 2020, 35, 8405-8416.	5.4	20
3499	Intelligent Camera Using a Finite-State Machine (FSM). , 2020, , .		2
3500	Deep Representation Learning With Full Center Loss for Credit Card Fraud Detection. IEEE Transactions on Computational Social Systems, 2020, 7, 569-579.	3.2	54
3501	Game-Theoretic Learning for Sensor Reliability Evaluation Without Knowledge of the Ground Truth. IEEE Transactions on Cybernetics, 2020, , 1-11.	6.2	2
3502	Deep CNNs Meet Global Covariance Pooling: Better Representation and Generalization. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2020, 43, 1-1.	9.7	39
3503	Optimizing Variational Graph Autoencoder for Community Detection with Dual Optimization. Entropy, 2020, 22, 197.	1.1	14
3504	Improved convolutional neural network based histopathological image classification. Evolutionary Intelligence, 2021, 14, 1337-1343.	2.3	28
3505	Automated machine learning: Review of the state-of-the-art and opportunities for healthcare. Artificial Intelligence in Medicine, 2020, 104, 101822.	3.8	419
3506	Transfer learning from adult to children for speech recognition: Evaluation, analysis and recommendations. Computer Speech and Language, 2020, 63, 101077.	2.9	52
3507	The Self-Organizing Restricted Boltzmann Machine for Deep Representation with the Application on Classification Problems. Expert Systems With Applications, 2020, 149, 113286.	4.4	19
3508	Improving Oral Cancer Outcomes with Imaging and Artificial Intelligence. Journal of Dental Research, 2020, 99, 241-248.	2.5	78
3509	Integration of Convolutional Neural Network and Error Correction for Indoor Positioning. ISPRS International Journal of Geo-Information, 2020, 9, 74.	1.4	5
3510	Diâ€phase midway convolution and deconvolution network for brain tumor segmentation in MRI images. International Journal of Imaging Systems and Technology, 2020, 30, 674-686.	2.7	16
3511	Boosting Real-Time Driving Scene Parsing With Shared Semantics. IEEE Robotics and Automation Letters, 2020, 5, 596-603.	3.3	6
3512	Will machine learning applied to neuroimaging in bipolar disorder help the clinician? A critical review and methodological suggestions. Bipolar Disorders, 2020, 22, 334-355.	1.1	35
3513	A comparative dimensionality reduction study in telecom customer segmentation using deep learning and PCA. Journal of Big Data, 2020, 7, .	6.9	67
3514	Batch process monitoring using multiway Laplacian autoencoders. Canadian Journal of Chemical Engineering, 2020, 98, 1269-1279.	0.9	12

#	Article	IF	Citations
3515	A survey and taxonomy of adversarial neural networks for text‐to‐image synthesis. Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery, 2020, 10, e1345.	4.6	38
3516	Deep learning and network analysis: Classifying and visualizing accident narratives in construction. Automation in Construction, 2020, 113, 103089.	4.8	81
3517	Deep neural networks for choice analysis: Architecture design with alternative-specific utility functions. Transportation Research Part C: Emerging Technologies, 2020, 112, 234-251.	3.9	42
3518	BrainOS: A Novel Artificial Brain-Alike Automatic Machine Learning Framework. Frontiers in Computational Neuroscience, 2020, 14, 16.	1.2	5
3519	Machine learning for active matter. Nature Machine Intelligence, 2020, 2, 94-103.	8.3	164
3520	Emerging Research in Data Engineering Systems and Computer Communications. Advances in Intelligent Systems and Computing, 2020, , .	0.5	2
3521	Joint Distribution Estimation and NaÃ¯ve Bayes Classification Under Local Differential Privacy. IEEE Transactions on Emerging Topics in Computing, 2021, 9, 2053-2063.	3.2	38
3523	Precision Medicine and Artificial Intelligence: A Pilot Study on Deep Learning for Hypoglycemic Events Detection based on ECG. Scientific Reports, 2020, 10, 170.	1.6	114
3524	A Fine-Grained Adversarial Network Method for Cross-Domain Industrial Fault Diagnosis. IEEE Transactions on Automation Science and Engineering, 2020, 17, 1432-1442.	3.4	105
3525	Aluminum Casting Inspection Using Deep Learning: A Method Based on Convolutional Neural Networks. Journal of Nondestructive Evaluation, 2020, 39, 1.	1.1	40
3526	Scalogram based prediction model for respiratory disorders using optimized convolutional neural networks. Artificial Intelligence in Medicine, 2020, 103, 101809.	3.8	50
3527	Multi-Task Consistency-Preserving Adversarial Hashing for Cross-Modal Retrieval. IEEE Transactions on Image Processing, 2020, 29, 3626-3637.	6.0	117
3528	Learning the representation of raw acoustic emission signals by direct generative modelling and its use in chronology-based clusters identification. Engineering Applications of Artificial Intelligence, 2020, 90, 103478.	4.3	11
3531	Instance-Based Transfer Learning. , 2020, , 23-33.		0
3532	Feature-Based Transfer Learning. , 2020, , 34-44.		0
3533	Model-Based Transfer Learning. , 2020, , 45-57.		0
3534	Relation-Based Transfer Learning. , 2020, , 58-67.		1
3535	Heterogeneous Transfer Learning. , 2020, , 68-92.		0

#	Article	IF	Citations
3536	Adversarial Transfer Learning. , 2020, , 93-104.		0
3537	Transfer Learning in Reinforcement Learning. , 2020, , 105-125.		0
3538	Multi-task Learning. , 2020, , 126-140.		0
3539	Transfer Learning Theory. , 2020, , 141-150.		1
3540	Few-Shot Learning. , 2020, , 177-195.		1
3541	Lifelong Machine Learning. , 2020, , 196-208.		0
3542	Privacy-Preserving Transfer Learning. , 2020, , 211-220.		1
3543	Transfer Learning in Natural Language Processing. , 2020, , 234-256.		3
3544	Transfer Learning in Dialogue Systems. , 2020, , 257-278.		0
3545	Transfer Learning in Bioinformatics. , 2020, , 293-306.		0
3546	Transfer Learning in Activity Recognition. , 2020, , 307-323.		0
3547	Transfer Learning in Urban Computing. , 2020, , 324-333.		0
3550	Deep heterogeneous network embedding based on Siamese Neural Networks. Neurocomputing, 2020, 388, 1-11.	3.5	7
3551	Image Based Liver Toxicity Prediction. Journal of Chemical Information and Modeling, 2020, 60, 1111-1121.	2.5	14
3552	Invariant subspace learning for time series data based on dynamic time warping distance. Pattern Recognition, 2020, 102, 107210.	5.1	23
3553	An effective deep learning neural network model for short†term load forecasting. Concurrency Computation Practice and Experience, 2020, 32, e5595.	1.4	11
3554	Representation learning in a deep network for license plate recognition. Multimedia Tools and Applications, 2020, 79, 13267-13289.	2.6	5
3555	NF-RCNN: Heart localization and right ventricle wall motion abnormality detection in cardiac MRI. Physica Medica, 2020, 70, 65-74.	0.4	11

#	ARTICLE	IF	CITATIONS
3556	Deep feature transfer learning for trusted and automated malware signature generation in private cloud environments. Neural Networks, 2020, 124, 243-257.	3.3	36
3557	Transitive Transfer Learning. , 2020, , 151-167.		0
3558	AutoTL: Learning to Transfer Automatically. , 2020, , 168-176.		0
3559	Transfer Learning in Computer Vision. , 2020, , 221-233.		2
3560	Transfer Learning in Recommender Systems. , 2020, , 279-292.		1
3561	Strategies to Improve the Accuracy of Memristor-Based Convolutional Neural Networks. IEEE Transactions on Electron Devices, 2020, 67, 895-901.	1.6	49
3562	Accelerated Dynamic Magnetic Resonance Imaging Using Learned Representations: A New Frontier in Biomedical Imaging. IEEE Signal Processing Magazine, 2020, 37, 83-93.	4.6	5
3563	entity2rec: Property-specific knowledge graph embeddings for item recommendation. Expert Systems With Applications, 2020, 151, 113235.	4.4	43
3564	Opinion mining and emotion recognition applied to learning environments. Expert Systems With Applications, 2020, 150, 113265.	4.4	54
3565	Synthesizing Talking Faces from Text and Audio: An Autoencoder and Sequence-to-Sequence Convolutional Neural Network. Pattern Recognition, 2020, 102, 107231.	5.1	14
3566	Monitoring Competitorsâ€™ Innovation Activities: Analyzing the Competitive Patent Landscape Based on Semantic Anchor Points. IEEE Transactions on Engineering Management, 2021, 68, 1272-1287.	2.4	12
3567	CNN-VSR: A Deep Learning Architecture with Validation-Based Stopping Rule for Time Series Classication. Applied Artificial Intelligence, 2020, 34, 101-124.	2.0	7
3568	Deep learning techniques for optimizing medical big data. , 2020, , 187-211.		8
3569	Universal approximation with quadratic deep networks. Neural Networks, 2020, 124, 383-392.	3.3	27
3570	Domain adaptation for unsupervised change detection of multisensor multitemporal remote-sensing images. International Journal of Remote Sensing, 2020, 41, 3902-3923.	1.3	12
3571	Deep Fuzzy Clustering - A Representation Learning Approach. IEEE Transactions on Fuzzy Systems, 2020, , 1-1.	6.5	32
3572	Advanced Analytics and Learning on Temporal Data. Lecture Notes in Computer Science, 2020, , .	1.0	0
3573	Discovering Physical Concepts with Neural Networks. Physical Review Letters, 2020, 124, 010508.	2.9	282

#	ARTICLE	IF	CITATIONS
3574	Non-numerical nearest neighbor classifiers with value-object hierarchical embedding. Expert Systems With Applications, 2020, 150, 113206.	4.4	2
3575	An empirical case study on Indian consumers' sentiment towards electric vehicles: A big data analytics approach. Industrial Marketing Management, 2020, 90, 605-616.	3.7	65
3576	A Distribution and Structure Match Generative Adversarial Network for SAR Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 3864-3880.	2.7	29
3577	Cognitive Informatics and Soft Computing. Advances in Intelligent Systems and Computing, 2020, , .	0.5	11
3578	An Adversarial Deep Hybrid Model for Text-Aware Recommendation with Convolutional Neural Networks. Applied Sciences (Switzerland), 2020, 10, 156.	1.3	5
3579	Adversarial autoencoders for compact representations of 3D point clouds. Computer Vision and Image Understanding, 2020, 193, 102921.	3.0	46
3580	One-dimensional convolutional auto-encoder-based feature learning for fault diagnosis of multivariate processes. Journal of Process Control, 2020, 87, 54-67.	1.7	103
3581	Analyzing bug fix for automatic bug cause classification. Journal of Systems and Software, 2020, 163, 110538.	3.3	31
3582	Strong Converse Using Change of Measure Arguments. IEEE Transactions on Information Theory, 2020, 66, 689-703.	1.5	22
3583	Multi-Level Correlation Adversarial Hashing for Cross-Modal Retrieval. IEEE Transactions on Multimedia, 2020, 22, 3101-3114.	5.2	64
3584	An Interpretable Deep Architecture for Similarity Learning Built Upon Hierarchical Concepts. IEEE Transactions on Image Processing, 2020, 29, 3911-3926.	6.0	6
3585	Well-Logging Constrained Seismic Inversion Based on Closed-Loop Convolutional Neural Network. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 5564-5574.	2.7	76
3586	SPVec: A Word2vec-Inspired Feature Representation Method for Drug-Target Interaction Prediction. Frontiers in Chemistry, 2019, 7, 895.	1.8	52
3587	Human Digital Twin for Fitness Management. IEEE Access, 2020, 8, 26637-26664.	2.6	116
3588	Learning-based estimation of dielectric properties and tissue density in head models for personalized radio-frequency dosimetry. Physics in Medicine and Biology, 2020, 65, 065001.	1.6	12
3589	Network representation learning: a systematic literature review. Neural Computing and Applications, 2020, 32, 16647-16679.	3.2	42
3590	MNIST-NET10: A heterogeneous deep networks fusion based on the degree of certainty to reach 0.1% error rate. Ensembles overview and proposal. Information Fusion, 2020, 62, 73-80.	11.7	27
3591	Representational Rényi Heterogeneity. Entropy, 2020, 22, 417.	1.1	6

#	ARTICLE	IF	CITATIONS
3592	Generalized Sparse Convolutional Neural Networks for Semantic Segmentation of Point Clouds Derived from Tri-Stereo Satellite Imagery. Remote Sensing, 2020, 12, 1289.	1.8	12
3593	Soft Computing for Problem Solving 2019. Advances in Intelligent Systems and Computing, 2020, , .	0.5	0
3594	A Context Based Deep Temporal Embedding Network in Action Recognition. Neural Processing Letters, 2020, 52, 187-220.	2.0	1
3595	Collaborative topological filtering with multi-hop recurrent pathological aggregation. Knowledge-Based Systems, 2020, 199, 105969.	4.0	1
3596	Exploring Geometric Feature Hyper-Space in Data to Learn Representations of Abstract Concepts. Applied Sciences (Switzerland), 2020, 10, 1994.	1.3	3
3597	Automatic detection of building typology using deep learning methods on street level images. Building and Environment, 2020, 177, 106805.	3.0	48
3598	Using Deep Neural Networks to Improve the Performance of Proteinâ€"Protein Interactions Prediction. International Journal of Pattern Recognition and Artificial Intelligence, 2020, 34, 2052012.	0.7	5
3599	Efficient Collection and Representation of Preverbal Data in Typical and Atypical Development. Journal of Nonverbal Behavior, 2020, 44, 419-436.	0.6	3
3600	Evolving network representation learning based on random walks. Applied Network Science, 2020, 5, 18.	0.8	7
3601	Utilizing Automated Breast Cancer Detection to Identify Spatial Distributions of Tumor-Infiltrating Lymphocytes in Invasive Breast Cancer. American Journal of Pathology, 2020, 190, 1491-1504.	1.9	66
3602	Rank-constrained nonnegative matrix factorization for data representation. Information Sciences, 2020, 528, 133-146.	4.0	14
3603	Deep octonion networks. Neurocomputing, 2020, 397, 179-191.	3.5	20
3604	Generative adversarial networks with decoderâ€"encoder output noises. Neural Networks, 2020, 127, 19-28.	3.3	23
3605	Embedding orthogonal memories in a colloidal gel through oscillatory shear. Soft Matter, 2020, 16, 3746-3752.	1.2	10
3606	Uncovering the key dimensions of high-throughput biomolecular data using deep learning. Nucleic Acids Research, 2020, 48, e56-e56.	6.5	9
3607	Deep Learning Applications on Multitemporal SAR (Sentinel-1) Image Classification Using Confined Labeled Data: The Case of Detecting Rice Paddy in South Korea. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 7589-7601.	2.7	22
3608	BSENet: A Data-Driven Spatio-Temporal Representation Learning for Base Station Embedding. IEEE Access, 2020, 8, 51674-51683.	2.6	3
3609	Corrections to â€œA Novel Partial Discharge Detection Method for Power Transformers on Site Adopting its Component as Ultra-High Frequency Sensorâ€. IEEE Transactions on Power Delivery, 2020, 35, 1058-1058.	2.9	0

#	Article	IF	Citations
3610	Big Data and Its Applications in Smart Real Estate and the Disaster Management Life Cycle: A Systematic Analysis. Big Data and Cognitive Computing, 2020, 4, 4.	2.9	81
3611	Different Spectral Domain Transformation for Land Cover Classification Using Convolutional Neural Networks with Multi-Temporal Satellite Imagery. Remote Sensing, 2020, 12, 1097.	1.8	13
3612	Evaluating the Impact of a Two-Stage Multivariate Data Cleansing Approach to Improve to the Performance of Machine Learning Classifiers: A Case Study in Human Activity Recognition. Sensors, 2020, 20, 1858.	2.1	8
3613	Distributed Compressed Hyperspectral Sensing Imaging Based on Spectral Unmixing. Sensors, 2020, 20, 2305.	2.1	5
3614	Fast Direction-of-arrival Estimation of Multiple Targets Using Deep Learning and Sparse Arrays. , 2020, , .		13
3615	Reliable machine prognostic health management in the presence of missing data. Concurrency Computation Practice and Experience, 2020, , e5762.	1.4	6
3616	Deep Learning Solutions for Motor Imagery Classification: A Comparison Study. , 2020, , .		6
3617	Prediction of the miRNA interactome – Established methods and upcoming perspectives. Computational and Structural Biotechnology Journal, 2020, 18, 548-557.	1.9	15
3618	Fraud detection: A systematic literature review of graph-based anomaly detection approaches. Decision Support Systems, 2020, 133, 113303.	3.5	161
3619	Knowledge attention sandwich neural network for text classification. Neurocomputing, 2020, 406, 1-11.	3.5	10
3620	Harnessing Big Data in Neurocritical Care in the Era of Precision Medicine. Current Treatment Options in Neurology, 2020, 22, 1.	0.7	16
3621	Improved deep embedding learning based on stochastic symmetric triplet loss and local sampling. Neurocomputing, 2020, 402, 209-219.	3.5	7
3622	Towards a more flexible language of thought: Bayesian grammar updates after each concept exposure. Physical Review E, 2020, 101, 042128.	0.8	2
3623	Implementation of deep convolutional neural network for classification of multiscaled and multiangled remote sensing scene. Intelligent Decision Technologies, 2020, 14, 21-34.	0.6	1
3624	Deep Learning Approaches for Detecting Freezing of Gait in Parkinson's Disease Patients through On-Body Acceleration Sensors. Sensors, 2020, 20, 1895.	2.1	62
3625	Machine Learning for Networking. Lecture Notes in Computer Science, 2020, , .	1.0	4
3626	A survey of the recent architectures of deep convolutional neural networks. Artificial Intelligence Review, 2020, 53, 5455-5516.	9.7	1,454
3627	Application of deep learning in ecological resource research: Theories, methods, and challenges. Science China Earth Sciences, 2020, 63, 1457-1474.	2.3	53

#	ARTICLE	IF	CITATIONS
3628	The uncertainty pyramid for electronic-structure methods. , 2020, , 41-76.		4
3629	Secure medical treatment with deep learning on embedded board. , 2020, , 131-151.		5
3630	Video anomaly detection and localization via Gaussian Mixture Fully Convolutional Variational Autoencoder. Computer Vision and Image Understanding, 2020, 195, 102920.	3.0	124
3631	Detecting thoracic diseases via representation learning with adaptive sampling. Neurocomputing, 2020, 406, 354-360.	3.5	10
3632	Novel deep neural network based pattern field classification architectures. Neural Networks, 2020, 127, 82-95.	3.3	4
3633	Micro-cracks detection of solar cells surface via combining short-term and long-term deep features. Neural Networks, 2020, 127, 132-140.	3.3	35
3634	Image Retraining Using TensorFlow Implementation of the Pretrained Inception-v3 Model for Evaluating Gravel Road Dust. Journal of Infrastructure Systems, 2020, 26, .	1.0	18
3635	A BCI System with Motor Imagery Based on Bidirectional Long-Short Term Memory. IOP Conference Series: Materials Science and Engineering, 2020, 719, 012026.	0.3	10
3636	Improving Cross-Dataset Performance of Face Presentation Attack Detection Systems Using Face Recognition Datasets. , 2020, , .		4
3637	Short-Term Load Forecasting Using an LSTM Neural Network. , 2020, , .		26
3638	Electronic skins and machine learning for intelligent soft robots. Science Robotics, 2020, 5, .	9.9	339
3639	An Asymmetric Popularity-Similarity Optimization Method for Embedding Directed Networks into Hyperbolic Space. Complexity, 2020, 2020, 1-16.	0.9	4
3640	Application of machine learning in ophthalmic imaging modalities. Eye and Vision (London, England), 2020, 7, 22.	1.4	65
3641	Classification of hyperspectral images based on a convolutional neural network and spectral sensitivity. Journal of Zhejiang University: Science A, 2020, 21, 240-248.	1.3	3
3642	A CNNâ€"LSTM model for gold price time-series forecasting. Neural Computing and Applications, 2020, 32, 17351-17360.	3.2	375
3643	Real time detection of acoustic anomalies in industrial processes using sequential autoencoders. Expert Systems, 2021, 38, .	2.9	29
3644	On the Use of Preconditioners to Improve the Accuracy and Effectiveness of Iterative Methods to Enhance the Spatial Resolution of Radiometer Measurements. IEEE Geoscience and Remote Sensing Letters, 2021, 18, 446-450.	1.4	8
3645	Spatial-Temporal Cascade Autoencoder for Video Anomaly Detection in Crowded Scenes. IEEE Transactions on Multimedia, 2021, 23, 203-215.	5.2	86

#	ARTICLE	IF	CITATIONS
3646	A survey of digital circuit testing in the light of machine learning. Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery, 2021, 11, .	4.6	16
3647	Evaluation of feature learning for anomaly detection in network traffic. Evolving Systems, 2021, 12, 79-90.	2.4	4
3648	Balanced joint maximum mean discrepancy for deep transfer learning. Analysis and Applications, 2021, 19, 491-508.	1.2	3
3649	Random Sketching for Neural Networks With ReLU. IEEE Transactions on Neural Networks and Learning Systems, 2021, 32, 748-762.	7.2	14
3650	A Hippocampalâ€"Entorhinal System Inspired Model for Visual Concept Representation. IEEE Transactions on Cognitive and Developmental Systems, 2021, 13, 429-441.	2.6	1
3651	Domain Knowledge-Based Deep-Broad Learning Framework for Fault Diagnosis. IEEE Transactions on Industrial Electronics, 2021, 68, 3454-3464.	5.2	62
3652	Accelerated Life Test Planning for Minimizing Misclassification Risks. IEEE Transactions on Reliability, 2021, 70, 459-471.	3.5	2
3653	Localâ€"Global Memory Neural Network for Medication Prediction. IEEE Transactions on Neural Networks and Learning Systems, 2021, 32, 1723-1736.	7.2	10
3654	Deep Subdomain Adaptation Network for Image Classification. IEEE Transactions on Neural Networks and Learning Systems, 2021, 32, 1713-1722.	7.2	443
3655	Retail sales forecasting with meta-learning. European Journal of Operational Research, 2021, 288, 111-128.	3.5	74
3656	Social movie recommender system based on deep autoencoder network using Twitter data. Neural Computing and Applications, 2021, 33, 1607-1623.	3.2	52
3657	Twin-Incoherent Self-Expressive Locality-Adaptive Latent Dictionary Pair Learning for Classification. IEEE Transactions on Neural Networks and Learning Systems, 2021, 32, 947-961.	7.2	30
3658	An end-to-end deep learning model for human activity recognition from highly sparse body sensor data in Internet of Medical Things environment. Journal of Supercomputing, 2021, 77, 2237-2250.	2.4	28
3659	A novel data representation framework based on nonnegative manifold regularisation. Connection Science, 2021, 33, 136-152.	1.8	13
3660	An effective deep learning features based integrated framework for iris detection and recognition. Journal of Ambient Intelligence and Humanized Computing, 2021, 12, 3271-3281.	3.3	34
3661	Analyzing the Noise Robustness of Deep Neural Networks. IEEE Transactions on Visualization and Computer Graphics, 2021, 27, 3289-3304.	2.9	16
3662	Deep learning for drug response prediction in cancer. Briefings in Bioinformatics, 2021, 22, 360-379.	3.2	116
3663	Automated Brain Tumor Segmentation from MRI Images using Morphometric Algorithms. Current Signal Transduction Therapy, 2021, 15, 264-269.	0.3	0

#	ARTICLE	IF	CITATIONS
3664	Adaptive feature fusion with attention mechanism for multi-scale target detection. Neural Computing and Applications, 2021, 33, 2769-2781.	3.2	25
3665	A deep condition feature learning approach for rotating machinery based on MMSDE and optimized SAEs. Measurement Science and Technology, 2021, 32, 035101.	1.4	10
3666	A Cross-Modal Learning Approach for Recognizing Human Actions. IEEE Systems Journal, 2021, 15, 2322-2330.	2.9	9
3667	Robust and structural sparsity auto-encoder with L21-norm minimization. Neurocomputing, 2021, 425, 71-81.	3.5	16
3668	Deep Learning for Spatio-Temporal Modeling of Dynamic Spontaneous Emotions. IEEE Transactions on Affective Computing, 2021, 12, 363-376.	5.7	23
3669	Collaborative Neural Social Recommendation. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 464-476.	5.9	67
3670	Deep Learning for Human Affect Recognition: Insights and New Developments. IEEE Transactions on Affective Computing, 2021, 12, 524-543.	5.7	113
3671	An Inception Convolutional Autoencoder Model for Chinese Healthcare Question Clustering. IEEE Transactions on Cybernetics, 2021, 51, 2019-2031.	6.2	9
3672	STED-Net: Self-taught encoder-decoder network for unsupervised feature representation. Multimedia Tools and Applications, 2021, 80, 4673-4691.	2.6	1
3673	usfAD: a robust anomaly detector based on unsupervised stochastic forest. International Journal of Machine Learning and Cybernetics, 2021, 12, 1137-1150.	2.3	5
3674	Learning flat representations with artificial neural networks. Applied Intelligence, 2021, 51, 2456-2470.	3.3	0
3675	Potentials of AI in medical image analysis in Gastroenterology and Hepatology. Journal of Gastroenterology and Hepatology (Australia), 2021, 36, 31-38.	1.4	27
3676	A state-of-the-art review on mobile robotics tasks using artificial intelligence and visual data. Expert Systems With Applications, 2021, 167, 114195.	4.4	65
3677	Embedding of Molecular Structure Using Molecular Hypergraph Variational Autoencoder with Metric Learning. Molecular Informatics, 2021, 40, e2000203.	1.4	14
3678	Cross-domain sentiment aware word embeddings for review sentiment analysis. International Journal of Machine Learning and Cybernetics, 2021, 12, 343-354.	2.3	29
3679	View Transfer on Human Skeleton Pose: Automatically Disentangle the View-Variant and View-Invariant Information for Pose Representation Learning. International Journal of Computer Vision, 2021, 129, 1-22.	10.9	12
3680	Cross-lingual learning for text processing: A survey. Expert Systems With Applications, 2021, 165, 113765.	4.4	17
3681	ConvXGB: A new deep learning model for classification problems based on CNN and XGBoost. Nuclear Engineering and Technology, 2021, 53, 522-531.	1.1	74

#	Article	IF	Citations
3682	Coordinate descent optimization for one-to-one correspondence and supervised classification of 3D shapes. Applied Mathematics and Computation, 2021, 388, 125539.	1.4	0
3683	Unsupervised deep learning-based process monitoring methods. , 2021, , 193-223.		6
3684	A data-driven approach for online dynamic security assessment with spatial-temporal dynamic visualization using random bits forest. International Journal of Electrical Power and Energy Systems, 2021, 124, 106316.	3.3	19
3685	A threshold self-setting condition monitoring scheme for wind turbine generator bearings based on deep convolutional generative adversarial networks. Measurement: Journal of the International Measurement Confederation, 2021, 167, 108234.	2.5	43
3686	Machine Learning Algorithms for Industrial Applications. Studies in Computational Intelligence, 2021, , .	0.7	15
3688	An unsupervised detection method for shilling attacks based on deep learning and community detection. Soft Computing, 2021, 25, 477-494.	2.1	13
3689	Callback2Vec: Callback-aware hierarchical embedding for mobile application. Information Sciences, 2021, 542, 131-155.	4.0	3
3690	Speech Technology for Healthcare: Opportunities, Challenges, and State of the Art. IEEE Reviews in Biomedical Engineering, 2021, 14, 342-356.	13.1	63
3691	Machine Learning for Clinical Outcome Prediction. IEEE Reviews in Biomedical Engineering, 2021, 14, 116-126.	13.1	76
3692	Joint Feature and Label Adversarial Network for Wafer Map Defect Recognition. IEEE Transactions on Automation Science and Engineering, 2021, 18, 1341-1353.	3.4	12
3693	Deep embedding of concept ontology for hierarchical fashion recognition. Neurocomputing, 2021, 425, 191-206.	3.5	13
3694	Text categorization: past and present. Artificial Intelligence Review, 2021, 54, 3007-3054.	9.7	44
3695	Learning data-driven decision-making policies in multi-agent environments for autonomous systems. Cognitive Systems Research, 2021, 65, 40-49.	1.9	12
3696	Learning latent representations of bank customers with the Variational Autoencoder. Expert Systems With Applications, 2021, 164, 114020.	4.4	9
3697	DNC: A Deep Neural Network-based Clustering-oriented Network Embedding Algorithm. Journal of Network and Computer Applications, 2021, 173, 102854.	5.8	17
3698	Ultrasound tissue classification: a review. Artificial Intelligence Review, 2021, 54, 3055-3088.	9.7	5
3699	Ensemble deep learning with multi-objective optimization for prognosis of rotating machinery. ISA Transactions, 2021, 113, 166-174.	3.1	19
3700	Digital technology, tele-medicine and artificial intelligence in ophthalmology: A global perspective. Progress in Retinal and Eye Research, 2021, 82, 100900.	7.3	261

#	Article	IF	Citations
3701	Text mining for modeling of protein complexes enhanced by machine learning. Bioinformatics, 2021, 37, 497-505.	1.8	2
3702	A Contribution to Deep Learning Approaches for Automatic Classification of Volcano-Seismic Events: Deep Gaussian Processes. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 3875-3890.	2.7	8
3703	Anatomy-Regularized Representation Learning for Cross-Modality Medical Image Segmentation. IEEE Transactions on Medical Imaging, 2021, 40, 274-285.	5.4	17
3704	DeepPPSite: A deep learning-based model for analysis and prediction of phosphorylation sites using efficient sequence information. Analytical Biochemistry, 2021, 612, 113955.	1.1	24
3705	A generic shift-norm-activation approach for deep learning. Pattern Recognition, 2021, 109, 107609.	5.1	0
3706	The strategic use of artificial intelligence in the digital era: Systematic literature review and future research directions. International Journal of Information Management, 2021, 57, 102225.	10.5	222
3707	Sentiment analysis in textual, visual and multimodal inputs using recurrent neural networks. Multimedia Tools and Applications, 2021, 80, 6871-6910.	2.6	35
3708	Community Detection Based on Modularized Deep Nonnegative Matrix Factorization. International Journal of Pattern Recognition and Artificial Intelligence, 2021, 35, 2159006.	0.7	10
3709	Sequential conditional reinforcement learning for simultaneous vertebral body detection and segmentation with modeling the spine anatomy. Medical Image Analysis, 2021, 67, 101861.	7.0	20
3710	Hybrid deep neural networks for reservoir production prediction. Journal of Petroleum Science and Engineering, 2021, 197, 108111.	2.1	20
3711	Application of neural network to model stiffness degradation for composite laminates under cyclic loadings. Composites Science and Technology, 2021, 203, 108573.	3.8	14
3712	Image representation of vibration signals and its application in intelligent compound fault diagnosis in railway vehicle wheelset-axlebox assemblies. Mechanical Systems and Signal Processing, 2021, 152, 107421.	4.4	37
3713	Hierarchical extreme learning machine with L21-norm loss and regularization. International Journal of Machine Learning and Cybernetics, 2021, 12, 1297-1310.	2.3	14
3714	Aggregated residual transformation network for multistage classification in diabetic retinopathy. International Journal of Imaging Systems and Technology, 2021, 31, 741-752.	2.7	8
3715	A lite convolutional neural network built on permuted Xceptio-inception and Xceptio-reduction modules for texture based facial liveness recognition. Multimedia Tools and Applications, 2021, 80, 10441-10472.	2.6	6
3716	Artificial intelligence for pathology. , 2021, , 183-221.		2
3717	The potential of deep learning for gastrointestinal endoscopyâ€"a disruptive new technology. , 2021, , 223-245.		0
3718	Quality estimation of nuts using deep learning classification of hyperspectral imagery. Computers and Electronics in Agriculture, 2021, 180, 105868.	3.7	32

#	Article	IF	Citations
3719	Root-cause analysis for time-series anomalies via spatiotemporal graphical modeling in distributed complex systems. Knowledge-Based Systems, 2021, 211, 106527.	4.0	13
3720	Research on image Inpainting algorithm of improved GAN based on two-discriminations networks. Applied Intelligence, 2021, 51, 3460-3474.	3.3	46
3721	Machine phenotyping of cluster headache and its response to verapamil. Brain, 2021, 144, 655-664.	3.7	12
3722	A comprehensive comparison of end-to-end approaches for handwritten digit string recognition. Expert Systems With Applications, 2021, 165, 114196.	4.4	10
3723	Otolith identification using a deep hierarchical classification model. Computers and Electronics in Agriculture, 2021, 180, 105883.	3.7	4
3724	Semi-random subspace with Bi-GRU: Fusing statistical and deep representation features for bearing fault diagnosis. Measurement: Journal of the International Measurement Confederation, 2021, 173, 108603.	2.5	22
3725	GraphAIR: Graph representation learning with neighborhood aggregation and interaction. Pattern Recognition, 2021, 112, 107745.	5.1	23
3726	Minority manifold regularization by stacked auto-encoder for imbalanced learning. Expert Systems With Applications, 2021, 169, 114317.	4.4	6
3727	One-dimensional convolutional neural network for damage detection of jacket-type offshore platforms. Ocean Engineering, 2021, 219, 108293.	1.9	32
3728	Comparative analysis on cross-modal information retrieval: A review. Computer Science Review, 2021, 39, 100336.	10.2	35
3729	Unified deep neural networks for end-to-end recognition of multi-oriented billet identification number. Expert Systems With Applications, 2021, 168, 114377.	4.4	7
3730	Semi-supervised disentangled framework for transferable named entity recognition. Neural Networks, 2021, 135, 127-138.	3.3	9
3731	Learning from imbalanced pulsar data by combine DCGAN and PILAE algorithm. New Astronomy, 2021, 85, 101561.	0.8	4
3732	Controlling biases and diversity in diverse image-to-image translation. Computer Vision and Image Understanding, 2021, 202, 103082.	3.0	2
3733	Exploiting deep learning for predictable carbon dot design. Chemical Communications, 2021, 57, 532-535.	2.2	21
3734	Learnable Subspace Clustering. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 1119-1133.	7.2	17
3735	User activity detection for massive Internet of things with an improved residual convolutional neural network. Transactions on Emerging Telecommunications Technologies, 2021, 32, e4182.	2.6	2
3736	Predicting regulatory variants using a dense epigenomic mapped CNN model elucidated the molecular basis of trait-tissue associations. Nucleic Acids Research, 2021, 49, 53-66.	6.5	17

#	Article	IF	Citations
3737	AI-CTO: Knowledge graph for automated and dependable software stack solution. Journal of Intelligent and Fuzzy Systems, 2021, 40, 799-812.	0.8	0
3738	Motivational engine and long-term memory coupling within a cognitive architecture for lifelong open-ended learning. Neurocomputing, 2021, 452, 341-354.	3.5	8
3739	A representation learning approach for recovering scatter–corrected spectra from Fourier–transform infrared spectra of tissue samples. Journal of Biophotonics, 2021, 14, e202000385.	1.1	3
3740	DIESEL: A novel deep learning-based tool for SpMV computations and solving sparse linear equation systems. Journal of Supercomputing, 2021, 77, 6313-6355.	2.4	10
3741	A comprehensive review on deep learning-based methods for video anomaly detection. Image and Vision Computing, 2021, 106, 104078.	2.7	114
3742	Hybrid classification of diffuse liver diseases in ultrasound images using deep convolutional neural networks. Informatics in Medicine Unlocked, 2021, 22, 100496.	1.9	23
3743	Defect Diagnosis in Solid Rocket Motors Using Sensors and Deep Learning Networks. AIAA Journal, 2021, 59, 276-281.	1.5	14
3744	Biomedical imaging and analysis through deep learning. , 2021, , 49-74.		2
3745	Fault diagnosis of rolling bearings using an Improved Multi-Scale Convolutional Neural Network with Feature Attention mechanism. ISA Transactions, 2021, 110, 379-393.	3.1	114
3746	Predicting stock price trends based on financial news articles and using a novel twin support vector machine with fuzzy hyperplane. Applied Soft Computing Journal, 2021, 98, 106806.	4.1	51
3747	Recommendation system for technology convergence opportunities based on self-supervised representation learning. Scientometrics, 2021, 126, 1-25.	1.6	21
3748	DeepEC: Adversarial attacks against graph structure prediction models. Neurocomputing, 2021, 437, 168-185.	3.5	12
3749	Automatic defects detection and classification of low carbon steel WAAM products using improved remanence/magneto-optical imaging and cost-sensitive convolutional neural network. Measurement: Journal of the International Measurement Confederation, 2021, 173, 108633.	2.5	16
3750	Deep Clustering With Intraclass Distance Constraint for Hyperspectral Images. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 4135-4149.	2.7	16
3751	GRP-DNet: A gray recurrence plot-based densely connected convolutional network for classification of epileptiform EEG. Journal of Neuroscience Methods, 2021, 347, 108953.	1.3	25
3752	Application and Construction of Deep Learning Networks in Medical Imaging. IEEE Transactions on Radiation and Plasma Medical Sciences, 2021, 5, 137-159.	2.7	29
3753	Attribute-based regularization of latent spaces for variational auto-encoders. Neural Computing and Applications, 2021, 33, 4429-4444.	3.2	12
3754	Data representation for CNN based internet traffic classification: a comparative study. Multimedia Tools and Applications, 2021, 80, 16951-16977.	2.6	10

#	ARTICLE	IF	CITATIONS
3755	Sparse Filtering With Adaptive Basis Weighting: A Novel Representation Learning Method for Intelligent Fault Diagnosis. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 1019-1025.	5.9	4
3756	A Deep Learning Based Data Fusion Method for Degradation Modeling and Prognostics. IEEE Transactions on Reliability, 2021, 70, 775-789.	3.5	40
3757	Revenue-Optimal Auction For Resource Allocation in Wireless Virtualization: A Deep Learning Approach. IEEE Transactions on Mobile Computing, 2022, 21, 1374-1387.	3.9	6
3758	Variational LSTM Enhanced Anomaly Detection for Industrial Big Data. IEEE Transactions on Industrial Informatics, 2021, 17, 3469-3477.	7.2	215
3759	Naturally occurring language as a source of evidence in suicide prevention. Suicide and Life-Threatening Behavior, 2021, 51, 88-96.	0.9	14
3760	Deep Learning for Cancer Diagnosis. Studies in Computational Intelligence, 2021, , .	0.7	12
3761	Automated Nociceptive Pain Assessment Using Physiological Signals and a Hybrid Deep Learning Network. IEEE Sensors Journal, 2021, 21, 3335-3343.	2.4	32
3762	Multiscale-based multimodal image classification of brain tumor using deep learning method. Neural Computing and Applications, 2021, 33, 5543-5553.	3.2	17
3763	Leveraging contextual influence and user preferences for point-of-interest recommendation. Multimedia Tools and Applications, 2021, 80, 1487-1501.	2.6	22
3764	Complex networks and deep learning for EEG signal analysis. Cognitive Neurodynamics, 2021, 15, 369-388.	2.3	89
3765	A Review of Domain Adaptation without Target Labels. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, 43, 766-785.	9.7	267
3766	Graph Embedding-Based Dimension Reduction With Extreme Learning Machine. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 4262-4273.	5.9	17
3767	Generating Actionable Interpretations from Ensembles of Decision Trees. IEEE Transactions on Knowledge and Data Engineering, 2021, 33, 1540-1553.	4.0	6
3768	A neural network extension of the Lee–Carter model to multiple populations. Annals of Actuarial Science, 2021, 15, 346-366.	1.0	52
3769	Distributed Variational Representation Learning. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, 43, 120-138.	9.7	42
3770	Learning to Recommend With Multiple Cascading Behaviors. IEEE Transactions on Knowledge and Data Engineering, 2021, 33, 2588-2601.	4.0	39
3771	Network attributes describe a similarity between deep neural networks and large scale brain networks. Journal of Complex Networks, 2021, 8, .	1.1	1
3772	Distributed Deep Learning Optimized System over the Cloud and Smart Phone Devices. IEEE Transactions on Mobile Computing, 2021, 20, 147-161.	3.9	16

#	Article	IF	Citations
3773	Graph input representations for machine learning applications in urban network analysis. Environment and Planning B: Urban Analytics and City Science, 2021, 48, 741-758.	1.0	2
3774	Disaster City Digital Twin: A vision for integrating artificial and human intelligence for disaster management. International Journal of Information Management, 2021, 56, 102049.	10.5	161
3775	Deep Residual Correction Network for Partial Domain Adaptation. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, 43, 2329-2344.	9.7	95
3776	Attn-HybridNet: Improving Discriminability of Hybrid Features With Attention Fusion. IEEE Transactions on Cybernetics, 2022, 52, 6567-6578.	6.2	2
3777	Variational Inference Formulation for a Model-Free Simulation of a Dynamical System with Unknown Parameters by a Recurrent Neural Network. SIAM Journal of Scientific Computing, 2021, 43, A1305-A1335.	1.3	3
3778	Safer-Driving: Application of Deep Transfer Learning to Build Intelligent Transportation Systems. Studies in Computational Intelligence, 2021, , 135-150.	0.7	0
3779	Disentangled Representation Learning for Controllable Image Synthesis: An Information-Theoretic Perspective. , 2021, , .		1
3780	Building Machine Learning Systems for Automated ESG Scoring. The Journal of Impact and ESG Investing, 2021, 1, 39-50.	0.7	15
3781	ProbWalk: A random walk approach in weighted graph embedding. Procedia Computer Science, 2021, 183, 683-689.	1.2	3
3782	Spatially Self-Paced Convolutional Networks for Change Detection in Heterogeneous Images. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 4966-4979.	2.3	16
3783	Learning Disentangled Representation for Multi-View 3D Object Recognition. IEEE Transactions on Circuits and Systems for Video Technology, 2022, 32, 646-659.	5.6	14
3784	Deep learning for biomedical applications. , 2021, , 71-94.		0
3785	A Time-Frequency Based Suspicious Activity Detection for Anti-Money Laundering. IEEE Access, 2021, 9, 59957-59967.	2.6	9
3786	Privacy-Preserving Association Rule Mining in Distributed Database Environment: A Review. Lecture Notes in Networks and Systems, 2021, , 147-158.	0.5	0
3787	AI applications in the business and administration of health care. , 2021, , 79-123.		0
3788	Estimating individual-level average treatment effects: Challenges, modeling approaches, and practical applications. Handbook of Statistics, 2021, 44, 155-199.	0.4	0
3789	Knowledge Representation and Reasoning in AI-Based Solutions and IoT Applications. , 2021, , 13-49.		1
3790	Machine learning in patient flow: a review. Progress in Biomedical Engineering, 2021, 3, 022002.	2.8	11

#	Article	IF	Citations
3791	Deep Learning Techniques Dealing with Diabetes Mellitus: A Comprehensive Study. Studies in Computational Intelligence, 2021, , 295-323.	0.7	10
3792	Multi-Region Two-Stream Deep Architecture for Visual Power Monitoring Systems. IEEE Access, 2021, 9, 47998-48009.	2.6	2
3793	A Probabilistic Model Based on Bipartite Convolutional Neural Network for Unsupervised Change Detection. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-14.	2.7	12
3794	Learning High-Dimensional Evolving Data Streams With Limited Labels. IEEE Transactions on Cybernetics, 2022, 52, 11373-11384.	6.2	3
3795	Alzheimer's Disease Detection Using CNN Based on Effective Dimensionality Reduction Approach. Advances in Intelligent Systems and Computing, 2021, , 801-811.	0.5	4
3796	Classification of Cultural Heritage Mosque of Bangladesh Using CNN and Keras Model. Advances in Intelligent Systems and Computing, 2021, , 647-658.	0.5	0
3797	A Password Meter without Password Exposure. Sensors, 2021, 21, 345.	2.1	4
3798	Disentangled Sequential Graph Autoencoder for Preclinical Alzheimer's Disease Characterizations fromÂADNIÂStudy. Lecture Notes in Computer Science, 2021, , 362-372.	1.0	5
3799	Unsupervised Interpretable Representation Learning for Singing Voice Separation. , 2021, , .		5
3800	Deep Spectral Representation Learning From Multi-View Data. IEEE Transactions on Image Processing, 2021, 30, 5352-5362.	6.0	47
3801	Images carried before the fire: The power, promise, and responsibility of latent phenotyping in plants. The Plant Phenome Journal, 2021, 4, e20023.	1.0	6
3802	Defending Adversarial Attacks via Semantic Feature Manipulation. IEEE Transactions on Services Computing, 2021, , 1-1.	3.2	2
3803	Playing with Food: Learning Food Item Representations Through Interactive Exploration. Springer Proceedings in Advanced Robotics, 2021, , 309-322.	0.9	2
3804	Heart Rate and CGM Feature Representation Diabetes Detection From Heart Rate: Learning Joint Features of Heart Rate and Continuous Glucose Monitors Yields Better Representations. IEEE Access, 2021, 9, 83234-83240.	2.6	9
3805	A Novel Estimator of Mutual Information for Learning to Disentangle Textual Representations. , 2021, , .		5
3807	A demystifying convolutional neural networks using Grad-CAM for prediction of coronavirus disease (COVID-19) on X-ray images. , 2021, , 429-450.		3
3808	Chemical Named Entity Recognition Using Deep Learning Techniques. Advances in Computational Intelligence and Robotics Book Series, 2021, , 59-73.	0.4	0
3809	Decision Snippet Features. , 2021, , .		0

#	Article	IF	Citations
3810	Class-Similarity Based Label Smoothing for Confidence Calibration. Lecture Notes in Computer Science, 2021, , 190-201.	1.0	0
3811	Falcon: Malware Detection andÂCategorization with Network TrafficÂImages. Lecture Notes in Computer Science, 2021, , 117-128.	1.0	9
3812	Learning Disentangled Representations with the Wasserstein Autoencoder. Lecture Notes in Computer Science, 2021, , 69-84.	1.0	3
3813	Bilevel Online Deep Learning in Non-stationary Environment. Lecture Notes in Computer Science, 2021, , 347-358.	1.0	2
3814	Recent advances in surface defect inspection of industrial products using deep learning techniques. International Journal of Advanced Manufacturing Technology, 2021, 113, 35-58.	1.5	81
3815	DeepMAL - Deep Learning Models for Malware Traffic Detection and Classification. , 2021, , 105-112.		29
3816	Instance Selection-Based Surrogate-Assisted Genetic Programming for Feature Learning in Image Classification. IEEE Transactions on Cybernetics, 2023, 53, 1118-1132.	6.2	10
3817	Instance-Invariant Domain Adaptive Object Detection via Progressive Disentanglement. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, PP, 1-1.	9.7	35
3818	Recent Advances in Variational Autoencoders With Representation Learning for Biomedical Informatics: A Survey. IEEE Access, 2021, 9, 4939-4956.	2.6	35
3819	AttrHIN: Network Representation Learning Method for Heterogeneous Information Network. IEEE Access, 2021, 9, 127397-127406.	2.6	0
3820	Variables Influencing per Capita Production, Separate Collection, and Costs of Municipal Solid Waste in the Apulia Region (Italy): An Experience of Deep Learning. International Journal of Environmental Research and Public Health, 2021, 18, 752.	1.2	10
3821	Combination of Manifold Learning and Deep Learning Algorithms for Mid-Term Electrical Load Forecasting. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 2584-2593.	7.2	16
3822	Knowledge Router: Learning Disentangled Representations for Knowledge Graphs. , 2021, , .		4
3823	Dynamically Disentangling Social Bias from Task-Oriented Representations with Adversarial Attack. , 2021, , .		9
3824	InfoMax-GAN: Improved Adversarial Image Generation via Information Maximization and Contrastive Learning. , 2021, , .		23
3825	Data Pre-Processing Using Neural Processes for Modeling Personalized Vital-Sign Time-Series Data. IEEE Journal of Biomedical and Health Informatics, 2022, 26, 1528-1537.	3.9	7
3826	In support of â€œno-faultâ€•civil liability rules for artificial intelligence. SN Social Sciences, 2021, 1, 54.	0.4	7
3827	AI4VIS: Survey on Artificial Intelligence Approaches for Data Visualization. IEEE Transactions on Visualization and Computer Graphics, 2022, 28, 5049-5070.	2.9	45

#	ARTICLE	IF	CITATIONS
3828	A Sensorimotor Perspective on Contrastive Multiview Visual Representation Learning. IEEE Transactions on Cognitive and Developmental Systems, 2022, 14, 269-278.	2.6	1
3829	Surface Electromyography Image-Driven Torque Estimation of Multi-DoF Wrist Movements. IEEE Transactions on Industrial Electronics, 2022, 69, 795-804.	5.2	21
3830	Machine learning techniques in nested stochastic simulations for life insurance. Applied Stochastic Models in Business and Industry, 2021, 37, 159-181.	0.9	4
3831	Prognostics With Variational Autoencoder by Generative Adversarial Learning. IEEE Transactions on Industrial Electronics, 2022, 69, 856-867.	5.2	20
3832	A Survey on Human Action Recognition in a Video Sequence. Lecture Notes in Networks and Systems, 2021, , 82-93.	0.5	0
3833	Evolutionary Deep Learning Using GP with Convolution Operators. Adaptation, Learning, and Optimization, 2021, , 97-115.	0.5	0
3834	A Discriminative Vectorial Framework for Multi-Modal Feature Representation. IEEE Transactions on Multimedia, 2022, 24, 1503-1514.	5.2	6
3835	Convolutional Autoencoder-Based Transfer Learning for Multi-Task Image Inferences. IEEE Transactions on Emerging Topics in Computing, 2021, , 1-1.	3.2	7
3836	A Task-Based Day-Ahead Load Forecasting Model for Stochastic Economic Dispatch. IEEE Transactions on Power Systems, 2021, 36, 5294-5304.	4.6	28
3837	Deep Hybrid Neural Networks with Improved Weighted Word Embeddings for Sentiment Analysis. Lecture Notes in Computer Science, 2021, , 50-62.	1.0	0
3838	Degradation Alignment in Remaining Useful Life Prediction Using Deep Cycle-Consistent Learning. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 5480-5491.	7.2	39
3839	Mutual Information based Method for Unsupervised Disentanglement of Video Representation. , 2021, , .		0
3840	Multi-Deep Net Based Hyperspectral Image Classification. Engineering Applications of Computational Methods, 2021, , 119-158.	0.5	1
3841	dpVAEs: Fixing Sample Generation for Regularized VAEs. Lecture Notes in Computer Science, 2021, 12625, 643-660.	1.0	0
3842	Learning a Contextual and Topological Representation of Areas-of-Interest for On-Demand Delivery Application. Lecture Notes in Computer Science, 2021, , 52-68.	1.0	0
3844	Toward Decoding the Relationship between Domain Structure and Functionality in Ferroelectrics via Hidden Latent Variables. ACS Applied Materials & Interfaces, 2021, 13, 1693-1703.	4.0	22
3845	Estimating Demand Flexibility Using Siamese LSTM Neural Networks. IEEE Transactions on Power Systems, 2022, 37, 2360-2370.	4.6	12
3846	HGAN: Hyperbolic Generative Adversarial Network. IEEE Access, 2021, 9, 96309-96320.	2.6	4

#	Article	IF	Citations
3847	Design and Implementation of a Vision- and Grating-Sensor-Based Intelligent Unmanned Settlement System. IEEE Transactions on Artificial Intelligence, 2022, 3, 254-264.	3.4	0
3848	Multimodal Embeddings From Language Models for Emotion Recognition in the Wild. IEEE Signal Processing Letters, 2021, 28, 608-612.	2.1	15
3849	Autoencoding With a Classifier System. IEEE Transactions on Evolutionary Computation, 2021, 25, 1079-1090.	7.5	8
3850	Recognition of Rock Micro-Fracture Signal Based on Deep Convolution Neural Network Inception Algorithm. IEEE Access, 2021, 9, 89390-89399.	2.6	5
3851	Low Dimensional State Representation Learning with Reward-shaped Priors. , 2021, , .		0
3852	Homotopic Gradients of Generative Density Priors for MR Image Reconstruction. IEEE Transactions on Medical Imaging, 2021, 40, 3265-3278.	5.4	15
3853	Minimax Robust Detection: Classic Results and Recent Advances. IEEE Transactions on Signal Processing, 2021, 69, 2252-2283.	3.2	11
3854	Disentangled Representation Learning in Real-World Image Datasets via Image Segmentation Prior. IEEE Access, 2021, 9, 110880-110888.	2.6	0
3855	Review of Computational Techniques for the Analysis of Abnormal Patterns of ECG Signal Provoked by Cardiac Disease. CMES - Computer Modeling in Engineering and Sciences, 2021, 128, 875-906.	0.8	2
3856	*GeoTrackNet*â€"A Maritime Anomaly Detector Using Probabilistic Neural Network Representation of AIS Tracks and *A Contrario* Detection. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 5655-5667.	4.7	40
3857	Deep learning for early detection of pathological changes in X-ray bone microstructures: case of osteoarthritis. Scientific Reports, 2021, 11, 2294.	1.6	21
3858	Medical image fusion methods: Review and application in cardiac diagnosis. , 2021, , 195-215.		5
3859	Distinguishing type II focal cortical dysplasias from normal cortex: A novel normative modeling approach. NeuroImage: Clinical, 2021, 30, 102565.	1.4	6
3860	Deep Learning for Sentiment Analysis. Advances in Business Information Systems and Analytics Book Series, 2021, , 97-132.	0.3	1
3861	Efficient Feature-Aware Hybrid Model of Deep Learning Architectures for Speech Emotion Recognition. IEEE Access, 2021, 9, 19999-20011.	2.6	20
3862	Mobile-Aware Deep Learning Algorithms for Malaria Parasites and White Blood Cells Localization in Thick Blood Smears. Algorithms, 2021, 14, 17.	1.2	16
3863	Learning to Disentangle Inter-Subject Anatomical Variations in Electrocardiographic Data. IEEE Transactions on Biomedical Engineering, 2022, 69, 860-870.	2.5	5
3864	Learning Abstract Representations Through Lossy Compression of Multimodal Signals. IEEE Transactions on Cognitive and Developmental Systems, 2023, 15, 348-360.	2.6	4

#	Article	IF	Citations
3865	Automatic Recognition of Basic Strokes Based on FMCW Radar System. IEEE Sensors Journal, 2021, 21, 15101-15113.	2.4	2
3866	Differentially Private Tensor Train Deep Computation for Internet of Multimedia Things. ACM Transactions on Multimedia Computing, Communications and Applications, 2020, 16, 1-20.	3.0	14
3867	LDA-Reg: Knowledge Driven Regularization Using External Corpora. IEEE Transactions on Knowledge and Data Engineering, 2022, 34, 5840-5853.	4.0	3
3868	Information Bottleneck and Representation Learning. , 2021, , 330-358.		0
3869	Current state of artificial intelligence applications in ophthalmology and their potential to influence clinical practice. Cogent Engineering, 2021, 8, 1920707.	1.1	3
3870	Neural Network Predictions Can Be Misleading Evidence From Predicting Crude Oil Futures Prices. E3S Web of Conferences, 2021, 253, 02015.	0.2	3
3871	Towards Robust Learning with Different Label Noise Distributions. , 2021, , .		3
3872	Semi-Supervised Source Localization in Reverberant Environments With Deep Generative Modeling. IEEE Access, 2021, 9, 84956-84970.	2.6	22
3873	Introduction to Information Theory and Data Science.. , 2021, , 1-43.		0
3874	Human-inspired models for tactile computing. , 2021, , 169-195.		2
3875	Direct full quantification of the left ventricle via multitask regression and classification. Applied Intelligence, 2021, 51, 5745-5758.	3.3	1
3876	Improving ultrasound-based multimodal speech recognition with predictive features from representation learning. JASA Express Letters, 2021, 1, .	0.5	5
3877	Computer Vision and Machine Learning. Adaptation, Learning, and Optimization, 2021, , 11-48.	0.5	0
3878	The Role of Applications Deep Learning in Achieving Sustainable Development Goals. Advances in Science, Technology and Innovation, 2021, , 71-78.	0.2	0
3879	High-Resolution SAR Image Classification Using Multi-Scale Deep Feature Fusion and Covariance Pooling Manifold Network. Remote Sensing, 2021, 13, 328.	1.8	13
3880	A Convolutional Neural Network on X-Ray Images for Pneumonia Diagnosis. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2021, , 203-215.	0.2	0
3881	Predicting the Generalization Ability of a Few-Shot Classifier. Information (Switzerland), 2021, 12, 29.	1.7	0
3882	Complete Stacked Denoising Auto-Encoders for Regression. Neural Processing Letters, 2021, 53, 787-797.	2.0	1

#	Article	IF	Citations
3883	Deep Learning for Anterior Segment Optical Coherence Tomography to Predict the Presence of Plateau Iris. Translational Vision Science and Technology, 2021, 10, 7.	1.1	16
3884	What Is the Model in Modelâ€Based Planning?. Cognitive Science, 2021, 45, e12928.	0.8	9
3885	Hyperspectral Image and Classification Approaches. Engineering Applications of Computational Methods, 2021, , 13-34.	0.5	0
3886	Adversarial Semi-supervised Multi-domain Tracking. Lecture Notes in Computer Science, 2021, , 612-630.	1.0	0
3887	Sum-product networks: A survey. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, PP, 1-1.	9.7	8
3888	Mining and Construction of Information Opportunity Cooperation Mode Based on Big Data Fusion Internet of Things. IEEE Access, 2021, 9, 29401-29415.	2.6	2
3889	Innovation on Machine Learning in Healthcare Servicesâ€"An Introduction. Studies in Computational Intelligence, 2021, , 1-30.	0.7	3
3890	Network Embedding Attack: An Euclidean Distance Based Method. Lecture Notes in Computer Science, 2021, , 131-151.	1.0	1
3892	A Lightweight Encoderâ€"Decoder Path for Deep Residual Networks. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 866-878.	7.2	3
3893	Dataset Denoising Based on Manifold Assumption. Mathematical Problems in Engineering, 2021, 2021, 1-14.	0.6	2
3894	A Plug-in Method for Representation Factorization in Connectionist Models. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 3792-3803.	7.2	1
3895	Regenerative Design Tools for the Existing City: HBIM Potentials. Future City, 2021, , 23-43.	0.2	5
3896	Leveraging Deep Reinforcement Learning for Traffic Engineering: A Survey. IEEE Communications Surveys and Tutorials, 2021, 23, 2064-2097.	24.8	36
3897	VAMBC: A Variational Approach forÂMobility Behavior Clustering. Lecture Notes in Computer Science, 2021, , 453-469.	1.0	2
3898	A Study of Incorporation of Deep Learning Into Software Reliability Modeling and Assessment. IEEE Transactions on Reliability, 2021, 70, 1621-1640.	3.5	11
3899	Video Activity Recognition Based on Objects Detection Using Recurrent Neural Networks. Lecture Notes in Networks and Systems, 2021, , 855-866.	0.5	0
3900	DirectProbe: Studying Representations without Classifiers. , 2021, , .		8
3901	Hierarchical Topology-Based Cluster Representation for Scalable Evolutionary Multiobjective Clustering. IEEE Transactions on Cybernetics, 2022, 52, 9846-9860.	6.2	13

#	Article	IF	Citations
3902	Statistical Foundations of Actuarial Learning and its Applications. SSRN Electronic Journal, 0, , .	0.4	8
3903	Probabilistic Word Embeddings in Kinematic Space. , 2021, , .		0
3904	Diagnosis of Infantile Hip Dysplasia With B-Mode Ultrasound via Two-Stage Meta-Learning Based Deep Exclusivity Regularized Machine. IEEE Journal of Biomedical and Health Informatics, 2022, 26, 334-344.	3.9	4
3905	Automatic Identification Algorithm of the Rice Tiller Period Based on PCA and SVM. IEEE Access, 2021, 9, 86843-86854.	2.6	11
3906	AIM in Surgical Pathology. , 2021, , 1-18.		0
3907	Deep Representation Learning for Image-Based Cell Profiling. Lecture Notes in Computer Science, 2021, , 487-497.	1.0	1
3908	Deep Learning Based Vulnerability Detection: Are We There Yet?. IEEE Transactions on Software Engineering, 2022, 48, 3280-3296.	4.3	111
3909	Multi-task, Multi-domain Deep Segmentation with Shared Representations and Contrastive Regularization for Sparse Pediatric Datasets. Lecture Notes in Computer Science, 2021, , 239-249.	1.0	2
3910	MLRP-KG: Mine Landslide Risk Prediction Based on Knowledge Graph. IEEE Transactions on Artificial Intelligence, 2022, 3, 78-87.	3.4	3
3911	Generative Adversarial Networks for Image and Video Synthesis: Algorithms and Applications. Proceedings of the IEEE, 2021, 109, 839-862.	16.4	67
3912	Representation Learning via Cauchy Convolutional Sparse Coding. IEEE Access, 2021, 9, 100447-100459.	2.6	4
3913	High Energy Physics Calorimeter Detector Simulation Using Generative Adversarial Networks With Domain Related Constraints. IEEE Access, 2021, 9, 108899-108911.	2.6	4
3914	Learning Sparse Sentence Encoding without Supervision: An Exploration of Sparsity in Variational Autoencoders. , 2021, , .		1
3915	A Hybrid Deep Learning Model for Predicting Molecular Subtypes of Human Breast Cancer Using Multimodal Data. Irbm, 2022, 43, 62-74.	3.7	39
3916	Security of multimedia content for ownership identification using signaling technique. , 2021, , .		0
3917	Complex Robotic Manipulation via Graph-Based Hindsight Goal Generation. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 7863-7876.	7.2	10
3918	Learning From a Complementary-Label Source Domain: Theory and Algorithms. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 7667-7681.	7.2	50
3919	A Good Start is Half the Battle Won: Unsupervised Pre-training for Low Resource Children's Speech Recognition for an Interactive Reading Companion. Lecture Notes in Computer Science, 2021, , 306-317.	1.0	1

#	Article	IF	Citations
3920	Blind Image Quality Assessment by Visual Neuron Matrix. IEEE Signal Processing Letters, 2021, 28, 1803-1807.	2.1	8
3921	ScSSC: Semi-supervised Single Cell Clustering Based on 2D Embedding. Lecture Notes in Computer Science, 2021, , 478-489.	1.0	1
3922	Experiment Improvement of Restricted Boltzmann Machine Methods for Image Classification. Vietnam Journal of Computer Science, 2021, 08, 417-432.	1.0	7
3923	Feature Engineering for Various Data Types in Data Science. Advances in Data Mining and Database Management Book Series, 2021, , 1-16.	0.4	2
3924	Prostate Cancer Detection Using Deep Learning and Traditional Techniques. IEEE Access, 2021, 9, 27085-27100.	2.6	49
3925	κ-Circulant Maximum Variance Bases. Lecture Notes in Computer Science, 2021, , 17-29.	1.0	3
3926	From traditional to deep learning: Fault diagnosis for autonomous vehicles. , 2021, , 205-219.		10
3927	Electricity Consumption Forecasting Using Gated-FCN With Ensemble Strategy. IEEE Access, 2021, 9, 131365-131381.	2.6	7
3928	CompactNet: A Light-Weight Deep Learning Framework for Smart Intrusive Load Monitoring. IEEE Sensors Journal, 2021, 21, 25181-25189.	2.4	1
3929	Adaptive Prototypical Networks With Label Words and Joint Representation Learning for Few-Shot Relation Classification. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 1406-1417.	7.2	12
3930	Deep Transfer Learning based Multisource Adaptation Fault Diagnosis Network for Industrial Processes. IFAC-PapersOnLine, 2021, 54, 49-54.	0.5	7
3931	Wind Turbine Gearbox Anomaly Detection Based on Adaptive Threshold and Twin Support Vector Machines. IEEE Transactions on Energy Conversion, 2021, 36, 3462-3469.	3.7	100
3932	FERMAT: Feature Engineering with Grammatical Evolution. Lecture Notes in Computer Science, 2021, , 239-251.	1.0	0
3933	Detection of Obstructive Sleep Apnoea by ECG signals using Deep Learning Architectures. , 2021, , .		8
3934	Vehicle Type Recognition Algorithm Based on Improved Network in Network. Complexity, 2021, 2021, 1-10.	0.9	4
3936	Data Management in Modernizing the Future Multi-Carrier Energy Networks. Power Systems, 2021, , 117-174.	0.3	2
3937	Towards Ontology-Guided Learning for Shepherding. Unmanned System Technologies, 2021, , 115-130.	0.9	0
3938	Automatic Facial Expression Recognition Based on Deep Layered Representation of Convolution Neural Networks. Lecture Notes in Networks and Systems, 2021, , 65-76.	0.5	2

#	Article	IF	Citations
3939	Deep Convolutional Neural Network Based on Wavelet Transform for Super Image Resolution. Advances in Intelligent Systems and Computing, 2021, , 114-123.	0.5	3
3940	Artificial Intelligence (AI) in medicine as a strategic valuable tool. Pan African Medical Journal, 2021, 38, 184.	0.3	15
3941	A Novel Scheme for Real-Time Max/Min-Set-Selection Sorters on FPGA. IEEE Transactions on Circuits and Systems II: Express Briefs, 2021, 68, 2665-2669.	2.2	4
3942	Predicting Chemical Properties using Self-Attention Multi-task Learning based on SMILES Representation. , 2021, , .		9
3943	Functional Autoencoders for Functional Data Representation Learning. , 2021, , 666-674.		2
3944	A Review: Image Classification and Object Detection with Deep Learning. Algorithms for Intelligent Systems, 2021, , 69-91.	0.5	0
3946	Convolutional Long Short-Term Memory Autoencoder-Based Feature Learning for Fault Detection in Industrial Processes. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-15.	2.4	22
3947	Online deep learning based on auto-encoder. Applied Intelligence, 2021, 51, 5420-5439.	3.3	1
3948	Semi-AttentionAE: An Integrated Model for Graph Representation Learning. IEEE Access, 2021, 9, 80787-80796.	2.6	0
3949	Dual generative adversarial active learning. Applied Intelligence, 2021, 51, 5953-5964.	3.3	11
3950	Information Graphic Summarization using a Collection of Multimodal Deep Neural Networks. , 2021, , .		4
3951	Breast Cancer Classification From Histopathological Images Using Patch-Based Deep Learning Modeling. IEEE Access, 2021, 9, 24273-24287.	2.6	93
3952	GazeMAE: General Representations of Eye Movements using a Micro-Macro Autoencoder. , 2021, , .		5
3953	Robust and high-order correlation alignment for unsupervised domain adaptation. Neural Computing and Applications, 2021, 33, 6891-6903.	3.2	16
3954	Immunocomputing-Based Approach for Optimizing the Topologies of LSTM Networks. IEEE Access, 2021, 9, 78993-79004.	2.6	21
3955	DNAVec: Pre-Trained Word Vector Representation of Genomic DNA Sequences. Hans Journal of Biomedicine, 2021, 11, 121-128.	0.0	0
3956	Separation of color channels from conventional colonoscopy images improves deep neural network detection of polyps. Journal of Biomedical Optics, 2021, 26, .	1.4	12
3957	Deep learning encodes robust discriminative neuroimaging representations to outperform standard machine learning. Nature Communications, 2021, 12, 353.	5.8	114

#	ARTICLE	IF	CITATIONS
3958	Improved Multi-Echo Gradient-Echo-Based Myelin Water Fraction Mapping Using Dimensionality Reduction. IEEE Transactions on Medical Imaging, 2022, 41, 27-38.	5.4	2
3959	Deep Learning for Histopathological Image Analysis. , 2021, , 153-169.		3
3960	Passive Sonar Target Classification Using Deep Generative eta -VAE. IEEE Signal Processing Letters, 2021, 28, 808-812.	2.1	16
3961	Privacy-Preserving Audio Classification Using Variational Information Feature Extraction. IEEE/ACM Transactions on Audio Speech and Language Processing, 2021, 29, 2864-2877.	4.0	4
3962	Improving Political Discourse Analysis on Twitter With Context Analysis. IEEE Access, 2021, 9, 104846-104863.	2.6	3
3963	Enhancing Fidelity of Description in Android Apps With Category-Based Common Permissions. IEEE Access, 2021, 9, 105493-105505.	2.6	4
3964	Deep Learning in Healthcare. Lecture Notes in Bioengineering, 2021, , 155-168.	0.3	1
3965	Representation learning applications in biological sequence analysis. Computational and Structural Biotechnology Journal, 2021, 19, 3198-3208.	1.9	42
3966	Multivariate Business Process Representation Learning Utilizing Gramian Angular Fields and Convolutional Neural Networks. Lecture Notes in Computer Science, 2021, , 327-344.	1.0	8
3967	A Novel Bayesian Framework With Enhanced Principal Component Analysis for Chemical Fault Diagnosis. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-9.	2.4	7
3968	An Efficient Iterative Approach to Explainable Feature Learning. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 2606-2618.	7.2	0
3969	Two-Level Genetic Algorithm for Evolving Convolutional Neural Networks for Pattern Recognition. IEEE Access, 2021, 9, 126856-126872.	2.6	9
3970	Deep Learning Based Resource Availability Prediction for Local Mobile Crowd Computing. IEEE Access, 2021, 9, 116647-116671.	2.6	10
3971	Statistical Modeling of Pulmonary Vasculatures with Topological Priors in CT Volumes. Lecture Notes in Computer Science, 2021, , 108-118.	1.0	0
3973	Explore the Use of Self-supervised Pre-trained Acoustic Features on Disguised Speech Detection. Lecture Notes in Computer Science, 2021, , 483-490.	1.0	0
3974	Weighted Gate Layer Autoencoders. IEEE Transactions on Cybernetics, 2022, 52, 7242-7253.	6.2	9
3975	Deep-Learning Approach for Tissue Classification Using Acoustic Waves During Ablation With an Er:YAG Laser. IEEE Access, 2021, 9, 130543-130553.	2.6	1
3976	A Semi-Supervised Learning Method for MiRNA-Disease Association Prediction Based on Variational Autoencoder. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2022, 19, 2049-2059.	1.9	18

#	ARTICLE	IF	CITATIONS
3977	Heterogeneous Face Interpretable Disentangled Representation for Joint Face Recognition and Synthesis. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 5611-5625.	7.2	19
3978	Clustering Mixed-Type Data with Correlation-Preserving Embedding. Lecture Notes in Computer Science, 2021, , 342-358.	1.0	1
3979	Locality-Promoting Representation Learning. , 2021, , .		2
3980	Equation Attention Relationship Network (EARN) : A Geometric Deep Metric Framework for Learning Similar Math Expression Embedding. , 2021, , .		4
3981	What You Need to Know About Artificial Intelligence: Technical Introduction. Current Practices in Ophthalmology, 2021, , 13-25.	0.1	0
3982	Two-Level Attention Model of Representation Learning for Fraud Detection. IEEE Transactions on Computational Social Systems, 2021, 8, 1291-1301.	3.2	13
3983	Nonlinear Projective Dictionary Pair Learning for PolSAR Image Classification. IEEE Access, 2021, 9, 70650-70661.	2.6	4
3984	The Potential of Computer Vision-Based Marker-Less Human Motion Analysis for Rehabilitation. Rehabilitation Process and Outcome, 2021, 10, 117957272110223.	0.8	26
3985	Computation Offloading and Shunting Scheme in Wireless Wireline Internetwork. IEEE Transactions on Communications, 2021, 69, 6808-6821.	4.9	4
3986	Applying deep learning to defect detection in printed circuit boards via a newest model of you-only-look-once. Mathematical Biosciences and Engineering, 2021, 18, 4411-4428.	1.0	49
3987	Searching for Mathematical Formulas Based on Graph Representation Learning. Lecture Notes in Computer Science, 2021, , 137-152.	1.0	2
3988	Deriving Design Feature Vectors for Patent Images Using Convolutional Neural Networks. Journal of Mechanical Design, Transactions of the ASME, 2021, 143, .	1.7	25
3989	Comprehensive Survey on Machine Learning in Vehicular Network: Technology, Applications and Challenges. IEEE Communications Surveys and Tutorials, 2021, 23, 2027-2057.	24.8	92
3990	Disentanglement and Local Directions of Variance. Lecture Notes in Computer Science, 2021, , 19-34.	1.0	0
3991	Self-supervised Multi-task Representation Learning for Sequential Medical Images. Lecture Notes in Computer Science, 2021, , 779-794.	1.0	4
3992	Intelligent Self-reliant Cyber-Attacks Detection and Classification System for IoT Communication Using Deep Convolutional Neural Network. Lecture Notes in Networks and Systems, 2021, , 100-116.	0.5	11
3993	Learning Dynamics and Heterogeneity of Spatial-Temporal Graph Data for Traffic Forecasting. IEEE Transactions on Knowledge and Data Engineering, 2022, 34, 5415-5428.	4.0	152
3994	Device-Free Wireless Sensing for Human Detection: The Deep Learning Perspective. IEEE Internet of Things Journal, 2021, 8, 2517-2539.	5.5	78

#	ARTICLE	IF	CITATIONS
3995	Efficient steganalysis using convolutional auto encoder network to ensure original image quality. PeerJ Computer Science, 2021, 7, e356.	2.7	12
3996	Generative Adversarial Networks in Disease Gene Drug Relationships. IOP Conference Series: Materials Science and Engineering, 2021, 1055, 012120.	0.3	0
3997	Learning regularized representations of categorically labelled surface EMG enables simultaneous and proportional myoelectric control. Journal of NeuroEngineering and Rehabilitation, 2021, 18, 35.	2.4	11
3998	New polyp image classification technique using transfer learning of network-in-network structure in endoscopic images. Scientific Reports, 2021, 11, 3605.	1.6	9
3999	Recognition of facial expression of fetuses by artificial intelligence (AI). Journal of Perinatal Medicine, 2021, 49, 596-603.	0.6	16
4000	Decontextualized learning for interpretable hierarchical representations of visual patterns. Patterns, 2021, 2, 100193.	3.1	3
4002	Neighbor Oblivious Learning (NObLe) for Device Localization and Tracking. , 2021, , .		0
4003	Plant diseases and pests detection based on deep learning: a review. Plant Methods, 2021, 17, 22.	1.9	340
4004	Development and Validation of a Machine Learning Approach for Automated Severity Assessment of COVID-19 Based on Clinical and Imaging Data: Retrospective Study. JMIR Medical Informatics, 2021, 9, e24572.	1.3	36
4005	â€œChatty Devicesâ€•and edge-based activity classification. Discover Internet of Things, 2021, 1, 1.	3.3	2
4006	Learning to disentangle emotion factors for facial expression recognition in the wild. International Journal of Intelligent Systems, 2021, 36, 2511-2527.	3.3	6
4007	Wheel Hub Defects Image Recognition Base on Zero-Shot Learning. Applied Sciences (Switzerland), 2021, 11, 1529.	1.3	3
4008	Doubleâ€flow convolutional neural network for rapid large field of view Fourier ptychographic reconstruction. Journal of Biophotonics, 2021, 14, e202000444.	1.1	5
4009	Designing Trojan Detectors in Neural Networks Using Interactive Simulations. Applied Sciences (Switzerland), 2021, 11, 1865.	1.3	1
4010	Solving two-stage stochastic route-planning problem in milliseconds via end-to-end deep learning. Complex & Intelligent Systems, 2021, 7, 1207-1222.	4.0	10
4011	Attention-Based Neural Networks for Chroma Intra Prediction in Video Coding. IEEE Journal on Selected Topics in Signal Processing, 2021, 15, 366-377.	7.3	15
4012	Topological limits to the parallel processing capability of network architectures. Nature Physics, 2021, 17, 646-651.	6.5	14
4013	Time-series forecasting of mortality rates using deep learning. Scandinavian Actuarial Journal, 2021, 2021, 572-598.	1.0	41

#	ARTICLE	IF	CITATIONS
4014	DNABERT: pre-trained Bidirectional Encoder Representations from Transformers model for DNA-language in genome. Bioinformatics, 2021, 37, 2112-2120.	1.8	282
4015	Computer-Aided Diagnosis Research of a Lung Tumor Based on a Deep Convolutional Neural Network and Global Features. BioMed Research International, 2021, 2021, 1-12.	0.9	8
4016	On Representation Learning for Road Networks. ACM Transactions on Intelligent Systems and Technology, 2021, 12, 1-27.	2.9	9
4018	Mutual Information-Based Disentangled Neural Networks for Classifying Unseen Categories in Different Domains: Application to Fetal Ultrasound Imaging. IEEE Transactions on Medical Imaging, 2021, 40, 722-734.	5.4	28
4019	Time-series forecasting with deep learning: a survey. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2021, 379, 20200209.	1.6	419
4020	A review on COVID-19 forecasting models. Neural Computing and Applications, 2023, 35, 23671-23681.	3.2	137
4021	A method of radar target detection based on convolutional neural network. Neural Computing and Applications, 2021, 33, 9835-9847.	3.2	18
4022	Potential of P-Band SAR Tomography in Forest Type Classification. Remote Sensing, 2021, 13, 696.	1.8	6
4023	Abnormal behavior recognition using 3D-CNN combined with LSTM. Multimedia Tools and Applications, 2021, 80, 18787-18801.	2.6	9
4025	Use of deep learning models in street-level images to classify one-story unreinforced masonry buildings based on roof diaphragms. Building and Environment, 2021, 189, 107517.	3.0	9
4026	A genetic algorithm approach for image representation learning through color quantization. Multimedia Tools and Applications, 2021, 80, 15315-15350.	2.6	0
4027	Convolutional Neural Networks-An Extensive arena of Deep Learning. A Comprehensive Study. Archives of Computational Methods in Engineering, 2021, 28, 4755-4780.	6.0	17
4028	Semantic Hierarchy Emerges in Deep Generative Representations for Scene Synthesis. International Journal of Computer Vision, 2021, 129, 1451-1466.	10.9	80
4029	COVID-19 diagnosis from chest X-ray images using transfer learning: Enhanced performance by debiasing dataloader. Journal of X-Ray Science and Technology, 2021, 29, 19-36.	0.7	21
4030	Machine Learning Techniques for THz Imaging and Time-Domain Spectroscopy. Sensors, 2021, 21, 1186.	2.1	48
4031	Proteomic Profiling and Artificial Intelligence for Hepatocellular Carcinoma Translational Medicine. Biomedicines, 2021, 9, 159.	1.4	20
4032	Knowledge graph embeddings for dealing with concept drift in machine learning. Web Semantics, 2021, 67, 100625.	2.2	11
4033	A survey on deep learning-based non-invasive brain signals: recent advances and new frontiers. Journal of Neural Engineering, 2021, 18, 031002.	1.8	137

#	ARTICLE	IF	CITATIONS
4034	Context-Enhanced Representation Learning for Single Image Deraining. International Journal of Computer Vision, 2021, 129, 1650-1674.	10.9	19
4035	Identification of Fruits and Vegetables using Embedded Sensor. IOP Conference Series: Materials Science and Engineering, 2021, 1084, 012095.	0.3	1
4036	Multi-U-Net: Residual Module under Multisensory Field and Attention Mechanism Based Optimized U-Net for VHR Image Semantic Segmentation. Sensors, 2021, 21, 1794.	2.1	6
4037	Development and Validation of an Unsupervised Feature Learning System for Leukocyte Characterization and Classification: A Multi-Hospital Study. International Journal of Computer Vision, 2021, 129, 1837-1856.	10.9	5
4039	Diverse Phases of Carbonaceous Materials from Stochastic Simulations. ACS Nano, 2021, 15, 6369-6385.	7.3	10
4040	A just-in-time modeling approach for multimode soft sensor based on Gaussian mixture variational autoencoder. Computers and Chemical Engineering, 2021, 146, 107230.	2.0	23
4041	Potential of Raman spectroscopy in facilitating pharmaceutical formulations development â€" An AI perspective. International Journal of Pharmaceutics, 2021, 597, 120334.	2.6	9
4042	On the Sample Complexity of HGR Maximal Correlation Functions for Large Datasets. IEEE Transactions on Information Theory, 2021, 67, 1951-1980.	1.5	0
4043	Machine Learning-Based Predictive Model for Surgical Site Infections: A Framework. , 2021, , .		4
4044	Combining K-Means Attention and Hierarchical Mimicking Strategy for 3D U-Net Based Brain Tumor Segmentation. , 2021, , .		2
4045	User Scheduling for Uplink OFDMA Systems by Deep Learning. , 2021, , .		2
4046	Nonlinear Graph Learning-Convolutional Networks for Node Classification. Neural Processing Letters, 0, , 1.	2.0	0
4047	DEP-TSPmeta: a multiple criteria Dynamic Ensemble Pruning technique ad-hoc for time series prediction. International Journal of Machine Learning and Cybernetics, 2021, 12, 2213-2236.	2.3	6
4048	A New CBAM-P-Net Model for Few-Shot Forest Species Classification Using Airborne Hyperspectral Images. Remote Sensing, 2021, 13, 1269.	1.8	21
4049	Artificial Intelligence in Process Engineering. Advanced Intelligent Systems, 2021, 3, 2000261.	3.3	24
4050	A Comparative Analysis of Active Learning for Biomedical Text Mining. Applied System Innovation, 2021, 4, 23.	2.7	34
4051	Multidimensional scaling of noisy high dimensional data. Applied and Computational Harmonic Analysis, 2021, 51, 333-373.	1.1	5
4052	An Hotspot Prediction Approach of Scientific Research Based on Autonomously Evolutionary Learner. Journal of Physics: Conference Series, 2021, 1802, 042062.	0.3	0

#	ARTICLE	IF	CITATIONS
4053	Deep Learning for Seismic Inverse Problems: Toward the Acceleration of Geophysical Analysis Workflows. IEEE Signal Processing Magazine, 2021, 38, 89-119.	4.6	65
4054	Cuffless blood pressure estimation methods: physiological model parameters versus machine-learned features. Physiological Measurement, 2021, 42, 035006.	1.2	15
4055	An Innovative Anomaly Driving Detection Strategy for Adaptive FCW of CNN Approach. , 2021, , .		1
4056	Machine Learning-Based Characterization of SNR in Digital Satellite Communication Links. , 2021, , .		0
4057	Sustainable aquaculture development: a review on the roles of cloud computing, internet of things and artificial intelligence (CIA). Reviews in Aquaculture, 2021, 13, 2076-2091.	4.6	60
4059	Semi-supervised meta-learning networks with squeeze-and-excitation attention for few-shot fault diagnosis. ISA Transactions, 2022, 120, 383-401.	3.1	92
4060	A Joint Model for Representation Learning of Tibetan Knowledge Graph Based on Encyclopedia. ACM Transactions on Asian and Low-Resource Language Information Processing, 2021, 20, 1-17.	1.3	0
4061	DLRF-Net: A Progressive Deep Latent Low-Rank Fusion Network for Hierarchical Subspace Discovery. ACM Transactions on Multimedia Computing, Communications and Applications, 2021, 17, 1-24.	3.0	2
4062	Defect Detection of Pandrol Track Fastener Based on Local Depth Feature Fusion Network. Complexity, 2021, 2021, 1-9.	0.9	4
4063	CharPlant: A De Novo Open Chromatin Region Prediction Tool for Plant Genomes. Genomics, Proteomics and Bioinformatics, 2021, 19, 860-871.	3.0	4
4064	Compressed Network in Network Models for Traffic Classification. , 2021, , .		4
4065	Knowledge-aware multi-center clinical dataset adaptation: Problem, method, and application. Journal of Biomedical Informatics, 2021, 115, 103710.	2.5	3
4066	Adaptive Spectral–Spatial Multiscale Contextual Feature Extraction for Hyperspectral Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 2461-2477.	2.7	72
4067	Deep representation learning of patient data from Electronic Health Records (EHR): A systematic review. Journal of Biomedical Informatics, 2021, 115, 103671.	2.5	86
4068	Bilateral Variational Autoencoder for Collaborative Filtering. , 2021, , .		35
4069	Network Embedding: Theories, Methods, and Applications. Synthesis Lectures on Artificial Intelligence and Machine Learning, 2021, 15, 1-242.	0.6	2
4070	Extracting Biomedical Entity Relations using Biological Interaction Knowledge. Interdisciplinary Sciences, Computational Life Sciences, 2021, 13, 312-320.	2.2	5
4071	Multimodal Time Series Data Fusion Based on SSAE and LSTM. , 2021, , .		1

#	Article	IF	Citations
4073	Deep learning-based models for temporal satellite data processing: Classification of paddy transplanted fields. Ecological Informatics, 2021, 61, 101214.	2.3	14
4074	A systematic review of computational methods for predicting long noncoding RNAs. Briefings in Functional Genomics, 2021, 20, 162-173.	1.3	13
4075	Multi-view Low-rank Preserving Embedding: A novel method for multi-view representation. Engineering Applications of Artificial Intelligence, 2021, 99, 104140.	4.3	10
4076	DeepUWF-plus: automatic fundus identification and diagnosis system based on ultrawide-field fundus imaging. Applied Intelligence, 2021, 51, 7533-7551.	3.3	5
4077	A Combination of Multilayer Perceptron, Radial Basis Function Artificial Neural Networks and Machine Learning Image Segmentation for the Dimension Reduction and the Prognosis Assessment of Diffuse Large B-Cell Lymphoma. AI, 2021, 2, 106-134.	2.1	24
4078	Ensemble Prediction Approach Based on Learning to Statistical Model for Efficient Building Energy Consumption Management. Symmetry, 2021, 13, 405.	1.1	25
4079	Knowledge Distillation: A Survey. International Journal of Computer Vision, 2021, 129, 1789-1819.	10.9	951
4080	Deep Belief Network Approach for Recognition of Cow using Cow Nose Image Pattern. Walailak Journal of Science and Technology, 2021, 18, .	0.5	5
4081	COMPARATIVE ANALYSIS OF DEEP LEARNING ARCHITECTURES FOR GRAPE CLUSTER INSTANCE SEGMENTATION. Information Technology in Industry, 2021, 9, 344-352.	0.2	2
4082	A Data-Driven Approach for Online Inter-Area Oscillatory Stability Assessment of Power Systems Based on Random Bits Forest Considering Feature Redundancy. Energies, 2021, 14, 1641.	1.6	7
4083	Discriminative Dictionary Learning-Based Sparse Classification Framework for Data-Driven Machinery Fault Diagnosis. IEEE Sensors Journal, 2021, 21, 8117-8129.	2.4	33
4084	Out-of-the-box deep learning prediction of pharmaceutical properties by broadly learned knowledge-based molecular representations. Nature Machine Intelligence, 2021, 3, 334-343.	8.3	66
4085	A Survey of Android Malware Static Detection Technology Based on Machine Learning. Mobile Information Systems, 2021, 2021, 1-18.	0.4	14
4086	Deep Residual Networks for User Authentication via Hand-Object Manipulations. Sensors, 2021, 21, 2981.	2.1	2
4087	Potential Deep Learning Solutions to Persistent and Emerging Big Data Challengesâ€"A Practitionersâ€™ Cookbook. ACM Computing Surveys, 2021, 54, 1-39.	16.1	1
4088	A hybrid deep neural network based on multi-time window convolutional bidirectional LSTM for civil aircraft APU hazard identification. Chinese Journal of Aeronautics, 2022, 35, 344-361.	2.8	20
4089	Generalized and transferable patient language representation for phenotyping with limited data. Journal of Biomedical Informatics, 2021, 116, 103726.	2.5	5
4090	Hybrid Embedding via Cross-Layer Random Walks on Multiplex Networks. IEEE Transactions on Network Science and Engineering, 2021, 8, 1815-1827.	4.1	1

#	Article	IF	Citations
4091	SeedQuant: a deep learning-based tool for assessing stimulant and inhibitor activity on root parasitic seeds. Plant Physiology, 2021, 186, 1632-1644.	2.3	21
4092	Detecting Cyberbullying across Social Media Platforms in Saudi Arabia Using Sentiment Analysis: A Case Study. Computer Journal, 2022, 65, 1787-1794.	1.5	3
4093	Intrusion detection methods based on integrated deep learning model. Computers and Security, 2021, 103, 102177.	4.0	58
4094	Spectrum of Advancements and Developments in Multidisciplinary Domains for Generative Adversarial Networks (GANs). Archives of Computational Methods in Engineering, 2021, 28, 4503-4521.	6.0	8
4095	DeepSI: Interactive Deep Learning for Semantic Interaction. , 2021, , .		6
4096	Optimizing Quality Inspection and Control in Powder Bed Metal Additive Manufacturing: Challenges and Research Directions. Proceedings of the IEEE, 2021, 109, 326-346.	16.4	18
4097	Towards link inference attack against network structure perturbation. Knowledge-Based Systems, 2021, 218, 106674.	4.0	15
4098	LBA: Online Learning-Based Assignment of Patients to Medical Professionals. Sensors, 2021, 21, 3021.	2.1	1
4099	Artificial intelligence in gastroenterology and hepatology: Status and challenges. World Journal of Gastroenterology, 2021, 27, 1664-1690.	1.4	17
4100	Deep Audio-visual Learning: A Survey. International Journal of Automation and Computing, 2021, 18, 351-376.	4.5	64
4101	Intelligent FinTech Data Mining by Advanced Deep Learning Approaches. Computational Economics, 2022, 59, 1407-1422.	1.5	11
4102	Artificial Intelligence for Real-Time Topology Identification in Power Distribution Systems. , 2021, , .		2
4103	Disentangling Rotational Dynamics and Ordering Transitions in a System of Self-Organizing Protein Nanorods <i>via</i> Rotationally Invariant Latent Representations. ACS Nano, 2021, 15, 6471-6480.	7.3	19
4104	Aluminum Casting Inspection using Deep Object Detection Methods and Simulated Ellipsoidal Defects. Machine Vision and Applications, 2021, 32, 1.	1.7	19
4105	Perspectives on Virtual (Remote) Clinical Trials as the â€œNew Normalâ€•to Accelerate Drug Development. Clinical Pharmacology and Therapeutics, 2022, 111, 373-381.	2.3	20
4106	Robust Computationally-Efficient Wireless Emitter Classification Using Autoencoders and Convolutional Neural Networks. Sensors, 2021, 21, 2414.	2.1	6
4107	Exploring the Relationship between Preprocessing and Hyperparameter Tuning for Vibration-Based Machine Fault Diagnosis Using CNNs. Vibration, 2021, 4, 284-309.	0.9	5
4108	Predictive Intelligent Decision Support Model in Forecasting of the Diabetes Pandemic Using a Reinforcement Deep Learning Approach. International Journal of Education and Management Engineering, 2021, 11, 40-48.	0.8	5

#	ARTICLE	IF	CITATIONS
4109	Resource Allocation for Delay-Sensitive Vehicle-to-Multi-Edges (V2Es) Communications in Vehicular Networks: A Multi-Agent Deep Reinforcement Learning Approach. IEEE Transactions on Network Science and Engineering, 2021, 8, 1873-1886.	4.1	24
4110	Graph Learning: A Survey. IEEE Transactions on Artificial Intelligence, 2021, 2, 109-127.	3.4	165
4111	Resurrecting $$ boverline{b}h $$ with kinematic shapes. Journal of High Energy Physics, 2021, 2021, 1.	1.6	16
4112	Controllable Gradient Item Retrieval. , 2021, , .		2
4113	A framework for breast cancer classification using Multi-DCNNs. Computers in Biology and Medicine, 2021, 131, 104245.	3.9	96
4114	A Survey on Multiview Clustering. IEEE Transactions on Artificial Intelligence, 2021, 2, 146-168.	3.4	135
4116	Helicopter Track Identification with Autoencoder. , 2021, , .		1
4117	Nowcasting Gentrification Using Airbnb Data. Proceedings of the ACM on Human-Computer Interaction, 2021, 5, 1-21.	2.5	9
4118	Deep learning approaches to pattern extraction and recognition in paintings and drawings: an overview. Neural Computing and Applications, 2021, 33, 12263-12282.	3.2	37
4119	UniNet: Scalable Network Representation Learning with Metropolis-Hastings Sampling. , 2021, , .		5
4120	Vector-Quantization-Based Topic Modeling. ACM Transactions on Intelligent Systems and Technology, 2021, 12, 1-30.	2.9	3
4121	DeepDRK: a deep learning framework for drug repurposing through kernel-based multi-omics integration. Briefings in Bioinformatics, 2021, 22, .	3.2	25
4122	Analyzing Firm Reports for Volatility Prediction: A Knowledge-Driven Text-Embedding Approach. INFORMS Journal on Computing, 2022, 34, 522-540.	1.0	6
4123	Symbolic pregression: Discovering physical laws from distorted video. Physical Review E, 2021, 103, 043307.	0.8	18
4124	Autonomous Bot Using Machine Learning and Computer Vision. SN Computer Science, 2021, 2, 1.	2.3	8
4125	Costâ€"effective Variational Active Entity Resolution. , 2021, , .		3
4126	Self-Supervised Hyperboloid Representations from Logical Queries over Knowledge Graphs. , 2021, , .		14
4127	Fuzzy deep learning-based crop yield prediction model for sustainable agronomical frameworks. Neural Computing and Applications, 2021, 33, 13205-13224.	3.2	28

#	Article	IF	Citations
4128	Super-resolution decision-making tool using deep convolution neural networks for panchromatic images. Multimedia Tools and Applications, 2021, 80, 25033.	2.6	3
4129	The Understanding of Deep Learning: A Comprehensive Review. Mathematical Problems in Engineering, 2021, 2021, 1-15.	0.6	19
4130	Transfer Learning based Approach for Mixture Gas Classification. Journal of Korean Institute of Industrial Engineers, 2021, 47, 144-159.	0.1	0
4131	Deep asset allocation for trend following investing. Journal of Experimental and Theoretical Artificial Intelligence, 0, , 1-21.	1.8	0
4132	Machine Learning Frameworks. , 2021, , 173-219.		0
4133	A deep multimodal model for bug localization. Data Mining and Knowledge Discovery, 2021, 35, 1369-1392.	2.4	10
4134	Distributed Estimation for Principal Component Analysis: An Enlarged Eigenspace Analysis. Journal of the American Statistical Association, 2022, 117, 1775-1786.	1.8	13
4135	Separation of Metabolites and Macromolecules for Short-TE ^{1}H-MRSI Using Learned Component-Specific Representations. IEEE Transactions on Medical Imaging, 2021, 40, 1157-1167.	5.4	11
4136	State predictive information bottleneck. Journal of Chemical Physics, 2021, 154, 134111.	1.2	51
4137	Identification of Tumor-Specific MRI Biomarkers Using Machine Learning (ML). Diagnostics, 2021, 11, 742.	1.3	11
4138	A deep convolutional neural network for COVID-19 detection using chest X-rays. Research on Biomedical Engineering, 2022, 38, 139-148.	1.5	73
4139	Machine learning approach to gene essentiality prediction: a review. Briefings in Bioinformatics, 2021, 22, .	3.2	47
4140	Deep Learning for Anomaly Detection. ACM Computing Surveys, 2022, 54, 1-38.	16.1	880
4141	Toward next-generation learned robot manipulation. Science Robotics, 2021, 6, .	9.9	34
4142	MichiGAN: sampling from disentangled representations of single-cell data using generative adversarial networks. Genome Biology, 2021, 22, 158.	3.8	14
4143	HoneyGen: Generating Honeywords Using Representation Learning. , 2021, , .		10
4144	Automatic Web Testing Using Curiosity-Driven Reinforcement Learning. , 2021, , .		25
4145	Deep Learning the Electromagnetic Properties of Metamaterials—A Comprehensive Review. Advanced Functional Materials, 2021, 31, 2101748.	7.8	70

#	Article	IF	Citations
4146	Improving Password Guessing via Representation Learning. , 2021, , .		23
4147	Evaluation of machine learning algorithms for health and wellness applications: A tutorial. Computers in Biology and Medicine, 2021, 132, 104324.	3.9	56
4148	Integrated Analysis of Whole Genome and Epigenome Data Using Machine Learning Technology: Toward the Establishment of Precision Oncology. Frontiers in Oncology, 2021, 11, 666937.	1.3	25
4149	Degradation stage classification via interpretable feature learning. Journal of Manufacturing Systems, 2022, 62, 972-983.	7.6	15
4150	Rapid Transformation Estimation Using Deep Learning for Defect Detection. , 2021, , .		0
4152	Artificial Intelligence Can Effectively Predict Early Hematoma Expansion of Intracerebral Hemorrhage Analyzing Noncontrast Computed Tomography Image. Frontiers in Aging Neuroscience, 2021, 13, 632138.	1.7	15
4153	Towards computational analytics of 3D neuron images using deep adversarial learning. Neurocomputing, 2021, 438, 323-333.	3.5	4
4154	Boosting Performance of Transfer Learning Model for Diagnosis of COVID-19 from Computer Tomography Scans. SDU Journal of Science, 2021, 16, 35-45.	0.1	3
4155	Deep Transfer Learning Pipelines with Apache Spark and Keras TensorFlow combined with Logistic Regression to Detect COVID-19 in Chest CT Images. Walailak Journal of Science and Technology, 2021, 18, .	0.5	5
4156	Mine Vegetation Identification via Ecological Monitoring and Deep Belief Network. Plants, 2021, 10, 1099.	1.6	3
4157	Machine learning for hydrologic sciences: An introductory overview. Wiley Interdisciplinary Reviews: Water, 2021, 8, e1533.	2.8	72
4158	Detection of Drug–Drug and Drug–Disease Interactions Inducing Acute Kidney Injury Using Deep Rule Forests. SN Computer Science, 2021, 2, 1.	2.3	2
4159	Transfer learning and SpecAugment applied to SSVEP based BCI classification. Biomedical Signal Processing and Control, 2021, 67, 102542.	3.5	20
4160	Machine learning and quantum devices. SciPost Physics Lecture Notes, 0, , .	0.0	12
4161	MIMONet: Structured-light 3D shape reconstruction by a multi-input multi-output network. Applied Optics, 2021, 60, 5134.	0.9	12
4162	A deep metric learning approach for weakly supervised loan default prediction1. Journal of Intelligent and Fuzzy Systems, 2021, , 1-13.	0.8	2
4164	Visual analysis of droplet dynamics in large-scale multiphase spray simulations. Journal of Visualization, 2021, 24, 943-961.	1.1	5
4165	Adversarial Attacks and Defenses. SIGKDD Explorations: Newsletter of the Special Interest Group (SIG) on Knowledge Discovery & Data Mining, 2021, 23, 86-99.	3.2	15

#	ARTICLE	IF	CITATIONS
4166	Fast Outage Analysis of Large-Scale Production Clouds with Service Correlation Mining. , 2021, , .		13
4167	Automated User Experience Testing through Multi-Dimensional Performance Impact Analysis. , 2021, , .		2
4168	An automatic method for removing empty camera trap images using ensemble learning. Ecology and Evolution, 2021, 11, 7591-7601.	0.8	6
4169	A Unifying Review of Deep and Shallow Anomaly Detection. Proceedings of the IEEE, 2021, 109, 756-795.	16.4	375
4170	IF2CNN: Towards non-stationary time series feature extraction by integrating iterative filtering and convolutional neural networks. Expert Systems With Applications, 2021, 170, 114527.	4.4	10
4171	SIR-GN: A Fast Structural Iterative Representation Learning Approach For Graph Nodes. ACM Transactions on Knowledge Discovery From Data, 2021, 15, 1-39.	2.5	12
4172	An entity-graph based reasoning method for fact verification. Information Processing and Management, 2021, 58, 102472.	5.4	14
4173	Forecasting KPIs of Production Systems Using LSTM Networks. , 2021, , .		0
4174	PRPI-SC: an ensemble deep learning model for predicting plant lncRNA-protein interactions. BMC Bioinformatics, 2021, 22, 415.	1.2	10
4175	Introspective analysis of convolutional neural networks for improving discrimination performance and feature visualisation. PeerJ Computer Science, 2021, 7, e497.	2.7	3
4176	Sufficient Forecasting for Sub-Gaussian Processes Using Factor Models. Fluctuation and Noise Letters, 0, , 2150053.	1.0	1
4177	Spectral Viterbi Algorithm for Contactless Wide-Range Heart Rate Estimation With Deep Clustering. IEEE Transactions on Microwave Theory and Techniques, 2021, 69, 2629-2641.	2.9	9
4178	Deep customer segmentation with applications to a Vietnamese supermarkets' data. Soft Computing, 2021, 25, 7785-7793.	2.1	8
4179	An Advanced Operation Mode with Product-Service System Using Lifecycle Big Data and Deep Learning. International Journal of Precision Engineering and Manufacturing - Green Technology, 2022, 9, 287-303.	2.7	15
4180	Implicit supervision for fault detection and segmentation of emerging fault types with Deep Variational Autoencoders. Neurocomputing, 2021, 454, 324-324.	3.5	20
4181	Evaluating the Interpretability of Generative Models by Interactive Reconstruction. , 2021, , .		18
4182	PyART: Python API Recommendation in Real-Time. , 2021, , .		0
4183	Enhancing personalized modeling via weighted and adversarial learning. International Journal of Data Science and Analytics, 2021, 12, 1-14.	2.4	0

#	Article	IF	Citations
4184	Unsupervised learning predicts human perception and misperception of gloss. Nature Human Behaviour, 2021, 5, 1402-1417.	6.2	42
4185	Promises and pitfalls of deep neural networks in neuroimaging-based psychiatric research. Experimental Neurology, 2021, 339, 113608.	2.0	20
4186	Intelligent Transaction System for Fraud Detection using Deep Learning Networks. Journal of Physics: Conference Series, 2021, 1916, 012031.	0.3	0
4187	Utilizing Gated Recurrent Units to Retain Long Term Dependencies with Recurrent Neural Network in Text Classification. Journal of Information Systems and Telecommunication, 2021, 9, 89-102.	0.2	1
4188	Machine learning algorithms for social media analysis: A survey. Computer Science Review, 2021, 40, 100395.	10.2	83
4189	A review on deep learning in machining and tool monitoring: methods, opportunities, and challenges. International Journal of Advanced Manufacturing Technology, 2021, 115, 2683-2709.	1.5	113
4190	Feature Learning for Accelerometer based Gait Recognition. , 2021, , .		1
4191	Millimeter Wave Sensing: A Review of Application Pipelines and Building Blocks. IEEE Sensors Journal, 2021, 21, 10332-10368.	2.4	26
4192	Urban function classification at road segment level using taxi trajectory data: A graph convolutional neural network approach. Computers, Environment and Urban Systems, 2021, 87, 101619.	3.3	69
4193	Fusing attributed and topological global-relations for network embedding. Information Sciences, 2021, 558, 76-90.	4.0	9
4194	Renormalized Mutual Information for Artificial Scientific Discovery. Physical Review Letters, 2021, 126, 200601.	2.9	4
4195	On Combining Convolutional Autoencoders and Support Vector Machines for Fault Detection in Industrial Textures. Sensors, 2021, 21, 3339.	2.1	9
4196	A Survey on Concept Factorization: From Shallow to Deep Representation Learning. Information Processing and Management, 2021, 58, 102534.	5.4	24
4197	Adaptive Positive Semidefinite Matrix-Based Contribution for Nonlinear Process Diagnosis. Industrial & Engineering Chemistry Research, 2021, 60, 7868-7882.	1.8	3
4198	Multi-view feature selection via sparse tensor regression. International Journal of Wavelets, Multiresolution and Information Processing, 0, , 2150020.	0.9	1
4199	Cluster-Based CAN-FD Frame Packing Framework Optimization Using Two Strategies. IEEE Transactions on Vehicular Technology, 2021, 70, 4784-4795.	3.9	0
4200	Improving air pollution detection accuracy and quality monitoring based on bidirectional RNN and the Internet of Things. Materials Today: Proceedings, 2023, 81, 791-796.	0.9	4
4201	One-dimensional convolutional neural network-based active feature extraction for fault detection and diagnosis of industrial processes and its understanding via visualization. ISA Transactions, 2022, 122, 424-443.	3.1	20

#	Article	IF	Citations
4202	Machine-learning methods for stream water temperature prediction. Hydrology and Earth System Sciences, 2021, 25, 2951-2977.	1.9	52
4203	CPIDM: A Clustering-Based Profound Iterating Deep Learning Model for HSI Segmentation. Wireless Communications and Mobile Computing, 2021, 2021, 1-12.	0.8	41
4204	A novel semi-supervised framework for UAV based crop/weed classification. PLoS ONE, 2021, 16, e0251008.	1.1	27
4205	Transfer learning for small molecule retention predictions. Journal of Chromatography A, 2021, 1644, 462119.	1.8	9
4206	Modeling Multiple Coexisting Category-Level Intentions for Next Item Recommendation. ACM Transactions on Information Systems, 2021, 39, 1-24.	3.8	8
4207	Joint Interpolation and Representation Learning for Irregularly Sampled Satellite-Derived Geophysical Fields. Frontiers in Applied Mathematics and Statistics, 2021, 7, .	0.7	11
4208	MS-TCN: A Multiscale Temporal Convolutional Network for Fault Diagnosis in Industrial Processes. , 2021, , .		4
4209	Learning adaptive representations for entity recognition in the biomedical domain. Journal of Biomedical Semantics, 2021, 12, 10.	0.9	1
4210	Disentangled Representation Learning for Astronomical Chemical Tagging. Astrophysical Journal, 2021, 913, 12.	1.6	8
4211	Improved U-Net architecture with VGG-16 for brain tumor segmentation. Physical and Engineering Sciences in Medicine, 2021, 44, 703-712.	1.3	47
4212	OctoPath: An OcTree-Based Self-Supervised Learning Approach to Local Trajectory Planning for Mobile Robots. Sensors, 2021, 21, 3606.	2.1	4
4213	A Consolidated Approach towards Application of Machine Learning Principles in Additive Manufacturing. , 2021, , .		0
4214	A review of deep learning used in the hyperspectral image analysis for agriculture. Artificial Intelligence Review, 2021, 54, 5205-5253.	9.7	108
4215	PyART: Python API Recommendation in Real-Time. , 2021, , .		16
4216	Embeddings of genomic region sets capture rich biological associations in lower dimensions. Bioinformatics, 2021, 37, 4299-4306.	1.8	9
4217	A Survey for Recent Techniques and Algorithms of Geolocation and Target Tracking in Wireless and Satellite Systems. Applied Sciences (Switzerland), 2021, 11, 6079.	1.3	10
4218	OWL2Vec*: embedding of OWL ontologies. Machine Learning, 2021, 110, 1813.	3.4	50
4219	Learned Cardinality Estimation for Similarity Queries. , 2021, , .		16

#	Article	IF	Citations
4220	An Efficient Multi-Sensor Remote Sensing Image Clustering in Urban Areas via Boosted Convolutional Autoencoder (BCAE). Remote Sensing, 2021, 13, 2501.	1.8	12
4221	AI-based improvement in lung cancer detection on chest radiographs: results of a multi-reader study in NLST dataset. European Radiology, 2021, 31, 9664-9674.	2.3	36
4222	Transfer Learning for Input Estimation of Vehicle Systems. , 2021, , .		2
4223	Sample Efficient Subspace-Based Representations for Nonlinear Meta-Learning. , 2021, , .		0
4224	Latent Space Regularization for Unsupervised Domain Adaptation in Semantic Segmentation. , 2021, , .		11
4225	Automatic chronic degenerative diseases identification using enteric nervous system images. Neural Computing and Applications, 2021, 33, 1-23.	3.2	3
4226	Representation Learning for Fine-Grained Change Detection. Sensors, 2021, 21, 4486.	2.1	4
4227	Introducing block design in graph neural networks for molecular properties prediction. Chemical Engineering Journal, 2021, 414, 128817.	6.6	17
4228	Design and Analysis of Convolutional Neural Network for RF Signal Modulation Classification for In-Orbit Deployment. , 2021, , .		0
4229	A Comprehensive Survey on Word Representation Models: From Classical to State-of-the-Art Word Representation Language Models. ACM Transactions on Asian and Low-Resource Language Information Processing, 2021, 20, 1-35.	1.3	61
4230	Cross-modality person re-identification via channel-based partition network. Applied Intelligence, 2022, 52, 2423-2435.	3.3	13
4231	Study Of Deep Learning Techniques For Differently Abled Applications And Detection Techniques. Turkish Journal of Computer and Mathematics Education, 2021, 12, 5817-5829.	0.4	0
4232	Research on rolling bearing fault diagnosis of small dataset based on a new optimal transfer learning network. Measurement: Journal of the International Measurement Confederation, 2021, 177, 109285.	2.5	33
4233	Cascaded Convolutional Neural Network Architecture for Speech Emotion Recognition in Noisy Conditions. Sensors, 2021, 21, 4399.	2.1	17
4234	From Symbols to Embeddings: A Tale of Two Representations in Computational Social Science. Journal of Social Computing, 2021, 2, 103-156.	1.5	8
4235	Applications of artificial intelligence to drug design and discovery in the big data era: a comprehensive review. Molecular Diversity, 2021, 25, 1643-1664.	2.1	16
4236	Deep neural networks for choice analysis: A statistical learning theory perspective. Transportation Research Part B: Methodological, 2021, 148, 60-81.	2.8	17
4237	Enhancing Audio Augmentation Methods with Consistency Learning. , 2021, , .		2

#	Article	IF	Citations
4238	MTL-LSTM: Multi-Task Learning-based LSTM for Urban Traffic Flow Forecasting. , 2021, , .		3
4239	Fault Diagnosis for Rolling Element Bearing in Dataset Bias Scenario. Journal of Shanghai Jiaotong University (Science), 0, , 1.	0.5	0
4240	Formalizing planning and information search in naturalistic decision-making. Nature Neuroscience, 2021, 24, 1051-1064.	7.1	40
4241	Elastography mapped by deep convolutional neural networks. Science China Technological Sciences, 2021, 64, 1567-1574.	2.0	3
4242	Comparison of an Automatic Classification of Partial Dischage Patterns for Large Hydrogenator. , 2021, , .		4
4243	Weak fault detection with a two-stage key frequency focusing model. ISA Transactions, 2022, 125, 384-399.	3.1	5
4244	Sparse Autoencoder-based Multi-head Deep Neural Networks for Machinery Fault Diagnostics with Detection of Novelties. Chinese Journal of Mechanical Engineering (English Edition), 2021, 34, .	1.9	17
4245	Towards robust and understandable fault detection and diagnosis using denoising sparse autoencoder and smooth integrated gradients. ISA Transactions, 2022, 125, 371-383.	3.1	10
4246	Video quality assessment with deep architecture. , 2021, , .		0
4247	Learning-based event locating for single-molecule force spectroscopy. Biochemical and Biophysical Research Communications, 2021, 556, 59-64.	1.0	5
4248	MetaVelvet-DL: a MetaVelvet deep learning extension for de novo metagenome assembly. BMC Bioinformatics, 2021, 22, 427.	1.2	8
4249	Counterfactual state explanations for reinforcement learning agents via generative deep learning. Artificial Intelligence, 2021, 295, 103455.	3.9	22
4250	Bayesian decomposition of the Galactic multi-frequency sky using probabilistic autoencoders. Astronomy and Astrophysics, 2021, 650, A100.	2.1	2
4251	Real-Time Synchronization in Neural Networks for Multivariate Time Series Anomaly Detection. , 2021, , .		5
4252	Autoencoder based Wear Assessment in Sheet Metal Forming. IOP Conference Series: Materials Science and Engineering, 2021, 1157, 012082.	0.3	13
4253	Emerging machine learning approaches to phenotyping cellular motility and morphodynamics. Physical Biology, 2021, 18, 041001.	0.8	11
4254	EquiTensors. , 2021, , .		12
4255	A Survey on Causal Inference. ACM Transactions on Knowledge Discovery From Data, 2021, 15, 1-46.	2.5	131

#	Article	IF	Citations
4256	An Intelligent Fault Diagnosis Method of Multi-Scale Deep Feature Fusion Based on Information Entropy. Chinese Journal of Mechanical Engineering (English Edition), 2021, 34, .	1.9	16
4257	Radar Camera Fusion via Representation Learning in Autonomous Driving. , 2021, , .		16
4258	Deep Neural Network Based Vehicle and Pedestrian Detection for Autonomous Driving: A Survey. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 3234-3246.	4.7	90
4259	Mobile App Cross-Domain Recommendation with Multi-Graph Neural Network. ACM Transactions on Knowledge Discovery From Data, 2021, 15, 1-21.	2.5	14
4260	Graph Convolutional Networks: Application to Database Completion of Wastewater Networks. Water (Switzerland), 2021, 13, 1681.	1.2	4
4261	Deep learning and Its Development. Journal of Physics: Conference Series, 2021, 1948, 012023.	0.3	2
4262	Determining neighborhood phases in hard-sphere systems using machine learning. European Physical Journal B, 2021, 94, 1.	0.6	1
4263	CDPAM: Contrastive Learning for Perceptual Audio Similarity. , 2021, , .		12
4264	An Evolving TinyML Compression Algorithm for IoT Environments Based on Data Eccentricity. Sensors, 2021, 21, 4153.	2.1	31
4265	A Synchronous Prediction Model Based on Multi-Channel CNN with Moving Window for Coal and Electricity Consumption in Cement Calcination Process. Sensors, 2021, 21, 4284.	2.1	16
4266	Dual-Embedding based Deep Latent Factor Models for Recommendation. ACM Transactions on Knowledge Discovery From Data, 2021, 15, 1-24.	2.5	7
4267	Adaptive-Weighted Multiview Deep Basis Matrix Factorization for Multimedia Data Analysis. Wireless Communications and Mobile Computing, 2021, 2021, 1-12.	0.8	2
4268	Code smell detection by deep direct-learning and transfer-learning. Journal of Systems and Software, 2021, 176, 110936.	3.3	47
4269	Policy manifold search. , 2021, , .		18
4270	A Survey of Unsupervised Generative Models for Exploratory Data Analysis and Representation Learning. ACM Computing Surveys, 2022, 54, 1-40.	16.1	26
4271	Learning Unbiased Representations via Mutual Information Backpropagation. , 2021, , .		6
4272	Exploring Uncertainty Measures for Image-caption Embedding-and-retrieval Task. ACM Transactions on Multimedia Computing, Communications and Applications, 2021, 17, 1-19.	3.0	1
4273	An Autoencoder-Based Deep Learning Approach for Load Identification in Structural Dynamics. Sensors, 2021, 21, 4207.	2.1	12

#	Article	IF	Citations
4274	Two-Stream Dense Feature Fusion Network Based on RGB-D Data for the Real-Time Prediction of Weed Aboveground Fresh Weight in a Field Environment. Remote Sensing, 2021, 13, 2288.	1.8	14
4275	Region-factorized recurrent attentional network with deep clustering for radar HRRP target recognition. Signal Processing, 2021, 183, 108010.	2.1	16
4276	Image-Based Automated Species Identification: Can Virtual Data Augmentation Overcome Problems of Insufficient Sampling?. Systematic Biology, 2022, 71, 320-333.	2.7	8
4277	An overview of deep reinforcement learning for spectrum sensing in cognitive radio networks. , 2021, 113, 103014.		22
4278	Machine-learning recognition of light orbital-angular-momentum superpositions. Physical Review A, 2021, 103, .	1.0	29
4279	A survey on deep multimodal learning for computer vision: advances, trends, applications, and datasets. Visual Computer, 2022, 38, 2939-2970.	2.5	90
4280	MEG Source Localization via Deep Learning. Sensors, 2021, 21, 4278.	2.1	16
4281	A novel recommendation system enabled by adaptive fuzzy aided sentiment classification for E-commerce sector using black hole-based grey wolf optimization. Sadhana - Academy Proceedings in Engineering Sciences, 2021, 46, 1.	0.8	11
4282	Autoencoders for unsupervised anomaly detection in high energy physics. Journal of High Energy Physics, 2021, 2021, 1.	1.6	45
4283	Sparse non-negative transition subspace learning for image classification. Signal Processing, 2021, 183, 107988.	2.1	10
4285	Large-dimensional random matrix theory and its applications in deep learning and wireless communications. Random Matrices: Theory and Application, 2021, 10, .	0.5	4
4286	QSAR modeling without descriptors using graph convolutional neural networks: the case of mutagenicity prediction. Molecular Diversity, 2021, 25, 1283-1299.	2.1	17
4287	Association Analysis of User Promiscuous Traffic Based on Convolutional Neural Network. , 2021, , .		0
4288	The Role of Task and Acoustic Similarity in Audio Transfer Learning: Insights from the Speech Emotion Recognition Case. , 2021, , .		6
4289	Factorized CRF with Batch Normalization Based on the Entire Training Data. , 2021, , .		0
4290	Exploring Multiâ€dimensional Data via Subset Embedding. Computer Graphics Forum, 2021, 40, 75-86.	1.8	5
4291	BEAN: Interpretable and Efficient Learning With Biologically-Enhanced Artificial Neuronal Assembly Regularization. Frontiers in Neurorobotics, 2021, 15, 567482.	1.6	7
4292	Hybrid MPSO-CNN: Multi-level Particle Swarm optimized hyperparameters of Convolutional Neural Network. Swarm and Evolutionary Computation, 2021, 63, 100863.	4.5	77

#	ARTICLE	IF	CITATIONS
4293	Classification of Digital Modulated COVID-19 Images in the Presence of Channel Noise Using 2D Convolutional Neural Networks. Wireless Communications and Mobile Computing, 2021, 2021, 1-15.	0.8	3
4294	Contrastive Self-Supervised Representation Learning for Sensing Signals from the Time-Frequency Perspective. , 2021, , .		12
4295	Macroeconomic Forecasting Based on LSTM-Conditioned Normalizing Flows. Studies in Computational Intelligence, 2022, , 658-669.	0.7	0
4296	Adaptive online incremental learning for evolving data streams. Applied Soft Computing Journal, 2021, 105, 107255.	4.1	15
4297	Analysis on change detection techniques for remote sensing applications: A review. Ecological Informatics, 2021, 63, 101310.	2.3	59
4298	Diagnostics and prognostics for complex systems: A review of methods and challenges. Quality and Reliability Engineering International, 2021, 37, 3746-3778.	1.4	14
4299	S-TRIGGER: Continual State Representation Learning via Self-Triggered Generative Replay. , 2021, , .		1
4300	Dynamic Narrowing of VAE Bottlenecks Using GECO and L_0 Regularization. , 2021, , .		2
4301	Retrieving Skill-Based Teams from Collaboration Networks. , 2021, , .		3
4302	Optimizing Dense Retrieval Model Training with Hard Negatives. , 2021, , .		80
4303	Deep associative learning for neural networks. Neurocomputing, 2021, 443, 222-234.	3.5	4
4304	Physical Activity Recognition Based on a Parallel Approach for an Ensemble of Machine Learning and Deep Learning Classifiers. Sensors, 2021, 21, 4713.	2.1	5
4305	Integrating Interval Type-2 Fuzzy Sets into Deep Embedding Clustering to Cope with Uncertainty. , 2021, , .		2
4306	Representation learning and predictive classification: Application with an electric arc furnace. Computers and Chemical Engineering, 2021, 150, 107304.	2.0	9
4307	Deep Program Representation Learning Analysis for Program Security. Journal of Physics: Conference Series, 2021, 1971, 012098.	0.3	0
4308	In Situ Monitoring of Optical Emission Spectra for Microscopic Pores in Metal Additive Manufacturing. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2022, 144, .	1.3	8
4309	Spatial position constraint for unsupervised learning of speech representations. PeerJ Computer Science, 2021, 7, e650.	2.7	3
4310	Path-based Deep Network for Candidate Item Matching in Recommenders. , 2021, , .		7

#	Article	IF	Citations
4311	Potential Fields Guided Deep Reinforcement Learning for Optimal Path Planning in a Warehouse. , 2021, , .		3
4312	Meta-Adversarial Training of Neural Networks for Binary Classification. , 2021, , .		0
4313	Campaign participation prediction with deep learning. Electronic Commerce Research and Applications, 2021, 48, 101058.	2.5	10
4314	Learning Numerosity Representations with Transformers: Number Generation Tasks and Out-of-Distribution Generalization. Entropy, 2021, 23, 857.	1.1	2
4315	Human Representation Learning. Annual Review of Neuroscience, 2021, 44, 253-273.	5.0	28
4316	COVID-19 Pandemic Forecasting Using CNN-LSTM: A Hybrid Approach. Journal of Control Science and Engineering, 2021, 2021, 1-23.	0.8	36
4317	Diverse data augmentation for learning image segmentation with cross-modality annotations. Medical Image Analysis, 2021, 71, 102060.	7.0	32
4318	Adversarial Adaptive Interpolation for Regularizing Representation Learning and Image Synthesis in Autoencoders. , 2021, , .		1
4319	A deep learning approach to injury forecasting in NBA basketball. Journal of Sports Analytics, 2021, 7, 277-289.	0.5	5
4320	Critical Slowing Down Near Topological Transitions in Rate-Distortion Problems. , 2021, , .		3
4321	A multimethod approach to the differentiation of enthesis bone microstructure based on soft tissue type. Journal of Morphology, 2021, 282, 1362-1373.	0.6	1
4322	Deep Learning in the Detection of Rare Fractures â€" Development of a â€œDeep Learning Convolutional Networkâ€•Model for Detecting Acetabular Fractures. Zeitschrift Fur Orthopadie Und Unfallchirurgie, 2023, 161, 42-50.	0.4	2
4323	Compression Helps Deep Learning in Image Classification. Entropy, 2021, 23, 881.	1.1	12
4325	Deep convolutional self-paced clustering. Applied Intelligence, 2022, 52, 4858-4872.	3.3	10
4326	Learning Order Parameters from Videos of Skyrmion Dynamical Phases with Neural Networks. Physical Review Applied, 2021, 16, .	1.5	5
4327	Fault diagnosis of cooling pipeline system. , 2021, , .		0
4328	Towards Robust Representations of Spatial Networks Using Graph Neural Networks. Applied Sciences (Switzerland), 2021, 11, 6918.	1.3	9
4329	Pay Attention: Improving Classification of PE Malware Using Attention Mechanisms Based on System Call Analysis. , 2021, , .		5

#	ARTICLE	IF	CITATIONS
4330	Sequential and Dynamic constraint Contrastive Learning for Reinforcement Learning. , 2021, , .		0
4331	SepPCNET: Deeping Learning on a 3D Surface Electrostatic Potential Point Cloud for Enhanced Toxicity Classification and Its Application to Suspected Environmental Estrogens. Environmental Science & Technology, 2021, 55, 9958-9967.	4.6	22
4332	Curvilinear Collaborative Metric Learning with Macro-micro Attentions. , 2021, , .		0
4333	Prior Probability Estimation in Dynamically Imbalanced Data Streams. , 2021, , .		8
4334	A Self-Weighting Module to Improve Sentiment Analysis. , 2021, , .		4
4335	A Convolution Neural Network based MRI breast mass diagnosis using Zernike moments. Materials Today: Proceedings, 2021, , .	0.9	1
4336	Artificial Intelligence in 3D Printing: A Revolution in Health Care. Lecture Notes in Bioengineering, 2022, , 57-79.	0.3	6
4337	The Potential of OMICs Technologies for the Treatment of Immune-Mediated Inflammatory Diseases. International Journal of Molecular Sciences, 2021, 22, 7506.	1.8	6
4338	SRoll3: A neural network approach to reduce large-scale systematic effects in the <i>Planck</i> High-Frequency Instrument maps. Astronomy and Astrophysics, 2021, 651, A65.	2.1	2
4339	Deep learning for visualization and novelty detection in large X-ray diffraction datasets. Npj Computational Materials, 2021, 7, .	3.5	28
4340	Information-theoretic regularization for learning global features by sequential VAE. Machine Learning, 2021, 110, 2239-2266.	3.4	1
4341	Artificial intelligence in myopia: current and future trends. Current Opinion in Ophthalmology, 2021, 32, 413-424.	1.3	15
4342	Disease Prediction on Wearables Activity Data Using Stacked Bidirectional LSTM. Lecture Notes on Data Engineering and Communications Technologies, 2022, , 1180-1188.	0.5	1
4343	An Active Learning Method Based on Variational Autoencoder and DBSCAN Clustering. Computational Intelligence and Neuroscience, 2021, 2021, 1-11.	1.1	2
4344	Facial Image Classification for Obstructive Sleep Apnea Pre-Screening. , 2021, , .		0
4345	Auto-Associative Features with Non-Iterative Learning Based Technique for Image Classification. , 2021, , .		2
4346	Review on self-supervised image recognition using deep neural networks. Knowledge-Based Systems, 2021, 224, 107090.	4.0	91
4347	Deep neural network for dynamic symbol. , 2021, , .		1

#	Article	IF	Citations
4348	Directed Evolution: Methodologies and Applications. Chemical Reviews, 2021, 121, 12384-12444.	23.0	220
4349	Applying Machine Learning for Sensor Data Analysis in Interactive Systems. ACM Computing Surveys, 2022, 54, 1-25.	16.1	17
4350	High-dimensional Multivariate Time Series Forecasting using Self-Organizing Maps and Fuzzy Time Series. , 2021, , .		0
4351	A Marr's Three‐Level Analytical Framework for Neuromorphic Electronic Systems. Advanced Intelligent Systems, 2021, 3, 2100054.	3.3	3
4352	Explicit Filterbank Learning for Neural Image Style Transfer and Image Processing. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, 43, 2373-2387.	9.7	12
4353	Multimodal Disentangled Representation for Recommendation. , 2021, , .		10
4354	Deep learning in astronomy: a tutorial perspective. European Physical Journal: Special Topics, 2021, 230, 2285-2317.	1.2	9
4355	Representation transfer learning from deep end-to-end speech recognition networks for the classification of health states from speech. Computer Speech and Language, 2021, 68, 101204.	2.9	15
4356	High precision in microRNA prediction: A novel genome-wide approach with convolutional deep residual networks. Computers in Biology and Medicine, 2021, 134, 104448.	3.9	12
4357	Pairing conceptual modeling with machine learning. Data and Knowledge Engineering, 2021, 134, 101909.	2.1	17
4358	Improving Cross-Modal Image-Text Retrieval With Teacher-Student Learning. IEEE Transactions on Circuits and Systems for Video Technology, 2021, 31, 3242-3253.	5.6	20
4359	The Role of Untangled Latent Spaces in Unsupervised Learning Applied to Condition-Based Maintenance. Applied Condition Monitoring, 2022, , 38-49.	0.4	1
4360	A Novel Approach to Pre-Impact Measurement from Impact Investing Using Random Forest and Deep Neural Networks. International Journal of Computer Applications, 2021, 183, 21-29.	0.2	0
4361	Deep-Compact-Clustering Based Anomaly Detection Applied to Electromechanical Industrial Systems. Sensors, 2021, 21, 5830.	2.1	9
4362	Skip-connected network with gram matrix for product image retrieval. Neurocomputing, 2021, 447, 307-318.	3.5	4
4363	Deep learning based network similarity for model selection. Data Science, 2021, , 1-21.	0.7	0
4364	A insider threat detection system based on user and entity behavior analysis. Journal of Physics: Conference Series, 2021, 1994, 012021.	0.3	0
4365	Performance Evaluation of Novel Convolution Neural Network Architecture for Melanoma Skin Cancer Diagnosis on Different Hardware Processing Units. Journal of Physics: Conference Series, 2021, 1950, 012039.	0.3	2

#	Article	IF	Citations
4366	Deep associative learning approach for bio-medical sentiment analysis utilizing unsupervised representation from large-scale patients' narratives. Personal and Ubiquitous Computing, 2023, 27, 2055-2069.	1.9	5
4367	Landslide Susceptibility Modeling: An Integrated Novel Method Based on Machine Learning Feature Transformation. Remote Sensing, 2021, 13, 3281.	1.8	29
4368	Deep Transfer Learning for COVID-19 Prediction: Case Study for Limited Data Problems. Current Medical Imaging, 2021, 17, 973-980.	0.4	14
4369	Feature selection using autoencoders with Bayesian methods to high-dimensional data. Journal of Intelligent and Fuzzy Systems, 2021, , 1-10.	0.8	1
4371	Learning joint latent representations based on information maximization. Information Sciences, 2021, 567, 216-236.	4.0	17
4372	AI Filter Improves Positive Predictive Value of Atrial Fibrillation Detection by an Implantable Loop Recorder. JACC: Clinical Electrophysiology, 2021, 7, 965-975.	1.3	33
4373	Imbalanced fault diagnosis of rotating machinery using autoencoder-based SuperGraph feature learning. Frontiers of Mechanical Engineering, 2021, 16, 829-839.	2.5	29
4375	An Application of Time-Frequency-Based Analysis Method for Identifying Bolt Anchorage System. Mathematical Problems in Engineering, 2021, 2021, 1-10.	0.6	0
4376	Wind turbine power output prediction using a new hybrid neuro-evolutionary method. Energy, 2021, 229, 120617.	4.5	66
4377	Deep-Learning-Based Approach to Anomaly Detection Techniques for Large Acoustic Data in Machine Operation. Sensors, 2021, 21, 5446.	2.1	6
4378	Shrinking the Upper Confidence Bound: A Dynamic Product Selection Problem for Urban Warehouses. Management Science, 2021, 67, 4756-4771.	2.4	5
4379	Multi-grained and multi-layered gradient boosting decision tree for credit scoring. Applied Intelligence, 2022, 52, 5325-5341.	3.3	15
4381	A cost-effective manufacturing process recognition approach based on deep transfer learning for CPS enabled shop-floor. Robotics and Computer-Integrated Manufacturing, 2021, 70, 102128.	6.1	18
4382	Passive sonar automated target classifier for shallow waters using end-to-end learnable deep convolutional LSTMs. Engineering Science and Technology, an International Journal, 2021, 24, 860-871.	2.0	6
4383	GPR Data Interpretation Approaches in Archaeological Prospection. Applied Sciences (Switzerland), 2021, 11, 7531.	1.3	10
4384	Classification of Urease Activity in Full-Fat Soybean Production by Extrusion Using Machine Learning Algorithms. Balkan Journal of Electrical and Computer Engineering, 2021, 9, 290-296.	0.4	1
4385	Machine Learning and Artificial Intelligence for the Prediction of Host–Pathogen Interactions: A Viral Case. Infection and Drug Resistance, 2021, Volume 14, 3319-3326.	1.1	5
4386	Classification and Visualisation of Normal and Abnormal Radiographs; A Comparison between Eleven Convolutional Neural Network Architectures. Sensors, 2021, 21, 5381.	2.1	16

#	Article	IF	Citations
4387	Performance Comparison of CNN Models Using Gradient Flow Analysis. Informatics, 2021, 8, 53.	2.4	9
4388	Classification of Obstructive Sleep Apnoea from single-lead ECG signals using convolutional neural and Long Short Term Memory networks. Biomedical Signal Processing and Control, 2021, 69, 102906.	3.5	20
4389	MuscleNET: mapping electromyography to kinematic and dynamic biomechanical variables by machine learning. Journal of Neural Engineering, 2021, 18, 0460d3.	1.8	25
4390	hNet: Single-shot 3D shape reconstruction using structured light and h-shaped global guidance network. Results in Optics, 2021, 4, 100104.	0.9	16
4391	Detection of subclinical rheumatic heart disease in children using a deep learning algorithm on digital stethoscope: a study protocol. BMJ Open, 2021, 11, e044070.	0.8	12
4393	Evaluation of the Nomological Validity of Cognitive, Emotional, and Behavioral Factors for the Measurement of Developer Experience. Applied Sciences (Switzerland), 2021, 11, 7805.	1.3	0
4395	Day-to-day dynamic origin–destination flow estimation using connected vehicle trajectories and automatic vehicle identification data. Transportation Research Part C: Emerging Technologies, 2021, 129, 103241.	3.9	23
4396	VERONICA: Visual Analytics for Identifying Feature Groups in Disease Classification. Information (Switzerland), 2021, 12, 344.	1.7	7
4397	Driving-signal aware full-body avatars. ACM Transactions on Graphics, 2021, 40, 1-17.	4.9	32
4398	Reputation Analysis Based on Weakly-Supervised Bi-LSTM-Attention Network. Lecture Notes in Networks and Systems, 2022, , 51-71.	0.5	0
4399	Capsule Network with Shortcut Routing. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2021, E104.A, 1043-1050.	0.2	3
4400	Steady-State Visual Evoked Potential Classification Using Complex Valued Convolutional Neural Networks. Sensors, 2021, 21, 5309.	2.1	5
4401	A study on generic object detection with emphasis on future research directions. Journal of King Saud University - Computer and Information Sciences, 2021, , .	2.7	4
4402	EnvelopeNet: A robust convolutional neural network with optimal kernels for intelligent fault diagnosis of rolling bearings. Measurement: Journal of the International Measurement Confederation, 2021, 180, 109563.	2.5	12
4403	Learning Task Constraints in Visual-Action Planning from Demonstrations. , 2021, , .		0
4405	DDR-ID: dual deep reconstruction networks based image decomposition for anomaly detection. Journal of Ambient Intelligence and Humanized Computing, 2023, 14, 2125-2139.	3.3	8
4406	Spiking Autoencoders With Temporal Coding. Frontiers in Neuroscience, 2021, 15, 712667.	1.4	7
4407	DeepUWF: An Automated Ultra-Wide-Field Fundus Screening System via Deep Learning. IEEE Journal of Biomedical and Health Informatics, 2021, 25, 2988-2996.	3.9	13

#	Article	IF	Citations
4408	Probabilistic feature extraction, dose statistic prediction and dose mimicking for automated radiation therapy treatment planning. Medical Physics, 2021, 48, 4730-4742.	1.6	7
4409	Feature Extraction for Image Matching in Wat Phra Chetuphon Wimonmangklararam Balcony Painting with SIFT Algorithms. , 2021, , .		1
4410	Nonlinear quality-related fault detection using combined deep variational information bottleneck and variational autoencoder. ISA Transactions, 2021, 114, 444-454.	3.1	26
4411	The AI Methods, Capabilities and Criticality Grid. KI - Kunstliche Intelligenz, 2021, 35, 425-440.	2.2	7
4412	Using Cloud-Based Array Electromagnetics on the Path to Zero Carbon Footprint during the Energy Transition. Journal of Marine Science and Engineering, 2021, 9, 906.	1.2	2
4413	Modularity and multitasking in neuro-memristive reservoir networks. Neuromorphic Computing and Engineering, 2021, 1, 014003.	2.8	23
4414	A comparative study between single and multi-frame anomaly detection and localization in recorded video streams. Journal of Visual Communication and Image Representation, 2021, 79, 103232.	1.7	4
4415	Identification of predictors and model for predicting prolonged length of stay in dengue patients. Health Care Management Science, 2021, 24, 786-798.	1.5	10
4416	Recent Challenges in Actuarial Science. Annual Review of Statistics and Its Application, 2022, 9, 119-140.	4.1	11
4417	From General Language Understanding to Noisy Text Comprehension. Applied Sciences (Switzerland), 2021, 11, 7814.	1.3	4
4418	Physics-Based Feature Makes Machine Learning Cognizing Crystal Properties Simple. Journal of Physical Chemistry Letters, 2021, 12, 8521-8527.	2.1	3
4419	A review of seismic attribute taxonomies, discussion of their historical use, and presentation of a seismic attribute communication framework using data analysis concepts. Interpretation, 2021, 9, B39-B64.	0.5	7
4420	Learning deep discriminative representations with pseudo supervision for image clustering. Information Sciences, 2021, 568, 199-215.	4.0	18
4421	Machine Learning for industrial applications: A comprehensive literature review. Expert Systems With Applications, 2021, 175, 114820.	4.4	183
4422	An integrated scheme for static voltage stability assessment based on correlation detection and random bits forest. International Journal of Electrical Power and Energy Systems, 2021, 130, 106898.	3.3	8
4423	A content-based deep intrusion detection system. International Journal of Information Security, 2022, 21, 547-562.	2.3	11
4424	A multi-perspective approach for the analysis of complex business processes behavior. Expert Systems With Applications, 2021, 177, 114934.	4.4	9
4425	Autoencoder-like semi-NMF multiple clustering. Information Sciences, 2021, 572, 331-342.	4.0	4

#	ARTICLE	IF	CITATIONS
4426	A review on deep learning in medical image analysis. International Journal of Multimedia Information Retrieval, 2022, 11, 19-38.	3.6	154
4427	Autonomous Facial Expression Detection and Human-Robot-Interaction: A Survey. Lecture Notes in Networks and Systems, 2022, , 498-522.	0.5	0
4428	One-dimensional residual convolutional auto-encoder for fault detection in complex industrial processes. International Journal of Production Research, 2022, 60, 5655-5674.	4.9	10
4429	Predicting the number of customer transactions using stacked LSTM recurrent neural networks. Social Network Analysis and Mining, 2021, 11, 1.	1.9	8
4431	The most robust representations of flow trajectories are Lagrangian coherent structures. Journal of Fluid Mechanics, 2021, 927, .	1.4	2
4432	A phase field and deep-learning based approach for accurate prediction of structural residual useful life. Computer Methods in Applied Mechanics and Engineering, 2021, 383, 113885.	3.4	19
4433	Semi-supervised learning with mixed-order graph convolutional networks. Information Sciences, 2021, 573, 171-181.	4.0	25
4434	Detection of multidamage to reinforced concrete using support vector machineâ€based clustering from digital images. Structural Control and Health Monitoring, 2021, 28, e2841.	1.9	7
4435	DensePILAE: a feature reuse pseudoinverse learning algorithm for deep stacked autoencoder. Complex & Intelligent Systems, 2022, 8, 2039-2049.	4.0	3
4436	Machine learning based liver disease diagnosis: A systematic review. Neurocomputing, 2022, 468, 492-509.	3.5	33
4437	An Empirical Study on Knowledge Aggregation in Academic Virtual Community Based on Deep Learning. Data and Information Management, 2021, 5, 372-388.	0.7	0
4438	DANA. , 2021, 5, 1-27.		14
4439	Predicting scalar coupling constants by graph angle-attention neural network. Scientific Reports, 2021, 11, 18686.	1.6	4
4440	Current Status and Opportunities in Adaptive Data Analysis for Therapeutic Cell Manufacturing. Current Opinion in Biomedical Engineering, 2021, 20, 100351.	1.8	1
4441	Efficient k-nearest neighbor search based on clustering and adaptive k values. Pattern Recognition, 2022, 122, 108356.	5.1	29
4442	An Iterative and Collaborative End-to-End Methodology Applied to Digital Mental Health. Frontiers in Psychiatry, 2021, 12, 574440.	1.3	0
4443	A Survey on Deep Learning for Data-Driven Soft Sensors. IEEE Transactions on Industrial Informatics, 2021, 17, 5853-5866.	7.2	241
4444	A fast diagonal distance metric learning approach for large-scale datasets. Information Sciences, 2021, 571, 225-245.	4.0	7

#	Article	IF	Citations
4445	Inductive Gaussian representation of user-specific information for personalized stress-level prediction. Expert Systems With Applications, 2021, 178, 114912.	4.4	5
4446	Learning audio sequence representations for acoustic event classification. Expert Systems With Applications, 2021, 178, 115007.	4.4	5
4447	A novel convolutional neural network architecture of multispectral remote sensing images for automatic material classification. Signal Processing: Image Communication, 2021, 97, 116329.	1.8	6
4448	With great power comes great responsibility: inquiry into the social roles and the power dynamics in human-AI interactions. Journal of Control and Decision, 0, , 1-8.	0.7	1
4449	Classification of Echocardiogram View using A Convolutional Neural Network. Artificial Intelligence Research, 2021, 11, 1.	0.3	1
4450	Improved Heart Disease Prediction Using Particle Swarm Optimization Based Stacked Sparse Autoencoder. Electronics (Switzerland), 2021, 10, 2347.	1.8	38
4451	Multi-scale and multi-pooling sparse filtering: A simple and effective representation learning method for intelligent fault diagnosis. Neurocomputing, 2021, 451, 138-151.	3.5	6
4453	HERMAS. , 2021, 5, 1-21.		3
4454	Online health status monitoring of high voltage insulators using deep learning model. Visual Computer, 2022, 38, 4457-4468.	2.5	6
4455	Learning emotions latent representation with CVAE for text-driven expressive audiovisual speech synthesis. Neural Networks, 2021, 141, 315-329.	3.3	5
4456	Doppler Spread Estimation Based on Machine Learning for an OFDM System. Wireless Communications and Mobile Computing, 2021, 2021, 1-15.	0.8	0
4457	Data‐Driven Inference of the Mechanics of Slip Along Glacier Beds Using Physics‐Informed Neural Networks: Case Study on Rutford Ice Stream, Antarctica. Journal of Advances in Modeling Earth Systems, 2021, 13, e2021MS002621.	1.3	13
4458	A method for finding anomalous astronomical light curves and their analogues. Monthly Notices of the Royal Astronomical Society, 2021, 508, 5734-5756.	1.6	14
4459	AFP-SRC: identification of antifreeze proteins using sparse representation classifier. Neural Computing and Applications, 2022, 34, 2275-2285.	3.2	7
4460	Detection of COVID-19 in Chest X-ray Images: A Big Data Enabled Deep Learning Approach. International Journal of Environmental Research and Public Health, 2021, 18, 10147.	1.2	36
4461	Deepred-Mt: Deep representation learning for predicting C-to-U RNA editing in plant mitochondria. Computers in Biology and Medicine, 2021, 136, 104682.	3.9	25
4462	Information Bottleneck as Optimisation Method for SSVEP-Based BCI. Frontiers in Human Neuroscience, 2021, 15, 675091.	1.0	1
4463	Deep Transfer Learning for Location-Aware Millimeter Wave Beam Selection. IEEE Communications Letters, 2021, 25, 2963-2967.	2.5	5

#	Article	IF	Citations
4464	Unsupervised feature learning-based encoder and adversarial networks. Journal of Big Data, 2021, 8, .	6.9	11
4465	Study on anatomical and functional medical image registration methods. Neurocomputing, 2021, 452, 534-548.	3.5	13
4466	A network representation learning method based on topology. Information Sciences, 2021, 571, 443-458.	4.0	4
4468	Image Enhanced Rotation Prediction for Self-Supervised Learning. , 2021, , .		4
4469	Activity Tracking Using Ear-Level Accelerometers. Frontiers in Digital Health, 2021, 3, 724714.	1.5	2
4470	A multi-pronged accurate approach to optical character recognition, using nearest neighborhood and neural-network-based principles. Sadhana - Academy Proceedings in Engineering Sciences, 2021, 46, 1.	0.8	4
4471	Deep learning-based multidimensional feature fusion for classification of ECG arrhythmia. Neural Computing and Applications, 2023, 35, 16073-16087.	3.2	17
4472	HHGN: A Hierarchical Reasoning-based Heterogeneous Graph Neural Network for fact verification. Information Processing and Management, 2021, 58, 102659.	5.4	13
4473	Two-level K-nearest neighbors approach for invasive plants detection and classification. Applied Soft Computing Journal, 2021, 108, 107523.	4.1	8
4474	Interpretable Representation Learning on Natural Image Datasets via Reconstruction in Visual-Semantic Embedding Space. , 2021, , .		0
4475	Modeling Dynamic User Interests: A Neural Matrix Factorization Approach. Marketing Science, 0, , .	2.7	5
4476	A Survey on AI-Driven Digital Twins in Industry 4.0: Smart Manufacturing and Advanced Robotics. Sensors, 2021, 21, 6340.	2.1	95
4477	Deep Reinforcement Learning with Explicit Spatio-Sequential Encoding Network for Coronary Ostia Identification in CT Images. Sensors, 2021, 21, 6187.	2.1	4
4478	Multi-Modal Pain Intensity Assessment Based on Physiological Signals: A Deep Learning Perspective. Frontiers in Physiology, 2021, 12, 720464.	1.3	16
4479	AdaptNet: Human Activity Recognition via Bilateral Domain Adaptation Using Semi-Supervised Deep Translation Networks. IEEE Sensors Journal, 2021, 21, 20398-20411.	2.4	14
4480	Machine learning on properties of multiscale multisource hydroxyapatite nanoparticles datasets with different morphologies and sizes. Npj Computational Materials, 2021, 7, .	3.5	19
4481	Diagnostic Classification of Lung Cancer Using Deep Transfer Learning Technology and Multiâ€Omics Data. Chinese Journal of Electronics, 2021, 30, 843-852.	0.7	8
4482	Review of white box methods for explanations of convolutional neural networks in image classification tasks. Journal of Electronic Imaging, 2021, 30, .	0.5	14

#	ARTICLE	IF	CITATIONS
4483	Toward Detection and Attribution of Cyber-Attacks in IoT-Enabled Cyber–Physical Systems. IEEE Internet of Things Journal, 2021, 8, 13712-13722.	5.5	55
4484	A Summary of Canonical Multivariate Permutation Entropies on Multivariate Fractional Brownian Motion. Advances in Science, Technology and Engineering Systems, 2021, 6, 107-124.	0.4	0
4485	DeepLINK: Deep learning inference using knockoffs with applications to genomics. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	8
4486	Extracting Textual Features from Video Streaming Services Publications to Predict their Popularity. , 2021, , .		0
4487	Learning word representation by jointly using neighbor and syntactic contexts. Neurocomputing, 2021, 456, 136-146.	3.5	3
4488	Error-feedback stochastic modeling strategy for time series forecasting with convolutional neural networks. Neurocomputing, 2021, 459, 234-248.	3.5	10
4489	Interpreting neural computations by examining intrinsic and embedding dimensionality of neural activity. Current Opinion in Neurobiology, 2021, 70, 113-120.	2.0	86
4490	SemML: Facilitating development of ML models for condition monitoring with semantics. Web Semantics, 2021, 71, 100664.	2.2	21
4492	A hybrid code representation learning approach for predicting method names. Journal of Systems and Software, 2021, 180, 111011.	3.3	5
4493	Learning and fusing multiple hidden substages for action quality assessment. Knowledge-Based Systems, 2021, 229, 107388.	4.0	14
4494	A comparative study of neural network methods for first break detection using seismic refraction data over a detrital iron ore deposit. Ore Geology Reviews, 2021, 137, 104201.	1.1	4
4495	Unsupervised learning of disentangled representations in deep restricted kernel machines with orthogonality constraints. Neural Networks, 2021, 142, 661-679.	3.3	6
4496	Robust semi-supervised classification based on data augmented online ELMs with deep features. Knowledge-Based Systems, 2021, 229, 107307.	4.0	10
4497	Automated detection of bioimages using novel deep feature fusion algorithm and effective high-dimensional feature selection approach. Computers in Biology and Medicine, 2021, 137, 104862.	3.9	6
4498	Deep learning and Boosted trees for injuries prediction in power infrastructure projects. Applied Soft Computing Journal, 2021, 110, 107587.	4.1	22
4499	Co-attentive representation learning for web services classification. Expert Systems With Applications, 2021, 180, 115070.	4.4	10
4500	Deep learning methods for damage detection of jacket-type offshore platforms. Chemical Engineering Research and Design, 2021, 154, 249-261.	2.7	16
4501	Automated building characterization for seismic risk assessment using street-level imagery and deep learning. ISPRS Journal of Photogrammetry and Remote Sensing, 2021, 180, 370-386.	4.9	29

#	Article	IF	Citations
4502	Multi-scale residual network model combined with Global Average Pooling for action recognition. Multimedia Tools and Applications, 2022, 81, 1375-1393.	2.6	10
4503	Automatic classification method of thyroid pathological images using multiple magnification factors. Neurocomputing, 2021, 460, 231-242.	3.5	6
4504	Replay in minds and machines. Neuroscience and Biobehavioral Reviews, 2021, 129, 367-388.	2.9	21
4505	Coupled adversarial variational autoencoder. Signal Processing: Image Communication, 2021, 98, 116396.	1.8	3
4506	Example-feature graph convolutional networks for semi-supervised classification. Neurocomputing, 2021, 461, 63-76.	3.5	10
4507	Applications of single-cell genomics and computational strategies to study common disease and population-level variation. Genome Research, 2021, 31, 1728-1741.	2.4	11
4508	Skin disease diagnosis with deep learning: A review. Neurocomputing, 2021, 464, 364-393.	3.5	54
4509	Effective multinational trade forecasting using LSTM recurrent neural network. Expert Systems With Applications, 2021, 182, 115199.	4.4	29
4510	Large-scale and Robust Code Authorship Identification with Deep Feature Learning. ACM Transactions on Privacy and Security, 2021, 24, 1-35.	2.2	3
4511	Machine learning-optimized synthesis of doped TiO2 with improved photocatalytic performance: A multi-step workflow supported by designed wet-lab experiments. Journal of Alloys and Compounds, 2021, 881, 160534.	2.8	5
4512	A survey on human-aware robot navigation. Robotics and Autonomous Systems, 2021, 145, 103837.	3.0	41
4513	Discovering income-economic segregation patterns: A residential-mobility embedding approach. Computers, Environment and Urban Systems, 2021, 90, 101709.	3.3	10
4514	Unilateral alignment transfer neural network for fault diagnosis of aircraft engine. Aerospace Science and Technology, 2021, 118, 107031.	2.5	17
4515	Deep subclass reconstruction network for fault diagnosis of rotating machinery under various operating conditions. Applied Soft Computing Journal, 2021, 112, 107755.	4.1	10
4516	Broad learning system with manifold regularized sparse features for semi-supervised classification. Neurocomputing, 2021, 463, 133-143.	3.5	11
4517	Robust multi-source co-adaptation with adaptive loss minimization. Signal Processing: Image Communication, 2021, 99, 116455.	1.8	2
4518	Learning multimodal word representation with graph convolutional networks. Information Processing and Management, 2021, 58, 102709.	5.4	7
4519	A novel feature adaptive extraction method based on deep learning for bearing fault diagnosis. Measurement: Journal of the International Measurement Confederation, 2021, 185, 110030.	2.5	41

#	ARTICLE	IF	CITATIONS
4520	Protein deep profile and model predictions for identifying the causal genes of male infertility based on deep learning. Information Fusion, 2021, 75, 70-89.	11.7	6
4521	Detecting covert communities in multi-layer networks: A network embedding approach. Future Generation Computer Systems, 2021, 124, 467-479.	4.9	5
4522	Deep learning approach for matrix completion using manifold learning. Signal Processing, 2021, 188, 108231.	2.1	4
4523	Complex probabilistic slow feature extraction with applications in process data analytics. Computers and Chemical Engineering, 2021, 154, 107456.	2.0	11
4524	Orthogonal variance decomposition based feature selection. Expert Systems With Applications, 2021, 182, 115191.	4.4	13
4525	Optimal learning with anisotropic Gaussian SVMs. Applied and Computational Harmonic Analysis, 2021, 55, 337-367.	1.1	2
4526	A review on application of soft computing techniques for the rapid visual safety evaluation and damage classification of existing buildings. Journal of Building Engineering, 2021, 43, 102536.	1.6	55
4527	FoCL: Feature-oriented continual learning for generative models. Pattern Recognition, 2021, 120, 108127.	5.1	8
4528	A low-cost and portable device for measuring spectrum of light source as a stimulus for the human's circadian system. Energy and Buildings, 2021, 252, 111386.	3.1	2
4529	Distributed associative memory network with memory refreshing loss. Neural Networks, 2021, 144, 33-48.	3.3	4
4530	Origin–Destination Matrix Estimation and Prediction from Socioeconomic Variables Using Automatic Feature Selection Procedure-Based Machine Learning Model. Journal of the Urban Planning and Development Division, ASCE, 2021, 147, 04021056.	0.8	3
4531	Analysis of unlabeled lung sound samples using semi-supervised convolutional neural networks. Applied Mathematics and Computation, 2021, 411, 126511.	1.4	1
4532	A bidirectional LSTM deep learning approach for intrusion detection. Expert Systems With Applications, 2021, 185, 115524.	4.4	130
4533	Two novelty learning models developed based on deep cascade forest to address the environmental imbalanced issues: A case study of drinking water quality prediction. Environmental Pollution, 2021, 291, 118153.	3.7	7
4534	Decomposing normal and abnormal features of medical images for content-based image retrieval of glioma imaging. Medical Image Analysis, 2021, 74, 102227.	7.0	19
4535	Estimating workability of concrete with different strength grades based on deep learning. Measurement: Journal of the International Measurement Confederation, 2021, 186, 110073.	2.5	8
4536	Hybrid machine learning for human action recognition and prediction in assembly. Robotics and Computer-Integrated Manufacturing, 2021, 72, 102184.	6.1	44
4537	Triplet loss based metric learning for closed loop detection in VSLAM system. Expert Systems With Applications, 2021, 185, 115646.	4.4	3

#	Article	IF	Citations
4538	Network representation learning systematic review: Ancestors and current development state. Machine Learning With Applications, 2021, 6, 100130.	3.0	5
4539	Adversarial text-to-image synthesis: A review. Neural Networks, 2021, 144, 187-209.	3.3	78
4540	A systematic analysis and guidelines of graph neural networks for practical applications. Expert Systems With Applications, 2021, 184, 115466.	4.4	9
4541	CycleGAN denoising of extreme low-dose cardiac CT using wavelet-assisted noise disentanglement. Medical Image Analysis, 2021, 74, 102209.	7.0	34
4542	Applications of artificial intelligence to enzyme and pathway design for metabolic engineering. Current Opinion in Biotechnology, 2022, 73, 101-107.	3.3	49
4543	Knowledge-Guided Disentangled Representation Learning for Recommender Systems. ACM Transactions on Information Systems, 2022, 40, 1-26.	3.8	14
4544	Enhancing Disability Determination Decision Process Through Natural Language Processing. , 2022, , 682-693.		0
4545	Towards a better understanding of deep convolutional neural network processes for recognizing organic chemicals of environmental concern. Journal of Hazardous Materials, 2022, 421, 126746.	6.5	1
4546	A state-of-the-art review on modeling the biochar effect: Guidelines for beginners. Science of the Total Environment, 2022, 802, 149861.	3.9	2
4548	JSPNet: Learning joint semantic & instance segmentation of point clouds via feature self-similarity and cross-task probability. Pattern Recognition, 2022, 122, 108250.	5.1	18
4549	Delving deep into spatial pooling for squeeze-and-excitation networks. Pattern Recognition, 2022, 121, 108159.	5.1	44
4550	Deep feature learning and latent space encoding for crop phenology analysis. Expert Systems With Applications, 2022, 187, 115929.	4.4	2
4551	Performance analysis of a DNN classifier for power system events using an interpretability method. International Journal of Electrical Power and Energy Systems, 2022, 136, 107594.	3.3	6
4552	Con&Net: A Cross-Network Anchor Link Discovery Method Based on Embedding Representation. ACM Transactions on Knowledge Discovery From Data, 2022, 16, 1-18.	2.5	1
4553	Hierarchical Hyperedge Embedding-Based Representation Learning for Group Recommendation. ACM Transactions on Information Systems, 2022, 40, 1-27.	3.8	38
4554	Defect Detection in Printed Circuit Boards with Pre-Trained Feature Extraction Methodology with Convolution Neural Networks. Computers, Materials and Continua, 2022, 70, 637-652.	1.5	7
4555	Recent Advances of Deep Learning in Biology. Studies in Computational Intelligence, 2021, , 709-732.	0.7	3
4557	Deep Analysis of Dementia Disorder Using Artificial Intelligence to Improve Healthcare Services. , 2021, , .		5

#	Article	IF	Citations
4558	DeepBarcoding: Deep Learning for Species Classification Using DNA Barcoding. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2022, 19, 2158-2165.	1.9	6
4559	Automatic Detection of Discrimination Actions from Social Images. Electronics (Switzerland), 2021, 10, 325.	1.8	0
4560	FA-GAN: Face Augmentation GAN for Deformation-Invariant Face Recognition. IEEE Transactions on Information Forensics and Security, 2021, 16, 2341-2355.	4.5	33
4561	Fully Contextual Network for Hyperspectral Scene Parsing. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-16.	2.7	17
4563	Machines learn to infer stellar parameters just by looking at a large number of spectra. Monthly Notices of the Royal Astronomical Society, 2021, 501, 6026-6041.	1.6	9
4565	A Succinct Analysis for Deep Learning in Deep Vision and its Applications. International Journal of Current Research and Review (discontinued), 2021, 13, 85-92.	0.1	0
4566	Detection of Invasive Ductal Carcinoma from Breast Histopathology Image Using Deep Ensemble Neural Networks. Lecture Notes on Data Engineering and Communications Technologies, 2021, , 103-114.	0.5	0
4568	Heterogeneous Information Network Embedding with Adversarial Disentangler. IEEE Transactions on Knowledge and Data Engineering, 2021, , 1-1.	4.0	11
4569	DGLFV: Deep Generalized Label Algorithm for Finger-Vein Recognition. IEEE Access, 2021, 9, 78594-78606.	2.6	11
4570	Improving BERT Model Using Contrastive Learning for Biomedical Relation Extraction. , 2021, , .		11
4571	No-Reference Screen Content Image Quality Assessment With Unsupervised Domain Adaptation. IEEE Transactions on Image Processing, 2021, 30, 5463-5476.	6.0	9
4572	A Dynamic Hyperbolic Surface Model for Responsive Data Mining. Procedia Computer Science, 2021, 185, 170-176.	1.2	1
4573	Research on image inpainting algorithm of improved total variation minimization method. Journal of Ambient Intelligence and Humanized Computing, 2023, 14, 5555-5564.	3.3	46
4574	DNA sequences performs as natural language processing by exploiting deep learning algorithm for the identification of N4-methylcytosine. Scientific Reports, 2021, 11, 212.	1.6	25
4575	Prediction of EV Charging Behavior Using Machine Learning. IEEE Access, 2021, 9, 111576-111586.	2.6	49
4576	A Survey on Multi-Agent Based Collaborative Intrusion Detection Systems. Journal of Artificial Intelligence and Soft Computing Research, 2021, 11, 111-142.	3.5	16
4577	Energy-Efficient Intelligent Routing Scheme for IoT-Enabled WSNs. IEEE Internet of Things Journal, 2021, 8, 11440-11449.	5.5	68
4578	A Cognitive Radio Spectrum Sensing Implementation Based on Deep Learning and Real Signals. Lecture Notes in Networks and Systems, 2021, , 930-941.	0.5	5

#	Article	IF	Citations
4579	Normal-Bundle Bootstrap. SIAM Journal on Mathematics of Data Science, 2021, 3, 573-592.	1.0	1
4580	Deep Learning in Biomedical Text Mining: Contributions and Challenges. Lecture Notes in Bioengineering, 2021, , 169-184.	0.3	0
4581	Depth of anesthesia prediction via EEG signals using convolutional neural network and ensemble empirical mode decomposition. Mathematical Biosciences and Engineering, 2021, 18, 5047-5068.	1.0	8
4582	A deep learning predictive classifier for autism screening and diagnosis. , 2021, , 215-236.		1
4583	Fine retinal vessel segmentation by combining Nest U-net and patch-learning. Soft Computing, 2021, 25, 5519-5532.	2.1	21
4584	CGMVAE: Coupling GMM Prior and GMM Estimator for Unsupervised Clustering and Disentanglement. IEEE Access, 2021, 9, 65140-65149.	2.6	7
4585	Genetic Programming for Manifold Learning: Preserving Local Topology. IEEE Transactions on Evolutionary Computation, 2022, 26, 661-675.	7.5	5
4586	A Deep Unsupervised Learning Approach for Airspace Complexity Evaluation. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 11739-11751.	4.7	9
4587	Survey of Deep Representation Learning for Speech Emotion Recognition. IEEE Transactions on Affective Computing, 2023, 14, 1634-1654.	5.7	26
4588	Self-guided Multi-attention Network for Periventricular Leukomalacia Recognition. Lecture Notes in Computer Science, 2021, , 128-137.	1.0	0
4589	DAE-GCN: Identifying Disease-Related Features for Disease Prediction. Lecture Notes in Computer Science, 2021, , 43-52.	1.0	2
4590	Controllable Cardiac Synthesis via Disentangled Anatomy Arithmetic. Lecture Notes in Computer Science, 2021, , 160-170.	1.0	7
4591	Exact representations of many-body interactions with restricted-Boltzmann-machine neural networks. Physical Review E, 2021, 103, 013302.	0.8	16
4592	Deep learning for pattern recognition of photovoltaic energy generation. Electricity Journal, 2021, 34, 106882.	1.3	34
4593	Attentional Local Contrast Networks for Infrared Small Target Detection. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 9813-9824.	2.7	205
4594	Leveraging Task Modularity in Reinforcement Learning for Adaptable Industry 4.0 Automation. Journal of Mechanical Design, Transactions of the ASME, 2021, 143, .	1.7	18
4595	A High-Stability Diagnosis Model Based on a Multiscale Feature Fusion Convolutional Neural Network. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-9.	2.4	12
4596	Modality Disentangled Discriminator for Text-to-Image Synthesis. IEEE Transactions on Multimedia, 2022, 24, 2112-2124.	5.2	6

#	Article	IF	Citations
4597	JMnet: Joint Metric Neural Network for Hyperspectral Unmixing. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-12.	2.7	12
4598	Effective and Efficient ROI-wise Visual Encoding Using an End-to-End CNN Regression Model and Selective Optimization. Communications in Computer and Information Science, 2021, , 72-86.	0.4	1
4599	Sample Complexity Bounds for Dictionary Learning from Vector- and Tensor-Valued Data. , 2021, , 134-162.		2
4600	Graph Embedding via Graph Summarization. IEEE Access, 2021, 9, 45163-45174.	2.6	5
4601	Deep Learning for Data Modeling of Multirate Quality Variables in Industrial Processes. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-11.	2.4	15
4602	Progressive Class-Based Expansion Learning for Image Classification. IEEE Signal Processing Letters, 2021, 28, 1430-1434.	2.1	0
4603	Study on Partial Image Detection for Drawing—Focus on Unstructured Images Included in the Main Image. Studies in Computational Intelligence, 2021, , 91-109.	0.7	0
4604	SBiNE: Signed Bipartite Network Embedding. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2021, , 479-492.	0.2	0
4605	Humans Learning from Machines: Data Science Meets Network Management. , 2021, , .		0
4606	Transfer Learning for Dynamic Feature Extraction Using Variational Bayesian Inference. IEEE Transactions on Knowledge and Data Engineering, 2022, 34, 5524-5535.	4.0	11
4607	Multiscale Convolutional Generative Adversarial Network for Anchorage Grout Defect Detection. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-10.	2.4	2
4608	Computer-Aided Detection Breast Cancer in Whole Slide Image. , 2021, , .		5
4609	Modern Tools and Techniques in Computer-Aided Drug Design. , 2021, , 1-30.		5
4610	Introduction to Computational Intelligence and Super-Resolution. , 2021, , 3-23.		3
4611	A Review of Explainable Artificial Intelligence. IFIP Advances in Information and Communication Technology, 2021, , 574-584.	0.5	1
4612	A Tour of Unsupervised Deep Learning for Medical Image Analysis. Current Medical Imaging, 2021, 17, 1059-1077.	0.4	48
4613	Disentangled and Proportional Representation Learning for Multi-view Brain Connectomes. Lecture Notes in Computer Science, 2021, 12907, 508-518.	1.0	3
4614	A Disentangled Adversarial Neural Topic Model for Separating Opinions from Plots in User Reviews. , 2021, , .		1

#	Article	IF	Citations
4615	Multi-Step Reasoning Over Unstructured Text with Beam Dense Retrieval. , 2021, , .		5
4616	Beyond Similarity: Relation-based Collaborative Filtering. IEEE Transactions on Knowledge and Data Engineering, 2021, , 1-1.	4.0	2
4617	Unsupervised Representation Disentanglement of Text: An Evaluation on Synthetic Datasets. , 2021, , .		0
4618	Deep Representation Learning for Cyber-Attack Detection in Industrial IoT. , 2021, , 139-162.		1
4619	Data Augmentation for Short-Term Time Series Prediction with Deep Learning. Lecture Notes in Networks and Systems, 2021, , 492-506.	0.5	11
4620	Robot Learning. , 2021, , 1893-1901.		0
4621	AGO-Net: Association-Guided 3D Point Cloud Object Detection Network. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, PP, 1-1.	9.7	12
4622	GAP: Quantifying the Generative Adversarial Set and Class Feature Applicability of Deep Neural Networks. , 2021, , .		1
4623	Multi-Layer Bilinear Generalized Approximate Message Passing. IEEE Transactions on Signal Processing, 2021, 69, 4529-4543.	3.2	9
4624	On the Use of Deep Reinforcement Learning for Visual Tracking: A Survey. IEEE Access, 2021, 9, 120880-120900.	2.6	4
4625	Condition-Driven Soft Transition Modeling and Monitoring Strategy for Complex Nonstationary Process. IFAC-PapersOnLine, 2021, 54, 445-450.	0.5	6
4626	Brain-Like Approaches to Unsupervised Learning of Hidden Representations - A Comparative Study. Lecture Notes in Computer Science, 2021, , 162-173.	1.0	4
4627	Material Decomposition in Spectral CT Using Deep Learning: A Sim2Real Transfer Approach. IEEE Access, 2021, 9, 25632-25647.	2.6	18
4628	Boreholes Data Analysis Architecture Based on Clustering and Prediction Models for Enhancing Underground Safety Verification. IEEE Access, 2021, 9, 78428-78451.	2.6	7
4629	VD-GAN: A Unified Framework for Joint Prototype and Representation Learning From Contaminated Single Sample per Person. IEEE Transactions on Information Forensics and Security, 2021, 16, 2246-2259.	4.5	14
4630	Intelligent system for COVID-19 prognosis: a state-of-the-art survey. Applied Intelligence, 2021, 51, 2908-2938.	3.3	83
4631	MGCAN: A Novel Method for Visual Power Monitoring Systems. IEEE Access, 2021, 9, 132233-132240.	2.6	0
4632	Bearing Fault Detection Based on Deep Neural Networks. Lecture Notes on Data Engineering and Communications Technologies, 2021, , 1242-1248.	0.5	0

#	ARTICLE	IF	CITATIONS
4633	Multilayer Perceptrons. Texts in Computer Science, 2016, , 47-92.	0.5	4
4634	Factorised Spatial Representation Learning: Application in Semi-supervised Myocardial Segmentation. Lecture Notes in Computer Science, 2018, , 490-498.	1.0	37
4635	Deep Discriminative Model for Video Classification. Lecture Notes in Computer Science, 2018, , 401-418.	1.0	3
4636	Partial Adversarial Domain Adaptation. Lecture Notes in Computer Science, 2018, , 139-155.	1.0	197
4637	Cross-Modal Hamming Hashing. Lecture Notes in Computer Science, 2018, , 207-223.	1.0	67
4638	End-to-End Incremental Learning. Lecture Notes in Computer Science, 2018, , 241-257.	1.0	423
4639	Shuffle-Then-Assemble: Learning Object-Agnostic Visual Relationship Features. Lecture Notes in Computer Science, 2018, , 38-54.	1.0	40
4640	Deep Component Analysis via Alternating Direction Neural Networks. Lecture Notes in Computer Science, 2018, , 851-867.	1.0	11
4641	Avoiding Degradation in Deep Feed-Forward Networks by Phasing Out Skip-Connections. Lecture Notes in Computer Science, 2018, , 447-456.	1.0	10
4642	Analysis of the AutoML Challenge Series 2015â€"2018. The Springer Series on Challenges in Machine Learning, 2019, , 177-219.	10.4	42
4643	EvoNRL: Evolving Network Representation Learning Based on Random Walks. Studies in Computational Intelligence, 2019, , 457-469.	0.7	4
4644	Auxiliary Guided Autoregressive Variational Autoencoders. Lecture Notes in Computer Science, 2019, , 443-458.	1.0	4
4645	Joint Autoencoders: A Flexible Meta-learning Framework. Lecture Notes in Computer Science, 2019, , 494-509.	1.0	3
4646	Data-Driven Intelligent Predictive Maintenance of Industrial Assets. Women in Engineering and Science, 2020, , 589-605.	0.2	7
4647	An Information Theoretic Approach to the Autoencoder. Proceedings of the International Neural Networks Society, 2020, , 99-108.	0.6	2
4648	Neural Network Approach for Semantic Coding of Words. Advances in Intelligent Systems and Computing, 2020, , 647-658.	0.5	1
4650	Heterogeneous Information Network Embedding with Meta-path Based Graph Attention Networks. Lecture Notes in Computer Science, 2019, , 622-634.	1.0	2
4651	Persuasive E-Health Design for Behavior Change. Studies in Neuroscience, Psychology and Behavioral Economics, 2019, , 261-276.	0.1	27

#	ARTICLE	IF	CITATIONS
4652	Deep Learning Within a Priori Temporal Feature Spaces for Large-Scale Dynamic MR Image Reconstruction: Application to 5-D Cardiac MR Multitasking. Lecture Notes in Computer Science, 2019, 11765, 495-504.	1.0	15
4653	Artificial Neural Networks in Computer-Aided Drug Design: An Overview of Recent Advances. Advances in Experimental Medicine and Biology, 2020, 1194, 115-125.	0.8	4
4654	Temporal Consistency Objectives Regularize the Learning of Disentangled Representations. Lecture Notes in Computer Science, 2019, , 11-19.	1.0	6
4655	Learning Interpretable Disentangled Representations Using Adversarial VAEs. Lecture Notes in Computer Science, 2019, , 37-44.	1.0	6
4656	Simultaneous Semantic Segmentation and Outlier Detection in Presence of Domain Shift. Lecture Notes in Computer Science, 2019, , 33-47.	1.0	33
4657	Using Deep Learning Based Natural Language Processing Techniques for Clinical Decision-Making with EHRs. Studies in Big Data, 2020, , 257-295.	0.8	8
4658	Dual Path Convolutional Neural Network for Student Performance Prediction. Lecture Notes in Computer Science, 2019, , 133-146.	1.0	10
4659	Prediction of Decline in Activities of Daily Living Through Deep Artificial Neural Networks and Domain Adaptation. Lecture Notes in Computer Science, 2019, , 376-391.	1.0	1
4660	Towards a Reconciliation Between Reasoning and Learning - A Position Paper. Lecture Notes in Computer Science, 2019, , 153-168.	1.0	3
4661	TemporalNode2vec: Temporal Node Embedding in Temporal Networks. Studies in Computational Intelligence, 2020, , 891-902.	0.7	7
4662	Siamese Network Based Feature Learning for Improved Intrusion Detection. Lecture Notes in Computer Science, 2019, , 377-389.	1.0	10
4663	Representation Learning in Graphs for Credit Card Fraud Detection. Lecture Notes in Computer Science, 2020, , 32-46.	1.0	6
4664	Predictive Models for Maintenance Optimization: An Analytical Literature Survey of Industrial Maintenance Strategies. Lecture Notes in Business Information Processing, 2020, , 135-154.	0.8	3
4665	Deep Multivariate Time Series Embedding Clustering via Attentive-Gated Autoencoder. Lecture Notes in Computer Science, 2020, , 318-329.	1.0	22
4666	An Advanced Deep Learning Model for Short-Term Forecasting U.S. Natural Gas Price and Movement. IFIP Advances in Information and Communication Technology, 2020, , 165-176.	0.5	15
4667	Interpretable Deep Neural Network to Predict Estrogen Receptor Status from Haematoxylin-Eosin Images. Lecture Notes in Computer Science, 2020, , 16-37.	1.0	5
4669	Applications in X-ray Testing. , 2021, , 375-436.		3
4670	LSTM Residual Signal for Gear Tooth Crack Diagnosis. Smart Innovation, Systems and Technologies, 2020, , 1075-1090.	0.5	5

#	Article	IF	Citations
4671	High-Fidelity Synthesis with Disentangled Representation. Lecture Notes in Computer Science, 2020, , 157-174.	1.0	29
4672	Disentangling Multiple Features in Video Sequences Using Gaussian Processes in Variational Autoencoders. Lecture Notes in Computer Science, 2020, , 102-117.	1.0	9
4673	LEED: Label-Free Expression Editing via Disentanglement. Lecture Notes in Computer Science, 2020, , 781-798.	1.0	17
4674	Contrastive Multiview Coding. Lecture Notes in Computer Science, 2020, , 776-794.	1.0	568
4675	OfGAN: Realistic Rendition of Synthetic Colonoscopy Videos. Lecture Notes in Computer Science, 2020, , 732-741.	1.0	6
4676	Ontology-Enhanced Machine Learning: A Bosch Use Case of Welding Quality Monitoring. Lecture Notes in Computer Science, 2020, , 531-550.	1.0	28
4677	Understanding Affective Content of Music Videos through Learned Representations. Lecture Notes in Computer Science, 2014, , 303-314.	1.0	47
4678	Inducing Language Networks from Continuous Space Word Representations. Studies in Computational Intelligence, 2014, , 261-273.	0.7	4
4679	Principles of Regulated Activation Networks. Lecture Notes in Computer Science, 2014, , 231-244.	1.0	4
4680	Unsupervised Learning of Sensory Primitives from Optical Flow Fields. Lecture Notes in Computer Science, 2014, , 188-197.	1.0	1
4681	Transfer Learning Using Rotated Image Data to Improve Deep Neural Network Performance. Lecture Notes in Computer Science, 2014, , 290-300.	1.0	10
4683	Pedestrian Detection with Deep Convolutional Neural Network. Lecture Notes in Computer Science, 2015, , 354-365.	1.0	16
4684	Deep Feature Selection: Theory and Application to Identify Enhancers and Promoters. Lecture Notes in Computer Science, 2015, , 205-217.	1.0	32
4685	Representation Learning with Smooth Autoencoder. Lecture Notes in Computer Science, 2015, , 72-86.	1.0	4
4686	Hand Segmentation with Structured Convolutional Learning. Lecture Notes in Computer Science, 2015, , 687-702.	1.0	15
4687	Robust Online Visual Tracking with a Single Convolutional Neural Network. Lecture Notes in Computer Science, 2015, , 194-209.	1.0	32
4688	Learning a Representative and Discriminative Part Model with Deep Convolutional Features for Scene Recognition. Lecture Notes in Computer Science, 2015, , 643-658.	1.0	8
4689	Active Learning with Clustering and Unsupervised Feature Learning. Lecture Notes in Computer Science, 2015, , 281-290.	1.0	2

#	ARTICLE	IF	CITATIONS
4691	Using Machine Learning Techniques for the Automatic Detection of Arterial Wall Layers in Carotid Ultrasounds. Advances in Intelligent Systems and Computing, 2015, , 193-201.	0.5	2
4692	Feature Learning HyperNEAT: Evolving Neural Networks to Extract Features for Classification of Maritime Satellite Imagery. Lecture Notes in Computer Science, 2015, , 208-220.	1.0	4
4693	Dyad Ranking Using A Bilinear Plackett-Luce Model. Lecture Notes in Computer Science, 2015, , 227-242.	1.0	10
4694	Predicting Unseen Labels Using Label Hierarchies in Large-Scale Multi-label Learning. Lecture Notes in Computer Science, 2015, , 102-118.	1.0	7
4695	Supervised Greedy Layer-Wise Training for Deep Convolutional Networks with Small Datasets. Lecture Notes in Computer Science, 2015, , 275-284.	1.0	12
4696	Automatic Localization and Identification of Vertebrae in Spine CT via a Joint Learning Model with Deep Neural Networks. Lecture Notes in Computer Science, 2015, , 515-522.	1.0	78
4697	Bilingual Lexicon Extraction with Forced Correlation from Comparable Corpora. Lecture Notes in Computer Science, 2015, , 528-535.	1.0	1
4698	A Holistic Classification Optimization Framework with Feature Selection, Preprocessing, Manifold Learning and Classifiers. Lecture Notes in Computer Science, 2015, , 52-68.	1.0	2
4699	Automatic Crater Detection Using Convex Grouping and Convolutional Neural Networks. Lecture Notes in Computer Science, 2015, , 213-224.	1.0	14
4700	Learning Deep Temporal Representations for fMRI Brain Decoding. Lecture Notes in Computer Science, 2015, , 25-34.	1.0	8
4701	Deep Learning to Predict Patient Future Diseases from the Electronic Health Records. Lecture Notes in Computer Science, 2016, , 768-774.	1.0	28
4702	Missing Data Estimation in High-Dimensional Datasets: A Swarm Intelligence-Deep Neural Network Approach. Lecture Notes in Computer Science, 2016, , 259-270.	1.0	19
4703	Review of Deep Learning Methods in Mammography, Cardiovascular, and Microscopy Image Analysis. Advances in Computer Vision and Pattern Recognition, 2017, , 11-32.	0.9	28
4706	Learning Parameters in Deep Belief Networks Through Firefly Algorithm. Lecture Notes in Computer Science, 2016, , 138-149.	1.0	22
4707	Multilabel Classification on Heterogeneous Graphs with Gaussian Embeddings. Lecture Notes in Computer Science, 2016, , 606-622.	1.0	19
4708	Unsupervised Learning of Visual Representations by Solving Jigsaw Puzzles. Lecture Notes in Computer Science, 2016, , 69-84.	1.0	964
4709	Inter-battery Topic Representation Learning. Lecture Notes in Computer Science, 2016, , 210-226.	1.0	1
4710	Colorful Image Colorization. Lecture Notes in Computer Science, 2016, , 649-666.	1.0	1,279

#	ARTICLE	IF	CITATIONS
4711	Transferring Neural Representations for Low-Dimensional Indexing of Maya Hieroglyphic Art. Lecture Notes in Computer Science, 2016, , 842-855.	1.0	8
4712	Formal Analysis of HTM Spatial Pooler Performance Under Predefined Operation Conditions. Lecture Notes in Computer Science, 2016, , 396-405.	1.0	8
4713	From Close to Distant and Back: How to Read with the Help of Machines. IFIP Advances in Information and Communication Technology, 2016, , 87-100.	0.5	1
4714	Outlier Detection on Mixed-Type Data: AnÂEnergy-Based Approach. Lecture Notes in Computer Science, 2016, , 111-125.	1.0	9
4715	CNN-GRNN for Image Sharpness Assessment. Lecture Notes in Computer Science, 2017, , 50-61.	1.0	8
4716	Bias Reduction in Outlier Ensembles: The Guessing Game. , 2017, , 163-186.		1
4717	Digital Me: Controlling and Making Sense of My Digital Footprint. Lecture Notes in Computer Science, 2017, , 155-167.	1.0	10
4718	ConvNet Regression for Fingerprint Orientations. Lecture Notes in Computer Science, 2017, , 325-336.	1.0	9
4719	Deep Kernelized Autoencoders. Lecture Notes in Computer Science, 2017, , 419-430.	1.0	6
4720	Towards Distributed Cognitive Expert Systems. Lecture Notes in Computer Science, 2017, , 145-159.	1.0	2
4721	Using Deep Learning for Image Similarity in Product Matching. Lecture Notes in Computer Science, 2017, , 281-290.	1.0	2
4722	Assessing Deep Learning Architectures for Visualizing Maya Hieroglyphs. Lecture Notes in Computer Science, 2017, , 137-146.	1.0	1
4723	Does the Strength of Sentiment Matter? A Regression Based Approach on Turkish Social Media. Lecture Notes in Computer Science, 2017, , 149-155.	1.0	3
4724	On the Impact of Imbalanced Data inÂConvolutional Neural Networks Performance. Lecture Notes in Computer Science, 2017, , 220-232.	1.0	17
4725	An Intelligent Systems Approach to Primary Headache Diagnosis. Lecture Notes in Computer Science, 2017, , 61-72.	1.0	12
4726	Acoustic Features for Environmental Sound Analysis. , 2018, , 71-101.		27
4727	Analog Learning Neural Circuit with Switched Capacitor and the Design of Deep Learning Model. Studies in Computational Intelligence, 2018, , 93-107.	0.7	3
4728	A Bidirectional LSTM and Conditional Random Fields Approach to Medical Named Entity Recognition. Advances in Intelligent Systems and Computing, 2018, , 355-365.	0.5	29

#	Article	IF	Citations
4729	Audio-Replay Attack Detection Countermeasures. Lecture Notes in Computer Science, 2017, , 171-181.	1.0	6
4730	Robust Variational Auto-Encoder for Radar HRRP Target Recognition. Lecture Notes in Computer Science, 2017, , 356-367.	1.0	11
4731	Recursive Extraction of Modular Structure from Layered Neural Networks Using Variational Bayes Method. Lecture Notes in Computer Science, 2017, , 207-222.	1.0	4
4732	A Deep Learning Architecture for Histology Image Classification with Curriculum Learning. Lecture Notes in Computational Vision and Biomechanics, 2018, , 1102-1111.	0.5	2
4733	PCANet for Color Image Classification in Various Color Spaces. Lecture Notes in Computer Science, 2017, , 494-505.	1.0	2
4734	Deep Face Model Compression Using Entropy-Based Filter Selection. Lecture Notes in Computer Science, 2017, , 127-136.	1.0	4
4735	Effective Policy Gradient Search forÂReinforcement Learning Through NEAT Based Feature Extraction. Lecture Notes in Computer Science, 2017, , 473-485.	1.0	2
4736	Markov Random Field Based Convolutional Neural Networks for Image Classification. Lecture Notes in Computer Science, 2017, , 387-396.	1.0	18
4737	DeepCluster: A General Clustering Framework Based on Deep Learning. Lecture Notes in Computer Science, 2017, , 809-825.	1.0	47
4738	Deep Over-sampling Framework for Classifying Imbalanced Data. Lecture Notes in Computer Science, 2017, , 770-785.	1.0	85
4739	Efficient Deep Belief Network Based Hyperspectral Image Classification. Lecture Notes in Computer Science, 2017, , 347-357.	1.0	1
4740	Mineral: Multi-modal Network Representation Learning. Lecture Notes in Computer Science, 2018, , 286-298.	1.0	2
4741	A Fast Multi-level Plagiarism Detection Method Based on Document Embedding Representation. Lecture Notes in Computer Science, 2018, , 94-108.	1.0	1
4742	Machine Learning and Big Data Processing: A Technological Perspective and Review. Advances in Intelligent Systems and Computing, 2018, , 468-478.	0.5	13
4743	Demystifying Relational Latent Representations. Lecture Notes in Computer Science, 2018, , 63-77.	1.0	2
4745	Low-Rank Graph Regularized Sparse Coding. Lecture Notes in Computer Science, 2018, , 177-190.	1.0	3
4746	Neuromorphic Photonics, Principles of. , 2018, , 1-37.		14
4747	Two-Layer Contractive Encodings with Shortcuts for Semi-supervised Learning. Lecture Notes in Computer Science, 2013, , 450-457.	1.0	2

#	Article	IF	Citations
4748	On the Equivalence between Deep NADE and Generative Stochastic Networks. Lecture Notes in Computer Science, 2014, , 322-336.	1.0	3
4749	Cross-Level: A Practical Strategy for Convolutional Neural Networks Based Image Classification. Communications in Computer and Information Science, 2015, , 398-406.	0.4	4
4750	Speech and Language in Humanoid Robots. , 2017, , 1-32.		5
4751	Occluded Pedestrian Classification Using Gradient Patch and Convolutional Neural Networks. Lecture Notes in Electrical Engineering, 2017, , 198-204.	0.3	3
4752	A Transfer Learning Approach for Correcting Instrumental Variation and Time-Varying Drift. , 2017, , 137-156.		3
4753	Impact of Deep Learning in Image Processing and Computer Vision. Lecture Notes in Electrical Engineering, 2018, , 475-485.	0.3	14
4754	Deep Learning Framework for Recognition of Cattle Using Muzzle Point Image Pattern. , 2017, , 163-195.		2
4755	Multi-label Land Cover Indices Classification of Satellite Images Using Deep Learning. Advances in Intelligent Systems and Computing, 2019, , 94-103.	0.5	5
4756	Potato Crop Disease Classification Using Convolutional Neural Network. Smart Innovation, Systems and Technologies, 2020, , 391-400.	0.5	21
4757	An Extensive Survey on Some Deep-Learning Applications. Advances in Intelligent Systems and Computing, 2020, , 511-519.	0.5	9
4759	Applying Deep Learning for Discovery and Analysis of Software Vulnerabilities: A Brief Survey. Advances in Intelligent Systems and Computing, 2020, , 649-658.	0.5	9
4760	Fog Computing: Building a Road to IoT with Fog Analytics. Studies in Big Data, 2020, , 59-78.	0.8	15
4761	Recent Advances in Deep Learning Techniques and Its Applications: An Overview. Lecture Notes in Bioengineering, 2021, , 103-122.	0.3	19
4762	Real-Time Data Augmentation Based Transfer Learning Model for Breast Cancer Diagnosis Using Histopathological Images. Lecture Notes in Bioengineering, 2021, , 473-488.	0.3	10
4763	Multi-objective genetic programming for manifold learning: balancing quality and dimensionality. Genetic Programming and Evolvable Machines, 2020, 21, 399-431.	1.5	12
4764	Deep Learning for Generic Object Detection: A Survey. , 2020, 128, 261.		1
4765	An optimal feature selection method for histopathology tissue image classification using adaptive jaya algorithm. Evolutionary Intelligence, 2021, 14, 1279-1292.	2.3	6
4766	Sentiment Analysis on a Set of Movie Reviews Using Deep Learning Techniques. , 2019, , 127-147.		16

#	Article	IF	Citations
4767	Hazard analysis: A deep learning and text mining framework for accident prevention. Advanced Engineering Informatics, 2020, 46, 101152.	4.0	74
4768	Maintenance intervention predictions using entity-embedding neural networks. Automation in Construction, 2020, 116, 103202.	4.8	22
4769	Application and theory gaps during the rise of Artificial Intelligence in Education. Computers and Education Artificial Intelligence, 2020, 1, 100002.	6.9	154
4770	Multilayer network simplification: Approaches, models and methods. Computer Science Review, 2020, 36, 100246.	10.2	36
4771	Fine-tuning Deep RL with Gradient-Free Optimization. IFAC-PapersOnLine, 2020, 53, 8049-8056.	0.5	2
4772	Deep learning for prognostics and health management: State of the art, challenges, and opportunities. Measurement: Journal of the International Measurement Confederation, 2020, 163, 107929.	2.5	145
4773	Robotic tactile perception of object properties: A review. Mechatronics, 2017, 48, 54-67.	2.0	269
4774	A comprehensive survey on support vector machine classification: Applications, challenges and trends. Neurocomputing, 2020, 408, 189-215.	3.5	795
4775	An analysis on the use of autoencoders for representation learning: Fundamentals, learning task case studies, explainability and challenges. Neurocomputing, 2020, 404, 93-107.	3.5	38
4776	Nonredundant sparse feature extraction using autoencoders with receptive fields clustering. Neural Networks, 2017, 93, 99-109.	3.3	23
4777	Real time human action recognition using triggered frame extraction and a typical CNN heuristic. Pattern Recognition Letters, 2020, 135, 329-336.	2.6	28
4778	Appearance-invariant place recognition by adversarially learning disentangled representation. Robotics and Autonomous Systems, 2020, 131, 103561.	3.0	8
4780	Advanced State Space Methods for Neural and Clinical Data. , 2015, , .		28
4781	Chapter 15. Representation Learning in Chemistry. RSC Theoretical and Computational Chemistry Series, 2020, , 372-397.	0.7	3
4782	Deep learning and generative methods in cheminformatics and chemical biology: navigating small molecule space intelligently. Biochemical Journal, 2020, 477, 4559-4580.	1.7	29
4783	â€˜Whenâ€™ and â€˜whatâ€™ did you see? A novel fMRI-based visual decoding framework. Journal of Neural Engineering, 2020, 17, 056013.	1.8	7
4784	Covariance and correlation measures on a graph in a generalized bag-of-paths formalism. Journal of Complex Networks, 2021, 8, .	1.1	5
4817	Multiple Features With Extreme Learning Machines For Clothing Image Recognition. IEEE Access, 2018, 6, 36283-36294.	2.6	16

#	Article	IF	Citations
4818	Convolutional Neural Network-Based Radar Jamming Signal Classification With Sufficient and Limited Samples. IEEE Access, 2020, 8, 80588-80598.	2.6	73
4819	Exploring Knowledge Domain Bias on a Prediction Task for Food and Nutrition Data. , 2020, , .		2
4820	AdvPL: Adversarial Personalized Learning. , 2020, , .		1
4821	Addressing Imbalance in Multi-Label Classification Using Weighted Cross Entropy Loss Function. , 2020, , .		19
4822	Co-Embedding Network Nodes and Hierarchical Labels with Taxonomy Based Generative Adversarial Networks. , 2020, , .		13
4823	Handwritten Character Recognition of MODI Script using Convolutional Neural Network Based Feature Extraction Method and Support Vector Machine Classifier. , 2020, , .		14
4824	Graph Attention Auto-Encoders. , 2020, , .		41
4825	ServeNet: A Deep Neural Network for Web Services Classification. , 2020, , .		29
4826	Fingerprint Presentation Attack Detection: A Sensor and Material Agnostic Approach. , 2020, , .		18
4827	Multimodal Intelligence: Representation Learning, Information Fusion, and Applications. IEEE Journal on Selected Topics in Signal Processing, 2020, 14, 478-493.	7.3	182
4828	Effectively Determine Confidence Intervals of Bus Voltages Served for Setting Overcurrent Relays in Distribution Networks. , 2020, , .		1
4829	Linear Matrix Factorization Embeddings for Single-objective Optimization Landscapes. , 2020, , .		8
4830	Deep Visual Domain Adaptation. , 2020, , .		4
4831	Intelligent Bearing Fault Diagnosis Method Combining Compressed Data Acquisition and Deep Learning. IEEE Transactions on Instrumentation and Measurement, 2018, 67, 185-195.	2.4	300
4832	A Novel Deep Convolutional Neural Network Model for COVID-19 Disease Detection. , 2020, , .		32
4833	Unsupervised Cross-Domain Fault Diagnosis Using Feature Representation Alignment Networks for Rotating Machinery. IEEE/ASME Transactions on Mechatronics, 2021, 26, 2770-2781.	3.7	35
4834	A Scalable Algorithm for Identifying Multiple-Sensor Faults Using Disentangled RNNs. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 1093-1106.	7.2	5
4835	Optimizing Latent Distributions for Non-Adversarial Generative Networks. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2020, PP, 1-1.	9.7	32

#	Article	IF	Citations
4836	A Review on Deep Learning Techniques for Video Prediction. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, 44, 2806-2826.	9.7	88
4837	Learning to Design From Humans: Imitating Human Designers Through Deep Learning. Journal of Mechanical Design, Transactions of the ASME, 2019, 141, .	1.7	52
4838	An Artificial Neural Network Approach for Generating High-Resolution Designs From Low-Resolution Input in Topology Optimization. Journal of Mechanical Design, Transactions of the ASME, 2020, 142, .	1.7	13
4839	Learning to Design From Humans: Imitating Human Designers Through Deep Learning. , 2019, , .		4
4840	Automatic classification of retinal three-dimensional optical coherence tomography images using principal component analysis network with composite kernels. Journal of Biomedical Optics, 2017, 22, 1.	1.4	19
4841	Automatic diagnosis of abnormal macula in retinal optical coherence tomography images using wavelet-based convolutional neural network features and random forests classifier. Journal of Biomedical Optics, 2018, 23, 1.	1.4	28
4842	Rise of Raman spectroscopy in neurosurgery: a review. Journal of Biomedical Optics, 2020, 25, 1.	1.4	39
4843	Deep transfer across domains for face antispoofing. Journal of Electronic Imaging, 2019, 28, 1.	0.5	19
4844	Generative approach to unsupervised deep local learning. Journal of Electronic Imaging, 2019, 28, 1.	0.5	1
4845	Classifying symmetrical differences and temporal change for the detection of malignant masses in mammography using deep neural networks. Journal of Medical Imaging, 2017, 4, 1.	0.8	38
4846	Spectralâ€"spatial feature learning for hyperspectral imagery classification using deep stacked sparse autoencoder. Journal of Applied Remote Sensing, 2017, 11, 1.	0.6	10
4847	Deep learning decision fusion for the classification of urban remote sensing data. Journal of Applied Remote Sensing, 2018, 12, 1.	0.6	22
4848	Fuzzy autoencoder for multiple change detection in remote sensing images. Journal of Applied Remote Sensing, 2018, 12, 1.	0.6	10
4849	Deep neural network-based soft-failure detection and failure aware routing and spectrum allocation for elastic optic networks. Optical Engineering, 2019, 58, 1.	0.5	2
4850	Deep learning based beat event detection in action movie franchises. , 2018, , .		2
4851	Systematic evaluation of CNN on land cover classification from remotely sensed images. , 2018, , .		2
4852	Study on discrimination of Alzheimerâ€™s disease states using an ensemble neural networkâ€™s model. , 2019, , .		1
4853	Inductive programming meets the real world. Communications of the ACM, 2015, 58, 90-99.	3.3	78

#	Article	IF	Citations
4854	Collaborative Prediction for Multi-entity Interaction With Hierarchical Representation. , 2015, , .		7
4855	Multi-view Clustering via Structured Low-rank Representation. , 2015, , .		5
4856	A replication study. , 2018, , .		11
4857	Geometry of Deep Generative Models for Disentangled Representations. , 2018, , .		5
4858	Data Lifecycle Challenges in Production Machine Learning. SIGMOD Record, 2018, 47, 17-28.	0.7	110
4859	Monotonic Cardinality Estimation of Similarity Selection: A Deep Learning Approach. , 2020, , .		12
4860	How incidental are the incidents?. , 2020, , .		14
4861	JNET: Learning User Representations via Joint Network Embedding and Topic Embedding. , 2020, , .		9
4862	AutoInt. , 2019, , .		355
4863	Transfer Learning with Dynamic Distribution Adaptation. ACM Transactions on Intelligent Systems and Technology, 2020, 11, 1-25.	2.9	101
4864	A Multi-Label Classification Method Using a Hierarchical and Transparent Representation for Paper-Reviewer Recommendation. ACM Transactions on Information Systems, 2020, 38, 1-20.	3.8	16
4865	Trembr. ACM Transactions on Intelligent Systems and Technology, 2020, 11, 1-25.	2.9	31
4866	Dolphin: A Spoken Language Proficiency Assessment System for Elementary Education. , 2020, , .		9
4867	Toward Assessing and Recommending Combinations of Behaviors for Improving Health and Well-Being. ACM Transactions on Computing for Healthcare, 2020, 1, 1-29.	3.3	37
4868	The identification of Impervious Area from Sentinel-2 Imagery Using A Novel Spectral Spatial Residual Convolution Neural Network. , 2019, , .		1
4869	Importance-driven deep learning system testing. , 2020, , .		27
4870	Testing DNN image classifiers for confusion & bias errors. , 2020, , .		21
4871	Manifold for machine learning assurance. , 2020, , .		14

#	Article	IF	Citations
4872	Lateralized learning for robustness against adversarial attacks in a visual classification system. , 2020, , .		8
4873	Towards federated unsupervised representation learning. , 2020, , .		33
4874	Knowledge Transfer in Vision Recognition. ACM Computing Surveys, 2021, 53, 1-35.	16.1	10
4875	A Neural Architecture for Detecting User Confusion in Eye-tracking Data. , 2020, , .		15
4876	Human-in-the-loop differential subspace search in high-dimensional latent space. ACM Transactions on Graphics, 2020, 39, .	4.9	18
4877	Condition Monitoring for Confined Industrial Process Based on Infrared Images by Using Deep Neural Network and Variants. , 2020, , .		7
4878	Towards cognitive fatigue detection from functional magnetic resonance imaging data. , 2020, , .		5
4879	Personalized Query Auto-Completion for Large-Scale POI Search at Baidu Maps. ACM Transactions on Asian and Low-Resource Language Information Processing, 2020, 19, 1-16.	1.3	6
4880	Disentangled Self-Supervision in Sequential Recommenders. , 2020, , .		91
4881	Interpretable Deep Graph Generation with Node-edge Co-disentanglement. , 2020, , .		11
4882	Embedding-based Retrieval in Facebook Search. , 2020, , .		134
4883	General-Purpose User Embeddings based on Mobile App Usage. , 2020, , .		16
4884	A Review of Text Classification Based on Deep Learning. , 2020, , .		13
4885	Vehicle Trajectory Similarity. ACM Computing Surveys, 2021, 53, 1-32.	16.1	39
4886	SUME. , 2020, 4, 1-25.		10
4887	Zygarde. , 2020, 4, 1-29.		28
4888	Face identity disentanglement via latent space mapping. ACM Transactions on Graphics, 2020, 39, 1-14.	4.9	68
4889	DeepFCA. , 2020, , .		4

#	ARTICLE	IF	CITATIONS
4890	From Place2Vec to Multi-Scale Built-Environment Representation. , 2020, , .		1
4892	A new deep sparse autoencoder for community detection in complex networks. Eurasip Journal on Wireless Communications and Networking, 2020, 2020, .	1.5	14
4893	Seismic estimation of reservoir properties with Bayesian evidential analysis. , 2018, , .		8
4894	Object Detection with Convolutional Neural Networks. , 2020, , 41-62.		14
4895	3D Convolutional Neural Network for Regional Precipitation Nowcasting. Journal of Image and Signal Processing, 2018, 07, 200-212.	0.1	21
4896	Lightweight Convolutional Neural Network Based Intrusion Detection System. Journal of Communications, 2020, , 808-817.	1.3	13
4897	Feature Fusion Based Image Retrieval Using Deep Learning. Journal of Information and Computational Science, 2015, 12, 2361-2373.	0.1	5
4898	Research Trends Analysis of Window Ventilation System Based on Artificial Intelligence. KIEAE Journal, 2017, 17, 159-164.	0.1	1
4899	Deep Learning for Distribution Channels' Management. InformaticÄƒ EconomicÄƒ, 2017, 21, 73-84.	0.2	7
4901	Multi-focus image fusion method using energy of Laplacian and a deep neural network. Applied Optics, 2020, 59, 1684.	0.9	11
4902	Exo-atmospheric infrared objects classification using recurrence-plots-based convolutional neural networks. Applied Optics, 2019, 58, 164.	0.9	9
4903	Joint OSNR, Skew, ROF Monitoring of Coherent Channel using Eye Diagram Measurement and Deep Learning. , 2019, , .		3
4904	Deep learning approach for Fourier ptychography microscopy. Optics Express, 2018, 26, 26470.	1.7	188
4905	Optical performance monitoring using digital coherent receivers and convolutional neural networks. Optics Express, 2020, 28, 32087.	1.7	18
4906	Metabolic pathway inference using multi-label classification with rich pathway features. PLoS Computational Biology, 2020, 16, e1008174.	1.5	10
4907	Finding, visualizing, and quantifying latent structure across diverse animal vocal repertoires. PLoS Computational Biology, 2020, 16, e1008228.	1.5	136
4908	Robust Real-Time Music Transcription with a Compositional Hierarchical Model. PLoS ONE, 2017, 12, e0169411.	1.1	9
4909	Prediction of crime occurrence from multi-modal data using deep learning. PLoS ONE, 2017, 12, e0176244.	1.1	137

#	Article	IF	Citations
4910	A shallow convolutional neural network for blind image sharpness assessment. PLoS ONE, 2017, 12, e0176632.	1.1	39
4911	Shared acoustic codes underlie emotional communication in music and speechâ€"Evidence from deep transfer learning. PLoS ONE, 2017, 12, e0179289.	1.1	17
4912	Deep CNNBased Detection for Tea Clone Identification. Jurnal Elektronika Dan Telekomunikasi, 2019, 19, 45.	0.6	4
4913	Construction and reduction methods of vulnerability index system In power SCADA. International Journal of Security and Its Applications, 2014, 8, 335-352.	0.5	4
4915	Automated Segmentation of Whole Cardiac CT Images based on Deep Learning. International Journal of Advanced Computer Science and Applications, 2018, 9, .	0.5	5
4916	A Deep Learning Approach for Breast Cancer Mass Detection. International Journal of Advanced Computer Science and Applications, 2019, 10, .	0.5	16
4917	Distributed representations of tuples for entity resolution. Proceedings of the VLDB Endowment, 2018, 11, 1454-1467.	2.1	129
4918	Machine Learning: The New 'Big Thing' for Competitive Advantage. International Journal of Knowledge Engineering and Data Mining, 2018, 5, 1.	0.0	8
4919	Parallelization of Neural Network Training for NLP with Hogwild!. Prague Bulletin of Mathematical Linguistics, 2017, 109, 29-38.	0.7	2
4920	Using Spatial Pooler of Hierarchical Temporal Memory for object classification in noisy video streams. , 0, , .		2
4921	State Representation Learning in Robotics: Using Prior Knowledge about Physical Interaction. , 0, , .		21
4923	Modeling Short-Term and Long-Term Dependencies of the Speech Signal for Paralinguistic Emotion Classification. SPIIRAS Proceedings, 2019, 18, 30-56.	0.8	17
4924	Bearing Fault Diagnosis Method Based on EEMD and LSTM. International Journal of Computers, Communications and Control, 2020, 15, .	1.2	37
4926	Weakly Supervised Disentanglement by Pairwise Similarities. Proceedings of the AAAI Conference on Artificial Intelligence, 2020, 34, 3495-3502.	3.6	12
4927	Learning Neural Audio Embeddings for Grounding Semantics in Auditory Perception. Journal of Artificial Intelligence Research, 0, 60, 1003-1030.	7.0	13
4928	Stacked Autoencoder Method for Fabric Defect Detection. Cumhuriyet Ãœniversitesi Fen FakÃ¼ltesi Fen Bilimleri Dergisi, 2017, 38, 342-342.	0.1	10
4929	Alzheimer's Disease Detection Using Sparse Autoencoder, Scale Conjugate Gradient and Softmax Output Layer with Fine Tuning. International Journal of Machine Learning and Computing, 2017, 7, 13-17.	0.8	22
4930	Analysis of Student Behaviour in Habitable Worlds Using Continuous Representation Visualization. Journal of Learning Analytics, 2019, 6, .	1.8	5

#	Article	IF	Citations
4931	Tumor gene expression data classification via sample expansion-based deep learning. Oncotarget, 2017, 8, 109646-109660.	0.8	57
4932	Graph Neural News Recommendation with Unsupervised Preference Disentanglement. , 2020, , .		76
4933	Compositionality and Generalization In Emergent Languages. , 2020, , .		18
4934	Representation Learning for Information Extraction from Form-like Documents. , 2020, , .		58
4935	Learning Efficient Task-Specific Meta-Embeddings with Word Prisms. , 2020, , .		1
4936	Imagining Grounded Conceptual Representations from Perceptual Information in Situated Guessing Games. , 2020, , .		4
4937	Classifying Relations via Long Short Term Memory Networks along Shortest Dependency Paths. , 2015, , .		405
4938	Efficient Hyper-parameter Optimization for NLP Applications. , 2015, , .		16
4939	Discriminative Neural Sentence Modeling by Tree-Based Convolution. , 2015, , .		58
4940	Morphological Priors for Probabilistic Neural Word Embeddings. , 2016, , .		24
4941	Multi-Task Label Embedding for Text Classification. , 2018, , .		48
4942	Do We Really Need All Those Rich Linguistic Features? A Neural Network-Based Approach to Implicit Sense Labeling. , 2016, , .		14
4943	Bilingual Learning of Multi-sense Embeddings with Discrete Autoencoders. , 2016, , .		18
4944	Learning to Disentangle Interleaved Conversational Threads with a Siamese Hierarchical Network and Similarity Ranking. , 2018, , .		29
4945	Learning Text Pair Similarity with Context-sensitive Autoencoders. , 2016, , .		29
4946	Bridge Text and Knowledge by Learning Multi-Prototype Entity Mention Embedding. , 2017, , .		63
4947	Transformation Networks for Target-Oriented Sentiment Classification. , 2018, , .		300
4948	LSTMEmbed: Learning Word and Sense Representations from a Large Semantically Annotated Corpus with Long Short-Term Memories. , 2019, , .		7

#	Article	IF	Citations
4949	Incorporating Syntactic and Semantic Information in Word Embeddings using Graph Convolutional Networks. , 2019, , .		41
4950	Villani at SemEval-2018 Task 8: Semantic Extraction from Cybersecurity Reports using Representation Learning. , 2018, , .		6
4951	Resolving Event Coreference with Supervised Representation Learning and Clustering-Oriented Regularization. , 2018, , .		12
4952	The Ubuntu Dialogue Corpus: A Large Dataset for Research in Unstructured Multi-Turn Dialogue Systems. , 2015, , .		422
4953	Centroid-based Text Summarization through Compositionality of Word Embeddings. , 2017, , .		67
4954	ROSE: A Deep Learning Based Framework for Predicting Ribosome Stalling. SSRN Electronic Journal, 0, , .	0.4	2
4955	Focused Concept Miner (FCM): Interpretable Deep Learning for Text Exploration. SSRN Electronic Journal, 0, , .	0.4	4
4956	Ensemble deep learning for speech recognition. , 0, , .		101
4957	Speech emotion recognition using deep neural network and extreme learning machine. , 0, , .		369
4958	Noise and Metadata Sensitive Bottleneck Features for Improving Speaker Recognition with Non-Native Speech Input. , 0, , .		5
4959	Locally Linear Embedding for Exemplar-Based Spectral Conversion. , 0, , .		20
4960	Representation Learning for Speech Emotion Recognition. , 0, , .		72
4961	Unsupervised Representation Learning Using Convolutional Restricted Boltzmann Machine for Spoof Speech Detection. , 0, , .		5
4962	Application of Machine Learning Approaches for the Design and Study of Anticancer Drugs. Current Drug Targets, 2019, 20, 488-500.	1.0	23
4963	Virtual Screening Meets Deep Learning. Current Computer-Aided Drug Design, 2018, 15, 6-28.	0.8	28
4964	Machine Learning Based Support System for Students to Select Stream (Subject). Recent Advances in Computer Science and Communications, 2020, 13, 336-344.	0.5	28
4965	Feature Selection for Histopathological Image Classification using levy Flight Salp Swarm Optimizer. Recent Patents on Computer Science, 2019, 12, 329-337.	0.5	7
4966	The Deep Learning–Based Recommender System "Pubmender" for Choosing a Biomedical Publication Venue: Development and Validation Study. Journal of Medical Internet Research, 2019, 21, e12957.	2.1	47

#	Article	IF	Citations
4967	Identification of Patients in Need of Advanced Care for Depression Using Data Extracted From a Statewide Health Information Exchange: A Machine Learning Approach. Journal of Medical Internet Research, 2019, 21, e13809.	2.1	23
4968	Predicting the Reasons of Customer Complaints: A First Step Toward Anticipating Quality Issues of In Vitro Diagnostics Assays with Machine Learning. JMIR Medical Informatics, 2018, 6, e34.	1.3	5
4969	Detecting Diabetic Retinopathy from Retinal Images Using CUDA Deep Neural Network. International Journal of Intelligent Engineering and Systems, 2017, 10, 284-292.	0.8	2
4970	Transfer learning in hybrid classical-quantum neural networks. Quantum - the Open Journal for Quantum Science, 0, 4, 340.	0.0	137
4971	Automatic Segmentation of Left Ventricular Myocardium by Deep Convolutional and De:convolutional Neural Networks. , 0, , .		5
4972	Prospects of deep learning for medical imaging. Precision and Future Medicine, 2018, 2, 37-52.	0.5	49
4973	Artificial intelligence used in genome analysis studies. The EuroBiotech Journal, 2018, 2, 78-88.	0.5	17
4974	Embedding-based Representation of Categorical Data by Hierarchical Value Coupling Learning. , 2017, , .		16
4975	Large-scale Subspace Clustering by Fast Regression Coding. , 2017, , .		9
4976	Projective Low-rank Subspace Clustering via Learning Deep Encoder. , 2017, , .		22
4977	Learning Feature Engineering for Classification. , 2017, , .		120
4978	Tag Disentangled Generative Adversarial Network for Object Image Re-rendering. , 2017, , .		34
4979	Fast Network Embedding Enhancement via High Order Proximity Approximation. , 2017, , .		98
4980	Unsupervised Learning via Total Correlation Explanation. , 2017, , .		5
4981	Self-Supervised Deep Low-Rank Assignment Model for Prototype Selection. , 2018, , .		7
4982	A Wearable Device for Online and Long-Term ECG Monitoring. , 2018, , .		2
4983	Learning Disentangled Semantic Representation for Domain Adaptation. , 2019, , .		40
4984	CounterFactual Regression with Importance Sampling Weights. , 2019, , .		27

#	ARTICLE	IF	CITATIONS
4985	Auto-Encoder based Deep Learning for Surface Electromyography Signal Processing. Advances in Science, Technology and Engineering Systems, 2018, 3, 94-102.	0.4	7
4986	Self-Knowledge Distillation in Natural Language Processing. , 2019, , .		33
4987	Sentiment and Emotion Based Text Representation for Fake Reviews Detection. , 2019, , .		14
4988	Deep Learning Research: Scientometric Assessment of Global Publications Output during 2004 -17. Emerging Science Journal, 2019, 3, 23.	1.4	10
4989	Time Series Classification with Linguistic Summaries. , 0, , .		3
4990	Revisiting Embedding Features for Simple Semi-supervised Learning. , 2014, , .		70
4991	A Joint Segmentation and Classification Framework for Sentiment Analysis. , 2014, , .		12
4992	Unsupervised Multi-Domain Adaptation with Feature Embeddings. , 2015, , .		37
4993	Representation Learning for Text-level Discourse Parsing. , 2014, , .		141
4994	Learning Sentiment-Specific Word Embedding for Twitter Sentiment Classification. , 2014, , .		701
4995	Learning Bilingual Sentiment Word Embeddings for Cross-language Sentiment Classification. , 2015, , .		78
4996	Sparse Overcomplete Word Vector Representations. , 2015, , .		86
4997	Deep Unordered Composition Rivals Syntactic Methods for Text Classification. , 2015, , .		439
4998	Combining Distributed Vector Representations for Words. , 2015, , .		19
4999	Estimating User Location in Social Media with Stacked Denoising Auto-encoders. , 2015, , .		16
5000	A Deep Learning and Knowledge Transfer Based Architecture for Social Media User Characteristic Determination. , 2015, , .		2
5001	Evaluating the Impact of Data Representation on EHR-Based Analytic Tasks. Studies in Health Technology and Informatics, 2019, 264, 288-292.	0.2	3
5002	A Mobile Cloud-based eHealth Scheme. Computers, Materials and Continua, 2020, 62, 31-39.	1.5	5

#	ARTICLE	IF	CITATIONS
5004	On the Information Bottleneck Problems: Models, Connections, Applications and Information Theoretic Views. Entropy, 2020, 22, 151.	1.1	55
5005	Object Detection and Image Segmentation with Deep Learning on Earth Observation Data: A Review-Part I: Evolution and Recent Trends. Remote Sensing, 2020, 12, 1667.	1.8	210
5006	The Applicability of LSTM-KNN Model for Real-Time Flood Forecasting in Different Climate Zones in China. Water (Switzerland), 2020, 12, 440.	1.2	54
5007	Deep Learning-Based Architectures for Recognition of Cow Using Cow Nose Image Pattern. Gazi University Journal of Science, 2020, 33, 831-844.	0.6	12
5008	Predicting a live birth by artificial intelligence incorporating both the blastocyst image and conventional embryo evaluation parameters. Artificial Intelligence in Medical Imaging, 2020, 1, 94-107.	0.3	10
5009	Wearable EEG-based Activity Recognition in PHM-related Service Environment via Deep Learning. International Journal of Prognostics and Health Management, 2016, 7, .	0.6	6
5010	A Comprehensive Review of Emerging Computational Methods for Gene Identification. Journal of Information Processing Systems, 0, , .	1.0	4
5011	Application of deep learning to the classification of uterine cervical squamous epithelial lesion from colposcopy images. Molecular and Clinical Oncology, 2019, 11, 583-589.	0.4	25
5012	Application of deep learning to the classification of uterine cervical squamous epithelial lesion from colposcopy images combined with HPV types. Oncology Letters, 2020, 19, 1602-1610.	0.8	23
5013	Enhancing Time-Series Momentum Strategies Using Deep Neural Networks. The Journal of Financial Data Science, 2019, 1, 19-38.	0.9	44
5014	La revanche des neurones. RÃ©seaux, 2018, nÂ° 211, 173-220.	0.1	64
5015	A new ensemble residual convolutional neural network for remaining useful life estimation. Mathematical Biosciences and Engineering, 2019, 16, 862-880.	1.0	50
5016	A negative correlation ensemble transfer learning method for fault diagnosis based on convolutional neural network. Mathematical Biosciences and Engineering, 2019, 16, 3311-3330.	1.0	23
5017	Towards automated satellite image segmentation and classification for assessing disaster damage using data-specific features with incremental learning. , 0, , .		16
5018	A Survey of Big Data Analytics Using Machine Learning Algorithms. Advances in Human and Social Aspects of Technology Book Series, 2018, , 95-123.	0.3	3
5019	Big Data Analytics for Train Delay Prediction. Advances in Civil and Industrial Engineering Book Series, 2018, , 320-348.	0.2	2
5020	Towards Intelligent Human Behavior Detection for Video Surveillance. Advances in Computer and Electrical Engineering Book Series, 2018, , 34-73.	0.2	1
5021	Towards Intelligent Human Behavior Detection for Video Surveillance. , 2019, , 884-917.		4

#	Article	IF	Citations
5022	Deep Learning for Healthcare Biometrics. Advances in Medical Technologies and Clinical Practice Book Series, 2019, , 73-108.	0.3	3
5023	A Comprehensive Review on Advanced Maintenance Strategies for Smart Railways. Advances in Logistics, Operations, and Management Science Book Series, 2019, , 433-457.	0.3	1
5024	A Novel Biometric Image Enhancement Approach With the Hybridization of Undecimated Wavelet Transform and Deep Autoencoder. Advances in Information Security, Privacy, and Ethics Book Series, 2020, , 245-269.	0.4	5
5025	An Investigation Into the Efficacy of Deep Learning Tools for Big Data Analysis in Health Care. , 2020, , 654-666.		5
5026	A Hybrid Meta-Learner Technique for Credit Scoring of Banks' Customers. Engineering, Technology & Applied Science Research, 2017, 7, 2073-2082.	0.8	8
5027	SPMK AND GRABCUT BASED TARGET EXTRACTION FROM HIGH RESOLUTION REMOTE SENSING IMAGES. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLI-B7, 195-203.	0.2	1
5028	EXTRACTION OF BUILT-UP AREAS USING CONVOLUTIONAL NEURAL NETWORKS AND TRANSFER LEARNING FROM SENTINEL-2 SATELLITE IMAGES. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLII-3, 79-85.	0.2	16
5029	OPPORTUNITIES FOR MACHINE LEARNING AND ARTIFICIAL INTELLIGENCE IN NATIONAL MAPPING AGENCIES: ENHANCING ORDNANCE SURVEY WORKFLOW. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLIII-B5-2020, 185-189.	0.2	2
5030	DeepTrack: Learning Discriminative Feature Representations by Convolutional Neural Networks for Visual Tracking. , 2014, , .		74
5031	Manitest: Are classifiers really invariant?. , 2015, , .		38
5032	Multimodal Deep Learning for Music Genre Classification. Transactions of the International Society for Music Information Retrieval, 2018, 1, 4-21.	1.1	71
5035	Air Quality Prediction Using a Deep Neural Network Model. Journal of Korean Society for Atmospheric Environment, 2019, 35, 214-225.	0.2	14
5036	Retrieval Term Prediction Using Deep Belief Networks. Journal of Natural Language Processing, 2015, 22, 225-250.	0.1	1
5037	Unsupervised Text Feature Learning via Deep Variational Auto-encoder. Information Technology and Control, 2020, 49, 421-437.	1.1	6
5038	Representational untangling by the firing rate nonlinearity in V1 simple cells. ELife, 2019, 8, .	2.8	4
5039	Linking emotions to behaviors through deep transfer learning. PeerJ Computer Science, 2020, 6, e246.	2.7	11
5040	Beyond the topics: how deep learning can improve the discriminability of probabilistic topic modelling. PeerJ Computer Science, 2020, 6, e252.	2.7	5
5041	A comparative study of machine learning and deep learning algorithms to classify cancer types based on microarray gene expression data. PeerJ Computer Science, 2020, 6, e270.	2.7	55

#	Article	IF	Citations
5042	Deep learning for constructing microblog behavior representation to identify social media user's personality. PeerJ Computer Science, 0, 2, e81.	2.7	30
5043	SQL Injection Attacks Predictive Analytics Using Supervised Machine Learning Techniques. International Journal of Computer Applications Technology and Research, 2020, 9, 139-149.	0.1	5
5044	CNGAT: A Graph Neural Network Model for Radar Quantitative Precipitation Estimation. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-14.	2.7	9
5045	BiInNet: Bilateral Inversion Network for Real-Time Velocity Analysis. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-17.	2.7	4
5046	Improving Semantic Segmentation in Aerial Imagery via Graph Reasoning and Disentangled Learning. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-18.	2.7	9
5047	Overview of Artificial Intelligence Systems in Ophthalmology. , 2021, , 31-53.		0
5048	Machine Learning Techniques for Biomedical Natural Language Processing: A Comprehensive Review. IEEE Access, 2021, 9, 140628-140653.	2.6	36
5049	Establishment of a Knowledge-and-Data-Driven Artificial Intelligence System with Robustness and Interpretability in Laboratory Medicine. SSRN Electronic Journal, 0, , .	0.4	0
5050	Analysing Large Repositories of Medical Images. Lecture Notes in Computer Science, 2021, , 179-193.	1.0	2
5051	Anomaly Detection for Solder Joints Using β-VAE. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2021, 11, 2214-2221.	1.4	12
5052	HiHAR: A Hierarchical Hybrid Deep Learning Architecture for Wearable Sensor-Based Human Activity Recognition. IEEE Access, 2021, 9, 145271-145281.	2.6	19
5053	Geographical Knowledge-Driven Representation Learning for Remote Sensing Images. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-16.	2.7	14
5054	Polarized-VAE: Proximity Based Disentangled Representation Learning for Text Generation. , 2021, , .		3
5055	SemML: Facilitating Development of ML Models for Condition Monitoring with Semantics. SSRN Electronic Journal, 0, , .	0.4	0
5056	Vecnet: A Spectral and Multi-Scale Spatial Fusion Deep Network for Pixel-Level Cloud Type Classification in Himawari-8 Imagery. , 2021, , .		2
5057	P-band SAR Tomography for Forest Type Classification. , 2021, , .		0
5058	Loop Closure Detection Using KPCA and CNN for Visual SLAM. , 2021, , .		5
5059	A Summary of the Latest Research on Knowledge Graph Technology. , 2021, , .		2

#	Article	IF	Citations
5060	Individual tree canopy detection and species classification of conifers by deep learning. Japanese Journal of Forest Planning, 2021, 55, 3-22.	0.2	0
5061	Towards Explainable Semantic Segmentation for Autonomous Driving Systems by Multi-Scale Variational Attention. , 2021, , .		7
5062	Recognition of Fetal Facial Expressions Using Artificial Intelligence Deep Learning. Donald School Journal of Ultrasound in Obstetrics and Gynecology, 2021, 15, 223-228.	0.1	7
5063	GEOGRAPHIC RATEMAKING WITH SPATIAL EMBEDDINGS. ASTIN Bulletin, 2022, 52, 1-31.	0.7	3
5064	SEAM is a spatial single nuclear metabolomics method for dissecting tissue microenvironment. Nature Methods, 2021, 18, 1223-1232.	9.0	78
5065	Categorical representation learning: morphism is all you need. Machine Learning: Science and Technology, 2022, 3, 015016.	2.4	2
5066	AnÂintelligent hexapod robot for inspection of airframe components oriented by deep learning technique. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2021, 43, 1.	0.8	5
5067	Cross-View Representation Learning for Multi-View Logo Classification with Information Bottleneck. , 2021, , .		5
5068	VPNET: Variable Projection Networks. International Journal of Neural Systems, 2022, 32, 2150054.	3.2	14
5069	A Study Towards Bangla Fake News Detection Using Machine Learning and Deep Learning. Advances in Intelligent Systems and Computing, 2022, , 79-95.	0.5	8
5070	Disentangling Hate in Online Memes. , 2021, , .		22
5071	Boosting semi-supervised network representation learning with pseudo-multitasking. Applied Intelligence, 0, , 1.	3.3	1
5072	Unsupervised anomaly detection in MR images using multicontrast information. Medical Physics, 2021, 48, 7346-7359.	1.6	1
5073	An MRI-based deep learning approach for efficient classification of brain tumors. Journal of Ambient Intelligence and Humanized Computing, 2023, 14, 6697-6718.	3.3	13
5074	Optimizing Few-Shot Learning Based on Variational Autoencoders. Entropy, 2021, 23, 1390.	1.1	4
5075	A Survey of Autoencoder Algorithms to Pave the Diagnosis of Rare Diseases. International Journal of Molecular Sciences, 2021, 22, 10891.	1.8	8
5076	Artificial Neural Networks for Educational Data Mining in Higher Education: A Systematic Literature Review. Applied Artificial Intelligence, 2021, 35, 983-1021.	2.0	34
5077	DÂ³Net: Dual-Branch Disturbance Disentangling Network for Facial Expression Recognition. , 2021, , .		3

#	ARTICLE	IF	CITATIONS
5078	Efficient Multi-Modal Fusion with Diversity Analysis. , 2021, , .		2
5079	Hypomimia Recognition in Parkinson's Disease With Semantic Features. ACM Transactions on Multimedia Computing, Communications and Applications, 2021, 17, 1-20.	3.0	5
5080	On the Quality of Deep Representations for Kepler Light Curves Using Variational Auto-Encoders. Signals, 2021, 2, 706-728.	1.2	2
5081	Entropy-based active learning of graph neural network surrogate models for materials properties. Journal of Chemical Physics, 2021, 155, 174116.	1.2	14
5082	An Automorphic Distance Metric and Its Application to Node Embedding for Role Mining. Complexity, 2021, 2021, 1-17.	0.9	0
5083	An Empirical Study of Uncertainty Gap for Disentangling Factors. , 2021, , .		0
5084	Multivariate CNN-LSTM Model for Multiple Parallel Financial Time-Series Prediction. Complexity, 2021, 2021, 1-14.	0.9	25
5085	Model-free reinforcement learning from expert demonstrations: a survey. Artificial Intelligence Review, 2022, 55, 3213-3241.	9.7	30
5086	Remaining Useful Life Prediction from 3D Scan Data with Genetically Optimized Convolutional Neural Networks. Sensors, 2021, 21, 6772.	2.1	4
5089	A Manifold Learning Perspective on Representation Learning: Learning Decoder and Representations without an Encoder. Entropy, 2021, 23, 1403.	1.1	3
5090	Optimal Transport Based Multi-layer Domain Adaptation Model for Industrial Fault Diagnosis. Lecture Notes in Electrical Engineering, 2022, , 394-407.	0.3	0
5091	Energy management optimisation using a combined Long Short-Term Memory recurrent neural network – Particle Swarm Optimisation model. Journal of Cleaner Production, 2021, 326, 129246.	4.6	15
5092	Reclassifying stroke lesion anatomy. Cortex, 2021, 145, 1-12.	1.1	16
5093	Dynamic β-VAEs for quantifying biodiversity by clustering optically recorded insect signals. Ecological Informatics, 2021, 66, 101456.	2.3	2
5094	Incremental Feature Construction for Deep Learning Using Sparse Auto-Encoder. International Journal of Electrical Energy, 2013, , 173-176.	0.4	0
5095	Concluding Remarks and Probing Further. Intelligent Systems Reference Library, 2014, , 209-218.	1.0	0
5096	Discriminative Feature Learning for Action Recognition Using a Stacked Denoising Autoencoder. Advances in Intelligent Systems and Computing, 2014, , 521-531.	0.5	2
5097	Sampling Hidden Parameters from Oracle Distribution. Lecture Notes in Computer Science, 2014, , 539-546.	1.0	0

#	ARTICLE	IF	CITATIONS
5099	Computational Biology in an Exaflops Era. Seibutsu Butsuri, 2014, 54, 172-174.	0.0	0
5100	Low-Rank and Sparse Dictionary Learning. , 2014, , 61-85.		2
5101	Multipath Convolutional-Recursive Neural Networks for Object Recognition. Lecture Notes in Computer Science, 2014, , 269-277.	1.0	0
5102	A Comparison between Artificial Neural Network and Cascade-Correlation Neural Network in Concept Classification. Lecture Notes in Computer Science, 2014, , 248-253.	1.0	3
5103	Real-time Hebbian Learning from Autoencoder Features for Control Tasks. , 0, , .		1
5104	Learning conditional random field with hierarchical representations for dialogue act recognition. , 0, , .		0
5105	Artificial Vision System using Human Visual Information Processing. Journal of Digital Convergence, 2014, 12, 349-355.	0.1	0
5106	Review of Local Descriptor in RGB-D Object Recognition. Telkomnika (Telecommunication Computing) Tj ETQq1 1 0.784314 rgBT /Ov	0.6	2
5107	Feature Pooling by Learning. Springer Briefs in Electrical and Computer Engineering, 2015, , 67-91.	0.3	0
5108	Multiple Stage Residual Model for Accurate Image Classification. Lecture Notes in Computer Science, 2015, , 430-445.	1.0	9
5109	Automatic Representation and Classifier Optimization for Image-based Object Recognition. , 2015, , .		1
5110	Learning Hierarchical Feature Representation in Depth Image. Lecture Notes in Computer Science, 2015, , 593-608.	1.0	0
5111	Estimation of the Arterial DiameterÂinÂUltrasound Images of the Common Carotid Artery. Lecture Notes in Computer Science, 2015, , 358-367.	1.0	2
5112	Discriminative Feature Learning with Constraints of Category and Temporal for Action Recognition. Lecture Notes in Computer Science, 2015, , 173-184.	1.0	0
5113	View and Illumination Invariant Object Classification Based on 3D Color Histogram Using Convolutional Neural Networks. Lecture Notes in Computer Science, 2015, , 316-327.	1.0	6
5114	Image Features and Feature Processing. Springer Briefs in Electrical and Computer Engineering, 2015, , 37-65.	0.3	0
5115	Concluding Remarks and Probing Further. Advances in Educational Technologies and Instructional Design Book Series, 2015, , 443-459.	0.2	0
5116	Tensor Deep Stacking Networks and Kernel Deep Convex Networks for Annotating Natural Scene Images. Lecture Notes in Computer Science, 2015, , 267-281.	1.0	0

#	ARTICLE	IF	CITATIONS
5117	A Reservation Multichannel MAC Protocol Utilize Blind Source Separation. Lecture Notes in Computer Science, 2015, , 106-115.	1.0	1
5118	Automatic Image Annotation Using Convex Deep Learning Models. , 2015, , .		1
5120	Bilingual Lexicon Extraction with Temporal Distributed Word Representation from Comparable Corpora. Lecture Notes in Computer Science, 2015, , 380-387.	1.0	0
5121	Representation Optimization with Feature Selection and Manifold Learning in a Holistic Classification Framework. , 2015, , .		4
5122	FEATURE DESCRIPTOR BY CONVOLUTION AND POOLING AUTOENCODERS. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XL-3/W2, 31-38.	0.2	7
5123	High-level feature representation using recurrent neural network for speech emotion recognition. , 0, , .		185
5124	Development of hindi speech recognition system of agricultural commodities using deep neural network. , 0, , .		3
5125	Paragraph vector based topic model for language model adaptation. , 0, , .		4
5126	Joint training of speech separation, filterbank and acoustic model for robust automatic speech recognition. , 0, , .		8
5128	Text Analysis and Automatic Triage of Posts in a Mental Health Forum. , 2016, , .		2
5129	Understanding the Interplay of Simultaneous Model Selection and Representation Optimization for Classification Tasks. , 2016, , .		3
5130	Hand Vein Recognition with Single-layer Feature Learning Model. , 2016, , .		0
5131	Egocentric Vision for Visual Market Basket Analysis. Lecture Notes in Computer Science, 2016, , 518-531.	1.0	2
5132	Deep Representation Based on Multilayer Extreme Learning Machine. Lecture Notes in Electrical Engineering, 2016, , 147-152.	0.3	0
5133	A Non-linear Label Compression Coding Method Based on Five-Layer Auto-Encoder for Multi-label Classification. Lecture Notes in Computer Science, 2016, , 415-424.	1.0	1
5134	Learning Inference by Induction. Lecture Notes in Computer Science, 2016, , 183-199.	1.0	1
5135	Comprehensive Graph and Content Feature Based User Profiling. Lecture Notes in Computer Science, 2016, , 31-42.	1.0	0
5136	Re-ranking for Bilingual Lexicon Extraction with Bi-directional Linear Transformation from Comparable Corpora. Communications in Computer and Information Science, 2016, , 25-34.	0.4	0

#	Article	IF	Citations
5138	Classification of Handwriting Number Based on PCANet Network with Data Augmentation. , 2016, , .		0
5139	Geospatial Area Embedding Based on the Movement Purpose Hypothesis Using Large-Scale Mobility Data from Smart Card. International Journal of Communications, Network and System Sciences, 2016, 09, 519-534.	0.4	1
5141	Investigating a Dictionary-Based Non-negative Matrix Factorization in Superimposed Digits Classification Tasks. Lecture Notes in Computer Science, 2016, , 335-343.	1.0	0
5143	Efficient Classification of Breast Lesion based on Deep Learning Technique. Bonfring International Journal of Advances in Image Processing, 2016, 6, 01-06.	0.5	0
5145	INVARIANT DESCRIPTOR LEARNING USING A SIAMESE CONVOLUTIONAL NEURAL NETWORK. ISPRS Annals of the Photogrammetry, Remote Sensing and Spatial Information Sciences, 0, III-3, 11-18.	0.0	1
5147	Unsupervised Deep Auditory Model Using Stack of Convolutional RBMs for Speech Recognition. , 0, , .		8
5148	Visual Sentiment Analysis with Network in Network. International Journal of Signal Processing, Image Processing and Pattern Recognition, 2016, 9, 205-214.	0.2	0
5150	The Frequency based Study of the Applicability of DBN Algorithm on Language Acquisition Modeling. Korean Journal of Cognitive and Biological Psychology, 2016, 28, 617-651.	0.0	0
5152	Supporting Humans in an Intelligent Manner with Awareness of the Human's State Using Artificial Intelligence & Machine Learning. International Journal of Engineering and Computer Science, 0, , .	0.2	0
5153	Indoor Actions Classification Through Long Short Term Memory Neural Networks. Lecture Notes in Computer Science, 2017, , 435-444.	1.0	4
5154	Evaluating the Impact of Encoding Schemes on Deep Auto-Encoders for DNA Annotation. Lecture Notes in Computer Science, 2017, , 390-395.	1.0	2
5156	An Unsupervised Domain Adaptation Algorithm Based on Canonical Correlation Analysis. Communications in Computer and Information Science, 2017, , 26-37.	0.4	1
5157	Wikipedia Vandal Early Detection: From User Behavior to User Embedding. Lecture Notes in Computer Science, 2017, , 832-846.	1.0	9
5158	Joint Sample Expansion and 1D Convolutional Neural Networks for Tumor Classification. Lecture Notes in Computer Science, 2017, , 135-141.	1.0	1
5159	"Deep" Learning : Detecting Metaphoricity in Adjective-Noun Pairs. , 2017, , .		8
5160	Modeling Task fMRI Data via Deep Convolutional Autoencoder. Lecture Notes in Computer Science, 2017, , 411-424.	1.0	8
5161	Encoding the Neurodegenerative Features. Springer Theses, 2017, , 53-69.	0.0	0
5162	Public Security Video and Image Analysis Challenge: A Retrospective. Lecture Notes in Computer Science, 2017, , 441-452.	1.0	0

#	Article	IF	Citations
5163	Category Prediction of Questions Posted inÂCommunity-Based Question Answering Services Using Deep Learning Methods. Lecture Notes in Computer Science, 2017, , 699-709.	1.0	1
5165	Improving Distributed Representations of Tweets - Present and Future. , 2017, , .		0
5166	Bilateral Filtering NIN Network for Image Classification. Lecture Notes in Computer Science, 2017, , 655-665.	1.0	1
5167	Remote classification from an airborne camera using image super-resolution. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2017, 34, 203.	0.8	0
5168	A New Convolution Network Based on Laplacian Eigenmap. , 2017, , .		0
5169	Towards a Visual Story Network Using Multiple Views for Object Recognition at Different Levels of Spatiotemporal Context. Springer Series in Cognitive and Neural Systems, 2017, , 573-610.	0.1	1
5170	Inference and Discovery in Remote Sensing Data with Features Extracted Using Deep Networks. Lecture Notes in Computer Science, 2017, , 131-136.	1.0	1
5171	Measuring Word Semantic Similarity Based on Transferred Vectors. Lecture Notes in Computer Science, 2017, , 326-335.	1.0	1
5172	Deep Learning Based Document Theme Analysis for Composition Generation. Lecture Notes in Computer Science, 2017, , 333-342.	1.0	0
5173	Model-Aware Representation Learning forÂCategorical Data with Hierarchical Couplings. Lecture Notes in Computer Science, 2017, , 242-249.	1.0	1
5174	Real-Time Classification Through a Spiking Deep Belief Network with Intrinsic Plasticity. Lecture Notes in Computer Science, 2017, , 188-196.	1.0	0
5175	OpenCL-Accelerated Object Classification in Video Streams using Spatial Pooler of Hierarchical Temporal Memory. International Journal of Advanced Computer Science and Applications, 2017, 8, .	0.5	0
5177	Feature Learning for Footnote-Based Document Image Classification. Lecture Notes in Computer Science, 2017, , 643-650.	1.0	2
5178	Context-Aware Collaborative Prediction. SpringerBriefs in Computer Science, 2017, , 7-17.	0.2	0
5179	Hierarchical Representation. SpringerBriefs in Computer Science, 2017, , 31-41.	0.2	0
5180	Speeding Up Convolution on Multi-cluster DSP in Deep Learning Scenarios. Communications in Computer and Information Science, 2017, , 493-503.	0.4	0
5181	Robust Dictionary Learning. Advanced Information and Knowledge Processing, 2017, , 95-119.	0.2	0
5182	Unsupervised Local Linear Preserving Manifold Reduction with Uncertainty Pretraining for Image Recognition. Lecture Notes in Computer Science, 2017, , 527-539.	1.0	0

#	Article	IF	Citations
5183	Big Data Analysis for M2M Networks:Research Challenges and Open Research Issues. International Journal of Computer Networks and Applications, 2017, 4, 1.	0.6	0
5186	Self-Organizing Map based Feature Learning in Bio-Signal Processing. Advances in Science, Technology and Engineering Systems, 2017, 2, 505-512.	0.4	0
5188	Deep Learning for Multimedia Content Analysis. , 2017, , 193-203.		6
5190	Normative Strategy for the Sound Artificial Intelligence Society and the Role of Law. Journal of Hongik Law Review, 2017, 18, 1-29.	0.0	0
5191	Integrated Sequence Tagging for Medieval Latin Using Deep Representation Learning. Journal of Data Mining and Digital Humanities, 2017, Special Issue on..., .	0.3	2
5193	Modeling Hebb Learning Rule for Unsupervised Learning. , 2017, , .		1
5194	Stochastic Recurrent Neural Network for Speech Recognition. , 0, , .		8
5195	Deep Learning with Satellite Images and Volunteered Geographic Information. , 2017, , 63-78.		1
5196	Cascaded K-means convolutional feature learner and its application to face recognition. Journal of Electronic Imaging, 2017, 26, 1.	0.5	1
5197	Coupled multiview autoencoders with locality sensitivity for three-dimensional human pose estimation. Journal of Electronic Imaging, 2017, 26, 1.	0.5	1
5198	How and What Deep Learning *Learns*. Kagaku Tetsugaku, 2017, 50, 51-70.	0.1	0
5199	Deep Feature Factorization for Concept Discovery. Lecture Notes in Computer Science, 2018, , 352-368.	1.0	29
5200	Benchmarks and models for entity-oriented polarity detection. , 2018, , .		2
5201	Classification of Hyperspectral Data Using a Multi-Channel Convolutional Neural Network. Lecture Notes in Computer Science, 2018, , 81-92.	1.0	11
5202	Secured Optimal Cost Approach for Bimodal Deep Face Recognition in IoT and Its Applications. Advances in Healthcare Information Systems and Administration Book Series, 2018, , 163-175.	0.2	1
5203	Semantics Interaction Control for Constructing Intelligent Ecology of Internet of Things and Critical Component Research. Journal of Computer and Communications, 2018, 06, 23-42.	0.6	0
5204	Understanding Degeneracies and Ambiguities in Attribute Transfer. Lecture Notes in Computer Science, 2018, , 721-736.	1.0	2
5205	Multivariate Analysis Algorithms. Springer Theses, 2018, , 23-62.	0.0	0

#	Article	IF	Citations
5206	Probabilistic Slow Feature Regression for Dynamic Soft Sensing. Springer Theses, 2018, , 83-107.	0.0	0
5207	Self-adaptive Node-Based PCA Encodings. Advances in Intelligent Systems and Computing, 2018, , 1-9.	0.5	0
5209	ForestHash: Semantic Hashing with Shallow Random Forests and Tiny Convolutional Networks. Lecture Notes in Computer Science, 2018, , 442-459.	1.0	5
5210	Dynamic Process Workflow Routing Using Deep Learning. Lecture Notes in Computer Science, 2018, , 132-142.	1.0	3
5212	RoboCup 2D Soccer Simulation League: Evaluation Challenges. Lecture Notes in Computer Science, 2018, , 325-337.	1.0	3
5213	An Autoencoder-Based Learning Method for Wireless Communication Protocol Identification. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2018, , 535-545.	0.2	1
5214	Neural Typing Entities in Chinese-Pedia. Lecture Notes in Computer Science, 2018, , 385-399.	1.0	0
5218	Classification of Encrypted Texts using Deep Learning. Transactions on Machine Learning and Artificial Intelligence, 2018, 6, .	0.3	0
5219	Deep Learning: A New Horizon for Personalized Treatment of Depression?. McGill Journal of Medicine, 2018, 16, .	0.1	0
5220	Comparing Interrelationships Between Features and Embedding Methods for Multiple-View Fusion. , 2018, , .		0
5221	A New Triaxial Apparatus Imposing Nonuniform Shearing for Deep Learning of Soil Behavior. Geotechnical Testing Journal, 2019, 42, 538-572.	0.5	0
5222	ReLU for sub space approximation and its application in dimension reduction. , 2018, , .		0
5223	Disentangling the Latent Space of (Variational) Autoencoders for NLP. Advances in Intelligent Systems and Computing, 2019, , 163-168.	0.5	2
5224	KÄ±sÄ±tlanmÄ±ÅŸ Boltzmann Makinesi Ve FarklÄ± SÄ±nÄ±flandÄ±rÄ±cÄ±larla OluÅŸturulan SÄ±nÄ±flandÄ±rma ÄŸÅŸ HatlarÄ±nÄ±n BaÅŸarÄ±mÄ±nÄ±n DeÄŸerlendirilmesi. BiliÅŸim Teknolojileri Dergisi, 2018, 11, 223-233.	0.2	3
5225	Partial randomness hashing applied to remote sensing object classification. Journal of Applied Remote Sensing, 2018, 12, 1.	0.6	0
5226	Predicting Win-rates of Hearthstone Decks: Models and Features that Won AAIAâ€™2018 Data Mining Challenge. , 0, , .		4
5227	Applying deep learning for agricultural classification using multitemporal SAR Sentinel-1 for Camargue, France. , 2018, , .		14
5229	Novelty Detection and Analysis with a Î²eta-DVAE Network. , 2018, , .		1

#	Article	IF	Citations
5230	Scene classification of multisource remote sensing data with two-stream densely connected convolutional neural network. , 2018, , .		1
5232	New Modification Version of Principal Component Analysis with Kinetic Correlation Matrix Using Kinetic Energy. Advances in Intelligent Systems and Computing, 2019, , 438-450.	0.5	0
5233	Predicting Personality Using Deep Learning Techniques. Lecture Notes on Data Engineering and Communications Technologies, 2019, , 168-179.	0.5	0
5234	Using Mobile Image Recognition System for Nonwood Species Identification in the Field. Journal of Innovative Science and Engineering (JISE), 2018, 2, 40-50.	0.7	0
5235	Missing Data Estimation Using Firefly Algorithm. Studies in Big Data, 2019, , 73-89.	0.8	2
5236	Improving Deep Learning by Regularized Scale-Free MSE of Representations. Lecture Notes in Computer Science, 2019, , 251-263.	1.0	1
5238	Latent cognizance. , 2019, , .		2
5239	MPdeep: Medical Procession with Deep Learning. Lecture Notes in Computer Science, 2019, , 717-725.	1.0	0
5240	Deep Learning and Medical Imaging. Advances in Healthcare Information Systems and Administration Book Series, 2019, , 101-147.	0.2	1
5241	Measuring the Value of Linguistics: A Case Study from St. Lawrence Island Yupik. , 2019, , .		0
5242	Comparison of Feature Extraction Techniques for Handwritten Digit Recognition with a Photonic Reservoir Computer. Lecture Notes in Computer Science, 2019, , 175-179.	1.0	0
5243	Recovering Localized Adversarial Attacks. Lecture Notes in Computer Science, 2019, , 302-311.	1.0	2
5244	Vector of Locally Aggregated Embeddings for Text Representation. , 2019, , .		1
5246	Deep Learning for Opinion Mining. Advances in Data Mining and Database Management Book Series, 2019, , 40-65.	0.4	3
5247	Formalized Conceptual Spaces with a Geometric Representation of Correlations. Synthese Library, 2019, , 29-58.	0.1	2
5248	Breast Cancer Risk Assessment Model Based on sl-SDAE. Communications in Computer and Information Science, 2019, , 417-430.	0.4	0
5249	Selection Issues of Kernel Function andÂIts Parameters of Hard Margin Support Vector Machine in a Real-World Handwriting Device. Lecture Notes in Electrical Engineering, 2019, , 109-117.	0.3	0
5250	Disentangling Latent Factors of Variational Auto-encoder with Whitening. Lecture Notes in Computer Science, 2019, , 590-603.	1.0	1

#	Article	IF	Citations
5251	3D Medical Image Synthesis by Factorised Representation and Deformable Model Learning. Lecture Notes in Computer Science, 2019, , 110-119.	1.0	6
5252	Improved Generalization of Arabic Text Classifiers. , 2019, , .		6
5253	On the Intersection of Deep Learning and Chest Radiography: Background and Prospects. SSRN Electronic Journal, 0, , .	0.4	1
5254	Self-Supervised Neural Machine Translation. , 2019, , .		14
5255	Building Knowledge Intensive Architectures for Heterogeneous NLP Workflows. Lecture Notes in Computer Science, 2019, , 152-157.	1.0	0
5256	Deep Learning for Big Data Analytics. Advances in Computational Intelligence and Robotics Book Series, 2019, , 1-21.	0.4	0
5257	Big Data Deep Learning Tools. , 2019, , 220-226.		0
5258	Neural Networks Architecture for Amazigh POS Tagging. Advances in Intelligent Systems and Computing, 2019, , 955-965.	0.5	1
5260	Symbolic Graph Embedding Using Frequent Pattern Mining. Lecture Notes in Computer Science, 2019, , 261-275.	1.0	2
5261	A Visualization-Based Analysis on Classifying Android Malware. Lecture Notes in Computer Science, 2019, , 304-319.	1.0	1
5262	Unsupervised Learning and Simulation for Complexity Management in Business Operations. , 2019, , 313-331.		3
5263	Wafer Defect Map Classification Using Sparse Convolutional Networks. Lecture Notes in Computer Science, 2019, , 125-136.	1.0	9
5264	A Lightweight Neural Network to Detect Arrhythmias. Lecture Notes in Electrical Engineering, 2019, , 189-203.	0.3	1
5265	Smart Homes and Offices. Advances in Web Technologies and Engineering Book Series, 2019, , 84-105.	0.4	0
5266	Deep Learning for 3D Data Processing. , 2019, , 155-187.		0
5267	Evaluation Measures for Extended Association Rules Based on Distributed Representations. Advances in Intelligent Systems and Computing, 2019, , 305-313.	0.5	1
5268	Deep Representation Learning for Orca Call Type Classification. Lecture Notes in Computer Science, 2019, , 274-286.	1.0	4
5269	Structural feature learning-based unsupervised semantic segmentation of synthetic aperture radar image. Journal of Applied Remote Sensing, 2019, 13, 1.	0.6	3

#	Article	IF	Citations
5270	Topic Modeling with Wasserstein Autoencoders. , 2019, , .		57
5271	Document Representation for Text Analytics in Finance. Lecture Notes in Business Information Processing, 2019, , 131-145.	0.8	0
5272	Traversing Latent Space Using Decision Ferns. Lecture Notes in Computer Science, 2019, , 593-608.	1.0	0
5273	Enhancing Variational Autoencoders with Mutual Information Neural Estimation for Text Generation. , 2019, , .		3
5274	An Innovative BERT-Based Readability Model. Lecture Notes in Computer Science, 2019, , 301-308.	1.0	6
5275	Latest Advances in Computational Speech Analysis for Mobile Sensing. Studies in Neuroscience, Psychology and Behavioral Economics, 2019, , 141-159.	0.1	2
5277	Representing Movie Characters in Dialogues. , 2019, , .		3
5278	Optimizing Deep Learning Model for Neural Network Topology. Advances in Intelligent Systems and Computing, 2019, , 785-795.	0.5	0
5279	Transferable Adversarial Cycle Alignment for Domain Adaption. Lecture Notes in Computer Science, 2019, , 655-672.	1.0	0
5280	Geometry of Shared Representations. , 2019, , .		2
5281	Machine Learning Classification Models for Banking Domain. SSRN Electronic Journal, 0, , .	0.4	2
5282	Measuring the Data Efficiency of Deep Learning Methods. , 2019, , .		4
5283	Representation Disentanglement for Multi-task Learning with Application to Fetal Ultrasound. Lecture Notes in Computer Science, 2019, , 47-55.	1.0	3
5284	State Representation Learning for Minimax Deep Deterministic Policy Gradient. Lecture Notes in Computer Science, 2019, , 481-487.	1.0	1
5285	Revisiting image ordinal estimation: how to deal with ordinal relationship in deep learning?. Journal of Electronic Imaging, 2019, 28, 1.	0.5	1
5287	A Priori Membership for Data Representation: Case Study of SPECT Heart Data Set. Topics in Intelligent Engineering and Informatics, 2020, , 65-80.	0.4	1
5288	Unsupervised segmentation of micro-CT images based on a hybrid of variational inference and adversarial learning. , 2019, , .		0
5289	Deep Embedding Sentiment Analysis on Product Reviews Using Naive Bayesian Classifier. International Journal of Scientific Research in Computer Science Engineering and Information Technology, 2019, , 858-864.	0.2	0

#	Article	IF	Citations
5290	Image Classification using CNN and Machine Learning. International Journal of Scientific Research in Computer Science Engineering and Information Technology, 2019, , 575-580.	0.2	0
5291	Akan Veri Karakterizasyonu, Ãœretimi Ve AnalitiÄŸi Ãœzerine KapsamlÄ± Bir Ä°nceleme. Erzincan Ãœniversitesi Fen Bilimleri EnstitÃ¼sÃ¼ Dergisi, 2019, 12, 379-410.	0.1	0
5293	Analysis of long-wave Infrared hyperspectral classification performance across changing scene illumination. , 2019, , .		1
5294	Toward Shareable Multi-abstraction-level Feature Extractor Based on a Bayesian Network. Advances in Intelligent Systems and Computing, 2020, , 67-78.	0.5	0
5295	HARMONIC ANALYTIC GEOMETRY ON SUBSETS IN HIGH DIMENSIONS - EMPIRICAL MODELS. , 2019, , .		0
5296	Gene Expression Prediction Using Deep Neural Networks. International Arab Journal of Information Technology, 2020, 17, 422-431.	0.5	1
5297	Deep learning based super resolution of aerial and satellite imagery. , 2019, , .		0
5298	Research on Fault Diagnosis Based on Artificial Neural Network. Lecture Notes in Electrical Engineering, 2020, , 73-79.	0.3	1
5299	On the Readability of Kernel-based Deep Learning Models in Semantic Role Labeling Tasks over Multiple Languages. Ijcol, 2019, 5, 11-31.	0.3	0
5300	Unsupervised online multitask learning of behavioral sentence embeddings. PeerJ Computer Science, 2019, 5, e200.	2.7	3
5302	Extreme Latent Representation Learning for Visual Classification. Proceedings in Adaptation, Learning and Optimization, 2020, , 65-75.	1.5	0
5304	Learning Neural Circuit by AC Operation and Frequency Signal Output. Studies in Computational Intelligence, 2020, , 15-30.	0.7	2
5305	Learning Multiple Maps from Conditional Ordinal Triplets. , 2019, , .		0
5306	Advanced Similarity Measures Using Word Embeddings and Siamese Networks in CBR. Advances in Intelligent Systems and Computing, 2020, , 449-462.	0.5	5
5307	Development of project-oriented spatial data infrastructure using cloud technologies. Radio Industry, 2019, 29, 79-90.	0.1	0
5309	Research on crop classification in Northeast China based on deep learning for Sentinel-2 data. , 2019, , .		4
5311	Towards a Stable Graph Representation Learning Using Connection Subgraphs. Women in Engineering and Science, 2020, , 71-92.	0.2	0
5312	Structured receptive field networks and applications to hyperspectral image classification. , 2019, , .		5

#	Article	IF	Citations
5313	Comparing linear structure-based and data-driven latent spatial representations for sequence prediction. , 2019, , .		0
5314	Target Detection using Autoencoders in a Radar Surveillance System. , 2019, , .		5
5315	Learning and Adaptation to Detect Changes and Anomalies in High-Dimensional Data. SpringerBriefs in Applied Sciences and Technology, 2020, , 63-75.	0.2	1
5316	Proposing a new method of image classification based on the AdaBoost deep belief network hybrid method. Telkomnika (Telecommunication Computing Electronics and Control), 2019, 17, 2650.	0.6	0
5317	Hierarchical ship detection method for spaceâ€borne SAR image. Journal of Engineering, 2019, 2019, 7662-7666.	0.6	0
5318	An Enhanced Feature Selection for Text Documents. Smart Innovation, Systems and Technologies, 2020, , 21-29.	0.5	5
5319	Assessment of Autoencoder Architectures for Data Representation. Studies in Computational Intelligence, 2020, , 101-132.	0.7	9
5320	Current State and Challenges of Big Data. Lecture Notes in Networks and Systems, 2020, , 68-80.	0.5	1
5321	Case Analysis of Applications for Deep Learning Technology in the Mining Industry. Journal of the Korean Society of Mineral and Energy Resources Engineers, 2019, 56, 435-446.	0.1	1
5322	EpiRep: Learning Node Representations through Epidemic Dynamics on Networks. , 2019, , .		5
5323	Automatic Classification of Glaciers from Sentinel-2 Imagery Using A Novel Deep Learning Model. , 2019, , .		2
5325	Legal Summarization for Multi-role Debate Dialogue via Controversy Focus Mining and Multi-task Learning. , 2019, , .		16
5327	Tag2Vec: Tag Embedding for Top-N Recommendation. Advances in Intelligent Systems and Computing, 2020, , 168-175.	0.5	0
5328	Cross-domain Aspect Category Transfer and Detection via Traceable Heterogeneous Graph Representation Learning. , 2019, , .		4
5329	Convergence of Markovian stochastic approximation for Markov random fields with hidden variables. Stochastics and Dynamics, 2020, 20, 2050029.	0.6	0
5330	The Effect of Using Mathematical Representations in the Achievement of Fourth Grade Students in Mathematics. Journal Port Science Research, 2019, , 593-613.	0.1	0
5331	Image Clustering Based on Graph Regularized Robust Principal Component Analysis. Communications in Computer and Information Science, 2020, , 563-573.	0.4	0
5332	Robot Learning. , 2020, , 1-9.		0

#	Article	IF	Citations
5333	Bi-directional Generation between Attributes and Images. , 2019, , .		0
5334	Representation Learning Techniques: An Overview. Lecture Notes on Data Engineering and Communications Technologies, 2020, , 89-104.	0.5	2
5335	Gated Recurrent Unit Networks for Remaining Useful Life Prediction. IFAC-PapersOnLine, 2020, 53, 10498-10504.	0.5	4
5336	Learning Target Selection in Creating Negatively Correlated Neural Networks. Communications in Computer and Information Science, 2020, , 799-807.	0.4	0
5337	Embedded AutoEncoders: A Novel Framework for Face De-identification. Communications in Computer and Information Science, 2020, , 154-163.	0.4	1
5338	Biologically Plausible Learning of Text Representation with Spiking Neural Networks. Lecture Notes in Computer Science, 2020, , 433-447.	1.0	1
5339	Deep Learning Models with Applications to Brain Image Analysis. , 2020, , 433-462.		1
5340	Improvement of Short Text Clustering Based on Weighted Word Embeddings. Lecture Notes in Computer Science, 2020, , 260-267.	1.0	0
5341	Structured Data Encoder for Neural Networks Based on Gradient Boosting Decision Tree. Lecture Notes in Computer Science, 2020, , 603-618.	1.0	0
5342	Exploring Blockchain in Speech Recognition. Communications in Computer and Information Science, 2020, , 211-220.	0.4	0
5343	Deep Hashing Network for Unsupervised Domain Adaptation. , 2020, , 57-74.		4
5344	Challenges of Reinforcement Learning. , 2020, , 249-272.		17
5345	Applied Machine Learning in Operations Management. SSRN Electronic Journal, 0, , .	0.4	0
5346	Unsupervised Deep Representation Learning and Few-Shot Classification of PolSAR Images. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-16.	2.7	15
5347	Very Deep Neural Networks for Extracting MITE Families Features and Classifying them based on DNA Scalograms. International Journal of Advanced Computer Science and Applications, 2020, 11, .	0.5	0
5348	Visual Compositional Learning for Human-Object Interaction Detection. Lecture Notes in Computer Science, 2020, , 584-600.	1.0	64
5349	Analysis of Machine Learning Algorithms for Breast Cancer Detection. Advances in Computational Intelligence and Robotics Book Series, 2020, , 1-20.	0.4	4
5350	Erfassung der Bedeutung von geschriebenem Text. , 2020, , 167-248.		1

#	ARTICLE	IF	CITATIONS
5351	Ethnography as Data Science. , 2020, , 73-90.		0
5352	Non-intrusive Load Monitoring Based on Regularized ResNet with Multivariate Control Chart. Lecture Notes in Computer Science, 2020, , 646-661.	1.0	1
5353	Forklift Truck Activity Recognition from CAN Data. Communications in Computer and Information Science, 2020, , 119-126.	0.4	0
5354	Representation Learning for Style and Content Disentanglement with Autoencoders. Lecture Notes in Computer Science, 2020, , 41-51.	1.0	1
5355	IDC Breast Cancer Detection Using Deep Learning Schemes. Advances in Data Science and Adaptive Analysis, 2020, 12, 2041002.	0.2	9
5356	Env2Vec. , 2020, , .		0
5357	Adversarial Multimodal Representation Learning for Click-Through Rate Prediction. , 2020, , .		24
5358	Cultural Heritage Content Management System by Deep Learning. , 2020, , .		0
5360	Review of Various Tasks Performed in the Preprocessing Phase of a Diabetic Retinopathy Diagnosis System. Current Medical Imaging, 2020, 16, 397-426.	0.4	2
5361	Named entity recognition: a semi-supervised learning approach. International Journal of Information Technology (Singapore), 2021, 13, 1659-1665.	1.8	10
5362	Validation of Neural Network Predictions for the Outcome of Refractive Surgery for Myopia. Medical Hypothesis, Discovery, and Innovation in Ophthalmology, 2020, 9, 172-178.	0.4	1
5363	Cooking Recipe Analysis based on Sequences of Distributed Representation on Procedure Texts and Associated Images. , 2020, , .		0
5364	Granular space, knowledge-encoded deep learning architecture and remote sensing image classification. Engineering Applications of Artificial Intelligence, 2020, 92, 103647.	4.3	4
5365	A Convolutional Neural Network with Word-level Attention for Text Classification. , 2020, , .		1
5366	Brain tumor diagnostics with application of hybrid fuzzy convolutional neural networks. System Research and Information Technologies, 2020, .	0.1	0
5367	Affective Computing Among Individuals in Deep Learning. Journal of Multimedia Information System, 2020, 7, 115-124.	0.4	1
5369	Deep Learning Techniques for Electronic Health Record (EHR) Analysis. Studies in Computational Intelligence, 2021, , 73-103.	0.7	7
5370	Exploration and Comparison of Modern AI Algorithms to Predict Drug Efficacy. , 2020, , .		0

#	ARTICLE	IF	CITATIONS
5372	Compositional neural scene representations for shading inference. ACM Transactions on Graphics, 2020, 39, .	4.9	7
5373	Characterizing and Learning Representation on Customer Contact Journeys in Cellular Services. , 2020, , .		1
5374	Imaging Through Turbulent Media Using Deep Learning Method. , 2020, , .		0
5376	Remarks on Recognition of Aromas from Tea Sources Using MQ3, MQ5, MQ7 Sensor Signal. International Journal of Scientific Research in Science, Engineering and Technology, 2020, , 244-252.	0.1	1
5377	QUALITY ASSESSMENT OF DIMENSIONALITY REDUCTION TECHNIQUES ON HYPERSPECTRAL DATA: A NEURAL NETWORK BASED APPROACH. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLIII-B3-2020, 389-394.	0.2	0
5379	Neural Embeddings of Financial Time-Series Data. The Journal of Financial Data Science, 2020, 2, 33-43.	0.9	1
5380	Self-attention based bidirectional long short-term memory-convolutional neural network classifier for the prediction of ischemic and non-ischemic cardiomyopathy. Laser Physics Letters, 2020, 17, 095601.	0.6	0
5382	Recognition of Aromas from Tea Sources based on MQ3, MQ5, MQ7 Sensor Signal. International Journal of Scientific Research in Science, Engineering and Technology, 2020, , 259-264.	0.1	0
5383	Adaptive Feature Boosting of Multi-Sourced Deep Autoencoders for Smart Grid Intrusion Detection. , 2020, , .		6
5384	Traditional food knowledge of Indonesia: a new high-quality food dataset and automatic recognition system. Journal of Big Data, 2020, 7, .	6.9	5
5385	Evaluating Deep Learning Biases Based on Grey-Box Testing Results. Advances in Intelligent Systems and Computing, 2021, , 641-651.	0.5	4
5386	LSTM-Based Dynamic Frequency Prediction. , 2020, , .		8
5387	Multi-Task Learning for iRAP Attribute Classification and Road Safety Assessment. , 2020, , .		5
5388	Predicting a live birth by artificial intelligence incorporating both the blastocyst image and conventional embryo evaluation parameters. Artificial Intelligence in Medical Imaging, 2020, 1, 87-93.	0.3	0
5389	Machine Learning Cancer Diagnosis Based on Medical Image Size and Modalities. Studies in Computational Intelligence, 2021, , 201-223.	0.7	0
5391	Parallel training models of deep belief network using MapReduce for the classifications of emotions. International Journal of Systems Assurance Engineering and Management, 2022, 13, 925-940.	1.5	4
5392	Quick and robust feature selection: the strength of energy-efficient sparse training for autoencoders. Machine Learning, 0, , 1.	3.4	8
5393	Robust recognition and exploratory analysis of crystal structures via Bayesian deep learning. Nature Communications, 2021, 12, 6234.	5.8	20

#	Article	IF	Citations
5394	Knowledge extraction from the learning of sequences in a long short term memory (LSTM) architecture. Knowledge-Based Systems, 2022, 235, 107657.	4.0	6
5395	SCMGR. , 2021, , .		0
5396	Continual representation learning for node classification in power-law graphs. Future Generation Computer Systems, 2022, 128, 420-428.	4.9	11
5397	Jointly Optimizing Query Encoder and Product Quantization to Improve Retrieval Performance. , 2021, , .		28
5398	Applications of Swarm Intelligent and Deep Learning Algorithms for Image-Based Cancer Recognition. Advanced Technologies and Societal Change, 2022, , 133-150.	0.8	13
5399	On learning disentangled representations for individual treatment effect estimation. Journal of Biomedical Informatics, 2021, 124, 103940.	2.5	0
5400	Topic-aware Heterogeneous Graph Neural Network for Link Prediction. , 2021, , .		12
5401	Sparse one-dimensional convolutional neural network-based feature learning for fault detection and diagnosis in multivariable manufacturing processes. Neural Computing and Applications, 0, , 1.	3.2	5
5402	Near-Surface Air Temperature Retrieval Using a Deep Neural Network from Satellite Observations over South Korea. Remote Sensing, 2021, 13, 4334.	1.8	6
5403	Edge Intelligence: Empowering Intelligence to the Edge of Network. Proceedings of the IEEE, 2021, 109, 1778-1837.	16.4	61
5404	Extracting Predictive Representations from Hundreds of Millions of Molecules. Journal of Physical Chemistry Letters, 2021, 12, 10793-10801.	2.1	28
5405	On the Evolution of Speech Representations for Affective Computing: A brief history and critical overview. IEEE Signal Processing Magazine, 2021, 38, 12-21.	4.6	7
5406	Utilizing unsupervised learning, multi-view imaging, and CNN-based attention facilitates cost-effective wetland mapping. Remote Sensing of Environment, 2021, 267, 112757.	4.6	12
5407	Organizing Tagged Knowledge: Similarity Measures and Semantic Fluency in Structure Mining. Journal of Mechanical Design, Transactions of the ASME, 2020, 142, .	1.7	4
5408	A Term and Phase Invariant Neural Network for Fault Signal Diagnosis. Communications in Computer and Information Science, 2020, , 490-497.	0.4	0
5409	Learning GPS Point Representations to Detect Anomalous Bus Trajectories. IEEE Access, 2020, 8, 229006-229017.	2.6	3
5410	Residual Attention Encoding Neural Network for Terrain Texture Classification. Lecture Notes in Computer Science, 2020, , 52-63.	1.0	0
5411	Literary Natural Language Generation with Psychological Traits. Lecture Notes in Computer Science, 2020, , 193-204.	1.0	1

#	Article	IF	Citations
5412	A Shallow Introduction to Deep Neural Networks. Natural Computing Series, 2020, , 35-63.	2.2	2
5413	Bayesian Optimization Improves Tissue-Specific Prediction of Active Regulatory Regions with Deep Neural Networks. Lecture Notes in Computer Science, 2020, , 600-612.	1.0	1
5414	A Comparative Study of Representation Learning Techniques for Dynamic Networks. Advances in Intelligent Systems and Computing, 2020, , 523-530.	0.5	0
5415	Learning Spatio-Temporal Features for Detecting Anomalies in Videos using Convolutional Autoencoder. , 0, , .		0
5416	Pose Augmentation: Class-Agnostic Object Pose Transformation for Object Recognition. Lecture Notes in Computer Science, 2020, , 138-155.	1.0	4
5417	An Improved Conditional Generative Adversarial Network for Microarray Data. Lecture Notes in Computer Science, 2020, , 105-114.	1.0	1
5418	Analysis on the Number of Linear Regions of Piecewise Linear Neural Networks. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 644-653.	7.2	9
5419	World Knowledge Representation. , 2020, , 163-216.		1
5420	CNN and MLSTM based Sentiment Analysis. , 2020, , 53-58.		0
5421	Depression severity prediction from facial expression based on the DRR_DepressionNet network. , 2020, , .		7
5422	Deep Learning Approach in Sentiment Analysis: A Review. , 2020, , .		3
5423	Putting the world back to work: An expert system using big data and artificial intelligence in combating the spread of COVID-19 and similar contagious diseases. Work, 2020, 67, 557-572.	0.6	13
5424	Ontology, neural networks, and the social sciences. SynthÃˆse, 2021, 199, 4775.	0.6	0
5425	Learning low-frequency temporal patterns for quantitative trading. , 2020, , .		0
5426	Learning Personalized Codebook for TDD Non-Antenna Switching System. , 2020, , .		0
5427	Commonâ€specific feature learning for multiâ€source domain adaptation. IET Image Processing, 2020, 14, 4049-4058.	1.4	2
5428	Unsupervised ageing detection of mechanical systems on a causality graph. , 2020, , .		2
5429	An Improved Translation-Based Method for Knowledge Graph Representation. , 2020, , .		0

#	Article	IF	Citations
5430	Predicting the Outcome of English Premier League Matches using Machine Learning. , 2020, , .		3
5431	Exploring chromatin conformation and gene co-expression through graph embedding. Bioinformatics, 2020, 36, i700-i708.	1.8	5
5432	Construction of source-charge probability distribution model for electric power field. , 2020, , .		0
5433	Image segmentation of clouds based on deep learning. Information Extraction and Processing, 2020, 2020, 72-78.	0.1	0
5434	NiuEM: A Nested-iterative Unsupervised Learning Model for Single-particle Cryo-EM Image Processing. , 2020, , .		1
5435	Deep time series forecasting for enhanced index tracking. Applied Economics, 2021, 53, 1916-1934.	1.2	4
5436	Review on Bitcoin Price Prediction Using Machine Learning and Statistical Methods. Sakarya University Journal of Computer and Information Sciences, 2020, 3, 272-282.	0.6	5
5438	Active Detection - Use of artificial intelligence, to fault detection of process analyzers, as technology that viabilize an application to management of analysers' park at Petrobras' Downstream. Technical Papers ... Rio Oil & Gas, 2020, 20, 432-433.	0.0	0
5439	What can be improved? Identifying actionable items from patient narratives. , 2020, , .		0
5440	Deep Learning based Time Series Forecasting. , 2020, , .		4
5441	Development and Application of an Intensive Care Medical Data Set for Deep Learning. , 2020, , .		1
5442	Deep Learning for Password Guessing and Password Strength Evaluation, A Survey. , 2020, , .		0
5443	Impact of Data Quality and Target Representation on Predictions for Urban Bus Networks. , 2020, , .		1
5444	Lw-CNN-Based Myoelectric Signal Recognition and Real-Time Control of Robotic Arm for Upper-Limb Rehabilitation. Computational Intelligence and Neuroscience, 2020, 2020, 1-12.	1.1	13
5445	Comparative study of methods to obtain the number of hidden neurons of an auto-encoder in a high-dimensionality context. IEEE Latin America Transactions, 2020, 18, 2196-2203.	1.2	1
5446	Graph Force Learning. , 2020, , .		3
5447	Itâ€™s LeVAsa not LevioSA! Latent Encodings for Valence-Arousal Structure Alignment. , 2021, , .		0
5449	X-ray Testing. , 2021, , 1-41.		0

#	Article	IF	Citations
5451	Application of Machine Learning Algorithms in Structural Health Monitoring Research. Lecture Notes in Civil Engineering, 2021, , 219-228.	0.3	1
5452	IR2V <scp>EC</scp>. Transactions on Architecture and Code Optimization, 2020, 17, 1-27.	1.6	27
5453	CSNAS: Contrastive Self-Supervised Learning Neural Architecture Search Via Sequential Model-Based Optimization. IEEE Transactions on Artificial Intelligence, 2022, 3, 609-624.	3.4	4
5454	Dynamic Hybrid Model to Forecast the Spread of COVID-19 Using LSTM and Behavioral Models Under Uncertainty. IEEE Transactions on Cybernetics, 2022, 52, 11977-11989.	6.2	7
5455	AutoAtlas: Neural Network for 3D Unsupervised Partitioning and Representation Learning. IEEE Journal of Biomedical and Health Informatics, 2022, 26, 2180-2191.	3.9	0
5456	Deep Stacked Ensemble Learning Model for COVID-19 Classification. Computers, Materials and Continua, 2022, 70, 5467-5469.	1.5	3
5457	A Survey of Big Data Analytics Using Machine Learning Algorithms. , 2022, , 655-677.		1
5458	Smart Homes and Offices. , 2022, , 679-700.		0
5459	Instance-based defense against adversarial attacks in Deep Reinforcement Learning. Engineering Applications of Artificial Intelligence, 2022, 107, 104514.	4.3	2
5460	Prognostics and Health Management (PHM): Where are we and where do we (need to) go in theory and practice. Reliability Engineering and System Safety, 2022, 218, 108119.	5.1	179
5461	Review on deep learning applications in frequency analysis and control of modern power system. International Journal of Electrical Power and Energy Systems, 2022, 136, 107744.	3.3	136
5462	A Survey on Deep Learning for Human Activity Recognition. ACM Computing Surveys, 2022, 54, 1-34.	16.1	73
5464	An Insight into State-of-the-Art Techniques for Big Data Classification. , 2020, , 1742-1763.		0
5465	Exploring Deep Anomaly Detection Methods Based on Capsule Net. Lecture Notes in Computer Science, 2020, , 375-387.	1.0	8
5466	Learning Disentangled Representations with Latent Variation Predictability. Lecture Notes in Computer Science, 2020, , 684-700.	1.0	13
5467	Transform Learning Based Function Approximation for Regression and Forecasting. Lecture Notes in Computer Science, 2020, , 14-25.	1.0	2
5468	Diet Modelling: Combining Mathematical Programming Models with Data-Driven Methods. IFIP Advances in Information and Communication Technology, 2020, , 72-80.	0.5	1
5469	Copula model selection using image recognition. SSRN Electronic Journal, 0, , .	0.4	0

#	Article	IF	Citations
5470	Image recovery through turbid water under wide distance ranges. , 2019, , .		2
5471	Generating precise error specifications for C: a zero shot learning approach. , 2019, 3, 1-30.		3
5472	Regularization Methods in Deep Learning. Computer Science and Application, 2020, 10, 1224-1233.	0.0	0
5473	Random Forests with a Steepend Gini-Index Split Function and Feature Coherence Injection. Lecture Notes in Computer Science, 2020, , 255-272.	1.0	1
5474	An Algorithm for Emotion Evaluation and Analysis Based on CBOW. Lecture Notes in Computer Science, 2020, , 344-351.	1.0	0
5475	State Representation Learning from Demonstration. Lecture Notes in Computer Science, 2020, , 304-315.	1.0	1
5476	Learning Informative Representations of Biomedical Relations with Latent Variable Models. , 2020, , .		0
5477	A Novel Clustering-Framework of Gene Expression Data Based on the Combination Between Deep Learning and Self-organizing Map. Lecture Notes in Computer Science, 2020, , 3-13.	1.0	0
5478	Real-Time Inspection of Multi-sided Surface Defects Based on PANet Model. Lecture Notes in Computer Science, 2020, , 623-633.	1.0	3
5479	A Speech Synthesis Model with Mood Based on Variational Autoencoder. Computer Science and Application, 2020, 10, 2159-2167.	0.0	0
5480	Research Progress of Artificial Intelligence Technology in Diagnosis and Quality Control of Digestive Endoscopy. Advances in Clinical Medicine, 2020, 10, 2720-2726.	0.0	0
5481	Deep learning in power systems research: A review. CSEE Journal of Power and Energy Systems, 2020, , .	1.7	28
5482	Unsupervised 3D Human Pose Representation with Viewpoint and Pose Disentanglement. Lecture Notes in Computer Science, 2020, , 102-118.	1.0	39
5483	On the Encoder-Decoder Incompatibility in Variational Text Modeling and Beyond. , 2020, , .		2
5484	Parallel QR Factorization of Block-Tridiagonal Matrices. SIAM Journal of Scientific Computing, 2020, 42, C313-C334.	1.3	1
5485	Emergent Language Generalization and Acquisition Speed are not tied to Compositionality. , 2020, , .		4
5486	Learning Disentangled Representations with Attentive Joint Variational Autoencoder. Communications in Computer and Information Science, 2020, , 403-411.	0.4	0
5487	Evaluating Deep Semi-supervised Learning for Whole-Transcriptome Breast Cancer Subtyping. Lecture Notes in Computer Science, 2020, , 232-244.	1.0	0

#	ARTICLE	IF	CITATIONS
5488	Facilitating Course Recommendations by Word2vec Paradigm Through Social Tags. Communications in Computer and Information Science, 2020, , 239-247.	0.4	0
5489	MGCN4REC: Multi-graph Convolutional Network for Next Basket Recommendation with Instant Interest. Lecture Notes in Computer Science, 2020, , 171-185.	1.0	2
5490	Self-taught Learning: Image Classification Using Stacked Autoencoders. Advances in Intelligent Systems and Computing, 2020, , 1-14.	0.5	0
5491	From Abstract Items to Latent Spaces to Observed Data and Back: Compositional Variational Auto-Encoder. Lecture Notes in Computer Science, 2020, , 274-289.	1.0	0
5492	Medical Text and Image Processing: Applications, Issues and Challenges. Learning and Analytics in Intelligent Systems, 2020, , 237-262.	0.5	12
5493	Cover-Source Mismatch in Deep Spatial Steganalysis. Lecture Notes in Computer Science, 2020, , 71-83.	1.0	5
5495	Understanding and Modeling Urban Mobility Dynamics via Disentangled Representation Learning. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 2010-2020.	4.7	7
5496	Automatic Recognition of the Early Stage of Alzheimer's Disease Based on Discrete Wavelet Transform and Reduced Deep Convolutional Neural Network. Lecture Notes in Electrical Engineering, 2020, , 531-542.	0.3	2
5497	Dual Adversarial Network for Deep Active Learning. Lecture Notes in Computer Science, 2020, , 680-696.	1.0	11
5498	Deep Learning of Data Analytics in Healthcare. Advances in Healthcare Information Systems and Administration Book Series, 2020, , 151-165.	0.2	0
5499	Multi-channel Image Registration of Cardiac MR Using Supervised Feature Learning with Convolutional Encoder-Decoder Network. Lecture Notes in Computer Science, 2020, , 103-110.	1.0	0
5500	Unsupervised Representation Learning Based on Generative Adversarial Networks. Communications in Computer and Information Science, 2020, , 65-78.	0.4	0
5502	A Novel fMRI Representation Learning Framework with GAN. Lecture Notes in Computer Science, 2020, , 21-29.	1.0	2
5503	Role-Based Access Classification: Evaluating the Performance of Machine Learning Algorithms. Lecture Notes in Computer Science, 2020, , 1-39.	1.0	0
5505	Multilayer Perceptron Based on Joint Training for Predicting Popularity. Lecture Notes in Computer Science, 2020, , 570-580.	1.0	0
5506	Deep Unsupervised Representation Learning for Audio-Based Medical Applications. Intelligent Systems Reference Library, 2020, , 137-164.	1.0	2
5507	Deep Learning Network. Advances in Computer and Electrical Engineering Book Series, 2020, , 1-30.	0.2	4
5508	An Investigation Into the Efficacy of Deep Learning Tools for Big Data Analysis in Health Care. , 2020, , 1826-1838.		0

#	ARTICLE	IF	CITATIONS
5509	Info3D: Representation Learning on 3D Objects Using Mutual Information Maximization and Contrastive Learning. Lecture Notes in Computer Science, 2020, , 626-642.	1.0	26
5511	Partial Usage Pattern Extraction. , 2020, , 137-162.		0
5512	Detecting Energy Depriving Malicious Nodes by Unsupervised Learning in Energy Harvesting Cooperative Wireless Sensor Networks. Journal of Information Processing, 2020, 28, 689-698.	0.3	0
5513	Hierarchical Bi-Directional Self-Attention Networks for Paper Review Rating Recommendation. , 2020, , .		9
5514	The outcome in patients with brain stroke: A deep learning neural network modeling. Journal of Research in Medical Sciences, 2020, 25, 78.	0.4	2
5515	Representation learning of writing style. , 2020, , .		5
5516	Data-Driven Scalable E-commerce Transportation Network Design with Unknown Flow Response. SSRN Electronic Journal, 0, , .	0.4	2
5517	Toward Better Structure and Constraint to Mine Negative Sequential Patterns. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 571-585.	7.2	12
5518	Explainable Process Monitoring Based on Class Activation Map: Garbage In, Garbage Out. Communications in Computer and Information Science, 2020, , 93-105.	0.4	1
5519	Self-Induced Curriculum Learning in Self-Supervised Neural Machine Translation. , 2020, , .		8
5520	Robust Generative Restricted Kernel Machines Using Weighted Conjugate Feature Duality. Lecture Notes in Computer Science, 2020, , 613-624.	1.0	4
5521	Variable-Depth Convolutional Neural Network for Text Classification. Communications in Computer and Information Science, 2020, , 685-692.	0.4	10
5522	Energy-Based Dropout in Restricted Boltzmann Machines: Why Not Go Random. IEEE Transactions on Emerging Topics in Computational Intelligence, 2022, 6, 276-286.	3.4	3
5523	Computational imaging of label-free cells using lens-less digital holography. , 2020, , .		1
5524	Towards detection and classification of microscopic foraminifera using transfer learning. Proceedings of the Northern Lights Deep Learning Workshop, 0, 1, 6.	0.0	5
5526	Generalizing Long Short-Term Memory Network for Deep Learning from Generic Data. ACM Transactions on Knowledge Discovery From Data, 2020, 14, 1-28.	2.5	7
5527	Vehicle Run-off-Road Event Automatic Detection by Fiber Sensing Technology. , 2021, , .		0
5528	Joint Feature Disentanglement and Hallucination for Few-Shot Image Classification. IEEE Transactions on Image Processing, 2021, 30, 9245-9258.	6.0	9

#	Article	IF	Citations
5529	SSSIC: Semantics-to-Signal Scalable Image Coding With Learned Structural Representations. IEEE Transactions on Image Processing, 2021, 30, 8939-8954.	6.0	13
5530	Where and What? Examining Interpretable Disentangled Representations. , 2021, , .		10
5531	Generative Hierarchical Features from Synthesizing Images. , 2021, , .		35
5532	VDSM: Unsupervised Video Disentanglement with State-Space Modeling and Deep Mixtures of Experts. , 2021, , .		1
5533	Primitive Representation Learning for Scene Text Recognition. , 2021, , .		42
5534	GIRAFFE: Representing Scenes as Compositional Generative Neural Feature Fields. , 2021, , .		338
5535	Bottom-Up Human Pose Estimation Via Disentangled Keypoint Regression. , 2021, , .		143
5536	Exploring Data-Efficient 3D Scene Understanding with Contrastive Scene Contexts. , 2021, , .		113
5537	Deep Learning Algorithms and Their Applications in the Perception Problem. , 2020, , .		0
5538	Understanding features on evolutionary policy optimizations. , 2020, , .		1
5539	Extracting architectural patterns of deep neural networks for disease detection. , 2020, , .		0
5540	GrCluster. , 2020, , .		1
5541	Mitigating Disruption in Production Networks through Dynamic Scheduling Enabled by Integrated Enterprise Data. Smart and Sustainable Manufacturing Systems, 2020, 4, 20200051.	0.3	0
5542	A Generic Edge-Empowered Graph Convolutional Network via Node-Edge Mutual Enhancement. , 2020, , .		2
5544	ShapeVis: High-dimensional Data Visualization at Scale. , 2020, , .		1
5545	Recent Advances in EMG Pattern Recognition for Prosthetic Control. Journal of Biomedical Physics and Engineering, 2020, 10, 129-130.	0.5	1
5546	An Overview Studying of Deep Learning. International Journal of Scientific Research in Science, Engineering and Technology, 2020, , 394-398.	0.1	0
5547	Generative Ranking based Sequential Recommendation in Software Crowdsourcing. , 2020, , .		1

#	Article	IF	Citations
5548	ANDRuspex: Leveraging Graph Representation Learning to Predict Harmful App Installations on Mobile Devices. , 2021, , .		0
5549	Robust neural decoding by kernel regression with Siamese representation learning. Journal of Neural Engineering, 2021, 18, 056062.	1.8	6
5550	SOSeas Web App: An assessment web-based decision support tool to predict dynamic risk of drowning on beaches using deep neural networks. Journal of Operational Oceanography, 2023, 16, 155-174.	0.6	1
5551	Deep learning for geological hazards analysis: Data, models, applications, and opportunities. Earth-Science Reviews, 2021, 223, 103858.	4.0	107
5552	Unsupervised deep learning identifies semantic disentanglement in single inferotemporal face patch neurons. Nature Communications, 2021, 12, 6456.	5.8	40
5553	AskMe: joint individual-level and community-level behavior interaction for question recommendation. World Wide Web, 2022, 25, 49-72.	2.7	5
5555	Ensemble decision approach with dislocated time–frequency representation and pre-trained CNN for fault diagnosis of railway vehicle gearboxes under variable conditions. International Journal of Rail Transportation, 2022, 10, 655-673.	1.8	13
5556	Machine intelligence in non-invasive endocrine cancer diagnostics. Nature Reviews Endocrinology, 2022, 18, 81-95.	4.3	25
5557	Accurate Landmark Localization for Medical Images Using Perturbations. Applied Sciences (Switzerland), 2021, 11, 10277.	1.3	5
5558	Augmenting Osteoporosis Imaging with Machine Learning. Current Osteoporosis Reports, 2021, 19, 699-709.	1.5	1
5559	Worldwide COVID-19 Vaccines Sentiment Analysis Through Twitter Content. Electronic Journal of General Medicine, 2021, 18, em329.	0.3	35
5560	CÃCERES WÃœRSIG, Ingrid y MarÃa JesÃºs FERNÃNDEZ GIL. 2019. La traducciÃ³n literaria a finales del siglo XX y principios del XXI: hacia la disoluciÃ³n de fronteras. Soria: Vertere. MonogrÃ¡ficos de la Revista Herm?neus. CLINA Revista Interdisciplinaria De TraducciÃ³n InterpretaciÃ³n Y ComunicaciÃ³n Intercultural, 2020, 6, 185.	0.0	0
5561	Depreme dayanÄ±klÄ± mimari tasarÄ±mda yapay zeka uygulamalarÄ±: Derin Ã¶ÄŸrenme ve gÃ¶rÃ¼ntÃ¼ iÅŸleme yÃ¶ntemi ile dÃ¼zensiz taÅŸÄ±yÄ±cÄ± sistem tespiti. Journal of the Faculty of Engineering and Architecture of Gazi University, 2020, 35, 2197-2210.	0.3	7
5562	A Novel Two-path Backbone Network for Object Detection. , 2020, , .		1
5563	Adaptive Asynchronous Parallelization of Graph Algorithms. ACM Transactions on Database Systems, 2020, 45, 1-45.	1.5	6
5564	Improved Deep Learning-based Approach for Real-time Plant Species Recognition on the Farm. , 2020, , .		4
5565	Prior knowledge distillation based on financial time series. , 2020, , .		2
5567	Remaining Useful Life Prediction Based on Stacked Sparse Autoencoder and Echo State Network. , 2020, , .		0

#	Article	IF	Citations
5568	Soap: Soaking Capacity Optimization for Multi-Document Summarization. , 2020, , .		0
5569	DisenHAN: Disentangled Heterogeneous Graph Attention Network for Recommendation. , 2020, , .		67
5570	Collective Embedding with Feature Importance: A Unified Approach for Spatiotemporal Network Embedding. , 2020, , .		1
5571	Learning to Profile. , 2020, , .		1
5572	Unsupervised hyperspectral classification based on similarity graphs. , 2020, , .		0
5573	A Review of Deep Learning Techniques Used in Breast Cancer Image Classification. Lecture Notes in Networks and Systems, 2021, , 177-186.	0.5	2
5574	Sales Forecast by Using Deep Rectifier Network. Advances in Intelligent Systems and Computing, 2021, , 378-389.	0.5	1
5575	Use of Deep Learning Approaches in Cancer Diagnosis. Studies in Computational Intelligence, 2021, , 249-267.	0.7	5
5578	Document classification using convolutional neural networks with small window sizes and latent semantic analysis. Web Intelligence, 2020, 18, 239-248.	0.1	2
5579	Improving Biomedical Ontology Matching Using Domain-specific Word Embeddings. , 2020, , .		2
5580	Adaptively-Accumulated Knowledge Transfer for Partial Domain Adaptation. , 2020, , .		19
5581	Momentum-dependence in the infinitesimal Wilsonian renormalization group. Journal of Physics A: Mathematical and Theoretical, 2020, 53, 445004.	0.7	1
5582	Improving word vector model with part‐of‐speech and dependency grammar information. CAAI Transactions on Intelligence Technology, 2020, 5, 276-282.	3.4	5
5583	MTFuzz: fuzzing with a multi-task neural network. , 2020, , .		24
5584	Learning Behavioral Representations of Human Mobility. , 2020, , .		3
5585	Is my sensor sleeping, hibernating, or broken?. , 2020, , .		0
5586	Performance evaluation method of spherical bearing based on correlation and sensitivity analysis and SVM. Journal of Vibroengineering, 2020, 22, 1834-1846.	0.5	1
5587	Interpretable Unsupervised Anomaly Detection For RAN Cell Trace Analysis. , 2020, , .		5

#	Article	IF	Citations
5588	Blockchain Agreement for Self-identification of Online Test Cheating: Improvement of Algorithm Performance. , 2020, , .		1
5589	Toward Learning Machines at a Mother and Baby Unit. Frontiers in Psychology, 2020, 11, 567310.	1.1	2
5590	Efficient clustering for aggregate loads: An unsupervised pretraining based method. Energy, 2020, 210, 118617.	4.5	8
5591	Development of Breast Cancer Detection Model Using Transfer Learning of Residual Neural Network (ResNet-50). American Journal of Science & Engineering, 2020, 1, 30-39.	0.0	5
5592	Ä°nsanÄ±n GÃ¼nlÃ¼k Aktivitelerinin Yeni Bir Veri KÃ¼mesi: Derin Ã–ÄŸrenme Tekniklerini Kullanarak SÄ±nÄ±flandÄ±rma PerformansÄ± Ä°Ã§in KÄ±yaslama SonuÃ§larÄ±. Journal of the Faculty of Engineering and Architecture of Gazi University, 0, , .	0.3	1
5593	On The Radonâ€"Nikodym Machine Learning Parallelization. , 2020, , .		0
5594	An Intrusion Detection Approach Based on Autoencoder and Three-way Decisions. , 2020, , .		0
5595	Variational-autoencoder-based Environment for Interactive Sketch Tutoring Aiming for Kids. , 2020, , .		1
5596	Causal Phenotype Discovery via Deep Networks. AMIA ... Annual Symposium proceedings, 2015, 2015, 677-86.	0.2	10
5597	Doctor AI: Predicting Clinical Events via Recurrent Neural Networks. JMLR Workshop and Conference Proceedings, 2016, 56, 301-318.	1.4	143
5598	Computing low-dimensional representations of speech from socio-auditory structures for phonetic analyses. Journal of Phonetics, 2018, 71, 355-375.	0.6	0
5599	Learning Disentangled Semantic Representation for Domain Adaptation. IJCAI: Proceedings of the Conference, 2019, 2019, 2060-2066.	0.5	0
5600	A Review of Challenges and Opportunities in Machine Learning for Health. AMIA Summits on Translational Science Proceedings, 2020, 2020, 191-200.	0.4	25
5601	Patient Cohort Retrieval using Transformer Language Models. AMIA ... Annual Symposium proceedings, 2020, 2020, 1150-1159.	0.2	0
5602	Inverse Rational Control with Partially Observable Continuous Nonlinear Dynamics. Advances in Neural Information Processing Systems, 2020, 33, 7898-7909.	2.8	1
5603	A Probability Metric-Based Autoencoder for Hyperspectral Unmixing. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-13.	2.7	1
5604	miRe2e: a full end-to-end deep model based on transformers for prediction of pre-miRNAs. Bioinformatics, 2022, 38, 1191-1197.	1.8	10
5605	A Weighted Heterogeneous Graph-Based Dialog System. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 5212-5217.	7.2	7

#	ARTICLE	IF	CITATIONS
5606	Modeling Lengthy Behavioral Log Data for Customer Churn Management: A Representation Learning Approach. SSRN Electronic Journal, 0, , .	0.4	0
5607	Semi-Supervised Structured Subspace Learning for Multi-View Clustering. IEEE Transactions on Image Processing, 2022, 31, 1-14.	6.0	21
5608	Representation learning-based network intrusion detection system by capturing explicit and implicit feature interactions. Computers and Security, 2022, 112, 102537.	4.0	20
5609	Coronary Artery Disease Classification Using Deep Neural Network and Ensemble Models Optimized by Particle Swarm Optimization. International Journal of Applied Metaheuristic Computing, 2021, 13, 1-25.	0.5	1
5610	Artificial Intelligence and Deep Learning of Head and Neck Cancer. Magnetic Resonance Imaging Clinics of North America, 2022, 30, 81-94.	0.6	8
5611	A deep learning predictive model for selective maintenance optimization. Reliability Engineering and System Safety, 2022, 219, 108191.	5.1	37
5612	Mining structure-property linkage in nanoporous materials using an interpretative deep learning approach. Materialia, 2022, 21, 101275.	1.3	3
5613	Human Movement Recognition System Using CW Doppler Radar Sensor with FFT and Convolutional Neural Network. , 2021, , .		7
5614	Human Activity Recognition based on WaveNet. , 2021, , .		0
5615	Prediction and Sensitivity Analysis of Companies' Return on Equity Based on Deep Neural Network. , 2021, , .		2
5616	3D-2D BCNN based Automated Feature Extraction & Classification for Hyperspectral Imaging. , 2021, , .		0
5617	ServeNet-LT: A Normalized Multi-head Deep Neural Network for Long-tailed Web Services Classification. , 2021, , .		5
5619	Intelligent recognition system for viewpoint variations on gait and speech using CNN-CapsNet. International Journal of Intelligent Computing and Cybernetics, 2022, 15, 363-382.	1.6	4
5620	A Multilayer CARU Framework to Obtain Probability Distribution for Paragraph-Based Sentiment Analysis. Applied Sciences (Switzerland), 2021, 11, 11344.	1.3	12
5621	Machining feature recognition based on deep neural networks to support tight integration with 3D CAD systems. Scientific Reports, 2021, 11, 22147.	1.6	18
5623	On the solidification of the manifold of the t-distributed stochastic neighbour embedding for condition classification of machine tools. Engineering Research Express, 2021, 3, 045031.	0.8	0
5624	Personal thermal comfort models using digital twins: Preference prediction with BIM-extracted spatial–temporal proximity data from Build2Vec. Building and Environment, 2022, 207, 108532.	3.0	35
5625	VOVU: A Method for Predicting Generalization in Deep Neural Networks. Mathematical Problems in Engineering, 2021, 2021, 1-10.	0.6	0

#	Article	IF	Citations
5626	Deep Learning for Human Disease Detection, Subtype Classification, and Treatment Response Prediction Using Epigenomic Data. Biomedicines, 2021, 9, 1733.	1.4	8
5627	A data-centric review of deep transfer learning with applications to text data. Information Sciences, 2022, 585, 498-528.	4.0	35
5628	Adaptive Similarity Function with Structural Features of Network Embedding for Missing Link Prediction. Complexity, 2021, 2021, 1-15.	0.9	4
5629	Artificial intelligence and creative activities inside organizational behavior. International Journal of Organizational Analysis, 2023, 31, 1694-1723.	1.6	9
5630	Transfer <scp>learningâ€based</scp> platform for detecting <scp>multiâ€classification</scp> retinal disorders using optical coherence tomography images. International Journal of Imaging Systems and Technology, 2022, 32, 740-752.	2.7	21
5631	Sentiment Analysis of Online Course Evaluation Based on a New Ensemble Deep Learning Mode: Evidence from Chinese. Applied Sciences (Switzerland), 2021, 11, 11313.	1.3	7
5632	Comparison of the Deep Learning Performance for Short-Term Power Load Forecasting. Sustainability, 2021, 13, 12493.	1.6	11
5633	Deep convolutional neural network with random field model for lake ice mapping from Sentinel-1 imagery. International Journal of Remote Sensing, 2021, 42, 9351-9375.	1.3	1
5634	Enhancing the generalizability of predictive models with synergy of data and physics. Measurement Science and Technology, 2022, 33, 034002.	1.4	2
5635	Detection and Classification of Rice Infestation with Rice Leaf Folder (Cnaphalocrocis medinalis) Using Hyperspectral Imaging Techniques. Remote Sensing, 2021, 13, 4587.	1.8	5
5636	The Feasibility of Differentiating Lewy Body Dementia and Alzheimerâ€™s Disease by Deep Learning Using ECD SPECT Images. Diagnostics, 2021, 11, 2091.	1.3	8
5637	A deep learning based trust- and tag-aware recommender system. Neurocomputing, 2022, 488, 557-571.	3.5	43
5638	Honest-but-Curious Nets: Sensitive Attributes of Private Inputs Can Be Secretly Coded into the Classifiers' Outputs. , 2021, , .		11
5639	Review of Image Classification Algorithms Based on Convolutional Neural Networks. Remote Sensing, 2021, 13, 4712.	1.8	144
5640	Deep Learning-Based Time Series Forecasting. Advances in Intelligent Systems and Computing, 2022, , 151-169.	0.5	2
5641	Policy Representation Learning for Multiobjective Reservoir Policy Design With Different Objective Dynamics. Water Resources Research, 2021, 57, e2020WR029329.	1.7	8
5642	Graph Fusion Network for Text Classification. Knowledge-Based Systems, 2022, 236, 107659.	4.0	26
5643	Parallel multi-fusion convolutional neural networks based fault diagnosis of rotating machinery under noisy environments. ISA Transactions, 2022, 128, 545-555.	3.1	20

#	Article	IF	Citations
5644	A State-of-the-Art Survey on Deep Learning Methods and Applications in Bioinformatics. Advances in Intelligent Systems and Computing, 2022, , 765-771.	0.5	0
5645	Generative adversarial networks for modeling reservoirs with permeability anisotropy. IOP Conference Series: Materials Science and Engineering, 2021, 1201, 012066.	0.3	0
5647	Convolutional neural networks predict the onset of paroxysmal atrial fibrillation: Theory and applications. Chaos, 2021, 31, 113119.	1.0	18
5648	Feature Engineering for Motion Classification in Machine Vision. Journal of Physics: Conference Series, 2021, 2115, 012043.	0.3	0
5649	Identification of Enzymes-specific Protein Domain Based on DDE, and Convolutional Neural Network. Frontiers in Genetics, 2021, 12, 759384.	1.1	4
5650	Artificial intelligence in the embryology laboratory: a review. Reproductive BioMedicine Online, 2022, 44, 435-448.	1.1	39
5652	The Computer Intelligent Selection of Scientific Research Subjects Through Ensemble Learning for Large-Scale Data Sources and Deep Neural Network. Journal of Physics: Conference Series, 2021, 2083, 032094.	0.3	0
5653	Representation Learning of Tongue Dynamics for a Silent Speech Interface. IEICE Transactions on Information and Systems, 2021, E104.D, 2209-2217.	0.4	0
5654	Deep Time-Series Clustering: A Review. Electronics (Switzerland), 2021, 10, 3001.	1.8	36
5655	Fault diagnosis based on SPBO-SDAE and transformer neural network for rotating machinery. Measurement: Journal of the International Measurement Confederation, 2022, 188, 110545.	2.5	23
5657	The Applications of Soft Computing Methods for Seepage Modeling: A Review. Water (Switzerland), 2021, 13, 3384.	1.2	6
5658	Predictive accuracy of CNN for cortical oscillatory activity in an acute rat model of parkinsonism. Neural Networks, 2022, 146, 334-340.	3.3	2
5659	Automated identification of vulnerable devices in networks using traffic data and deep learning. International Journal of Information Privacy, Security and Integrity, 2021, 5, 1.	0.1	2
5661	VidAF: A Motion-Robust Model for Atrial Fibrillation Screening From Facial Videos. IEEE Journal of Biomedical and Health Informatics, 2022, 26, 1672-1683.	3.9	9
5662	Interval-Based Remaining Time Prediction for Business Processes. Lecture Notes in Computer Science, 2021, , 34-48.	1.0	2
5663	Keystroke Recognition with the Tapping Sound Recorded by Mobile Phone Microphones. IEEE Transactions on Mobile Computing, 2021, , 1-1.	3.9	0
5664	Morpheme Embedding for Bahasa Indonesia Using Modified Byte Pair Encoding. IEEE Access, 2021, 9, 155699-155710.	2.6	2
5667	Balancing Methods for Multi-label Text Classification with Long-Tailed Class Distribution. , 2021, , .		17

#	Article	IF	Citations
5668	A Novel Intelligent Fault Diagnosis Method for Rolling Bearings Based on Compressed Sensing and Stacked Multi-Granularity Convolution Denoising Auto-Encoder. IEEE Access, 2021, 9, 154777-154787.	2.6	4
5669	Distributed Intelligence for Online Situational Awareness in Power Grids. IEEE Transactions on Power Systems, 2022, 37, 2499-2515.	4.6	4
5671	Reducing Data Complexity Using Autoencoders With Class-Informed Loss Functions. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, 44, 9549-9560.	9.7	10
5672	Scaffolded input promotes atomic organization in the recurrent neural network language model. , 2021, , .		2
5673	Disentangling Generative Factors in Natural Language with Discrete Variational Autoencoders. , 2021, , .		0
5675	Banks' Risk Clustering Using K-Means: A Method Based on Size and Individual & Systemic Risks. SSRN Electronic Journal, 0, , .	0.4	1
5676	A Feature Fusion-Net Using Deep Spatial Context Encoder and Nonstationary Joint Statistical Model for High-Resolution SAR Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-18.	2.7	2
5677	Similar Sports Play Retrieval With Deep Reinforcement Learning. IEEE Transactions on Knowledge and Data Engineering, 2023, 35, 4253-4266.	4.0	2
5678	Neural News Recommendation with Collaborative News Encoding and Structural User Encoding. , 2021, , .		9
5679	Representational Gradient Boosting: Backpropagation in the Space of Functions. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, 44, 10186-10195.	9.7	1
5680	Wavelet Packet Decomposition-Based Multiscale CNN for Fault Diagnosis of Wind Turbine Gearbox. IEEE Transactions on Cybernetics, 2023, 53, 443-453.	6.2	40
5681	Self-Supervised Curriculum Learning for Spelling Error Correction. , 2021, , .		5
5683	A New Explainable Deep Learning Framework for Cyber Threat Discovery in Industrial IoT Networks. IEEE Internet of Things Journal, 2022, 9, 11604-11613.	5.5	25
5684	FUS-Net: U-Net-Based FUS Interference Filtering. IEEE Transactions on Medical Imaging, 2022, 41, 915-924.	5.4	5
5685	Applications of Generative Adversarial Networks in Anomaly Detection: A Systematic Literature Review. IEEE Access, 2021, 9, 161003-161029.	2.6	30
5686	Bi-shifting semantic auto-encoder for zero-shot learning. Electronic Research Archive, 2022, 30, 140-167.	0.4	0
5687	Learning Sentimental and Financial Signals With Normalizing Flows for Stock Movement Prediction. IEEE Signal Processing Letters, 2022, 29, 414-418.	2.1	6
5688	Deep Convolutional Neural Networks Implementation for the Analysis of Urine Culture. Clinical Chemistry, 2022, 68, 574-583.	1.5	9

#	ARTICLE	IF	CITATIONS
5689	Multiscanning Strategy-Based Recurrent Neural Network for Hyperspectral Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-18.	2.7	11
5690	Multimodal deep learning for biomedical data fusion: a review. Briefings in Bioinformatics, 2022, 23, .	3.2	118
5691	Role of Data Augmentation Strategies in Knowledge Distillation for Wearable Sensor Data. IEEE Internet of Things Journal, 2022, 9, 12848-12860.	5.5	6
5692	Epileptic Seizure Prediction from Raw EEG Signal Using Convolutional Neural Network. Lecture Notes in Electrical Engineering, 2021, , 235-244.	0.3	2
5693	EEG-Based Auditory Attention Detection via Frequency and Channel Neural Attention. IEEE Transactions on Human-Machine Systems, 2022, 52, 256-266.	2.5	8
5694	A Mutual Information-Based Disentanglement Framework forÂCross-Modal Retrieval. Lecture Notes in Computer Science, 2021, , 585-596.	1.0	0
5695	LiDAR-Based Remote Sensing of the Vertical Profile of Aerosol Liquid Water Content Using a Machine-Learning Model. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-10.	2.7	1
5696	Multi-Task Learning for Efficient Management of Beyond 5G Radio Access Network Architectures. IEEE Access, 2021, 9, 158892-158907.	2.6	5
5697	Deep Classified Autoencoder for Lithofacies Identification. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-14.	2.7	13
5698	Learning Damage Representations with Sequence-to-Sequence Models. Sensors, 2022, 22, 452.	2.1	2
5699	Generation and interpretation of parsimonious predictive models for load forecasting in smart heating networks. Applied Intelligence, 2022, 52, 9621-9637.	3.3	4
5700	Learning Task-Oriented Communication for Edge Inference: An Information Bottleneck Approach. IEEE Journal on Selected Areas in Communications, 2022, 40, 197-211.	9.7	45
5701	Interpretable machine learning: Fundamental principles and 10 grand challenges. Statistics Surveys, 2022, 16, .	7.3	225
5702	Evaluating Uses of Deep Learning Methods for Causal Inference. IEEE Access, 2022, 10, 2813-2827.	2.6	3
5703	Cardiovascular Applications of Artificial Intelligence in Research, Diagnosis, and Disease Management. Advances in Computational Intelligence and Robotics Book Series, 2022, , 80-127.	0.4	0
5704	A dual-model deep learning method for sleep apnea detection based on representation learning and temporal dependence. Neurocomputing, 2022, 473, 24-36.	3.5	23
5705	Social physics. Physics Reports, 2022, 948, 1-148.	10.3	231
5706	Deep Recursive Embedding for High-Dimensional Data. IEEE Transactions on Visualization and Computer Graphics, 2022, 28, 1237-1248.	2.9	3

#	Article	IF	Citations
5707	A new hybrid method for predicting univariate and multivariate time series based on pattern forecasting. Information Sciences, 2022, 586, 611-627.	4.0	33
5708	Deep unsupervised methods towards behavior analysis in ubiquitous sensor data. Internet of Things (Netherlands), 2022, 17, 100486.	4.9	0
5709	Deep autoencoder-based fuzzy c-means for topic detection. Array, 2022, 13, 100124.	2.5	2
5710	Near-Real-Time Identification of Seismic Damage Using Unsupervised Deep Neural Network. Journal of Engineering Mechanics - ASCE, 2022, 148, .	1.6	8
5711	A method for fault detection in multi-component systems based on sparse autoencoder-based deep neural networks. Reliability Engineering and System Safety, 2022, 220, 108278.	5.1	25
5712	SIMPA: Statement-to-Item Matching Personality Assessment from text. Future Generation Computer Systems, 2022, 130, 114-127.	4.9	5
5714	EXPLORING THE RELATIONSHIPS BETWEEN SCATTERING PHYSICS AND AUTO-ENCODER LATENT-SPACE EMBEDDING. , 2020, , .		0
5715	Vizualization of SAR Categories Using Complex Valued Deep Learning. , 2020, , .		0
5716	Partial Fingerprint Verification via Spatial Transformer Networks. , 2020, , .		11
5717	Research on 3D Object Recognition Based on Feature Level Fusion. , 2020, , .		0
5718	Exploiting Non-conventional DVFS on GPUs: Application to Deep Learning. , 2020, , .		1
5719	Fast Training of Deep Neural Networks Robust to Adversarial Perturbations. , 2020, , .		1
5720	Distance-Based Embedding Learning for Remaining Useful Life Estimation. , 2020, , .		0
5721	COVID-19 Detection Using Deep Learning Methods. , 2020, , .		39
5722	Separation of the Latent Representations into "Identity" and "Expression" without Emotional Labels. , 2020, , .		0
5723	Interpretable Factors in scRNA-seq Data with Disentangled Generative Models. , 2020, , .		0
5724	Transfer Learning of the Expressivity Using FLOW Metric Learning in Multispeaker Text-to-Speech Synthesis. , 0, , .		3
5725	A Multi Biometric System Based On The Right Iris And The Left Iris Using The Combination Of Convolutional Neural Networks. , 2020, , .		6

#	Article	IF	Citations
5726	Probabilistic Features on Simplex Manifold in Predictive Data Modelling. , 2020, , .		0
5727	Feature Engineering for Grid-based Multi-Floor Indoor Localisation using Machine Learning. , 2020, , .		3
5728	Real-Time Powerline Detection System for an Unmanned Aircraft System. , 2020, , .		11
5729	Skeleton-based explainable human activity recognition for child gross-motor assessment. , 2020, , .		6
5730	Economic Worth-Aware Word Embeddings. , 2020, , .		0
5731	Intelligent Fault Diagnosis with Deep Architecture. , 2020, , .		1
5732	Deterministic Atomic Buffering. , 2020, , .		4
5733	Face Synthesis via User Manipulation of Disentangled Latent Representation. , 2020, , .		0
5734	Emotion Recognition for Romanian Language using Deep Learning with DL-CNN convolutional layers. , 2020, , .		1
5735	Queueing Inference for Process Performance Analysis with Missing Life-Cycle Data. , 2020, , .		4
5736	Personalised Visual Art Recommendation by Learning Latent Semantic Representations. , 2020, , .		2
5737	Concept for Safety-Related Development of Deep Neural Networks in the Automotive. , 2020, , .		1
5738	Asymmetric Semi-Nonnegative Matrix Factorization for Directed Graph Clustering. , 2020, , .		2
5739	Sing Network Slicing And NFV Technology. , 2020, , .		1
5740	Inverted Dirichlet and Related Distributions Based Feature Mapping for Data Classification. , 2020, , .		0
5741	ISOMAP-KL: a parametric approach for unsupervised metric learning. , 2020, , .		4
5742	Ordinal-Content VAE: Isolating Ordinal-Valued Content Factors in Deep Latent Variable Models. , 2020, , .		1
5743	Self-Attentive Classification-Based Anomaly Detection in Unstructured Logs. , 2020, , .		54

#	Article	IF	Citations
5744	Gated Variational AutoEncoders: Incorporating Weak Supervision to Encourage Disentanglement. , 2020, , .		2
5745	Anomaly Detection for Mixed Packet Sequences. , 2020, , .		0
5746	Ethical Concerns: An overview of Artificial Intelligence System Development and Life Cycle. , 2020, , .		0
5747	FM-based Supervised Learning for Categorical Data Classification in Manufacturing Process. , 2020, , .		0
5748	Machine Learning Based Plant Diseases Detection: A Review. , 2020, , .		7
5749	Mobile Phones Know Your Keystrokes through the Sounds from Finger's Tapping on the Screen. , 2020, , .		8
5750	Features transfer learning for image and video recognition tasks. , 0, , .		0
5751	Transfer Learning and Fine-Tuning for Deep Learning-Based Tea Diseases Detection on Small Datasets. , 2020, , .		7
5752	Learning Disentangled Representation of Residential Power Demand Peak via Convolutional-Recurrent Triplet Network. , 2020, , .		1
5753	Transfer Learning for Macroeconomic Forecasting. , 2020, , .		1
5754	Data Driven Network Slicing from Core to RAN for 5G Broadcasting Services. , 2020, , .		0
5755	Cryptic Information Transfer in Differently-Trained Recurrent Neural Networks. , 2020, , .		5
5756	Hybroid: Toward Android Malware Detection and Categorization with Program Code and Network Traffic. Lecture Notes in Computer Science, 2021, , 259-278.	1.0	5
5757	ControlVAE: Tuning, Analytical Properties, and Performance Analysis. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, 44, 9285-9297.	9.7	4
5759	An ECG Biometric System Using Hierarchical LSTM With Attention Mechanism. IEEE Sensors Journal, 2022, 22, 6052-6061.	2.4	11
5760	Adaptive Contrast for Image Regression in Computer-Aided Disease Assessment. IEEE Transactions on Medical Imaging, 2022, 41, 1255-1268.	5.4	9
5761	Disentangled Variational Information Bottleneck for Multiview Representation Learning. Lecture Notes in Computer Science, 2021, , 91-102.	1.0	2
5763	5G Use in Healthcare: The Future is Present. Journal of the Society of Laparoendoscopic Surgeons, 2021, 25, e2021.00064.	0.5	26

#	Article	IF	Citations
5764	Applied Machine Learning in Operations Management. Springer Series in Supply Chain Management, 2022, , 189-222.	0.5	14
5768	Word-Level Embeddings for Cross-Task Transfer Learning in Speech Processing. , 2021, , .		3
5769	On the Fairness of Generative Adversarial Networks (GANs). , 2021, , .		2
5770	Disentangled Representations for Arabic Dialect Identification based on Supervised Clustering with Triplet Loss. , 2021, , .		1
5771	Multi-Sensor Fusion Framework using Discriminative Autoencoders. , 2021, , .		0
5772	Towards Model-informed Precision Dosing with Expert-in-the-loop Machine Learning. , 2021, , .		1
5774	End-to-end speech recognition from raw speech: Multi time-frequency resolution CNN architecture for efficient representation learning. , 2021, , .		2
5775	CLRGaze: Contrastive Learning of Representations for Eye Movement Signals. , 2021, , .		2
5776	Identifying Valid Robot Configurations via a Deep Learning Approach. , 2021, , .		1
5777	Representation-Learning-Based Fusion Model for Scene Classification Using Convolutional Neural Network (CNN) and Pre-trained CNNs as Feature Extractors. Advances in Intelligent Systems and Computing, 2022, , 631-643.	0.5	1
5778	Low Dimensional State Representation Learning with Robotics Priors in Continuous Action Spaces. , 2021, , .		2
5779	First Steps Towards Self-Supervised Pretraining of the 12-Lead ECG. , 2021, , .		5
5780	Acceleration of Actor-Critic Deep Reinforcement Learning for Visual Grasping by State Representation Learning Based on a Preprocessed Input Image. , 2021, , .		3
5781	Performance Analysis of Deep Neural Networks for Tomato Leaf Disease Classification with Server-Based Computing. , 2021, , .		5
5782	A Multi-Head Relevance Weighting Framework for Learning Raw Waveform Audio Representations. , 2021, , .		1
5783	Investigation of Convolutional Neural Networks in the Tasks of Medical Images Analysis and Classification of Breast Tumors. , 2021, , .		0
5784	Deep Learning on Cryptocurrency - Challenges Processing GPU and CPU Architectures. , 2021, , .		0
5785	Disentangled Speech Representation Learning Based on Factorized Hierarchical Variational Autoencoder with Self-Supervised Objective. , 2021, , .		4

#	Article	IF	Citations
5786	Training Deep Networks from Zero to Hero: avoiding pitfalls and going beyond. , 2021, , .		3
5787	Machine Learning in Gaze-Based Interaction: A Survey of Eye Movements Events Detection. , 2021, , .		4
5788	The Role of Explanations in Human-Machine Learning. , 2021, , .		0
5789	Feasibility Analysis of Symbolic Representation for Single-Channel EEG-Based Sleep Stages. , 2021, 2021, 5928-5931.		1
5790	In-situ monitoring of selective laser melting based on heterogeneous integration of acoustic signals and images. , 2021, , .		1
5791	Comment Text Grading for Chinese Graduate Academic Dissertation Using Attention Convolutional Neural Networks. , 2021, , .		1
5792	Exploiting Features with Split-and-Share Module. Electronics (Switzerland), 2022, 11, 235.	1.8	0
5794	Analysis of Residual Current Flows in Inverter Based Energy Systems Using Machine Learning Approaches. Energies, 2022, 15, 582.	1.6	9
5795	Active Gradual Domain Adaptation: Dataset and Approach. IEEE Transactions on Multimedia, 2022, 24, 1210-1220.	5.2	9
5796	Medical equipment recognition using deep transfer learning. Journal of Intelligent and Fuzzy Systems, 2022, , 1-10.	0.8	0
5797	Adaptive Neuro-Fuzzy Model for Vehicle Theft Prediction and Recovery. Communications in Computer and Information Science, 2022, , 20-34.	0.4	1
5798	Deep Learning Based Anomaly Detection for Muti-dimensional Time Series: A Survey. Communications in Computer and Information Science, 2022, , 71-92.	0.4	6
5799	Bayesian multiscale deep generative model for the solution of high-dimensional inverse problems. Journal of Computational Physics, 2022, 455, 111008.	1.9	11
5800	Learning Site-Specific Probing Beams for Fast mmWave Beam Alignment. IEEE Transactions on Wireless Communications, 2022, 21, 5785-5800.	6.1	14
5801	Toward Performing Image Classification and Object Detection With Convolutional Neural Networks in Autonomous Driving Systems: A Survey. IEEE Access, 2022, 10, 14076-14119.	2.6	16
5802	Intelligent resource sharing to enable quality of service for network clients: the trade-off between accuracy and complexity. Computing (Vienna/New York), 2022, 104, 1219-1231.	3.2	2
5803	Constellation-based identification of linear and nonlinear OSNR using machine learning: a study of link-agnostic performance. Optics Express, 2022, 30, 2693.	1.7	4
5804	The Importance of Digital Transformation in International Business. Sustainability, 2022, 14, 834.	1.6	29

#	ARTICLE	IF	CITATIONS
5805	Personalized next-best action recommendation with multi-party interaction learning for automated decision-making. PLoS ONE, 2022, 17, e0263010.	1.1	6
5806	Network representation learning method embedding linear and nonlinear network structures. Semantic Web, 2022, 13, 511-526.	1.1	2
5807	An Adaptive, Context-Aware, and Stacked Attention Network-Based Recommendation System to Capture Usersâ€™ Temporal Preference. IEEE Transactions on Knowledge and Data Engineering, 2023, 35, 3404-3418.	4.0	2
5808	Artificial Neural Networks and Deep Learning Techniques Applied to Radar Target Detection: A Review. Electronics (Switzerland), 2022, 11, 156.	1.8	19
5809	Multiscale similarity ensemble framework for remaining useful life prediction. Measurement: Journal of the International Measurement Confederation, 2022, 188, 110565.	2.5	30
5810	Network intrusion detection: a comparative study of four classifiers using the NSL-KDD and KDDâ€™99 datasets. Journal of Physics: Conference Series, 2022, 2161, 012043.	0.3	8
5811	Intelligent Traffic Management in Next-Generation Networks. Future Internet, 2022, 14, 44.	2.4	11
5812	Visual Servoing in Autoencoder Latent Space. IEEE Robotics and Automation Letters, 2022, 7, 3234-3241.	3.3	8
5813	Deep graph feature learning-based diagnosis approach for rotating machinery using multi-sensor data. Journal of Intelligent Manufacturing, 2023, 34, 1965-1974.	4.4	13
5814	Research on User Identity Authentication Based on Online Behavior Similarity. Communications in Computer and Information Science, 2022, , 267-280.	0.4	0
5815	Dimensionality reduction. , 2022, , 93-108.		0
5816	Uncovering Flooding Mechanisms Across the Contiguous United States Through Interpretive Deep Learning on Representative Catchments. Water Resources Research, 2022, 58, .	1.7	54
5817	Exploring Bidirectional Performance of Hotel Attributes through Online Reviews Based on Sentiment Analysis and Kano-IPA Model. Applied Sciences (Switzerland), 2022, 12, 692.	1.3	12
5819	Effective scheduling algorithm for load balancing in fog environment using CNN and MPSO. Knowledge and Information Systems, 2022, 64, 773-797.	2.1	26
5820	A Review of the Machine Learning Algorithms for Covid-19 Case Analysis. IEEE Transactions on Artificial Intelligence, 2023, 4, 44-59.	3.4	27
5821	Top-Down Machine Learning-Based Architecture for Cyberattacks Identification and Classification in IoT Communication Networks. Frontiers in Big Data, 2021, 4, 782902.	1.8	20
5822	Neural Circuits for Dynamics-Based Segmentation of Time Series. Neural Computation, 2022, 34, 891-938.	1.3	3
5823	Analysis and processing of infant cry for diagnosis purposes. , 2022, , 351-374.		0

#	Article	IF	Citations
5824	Disentangling Task-Oriented Representations for Unsupervised Domain Adaptation. IEEE Transactions on Image Processing, 2022, 31, 1012-1026.	6.0	7
5825	Data Labeling Impact onÂDeep Learning Models inÂDigital Pathology: aÂBreast Cancer Case Study. Studies in Autonomic, Data-driven and Industrial Computing, 2022, , 117-129.	0.4	2
5826	Generalized radiograph representation learning via cross-supervision between images and free-text radiology reports. Nature Machine Intelligence, 2022, 4, 32-40.	8.3	29
5827	Direct feature extraction from two-dimensional X-ray diffraction images of semiconductor thin films for fabrication analysis. Science and Technology of Advanced Materials Methods, 2022, 2, 23-37.	0.4	1
5828	The Dark Machines Anomaly Score Challenge: Benchmark Data and Model Independent Event Classification for the Large Hadron Collider. SciPost Physics, 2022, 12, .	1.5	43
5829	Anomaly detection, classification and CEP with ML methods. , 2022, , 193-233.		2
5830	3D hand pose estimation from a single RGB image through semantic decomposition of VAE latent space. Pattern Analysis and Applications, 2022, 25, 157-167.	3.1	3
5831	Entropy of Artificial Intelligence. Universe, 2022, 8, 53.	0.9	1
5833	Mixing Consistent Deep Clustering. Lecture Notes in Computer Science, 2022, , 124-137.	1.0	1
5834	A Localization Approach Based on Omnidirectional Vision and Deep Learning. Lecture Notes in Electrical Engineering, 2022, , 226-246.	0.3	1
5836	Exploring the Intrinsic Probability Distribution for Hyperspectral Anomaly Detection. Remote Sensing, 2022, 14, 441.	1.8	3
5837	USMD: UnSupervised Misbehaviour Detection for Multi-Sensor Data. IEEE Transactions on Dependable and Secure Computing, 2023, 20, 724-739.	3.7	10
5838	Deconfounded classification by an intervention approach. International Journal of Machine Learning and Cybernetics, 0, , 1.	2.3	0
5839	Convolutional neural networks ensembles through single-iteration optimization. Soft Computing, 2022, 26, 3871-3882.	2.1	2
5840	Visual Relationship Detection: A Survey. IEEE Transactions on Cybernetics, 2022, 52, 8453-8466.	6.2	10
5841	Ensemble learning: a bidirectional framework for designing data-driven THz composite metamaterials. Journal of the Optical Society of America B: Optical Physics, 2022, 39, 835.	0.9	3
5842	Deep learning for biosignal control: insights from basic to real-time methods with recommendations. Journal of Neural Engineering, 2022, 19, 011003.	1.8	10
5843	Natural computing and unsupervised learning methods in smart healthcare data-centric operations. , 2022, , 165-190.		3

#	Article	IF	Citations
5844	Effective prediction and resource allocation method (EPRAM) in fog computing environment for smart healthcare system. Multimedia Tools and Applications, 2022, 81, 8235-8258.	2.6	31
5845	Object detection method for ship safety plans using deep learning. Ocean Engineering, 2022, 246, 110587.	1.9	13
5846	A graph-matching approach for cross-view registration of over-view and street-view based point clouds. ISPRS Journal of Photogrammetry and Remote Sensing, 2022, 185, 2-15.	4.9	8
5847	Deep learning-based person re-identification methods: A survey and outlook of recent works. Image and Vision Computing, 2022, 119, 104394.	2.7	49
5848	Benchmarking machine learning methods for modeling physical properties of ionic liquids. Journal of Molecular Liquids, 2022, 351, 118616.	2.3	24
5849	RHMC: Modeling consistent information from deep multiple views via Regularized and Hybrid Multiview Coding. Knowledge-Based Systems, 2022, 241, 108201.	4.0	6
5850	Financial Fraud: A Review of Anomaly Detection Techniques and Recent Advances. Expert Systems With Applications, 2022, 193, 116429.	4.4	80
5851	A Deep Learning Approach for Basal Cell Carcinomas and Bowenâ€™s Disease Recognition in Dermatopathology Image. Journal of Biomaterials and Tissue Engineering, 2022, 12, 879-887.	0.0	2
5852	Generative adversarial learning for improved data efficiency in underwater target classification. Engineering Science and Technology, an International Journal, 2022, 30, 101043.	2.0	5
5853	Reframing Neural Networks: Deep Structure in Overcomplete Representations. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2023, 45, 964-979.	9.7	0
5854	SigRep: Toward Robust Wearable Emotion Recognition With Contrastive Representation Learning. IEEE Access, 2022, 10, 18105-18120.	2.6	23
5855	A survey of computational methods for iconic image analysis. Digital Scholarship in the Humanities, 2022, 37, 1316-1338.	0.4	4
5856	ITSA-KNN: Feature Selection Model Based on Improved Tree-Seed Algorithm and K-Nearest Neighbor for Network Intrusion Detection. Lecture Notes in Networks and Systems, 2022, , 1-13.	0.5	2
5857	Model Behavior Preserving for Class-Incremental Learning. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 7529-7540.	7.2	6
5858	Prediction Model for Pancreatic Cancerâ€"A Population-Based Study from NHIRD. Cancers, 2022, 14, 882.	1.7	12
5859	Efficient Out-of-Distribution Detection Using Latent Space of β-VAE for Cyber-Physical Systems. ACM Transactions on Cyber-Physical Systems, 2022, 6, 1-34.	1.9	13
5860	GuidedWalk. World Wide Web, 2022, 25, 2323-2345.	2.7	1
5861	Contributed Session II: Perceptual brightness scales in a White's effect stimulus are not captured by multiscale spatial filtering models of brightness perception. Journal of Vision, 2022, 22, 20.	0.1	2

#	Article	IF	Citations
5862	A Deep Generative Approach to Conditional Sampling. Journal of the American Statistical Association, 0, , 1-12.	1.8	4
5863	Deep Learning and Its Applications in Computational Pathology. BioMedInformatics, 2022, 2, 159-168.	1.0	7
5864	Machine learning based predictive model for the analysis of sequence activity relationships using protein spectra and protein descriptors. Journal of Biomedical Informatics, 2022, 128, 104016.	2.5	3
5865	Establishment of a Knowledgeâ€andâ€Dataâ€Driven Artificial Intelligence System with Robustness and Interpretability in Laboratory Medicine. Advanced Intelligent Systems, 2022, 4, .	3.3	3
5866	Geometry of sequence working memory in macaque prefrontal cortex. Science, 2022, 375, 632-639.	6.0	74
5867	New Opportunity: Machine Learning for Polymer Materials Design and Discovery. Advanced Theory and Simulations, 2022, 5, .	1.3	44
5868	Anomaly Detection for Physics Analysis and Less Than Supervised Learning. , 2022, , 85-112.		0
5869	Deep learning for drug repurposing: Methods, databases, and applications. Wiley Interdisciplinary Reviews: Computational Molecular Science, 2022, 12, .	6.2	48
5870	Deep learning based dual encoder retrieval model for citation recommendation. Technological Forecasting and Social Change, 2022, 177, 121545.	6.2	9
5875	Variational Disentanglement for Rare Event Modeling. Proceedings of the AAAI Conference on Artificial Intelligence, 2021, 35, 10469-10477.	3.6	0
5876	Increase the speed of the DQN learning process with the Eligibility Traces. Journal of Control, 2021, 14, 13-23.	0.1	0
5877	A Progressive and Cross-Domain Deep Transfer Learning Framework for Wrist Fracture Detection. Journal of Artificial Intelligence and Soft Computing Research, 2021, 12, 101-120.	3.5	7
5878	A Novel Unsupervised Learning Method for Intrusion Detection in Software-Defined Networks. EAI/Springer Innovations in Communication and Computing, 2022, , 103-117.	0.9	3
5880	AIM in Surgical Pathology. , 2022, , 521-538.		0
5881	Universal Consistency of Deep Convolutional Neural Networks. IEEE Transactions on Information Theory, 2022, 68, 4610-4617.	1.5	7
5883	A physics-inspired neural network to solve partial differential equations â€“ application in diffusion-induced stress. Physical Chemistry Chemical Physics, 2022, 24, 7937-7949.	1.3	7
5884	Advanced pattern recognition tools for disease diagnosis. , 2022, , 195-229.		0
5885	Unsupervised Spectralâ€“Spatial Semantic Feature Learning for Hyperspectral Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-14.	2.7	16

#	ARTICLE	IF	CITATIONS
5886	Machine Learning Technology and Its Current Implementation in Agriculture. Springer Optimization and Its Applications, 2022, , 41-73.	0.6	1
5887	A Novel Wind Turbine Fault Diagnosis Based on Pca-Cs and Lenet-R with Small-Scale Data. SSRN Electronic Journal, 0, , .	0.4	0
5889	PointGLR: Unsupervised Structural Representation Learning of 3D Point Clouds. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, PP, 1-1.	9.7	3
5891	Random Fourier Feature-Based Deep Learning for Wireless Communications. IEEE Transactions on Cognitive Communications and Networking, 2022, 8, 468-479.	4.9	9
5892	Interest Points Analysis for Internet Forum Based on Long-Short Windows Similarity. Computers, Materials and Continua, 2022, 72, 3247-3267.	1.5	0
5893	Local Latent Representation Based on Geometric Convolution for Particle Data Feature Exploration. IEEE Transactions on Visualization and Computer Graphics, 2023, 29, 3354-3367.	2.9	2
5894	Causal Disentanglement for Semantic-Aware Intent Learning in Recommendation. IEEE Transactions on Knowledge and Data Engineering, 2023, 35, 9836-9849.	4.0	9
5895	Do Neural Network Weights Account for Classes Centers?. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 8815-8824.	7.2	10
5897	SNR Enhancement for Multi-TE MRSI Using Joint Low-Dimensional Model and Spatial Constraints. IEEE Transactions on Biomedical Engineering, 2022, 69, 3087-3097.	2.5	1
5898	Improving Deep Reinforcement Learning with Mirror Loss. IEEE Transactions on Games, 2022, , 1-1.	1.2	0
5899	Unsupervised Image Decomposition with Phase-Correlation Networks. , 2022, , .		3
5900	Semantic Network Interpretation. , 2022, , .		0
5901	Self-Supervised Motion Perception for Spatiotemporal Representation Learning. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 9832-9846.	7.2	3
5903	An Improved Deep Learning Model for Automated Detection of BBB Using S-T Spectrograms of Smoothed VCG Signal. IEEE Sensors Journal, 2022, 22, 8830-8837.	2.4	11
5904	Bilinear Scoring Function Search for Knowledge Graph Learning. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2023, 45, 1458-1473.	9.7	6
5905	Multi-layer Perceptrons. Texts in Computer Science, 2022, , 53-124.	0.5	23
5906	Introduction to machine learning techniques: An optical communication's perspective. , 2022, , 1-42.		1
5907	Machine Learning Methods for Predicting *League of Legends* Game Outcome. IEEE Transactions on Games, 2023, 15, 171-181.	1.2	3

#	Article	IF	Citations
5908	Incorporating Visual Information in Audio Based Self-Supervised Speaker Recognition. IEEE/ACM Transactions on Audio Speech and Language Processing, 2022, 30, 1422-1435.	4.0	6
5909	Signaling repurposable drug combinations against COVID-19 by developing the heterogeneous deep herb-graph method. Briefings in Bioinformatics, 2022, 23, .	3.2	1
5910	Complex-Valued Iris Recognition Network. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2023, 45, 182-196.	9.7	14
5911	Estimating the Efficiency of Machine Learning Algorithms in Predicting Seizure With Convolutional Neural Network Architecture. Advances in Computational Intelligence and Robotics Book Series, 2022, , 119-133.	0.4	1
5912	Heterogeneous Domain Adaptation With Adversarial Neural Representation Learning: Experiments on E-Commerce and Cybersecurity. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2023, 45, 1862-1875.	9.7	3
5913	Disentangled Representation Learning for Recommendation. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2023, 45, 408-424.	9.7	14
5914	Electrical Energy Consumption Prediction Using LSTM-RNN. Lecture Notes on Data Engineering and Communications Technologies, 2022, , 365-384.	0.5	2
5915	Plasticity-Stability Preserving Multi-Task Learning for Remote Sensing Image Retrieval. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-16.	2.7	11
5916	Non-Smooth Regularization: Improvement to Learning Framework Through Extrapolation. IEEE Transactions on Signal Processing, 2022, 70, 1213-1223.	3.2	2
5917	Data Stream Classification by Using Stacked CARU Networks. , 2022, , .		4
5918	Morph Detection Enhanced by Structured Group Sparsity. , 2022, , .		7
5919	A Novel Attention-Based Multi-Modal Modeling Technique on Mixed Type Data for Improving TFT-LCD Repair Process. IEEE Access, 2022, 10, 33026-33036.	2.6	2
5920	Learning Hierarchical Variational Autoencoders With Mutual Information Maximization for Autoregressive Sequence Modeling. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2023, 45, 1949-1962.	9.7	2
5921	iCVI-ARTMAP: Using Incremental Cluster Validity Indices and Adaptive Resonance Theory Reset Mechanism to Accelerate Validation and Achieve Multiprototype Unsupervised Representations. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 9757-9770.	7.2	4
5922	Creativity of Deep Learning: Conceptualization and Assessment. , 2022, , .		6
5923	Bridging Gap between Image Pixels and Semantics via Supervision: A Survey. APSIPA Transactions on Signal and Information Processing, 2022, 11, .	2.6	2
5924	Deep Learning Techniques for Financial Fraud Detection. , 2022, , .		0
5925	One-Class Learned Encoder-Decoder Network with Adversarial Context Masking for Novelty Detection. , 2022, , .		6

#	Article	IF	Citations
5926	GraphIQA: Learning Distortion Graph Representations for Blind Image Quality Assessment. IEEE Transactions on Multimedia, 2023, 25, 2912-2925.	5.2	31
5927	Feature Learning by Least Generalization. Lecture Notes in Computer Science, 2022, , 193-202.	1.0	1
5928	A Deep Autoencoder With Novel Adaptive Resolution Reconstruction Loss for Disentanglement of Concepts in Face Images. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-13.	2.4	6
5929	Disease Diagnosis withÂMedical Imaging Using Deep Learning. Lecture Notes in Networks and Systems, 2022, , 198-208.	0.5	1
5930	Learning Dynamic App Usage Graph for Next Mobile App Recommendation. IEEE Transactions on Mobile Computing, 2023, 22, 4742-4753.	3.9	2
5931	Few Shot Model based on Weight Imprinting with Multiple Projection Head. , 2022, , .		0
5932	Interpretable Learning Model for Lower Dimensional Feature Space: A Case study with Brown Spot Detection in Rice Leaf. , 2022, , .		1
5933	NeuCrowd: neural sampling network for representation learning with crowdsourced labels. Knowledge and Information Systems, 2022, 64, 995-1012.	2.1	0
5935	Integration of Multimodal Data from Disparate Sources for Identifying Disease Subtypes. Biology, 2022, 11, 360.	1.3	5
5936	End-to-end optimization of prosthetic vision. Journal of Vision, 2022, 22, 20.	0.1	19
5937	Prediction of Loan Rate for Mortgage Data: Deep Learning Versus Robust Regression. Computational Economics, 2023, 61, 1137-1150.	1.5	3
5938	Three-body renormalization group limit cycles based on unsupervised feature learning. Machine Learning: Science and Technology, 2022, 3, 025003.	2.4	1
5939	Evaluation and interpretation of convolutional long short-term memory networks for regional hydrological modelling. Hydrology and Earth System Sciences, 2022, 26, 795-825.	1.9	13
5940	On the Construction of Group Equivariant Non-Expansive Operators via Permutants and Symmetric Functions. Frontiers in Artificial Intelligence, 2022, 5, 786091.	2.0	6
5941	Unsupervised learning of platform motion in synthetic aperture sonar. Journal of the Acoustical Society of America, 2022, 151, 1104-1114.	0.5	6
5942	Causality for Machine Learning. , 2022, , 765-804.		49
5943	A survey of multimodal deep generative models. Advanced Robotics, 2022, 36, 261-278.	1.1	18
5944	Efficient stability prediction of milling process with arbitrary tool-holder combinations based on transfer learning. Journal of Intelligent Manufacturing, 2023, 34, 2263-2279.	4.4	6

#	ARTICLE	IF	CITATIONS
5945	Artificial Intelligence and Reduced SMEs' Business Risks. A Dynamic Capabilities Analysis During the COVID-19 Pandemic. Information Systems Frontiers, 2022, 24, 1223-1247.	4.1	33
5946	An interpretable CNN model for classification of partial discharge waveforms in 3D-printed dielectric samples with different void sizes. Neural Computing and Applications, 2022, 34, 11739-11750.	3.2	7
5947	Iterative Multiple Bounding-Box Refinements for Visual Tracking. Journal of Imaging, 2022, 8, 61.	1.7	1
5948	A Survey on Semi-supervised Learning for Delayed Partially Labelled Data Streams. ACM Computing Surveys, 2023, 55, 1-42.	16.1	8
5949	Quantifying Depression-Related Language on Social Media During the COVID-19 Pandemic. International Journal of Population Data Science, 2020, 5, 1716.	0.1	0
5950	Survey of Deep Learning Paradigms for Speech Processing. Wireless Personal Communications, 2022, 125, 1913-1949.	1.8	43
5951	Class-Incremental Learning on Video-Based Action Recognition by Distillation of Various Knowledge. Computational Intelligence and Neuroscience, 2022, 2022, 1-12.	1.1	1
5952	Device Classification for Industrial Control Systems Using Predicted Traffic Features. Frontiers in Computer Science, 2022, 4, .	1.7	1
5953	Self-supervised Metric Learning in Multi-View Data: A Downstream Task Perspective. Journal of the American Statistical Association, 2023, 118, 2454-2467.	1.8	0
5954	A New Malware Detection Method Based on VMCADR in Cloud Environments. Security and Communication Networks, 2022, 2022, 1-13.	1.0	2
5955	Machine learning with domain knowledge for predictive quality monitoring in resistance spot welding. Journal of Intelligent Manufacturing, 2022, 33, 1139-1163.	4.4	46
5956	Landslide susceptibility mapping using CNN-1D and 2D deep learning algorithms: comparison of their performance at Asir Region, KSA. Bulletin of Engineering Geology and the Environment, 2022, 81, 1.	1.6	35
5957	Standardized Evaluation Method of Pronunciation Teaching Based on Deep Learning. Security and Communication Networks, 2022, 2022, 1-11.	1.0	4
5958	DEFT: distilling entangled factors by preventing information diffusion. Machine Learning, 0, , 1.	3.4	0
5959	Investigating Shape Variation Using Generalized Procrustes Analysis and Machine Learning. Applied Sciences (Switzerland), 2022, 12, 3158.	1.3	2
5960	Variational restricted Boltzmann machines to automated anomaly detection. Neural Computing and Applications, 2022, 34, 15207-15220.	3.2	10
5961	Socially Enhanced Situation Awareness from Microblogs Using Artificial Intelligence: A Survey. ACM Computing Surveys, 2023, 55, 1-38.	16.1	4
5963	A Renovated CNN-Based Model Enhances KGC Task Performance. Wireless Communications and Mobile Computing, 2022, 2022, 1-12.	0.8	2

#	ARTICLE	IF	CITATIONS
5964	Generalized transformer in fault diagnosis of Tennessee Eastman process. Neural Computing and Applications, 2022, 34, 8575-8585.	3.2	9
5965	Application of machine learning for advanced material prediction and design. EcoMat, 2022, 4, .	6.8	27
5966	Electrically driven reprogrammable phase-change metasurface reaching 80% efficiency. Nature Communications, 2022, 13, 1696.	5.8	125
5967	On the role of nonlinear correlations in reduced-order modelling. Journal of Fluid Mechanics, 2022, 938, .	1.4	24
5968	SSGraphCPI: A Novel Model for Predicting Compound-Protein Interactions Based on Deep Learning. International Journal of Molecular Sciences, 2022, 23, 3780.	1.8	12
5969	A neural network with nuisance attribute projection: a novel method for bearing fault diagnosis under variable speed. Measurement Science and Technology, 2022, 33, 075010.	1.4	3
5970	Applications of Artificial Intelligence in Myopia: Current and Future Directions. Frontiers in Medicine, 2022, 9, 840498.	1.2	6
5971	Human Action Recognition and Prediction: A Survey. International Journal of Computer Vision, 2022, 130, 1366-1401.	10.9	173
5972	Minimal cross-trial generalization in learning the representation of an odor-guided choice task. PLoS Computational Biology, 2022, 18, e1009897.	1.5	2
5973	Detecting Duplicate Questions in Stack Overflow via Source Code Modeling. International Journal of Software Engineering and Knowledge Engineering, 2022, 32, 227-255.	0.6	3
5974	A new pairwise deep learning feature for environmental microorganism image analysis. Environmental Science and Pollution Research, 2022, 29, 51909-51926.	2.7	30
5976	Mixing up contrastive learning: Self-supervised representation learning for time series. Pattern Recognition Letters, 2022, 155, 54-61.	2.6	23
5977	A rare failure detection model for aircraft predictive maintenance using a deep hybrid learning approach. Neural Computing and Applications, 2023, 35, 2991-3009.	3.2	6
5978	SemanticCAP: Chromatin Accessibility Prediction Enhanced by Features Learning from a Language Model. Genes, 2022, 13, 568.	1.0	1
5979	Speech Localization at Low Bitrates in Wireless Acoustics Sensor Networks. Frontiers in Signal Processing, 2022, 2, .	1.2	0
5980	A Conspectus of Deep Learning Techniques for Single-Image Super-Resolution. Pattern Recognition and Image Analysis, 2022, 32, 11-32.	0.6	3
5981	Homological assessment of data representations. , 2022, , .		0
5982	Manifold-Based Multi-Deep Belief Network for Feature Extraction of Hyperspectral Image. Remote Sensing, 2022, 14, 1484.	1.8	14

#	ARTICLE	IF	CITATIONS
5983	Online Reviews Sentiment Analysis and Product Feature Improvement with Deep Learning. ACM Transactions on Asian and Low-Resource Language Information Processing, 2023, 22, 1-17.	1.3	4
5984	Boosting Compiler Testing via Compiler Optimization Exploration. ACM Transactions on Software Engineering and Methodology, 2022, 31, 1-33.	4.8	11
5985	Census-independent population estimation using representation learning. Scientific Reports, 2022, 12, 5185.	1.6	9
5986	MathUSE: Mathematical information retrieval system using universal sentence encoder model. Journal of Information Science, 2024, 50, 66-84.	2.0	0
5987	CTRL: Closed-Loop Transcription to an LDR via Minimaxing Rate Reduction. Entropy, 2022, 24, 456.	1.1	7
5988	Computational pathology for musculoskeletal conditions using machine learning: advances, trends, and challenges. Arthritis Research and Therapy, 2022, 24, 68.	1.6	8
5989	WaSP-ECG: A Wave Segmentation Pretraining Toolkit for Electrocardiogram Analysis. Frontiers in Physiology, 2022, 13, 760000.	1.3	1
5990	Understanding Dynamics of Nonlinear Representation Learning and Its Application. Neural Computation, 2022, 34, 991-1018.	1.3	1
5991	Abnormal behaviour in rock bream (Oplegnathus fasciatus) detected using deep learning-based image analysis. Fisheries and Aquatic Sciences, 2022, 25, 151-157.	0.3	1
5992	Emotion Analysis of Arabic Tweets: Language Models and Available Resources. Frontiers in Artificial Intelligence, 2022, 5, 843038.	2.0	5
5993	Photometric redshift estimation with convolutional neural networks and galaxy images: Case study of resolving biases in data-driven methods. Astronomy and Astrophysics, 2022, 662, A36.	2.1	3
5995	Detection and localization for lake floating objects based on CA-faster R-CNN. Multimedia Tools and Applications, 2022, 81, 17263-17281.	2.6	8
5996	A framework to preserve distance-based graph properties in network embedding. Social Network Analysis and Mining, 2022, 12, 1.	1.9	0
5997	Capacity estimation of lithium-ion batteries using convolutional neural network and impedance spectra. Journal of Power Electronics, 2022, 22, 850-858.	0.9	18
5998	Learning of physically significant features from earth observation data: an illustration for crop classification and irrigation scheme detection. Neural Computing and Applications, 2022, 34, 10929-10948.	3.2	1
5999	A Deep Learning Approach for Botnet Detection Using Raw Network Traffic Data. Journal of Network and Systems Management, 2022, 30, 1.	3.3	7
6000	Visual Domain Adaptation in the Deep Learning Era. Synthesis Lectures on Computer Vision, 2022, 11, 1-190.	0.4	2
6001	Blockchain and deep learning technologies for construction equipment security information management. Automation in Construction, 2022, 136, 104186.	4.8	23

#	ARTICLE	IF	CITATIONS
6002	Inspection of High Voltage Insulators with a Deep Learning Model. Journal of the Institution of Engineers (India): Series B, 0, , 1.	1.3	0
6003	Immersive machine learning for social attitude detection in virtual reality narrative games. Virtual Reality, 2022, 26, 1519-1538.	4.1	9
6004	Toward smarter management and recovery of municipal solid waste: A critical review on deep learning approaches. Journal of Cleaner Production, 2022, 346, 130943.	4.6	63
6005	Health indicator for machine condition monitoring built in the latent space of a deep autoencoder. Reliability Engineering and System Safety, 2022, 224, 108482.	5.1	31
6006	Towards extraction of orthogonal and parsimonious non-linear modes from turbulent flows. Expert Systems With Applications, 2022, 202, 117038.	4.4	49
6007	Assessing Representation Learning and Clustering Algorithms for Computer-Assisted Image Annotationâ€"Simulating and Benchmarking MorphoCluster. Sensors, 2022, 22, 2775.	2.1	0
6008	M3V: Multi-modal Multi-view Context Embedding for Repair Operator Prediction. , 2022, , .		1
6009	Dâ€™ya Like DAGs? A Survey on Structure Learning and Causal Discovery. ACM Computing Surveys, 2023, 55, 1-36.	16.1	54
6010	Leveraging Google Earth Engine and Semi-Supervised Generative Adversarial Networks to Assess Initial Burn Severity in Forest. Canadian Journal of Remote Sensing, 2022, 48, 411-424.	1.1	0
6011	Recommendations for item set completion: on the semantics of itemÂco-occurrence with data sparsity, input size, and input modalities. Information Retrieval, 2022, 25, 269-305.	1.6	3
6012	Weakly supervised fine-grained image classification via two-level attention activation model. Computer Vision and Image Understanding, 2022, 218, 103408.	3.0	5
6013	Learning cortical representations through perturbed and adversarial dreaming. ELife, 2022, 11, .	2.8	10
6014	Wearable Wrist Photoplethysmography for Optimal Monitoring of Vital Signs: A Unified Perspective on Pulse Waveforms. IEEE Photonics Journal, 2022, 14, 1-17.	1.0	4
6015	Learning meaningful representations of protein sequences. Nature Communications, 2022, 13, 1914.	5.8	55
6016	Intelligent diagnosis of northern corn leaf blight with deep learning model. Journal of Integrative Agriculture, 2022, 21, 1094-1105.	1.7	28
6017	Automated optic disk detection in fundus images using a combination of deep learning and local histogram matching. , 2022, , .		1
6018	Spike-Representation of EEG Signals for Performance Enhancement of Brain-Computer Interfaces. Frontiers in Neuroscience, 2022, 16, 792318.	1.4	1
6019	MSSort-DIAXMBD: A deep learning classification tool of the peptide precursors quantified by OpenSWATH. Journal of Proteomics, 2022, 259, 104542.	1.2	6

#	ARTICLE	IF	CITATIONS
6020	Physics informed neural networks for control oriented thermal modeling of buildings. Applied Energy, 2022, 314, 118852.	5.1	39
6021	Deep adversarial transition learning using cross-grafted generative stacks. Neural Networks, 2022, 149, 172-183.	3.3	2
6022	Predicting chemical ecotoxicity by learning latent space chemical representations. Environment International, 2022, 163, 107224.	4.8	5
6023	Mapping discrete fracture networks using inversion of hydraulic tomography data with convolutional neural network: SegNet-Fracture. Journal of Hydrology, 2022, 609, 127752.	2.3	7
6024	A whole brain probabilistic generative model: Toward realizing cognitive architectures for developmental robots. Neural Networks, 2022, 150, 293-312.	3.3	11
6025	Broad and deep neural network for high-dimensional data representation learning. Information Sciences, 2022, 599, 127-146.	4.0	11
6026	A hybrid deep learning based intrusion detection system using spatial-temporal representation of in-vehicle network traffic. Vehicular Communications, 2022, 35, 100471.	2.7	23
6027	Geoscience-aware deep learning: A new paradigm for remote sensing. Science of Remote Sensing, 2022, 5, 100047.	2.2	17
6028	Sparse learning based classification framework for planetary bearing health diagnostics. Mechanism and Machine Theory, 2022, 173, 104852.	2.7	11
6029	Spatiotemporal denoising wavelet network for infrared thermography-based machine prognostics integrating ensemble uncertainty. Mechanical Systems and Signal Processing, 2022, 173, 109014.	4.4	11
6030	Applied imagery pattern recognition for photovoltaic modules' inspection: A review on methods, challenges and future development. Sustainable Energy Technologies and Assessments, 2022, 52, 102071.	1.7	11
6031	Graph Convolutional Network Combined with Semantic Feature Guidance for Deep Clustering. Tsinghua Science and Technology, 2022, 27, 855-868.	4.1	6
6032	Social NCE: Contrastive Learning of Socially-aware Motion Representations. , 2021, , .		41
6033	Multi-VAE: Learning Disentangled View-common and View-peculiar Visual Representations for Multi-view Clustering. , 2021, , .		31
6034	Region Similarity Representation Learning. , 2021, , .		47
6035	WarpedGANSpace: Finding non-linear RBF paths in GAN latent space. , 2021, , .		22
6036	Semantics Disentangling for Generalized Zero-Shot Learning. , 2021, , .		40
6037	Learning Attribute-driven Disentangled Representations for Interactive Fashion Retrieval. , 2021, , .		27

#	ARTICLE	IF	CITATIONS
6038	Black-Box Testing of Deep Neural Networks. , 2021, , .		5
6039	Disentangled Representation for Age-Invariant Face Recognition: A Mutual Information Minimization Perspective. , 2021, , .		10
6040	DisUnknown: Distilling Unknown Factors for Disentanglement Learning. , 2021, , .		1
6041	Putting NeRF on a Diet: Semantically Consistent Few-Shot View Synthesis. , 2021, , .		123
6042	Vector-Decomposed Disentanglement for Domain-Invariant Object Detection. , 2021, , .		46
6043	Curious Representation Learning for Embodied Intelligence. , 2021, , .		10
6044	Lipschitz Continuity Guided Knowledge Distillation. , 2021, , .		17
6045	Locality Sensitive Hash Aggregated Nonlinear Neighborhood Matrix Factorization for Online Sparse Big Data Analysis. ACM/IMS Transactions on Data Science, 2021, 2, 1-27.	2.1	1
6046	Feature Rankers to Predict Classification Performance of Unsupervised Intrusion Detectors. , 2021, , .		0
6047	Resetting the baseline: CT-based COVID-19 diagnosis with Deep Transfer Learning is not as accurate as widely thought. , 2021, , .		1
6048	Deep Learning based noise identification in the Optical fiber communication using Variational Mode Decomposition. , 2021, , .		0
6049	Linking Sparse Coding Dictionaries for Representation Learning. , 2021, , .		0
6050	Two class weather classification with bagging technique. , 2021, , .		1
6051	Damage Identification of Selected Car Parts Using Image Classification and Deep Learning. , 2021, , .		0
6052	Deep Learning based noise identification in the Optical fiber communication using Variational Mode Decomposition. , 2021, , .		1
6053	Handwriting digits recognition in real scenario based on deep network and recurrent network. , 2021, , .		0
6054	Artificial Intelligence to Improve Health Outcomes in the NICU and PICU: A Systematic Review. Hospital Pediatrics, 2022, 12, 93-110.	0.6	10
6055	Robust Low-rank Deep Feature Recovery in CNNs: Toward Low Information Loss and Fast Convergence. , 2021, , .		4

#	Article	IF	Citations
6056	Exploiting Generative Models for Performance Predictions of 3D Car Designs. , 2021, , .		3
6057	Predicting the Trends of Stock Price By Social Networks and Fuzzy Deep Support Vector Machine. , 2021, , .		3
6058	The Representation Theory of Neural Networks. Mathematics, 2021, 9, 3216.	1.1	10
6059	Personalized tag recommendation via denoising auto-encoder. World Wide Web, 2023, 26, 95-114.	2.7	1
6060	Deep ensemble learning over the microbial phylogenetic tree (DeepEn-Phy). , 2021, , .		1
6061	Leveraging contextual embeddings and self-attention neural networks with bi-attention for sentiment analysis. Journal of Intelligent Information Systems, 2021, 57, 601-626.	2.8	5
6062	Imaging by Unsupervised Feature Learning of the Wave Equation. Physical Review Applied, 2021, 16, .	1.5	3
6063	A weakly-supervised deep domain adaptation method for multi-modal sensor data. , 2021, , .		1
6064	QMLEx: Data Driven Digital Transformation in Marketing Analytics. , 2021, , .		1
6065	Data Augmentation for Deep Neural Networks Model in EEG Classification Task: A Review. Frontiers in Human Neuroscience, 2021, 15, 765525.	1.0	30
6066	ATSNet: An Attention-Based Tumor Segmentation Network. , 2021, , .		0
6067	3D Unclonable Optical Identity for Universal Product Verification. , 2021, , .		0
6068	Machine learning of Kondo physics using variational autoencoders and symbolic regression. Physical Review B, 2021, 104, .	1.1	9
6069	Improving Deep Forest by Exploiting High-order Interactions. , 2021, , .		5
6070	Structural Knowledge Organization and Transfer for Class-Incremental Learning. , 2021, , .		2
6071	Artificial Neural Network-Based Microwave Satellite Soil Moisture Reconstruction over the Qinghaiâ€"Tibet Plateau, China. Remote Sensing, 2021, 13, 5156.	1.8	5
6073	SMATE: Semi-Supervised Spatio-Temporal Representation Learning on Multivariate Time Series. , 2021, , .		6
6074	A robust drug representation learning model for eliminating cell specificity in gene expression profile and its application. , 2021, , .		1

#	Article	IF	Citations
6075	Exploring Versatile Prior for Human Motion via Motion Frequency Guidance. , 2021, , .		3
6076	Extracting Disease-Relevant Features with Adversarial Regularization. , 2021, 2021, 3464-3471.		0
6077	LOGIC: Probabilistic Machine Learning for Time Series Classification. , 2021, , .		2
6079	Enrolment in clinical research at UCLH and geographically distributed indices of deprivation. Wellcome Open Research, 0, 6, 342.	0.9	0
6080	Enhancement of PSNR based Anomaly Detection in Surveillance Videos using Penalty Modules. , 2021, , .		0
6081	Failure Mechanism and Long Short-Term Memory Neural Network Model for Landslide Risk Prediction. Remote Sensing, 2022, 14, 166.	1.8	34
6082	DeepEmotex: Classifying Emotion in Text Messages using Deep Transfer Learning. , 2021, , .		3
6083	SSD small object detection algorithm based on feature enhancement and sample selection. , 2021, , .		4
6084	VarDenGrid: A New Variable Density Clustering Algorithm with Grid-Based Initialization. , 2021, , .		1
6085	Diagnosis of interior damage with a convolutional neural network using simulation and measurement data. Structural Health Monitoring, 2022, 21, 2312-2328.	4.3	4
6086	Essential Features in a Theory of Context for Enabling Artificial General Intelligence. Applied Sciences (Switzerland), 2021, 11, 11991.	1.3	3
6087	Affect-Aware Deep Belief Network Representations for Multimodal Unsupervised Deception Detection. , 2021, , .		3
6088	Bearing fault diagnosis method based on attention mechanism and multilayer fusion network. ISA Transactions, 2022, 128, 550-564.	3.1	35
6089	Revisit Gaussian Embedding: An Effective Method for Scalable Knowledge Graph. , 2021, , .		0
6091	Unsupervised Anomaly Detection in Printed Circuit Boards through Student–Teacher Feature Pyramid Matching. Electronics (Switzerland), 2021, 10, 3177.	1.8	8
6092	Latent Variable Models. , 2022, , 57-127.		0
6093	Rolling bearing fault diagnosis based on SSA optimized self-adaptive DBN. ISA Transactions, 2022, 128, 485-502.	3.1	57
6094	Traffic flow prediction models – A review of deep learning techniques. Cogent Engineering, 2022, 9, .	1.1	50

#	Article	IF	Citations
6095	Experimental Evaluation of Malware Family Classification Methods from Sequential Information of TLS-Encrypted Traffic. Electronics (Switzerland), 2021, 10, 3180.	1.8	3
6096	Efficient structural pseudoinverse learning-based hierarchical representation learning for skin lesion classification. Complex & Intelligent Systems, 2022, 8, 1445-1457.	4.0	5
6097	Imitation Learning for Autonomous Driving Based on Convolutional and Recurrent Neural Networks. , 2021, , .		2
6098	Investigating Explanatory Factors of Machine Learning Models for Plant Classification. Plants, 2021, 10, 2674.	1.6	5
6099	Perfect Density Models Cannot Guarantee Anomaly Detection. Entropy, 2021, 23, 1690.	1.1	6
6100	Deep Learning Algorithms are used to Automatically Detection Invasive Ducal Carcinoma in Whole Slide Images. , 2021, , .		25
6101	Machine Learning for Social Sciences: Stance Classification of User Messages on a Migrant-Critical Discussion Forum. , 2021, , .		1
6102	Representation learning of RNA velocity reveals robust cell transitions. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	21
6103	Drift Lens: Real-time unsupervised Concept Drift detection by evaluating per-label embedding distributions. , 2021, , .		1
6104	Aggregated Electric Vehicle Fast-Charging Power Demand Analysis and Forecast Based on LSTM Neural Network. Sustainability, 2021, 13, 13783.	1.6	32
6105	Vector Symbolic Architectures for Context-Free Grammars. Cognitive Computation, 2022, 14, 733-748.	3.6	5
6106	An Overview of Variational Autoencoders for Source Separation, Finance, and Bio-Signal Applications. Entropy, 2022, 24, 55.	1.1	27
6107	Table2Vec-automated universal representation learning of enterprise data DNA for benchmarkable and explainable enterprise data science. Scientific Reports, 2021, 11, 23957.	1.6	0
6108	Reducing Communication Costs of Federated Contrastive Learning by Particle Swarm Optimization. , 2021, , .		1
6109	Machine and Deep Learning Algorithms and Applications. Synthesis Lectures on Signal Processing, 2021, 12, 1-123.	0.3	1
6110	On the role of feature and signal selection for terrain learning in planetary exploration robots. Journal of Field Robotics, 2022, 39, 355-370.	3.2	11
6111	A Study of Counterfactual Inference Based on Instrumental Variables and Machine Learning. , 2021, , .		0
6112	Dynamic Prediction of Chilo suppressalis Occurrence in Rice Based on Deep Learning. Processes, 2021, 9, 2166.	1.3	3

#	ARTICLE	IF	CITATIONS
6113	Probabilistic Autoencoder Using Fisher Information. Entropy, 2021, 23, 1640.	1.1	1
6114	Automated Diagnosis of Childhood Pneumonia in Chest Radiographs Using Modified Densely Residual Bottleneck-Layer Features. Applied Sciences (Switzerland), 2021, 11, 11461.	1.3	2
6115	Automotive Vulnerability Analysis for Deep Learning Blockchain Consensus Algorithm. Electronics (Switzerland), 2022, 11, 119.	1.8	6
6116	Patient Similarity Measuring with Graph Embedded Learning and Triplet Network. , 2021, , .		1
6117	HSNR: A Network Representation Learning Algorithm Using Hierarchical Structure Embedding. Chinese Journal of Electronics, 2020, 29, 1141-1152.	0.7	1
6118	Evaluating Edge-Cloud Computing Trade-Offs for Mobile Object Detection and Classification with Deep Learning. Journal of Information and Data Management, 2020, 11, .	0.2	0
6119	Relation Extraction based on Data Partition and Representation Integration. , 2021, , .		1
6120	Transformer- and Generative Adversarial Networkâ€"Based Inpatient Traditional Chinese Medicine Prescription Recommendation: Development Study. JMIR Medical Informatics, 2022, 10, e35239.	1.3	6
6121	Deception for Cyber Defence: Challenges and Opportunities. , 2021, , .		3
6123	Prediction of Enhancers in DNA Sequence Data using a Hybrid CNN-DLSTM Model. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2023, 20, 1327-1336.	1.9	23
6124	Sparse Feature Clustering Network for Unsupervised SAR Image Change Detection. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-13.	2.7	13
6125	A Generative Approach to Open Set Recognition Using Distance-Based Probabilistic Anomaly Augmentation. IEEE Access, 2022, 10, 42232-42242.	2.6	2
6126	Artificial intelligence in food science and nutrition: a narrative review. Nutrition Reviews, 2022, 80, 2288-2300.	2.6	22
6127	Prediction of the Immune Phenotypes of Bladder Cancer Patients for Precision Oncology. IEEE Open Journal of Engineering in Medicine and Biology, 2022, 3, 47-57.	1.7	2
6129	Dynamic Deep Learning Algorithm (DDLA) for Processing of Complex and Large Datasets. , 2022, , .		3
6130	On Explainability of A Simple Classifier for AR(1) Source. , 2022, , .		0
6131	Stock Market Prognosticate using Machine Learning. , 2022, , .		0
6132	Symmetry-Based Representations for Artificial and Biological General Intelligence. Frontiers in Computational Neuroscience, 2022, 16, 836498.	1.2	13

#	Article	IF	Citations
6133	The training response law explains how deep neural networks learn. Journal of Physics Complexity, 0, , .	0.9	1
6134	An artificial intelligence life cycle: From conception to production. Patterns, 2022, 3, 100489.	3.1	24
6135	M-ary Phase Position Shift Keying Demodulation Using Stacked Denoising Sparse Autoencoders. Electronics (Switzerland), 2022, 11, 1233.	1.8	1
6136	Deep learning approaches in flow visualization. Advances in Aerodynamics, 2022, 4, .	1.3	9
6137	Ranking the information content of distance measures. , 2022, 1, .		13
6138	Combining convolutional neural networks with SVM classifier for recognizing Persian and Arabic handwritten words. Multimedia Tools and Applications, 2022, 81, 33785-33799.	2.6	5
6139	Interpretable functional specialization emerges in deep convolutional networks trained on brain signals. Journal of Neural Engineering, 2022, 19, 036006.	1.8	3
6140	Artificial intelligence in gastrointestinal and hepatic imaging: past, present and future scopes. Clinical Imaging, 2022, 87, 43-53.	0.8	1
6141	Applications and Techniques for Fast Machine Learning in Science. Frontiers in Big Data, 2022, 5, 787421.	1.8	20
6142	Predict alone, decide together: cardiac abnormality detection based on single lead classifier voting. Physiological Measurement, 2022, 43, 054001.	1.2	2
6143	Scanflow: A multi-graph framework for Machine Learning workflow management, supervision, and debugging. Expert Systems With Applications, 2022, 202, 117232.	4.4	4
6144	A Survey on Artificial Intelligence Aided Internet-of-Things Technologies in Emerging Smart Libraries. Sensors, 2022, 22, 2991.	2.1	24
6145	CS-BTM: a semantics-based hot topic detection method for social network. Applied Intelligence, 2022, 52, 18187-18200.	3.3	2
6146	Fast Segmentation of Metastatic Foci in H&E Whole-Slide Images for Breast Cancer Diagnosis. Diagnostics, 2022, 12, 990.	1.3	13
6147	Classifying Malicious Documents on the Basis of Plain-Text Features: Problem, Solution, and Experiences. Applied Sciences (Switzerland), 2022, 12, 4088.	1.3	1
6148	Towards a safe and efficient clinical implementation of machine learning in radiation oncology by exploring model interpretability, explainability and data-model dependency. Physics in Medicine and Biology, 2022, 67, 11TR01.	1.6	21
6149	Semi-Supervised Cross-Subject Emotion Recognition Based on Stacked Denoising Autoencoder Architecture Using a Fusion of Multi-Modal Physiological Signals. Entropy, 2022, 24, 577.	1.1	6
6182	Deep Gait Recognition: A Survey. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2023, 45, 264-284.	9.7	54

#	Article	IF	Citations
6183	End-to-End Estimation of Hand- and Wrist Forces From Raw Intramuscular EMG Signals Using LSTM Networks. Frontiers in Neuroscience, 2021, 15, 777329.	1.4	4
6184	RSSGL: Statistical Loss Regularized 3-D ConvLSTM for Hyperspectral Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-20.	2.7	3
6185	Activation Function Modulation in Generative Triangular Recurrent Neural Networks. IEEE Access, 2022, 10, 45709-45725.	2.6	0
6186	Deep Autoencoder Thermography for Defect Detection of Carbon Fiber Composites. IEEE Transactions on Industrial Informatics, 2023, 19, 6429-6438.	7.2	31
6187	Deep Mining from Omics Data. Methods in Molecular Biology, 2022, 2449, 349-386.	0.4	1
6188	Machine Learning Approaches to Single-Cell Data Integration and Translation. Proceedings of the IEEE, 2022, 110, 557-576.	16.4	2
6192	Breast Mammogram Analysis and Classification Using Deep Convolution Neural Network. Computer Systems Science and Engineering, 2022, 43, 275-289.	1.9	5
6194	Toward the Development of Large-Scale Word Embedding for Low-Resourced Language. IEEE Access, 2022, 10, 54091-54097.	2.6	6
6197	Machine/Deep Learning for Software Engineering: A Systematic Literature Review. IEEE Transactions on Software Engineering, 2023, 49, 1188-1231.	4.3	5
6198	Off-Policy Meta-Reinforcement Learning With Belief-Based Task Inference. IEEE Access, 2022, 10, 49494-49507.	2.6	4
6199	Hierarchical One-Class Model With Subnetwork for Representation Learning and Outlier Detection. IEEE Transactions on Cybernetics, 2023, 53, 6303-6316.	6.2	2
6200	A Financial Deep Learning Framework. International Journal of Web Services Research, 2022, 19, 1-15.	0.5	2
6201	Semi-Supervised Building Footprint Generation With Feature and Output Consistency Training. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-17.	2.7	3
6202	An Enhanced Attentive Implicit Relation Embedding for Social Recommendation. SSRN Electronic Journal, 0, , .	0.4	0
6203	Deep Learning applied to computational biology and agricultural sciences. , 2022, , 589-618.		0
6204	Biomedical Knowledge Graph Embedding with Capsule Network for Multi-label Drug-Drug Interaction Prediction. IEEE Transactions on Knowledge and Data Engineering, 2022, , 1-1.	4.0	23
6205	Learning Robust Deep State Space for Unsupervised Anomaly Detection in Contaminated Time-Series. IEEE Transactions on Knowledge and Data Engineering, 2022, , 1-1.	4.0	8
6206	SemCKD: Semantic Calibration for Cross-Layer Knowledge Distillation. IEEE Transactions on Knowledge and Data Engineering, 2022, , 1-1.	4.0	4

#	Article	IF	Citations
6207	Universal Generative Modeling for Calibration-Free Parallel Mr Imaging. , 2022, , .		1
6208	Student Public Opinion Management in Campus Commentary Based on Deep Learning. Wireless Communications and Mobile Computing, 2022, 2022, 1-12.	0.8	3
6209	A wavelet convolutional capsule network with modified super resolution generative adversarial network for fault diagnosis and classification. Complex & Intelligent Systems, 2022, 8, 4831-4847.	4.0	7
6210	Indexer++. , 2022, , .		0
6211	Evaluation of Machine Learning and Web-Based Process for Damage Score Estimation of Existing Buildings. Buildings, 2022, 12, 578.	1.4	18
6212	Cross-modal Ambiguity Learning for Multimodal Fake News Detection. , 2022, , .		43
6213	Deep mutual information multi-view representation for visual recognition. Applied Intelligence, 2022, 52, 14888-14904.	3.3	1
6214	Tackling Algorithmic Bias in Neural-Network Classifiers using Wasserstein-2 Regularization. Journal of Mathematical Imaging and Vision, 2022, 64, 672-689.	0.8	3
6215	GANSlider: How Users Control Generative Models for Images using Multiple Sliders with and without Feedforward Information. , 2022, , .		6
6216	F2VAE. , 2022, , .		1
6217	A novel liver cancer diagnosis method based on patient similarity network and DenseGCN. Scientific Reports, 2022, 12, 6797.	1.6	6
6218	Feature Generalization for Breast Cancer Detection in Histopathological Images. Interdisciplinary Sciences, Computational Life Sciences, 2022, 14, 566-581.	2.2	4
6219	Data-Driven Synthesis of Broadband Earthquake Ground Motions Using Artificial Intelligence. Bulletin of the Seismological Society of America, 2022, 112, 1979-1996.	1.1	11
6220	Big Data Seismology. Reviews of Geophysics, 2022, 60, .	9.0	24
6221	On the acceleration of global optimization algorithms by coupling cutting plane decomposition algorithms with machine learning and advanced data analytics. Computers and Chemical Engineering, 2022, 163, 107820.	2.0	0
6222	Disentangling latent space better for few-shot image-to-image translation. International Journal of Machine Learning and Cybernetics, 0, , 1.	2.3	0
6223	PROVAL: A framework for comparison of protein sequence embeddings. Journal of Computational Mathematics and Data Science, 2022, 3, 100044.	1.3	4
6225	A Motion Deblurring Disentangled Representation Network. Knowledge-Based Systems, 2022, 249, 108867.	4.0	2

#	Article	IF	Citations
6226	BeCaked: An Explainable Artificial Intelligence Model for COVID-19 Forecasting. Scientific Reports, 2022, 12, 7969.	1.6	3
6227	Condition Monitoring of Machine Tool Feed Drives: A Review. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2022, 144, .	1.3	12
6228	CSI Clustering with Variational Autoencoding. , 2022, , .		2
6229	Examination of computed aluminum grain boundary structures and energies that span the 5D space of crystallographic character. Acta Materialia, 2022, 234, 118006.	3.8	19
6230	Reverse Image Search Using Deep Unsupervised Generative Learning and Deep Convolutional Neural Network. Applied Sciences (Switzerland), 2022, 12, 4943.	1.3	3
6231	Enhance understanding and reasoning ability for image captioning. Applied Intelligence, 2023, 53, 2706-2722.	3.3	8
6232	Multi-type factors representation learning for deep learning-based knowledge tracing. World Wide Web, 2022, 25, 1343-1372.	2.7	9
6233	Compressive Phase Retrieval Based On Sparse Latent Generative Priors. , 2022, , .		2
6234	Effective active learning in digital pathology: A case study in tumor infiltrating lymphocytes. Computer Methods and Programs in Biomedicine, 2022, 220, 106828.	2.6	7
6235	Unsupervised clustering of Roman potsherds via Variational Autoencoders. Journal of Archaeological Science, 2022, 142, 105598.	1.2	7
6236	A multi-agent deep reinforcement learning based energy management for behind-the-meter resources. Electricity Journal, 2022, 35, 107129.	1.3	2
6237	Combustion machine learning: Principles, progress and prospects. Progress in Energy and Combustion Science, 2022, 91, 101010.	15.8	77
6238	Development and comparative selection of surrogate models using artificial neural network for an integrated regenerative transcritical cycle. Applied Energy, 2022, 317, 119146.	5.1	7
6239	Visual aggregation of large multivariate networks with attribute-enhanced representation learning. Neurocomputing, 2022, 494, 320-335.	3.5	1
6240	Deep Isometric Maps. Image and Vision Computing, 2022, 123, 104461.	2.7	2
6241	Antipatterns in software classification taxonomies. Journal of Systems and Software, 2022, 190, 111343.	3.3	5
6242	A survey of structural representation learning for social networks. Neurocomputing, 2022, 496, 56-71.	3.5	5
6243	Teacher–student knowledge distillation based on decomposed deep feature representation for intelligent mobile applications. Expert Systems With Applications, 2022, 202, 117474.	4.4	8

#	Article	IF	Citations
6244	Negational symmetry of quantum neural networks for binary pattern classification. Pattern Recognition, 2022, 129, 108750.	5.1	4
6245	Ensemble learning directed classification and regression of hydrocarbon fuels. Fuel, 2022, 324, 124520.	3.4	6
6246	Using Deep Learning Predictors and Latent Dirichlet Allocation to Identify Key Issues Affecting Clients in Chilean Restaurants. , 2021, , .		0
6248	A novel approach for unlabeled samples in radiation source identification. Journal of Systems Engineering and Electronics, 2022, 33, 354-359.	1.1	3
6249	Feature blindness: A challenge for understanding and modelling visual object recognition. PLoS Computational Biology, 2022, 18, e1009572.	1.5	8
6250	Stacked Auto-encoder Based Feature Transfer Learning and Optimized LSSVM-PSO Classifier in Bearing Fault Diagnosis. Measurement Science Review, 2022, 22, 177-186.	0.6	3
6251	SVP-Classifier: Single-View Point Cloud Data Classifier withÂMulti-view Hallucination. Lecture Notes in Computer Science, 2022, , 15-26.	1.0	1
6252	How Confident Was Your Reviewer? Estimating Reviewer Confidence fromÂPeer Review Texts. Lecture Notes in Computer Science, 2022, , 126-139.	1.0	5
6254	Twin Variational Auto-Encoder for Representation Learning in IoT Intrusion Detection. , 2022, , .		1
6255	Intrinsic partial linear models for manifold-valued data. Information Processing and Management, 2022, 59, 102954.	5.4	1
6256	An medical image analysis by deep learning. AIP Conference Proceedings, 2022, , .	0.3	0
6257	Spatialâ€"Spectral Joint Reconstruction With Interband Correlation for Hyperspectral Anomaly Detection. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-13.	2.7	5
6258	Concurrences of deep learning arise in analysis of bigdata. AIP Conference Proceedings, 2022, , .	0.3	1
6259	Multitask Feature Learning as Multiobjective Optimization: A New Genetic Programming Approach to Image Classification. IEEE Transactions on Cybernetics, 2023, 53, 3007-3020.	6.2	6
6260	Generalizing to Unseen Domains: A Survey on Domain Generalization. IEEE Transactions on Knowledge and Data Engineering, 2022, , 1-1.	4.0	143
6261	Copyright in generative deep learning. Data & Policy, 2022, 4, .	1.0	10
6262	Deep learning for multivariate statistical in-process control in discrete manufacturing: A case study in a sheet metal forming process. Procedia CIRP, 2022, 107, 422-427.	1.0	5
6263	An Empirical Study of Remote Sensing Pretraining. IEEE Transactions on Geoscience and Remote Sensing, 2023, 61, 1-20.	2.7	46

#	Article	IF	Citations
6264	Will artificial intelligence assume a role in anatomy education?. National Journal of Clinical Anatomy, 2022, 11, 65.	0.1	3
6265	An adaptive fuzzy neuro inference system for classification of ECG CardiacArrthymias. AIP Conference Proceedings, 2022, , .	0.3	6
6266	Appraisal of high-stake examinations during SARS-CoV-2 emergency with responsible and transparent AI: Evidence of fair and detrimental assessment. Computers and Education Artificial Intelligence, 2022, 3, 100077.	6.9	0
6267	Discovering the building blocks of dark matter halo density profiles with neural networks. Physical Review D, 2022, 105, .	1.6	8
6269	The Classification of Music and Art Genres under the Visual Threshold of Deep Learning. Computational Intelligence and Neuroscience, 2022, 2022, 1-8.	1.1	0
6270	An Infrared and Visble Image Fusion Approach of Self-Calibrated Residual Networks and Feature Embedding. Recent Advances in Computer Science and Communications, 2022, 15, .	0.5	0
6272	Machine learning and acute stroke imaging. Journal of NeuroInterventional Surgery, 2023, 15, 195-199.	2.0	15
6273	SELECTING BIVARIATE COPULA MODELS USING IMAGE RECOGNITION. ASTIN Bulletin, 0, , 1-28.	0.7	0
6274	Information Retrieval from Alternative Data using Zero-Shot Self-Supervised Learning. , 2022, , .		1
6275	Deep learning and synthetic media. SynthÃˆse, 2022, 200, .	0.6	5
6276	An Extensive Assessment of Network Embedding in PPI Network Alignment. Entropy, 2022, 24, 730.	1.1	3
6277	Improved performance and robustness of multi-task representation learning with consistency loss between pretexts for intracranial hemorrhage identification in head CT. Medical Image Analysis, 2022, 81, 102489.	7.0	10
6278	Structural damage detection via phase space based manifold learning under changing environmental and operational conditions. Engineering Structures, 2022, 263, 114420.	2.6	6
6279	Transfer learning of fuzzy classifiers for optimized joint representation of simulated and measured data in anomaly detection of motor phase currents. Applied Soft Computing Journal, 2022, 124, 109013.	4.1	5
6280	Short-term individual residential load forecasting using an enhanced machine learning-based approach based on a feature engineering framework: A comparative study with deep learning methods. Electric Power Systems Research, 2022, 210, 108119.	2.1	10
6281	Disentangled Sequence to Sequence Learning for Compositional Generalization. , 2022, , .		2
6282	Seafloor Classification Combining Shipboard Low-Frequency and AUV High-Frequency Acoustic Data: A Case Study of Duanqiao Hydrothermal Field, Southwest Indian Ridge. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-15.	2.7	1
6283	Applications of Artificial Intelligence in Small- and Medium-Sized Enterprises (SMEs). Lecture Notes in Networks and Systems, 2022, , 717-726.	0.5	1

#	Article	IF	Citations
6284	Detection of Breast Cancer with Lightweight Deep Neural Networks for Histology Image Classification. Critical Reviews in Biomedical Engineering, 2022, 50, 1-19.	0.5	4
6285	Rolling Bearing Fault Diagnosis Based on Markov Transition Field and Residual Network. Sensors, 2022, 22, 3936.	2.1	21
6286	Deep learning as a tool for ecology and evolution. Methods in Ecology and Evolution, 2022, 13, 1640-1660.	2.2	55
6287	The study of statistical features of the evolution of complex physical systems using adaptive machine learning methods. Journal of Physics: Conference Series, 2022, 2270, 012042.	0.3	1
6289	Network Representation Learning With Community Awareness and Its Applications in Brain Networks. Frontiers in Physiology, 2022, 13, .	1.3	0
6290	Spatio-Temporally Efficient Coding Assigns Functions to Hierarchical Structures of the Visual System. Frontiers in Computational Neuroscience, 0, 16, .	1.2	1
6291	Developing and validating a multivariable prediction model which predicts progression of intermediate to late age-related macular degenerationâ€"the PINNACLE trial protocol. Eye, 2023, 37, 1275-1283.	1.1	9
6292	Infrared and visible image fusion using multi-scale pyramid network. International Journal of Wavelets, Multiresolution and Information Processing, 2022, 20, .	0.9	4
6293	A representation learning framework for detection and characterization of dead versus strain localization zones from pre- to post-failure. Granular Matter, 2022, 24, .	1.1	5
6294	Pattern Training, Inference, and Regeneration Demonstration Using Onâ€Chip Trainable Neuromorphic Chips for Spiking Restricted Boltzmann Machine. Advanced Intelligent Systems, 2022, 4, .	3.3	3
6296	Graph neural network-based scheduling for multi-UAV-enabled communications in D2D networks. Digital Communications and Networks, 2022, , .	2.7	5
6297	Machine Health Management System Using Moving Average Feature With Bidirectional Long-Short Term Memory. Journal of Computing and Information Science in Engineering, 2023, 23, .	1.7	8
6298	Flaw classification and detection in thinâ€plate structures based on scaled boundary finite element method and deep learning. International Journal for Numerical Methods in Engineering, 2022, 123, 4674-4701.	1.5	12
6299	How to keep text private? A systematic review of deep learning methods for privacy-preserving natural language processing. Artificial Intelligence Review, 2023, 56, 1427-1492.	9.7	8
6300	Forecasting the future clinical events of a patient through contrastive learning. Journal of the American Medical Informatics Association: JAMIA, 2022, 29, 1584-1592.	2.2	3
6302	A Survey on Deep Networks Approaches in Prediction of Sequence-Based Proteinâ€"Protein Interactions. SN Computer Science, 2022, 3, .	2.3	5
6303	Score-CAM++: Class Discriminative Localization with Feature Map Selection. Journal of Physics: Conference Series, 2022, 2278, 012018.	0.3	1
6304	Sentiment analysis: a convolutional neural networks perspective. Multimedia Tools and Applications, 2022, 81, 44405-44429.	2.6	7

#	ARTICLE	IF	CITATIONS
6305	Representation Learning: Recommendation With Knowledge Graph via Triple-Autoencoder. Frontiers in Genetics, 0, 13, .	1.1	3
6307	Drug repositioning in drug discovery of T2DM and repositioning potential of antidiabetic agents. Computational and Structural Biotechnology Journal, 2022, 20, 2839-2847.	1.9	15
6308	Multispectral retinal videoâ€ophthalmoscope with fiber optic illumination. Journal of Biophotonics, 0, , .	1.1	3
6309	Development of a hybrid autoencoder model for automated edible birdâ€™s nest impurities inspection. Journal of Electronic Imaging, 2022, 31, .	0.5	2
6310	A Review on Deep Sequential Models for Forecasting Time Series Data. Applied Computational Intelligence and Soft Computing, 2022, 2022, 1-19.	1.6	6
6311	Double framed moduli spaces of quiver representations. Linear Algebra and Its Applications, 2022, , .	0.4	1
6312	Two-step residual-error based approach for anomaly detection in engineering systems using variational autoencoders. Computers and Electrical Engineering, 2022, 101, 108065.	3.0	13
6313	The Global LAnd Surface Satellite (GLASS) evapotranspiration product Version 5.0: Algorithm development and preliminary validation. Journal of Hydrology, 2022, 610, 127990.	2.3	12
6314	Improved swarm optimization of deep features for glaucoma classification using SEGSO and VGGNet. Biomedical Signal Processing and Control, 2022, 77, 103845.	3.5	3
6315	Leveraging enterprise knowledge graph to infer web eventsâ€™ influences via self-supervised learning. Web Semantics, 2022, 74, 100722.	2.2	7
6317	Arms Race in Adversarial Malware Detection: A Survey. ACM Computing Surveys, 2023, 55, 1-35.	16.1	12
6318	AI in Finance: Challenges, Techniques, and Opportunities. ACM Computing Surveys, 2023, 55, 1-38.	16.1	52
6319	Analog Hardware Neural Networks using Logarithmic Four-Quadrant Multiple Circuits. , 2021, , .		1
6320	HotFed: Hot Start through Self-Supervised Learning in Federated Learning. , 2021, , .		2
6321	Automated Detection of Threat Materials in X-Ray Baggage Inspection Systems (XBISs). IEEE Transactions on Nuclear Science, 2022, 69, 1923-1930.	1.2	3
6323	CoupledMUTS: Coupled Multivariate Utility Time-Series Representation and Prediction. IEEE Internet of Things Journal, 2022, 9, 22972-22982.	5.5	7
6327	Aesthetic Evaluation System Based on Geometric Theorems. Communications in Computer and Information Science, 2022, , 201-203.	0.4	0
6328	Optimization Induced Equilibrium Networks: An Explicit Optimization Perspective for Understanding Equilibrium Models. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, , 1-14.	9.7	2

#	Article	IF	Citations
6329	Improving Automatic Speech Recognition Performance for Low-Resource Languages With Self-Supervised Models. IEEE Journal on Selected Topics in Signal Processing, 2022, 16, 1227-1241.	7.3	13
6330	Inspect, Understand, Overcome: A Survey of Practical Methods for AI Safety. , 2022, , 3-78.		12
6332	SpinalNet: Deep Neural Network With Gradual Input. IEEE Transactions on Artificial Intelligence, 2023, 4, 1165-1177.	3.4	36
6333	Galaxy Shape Categorization Using Convolutional Neural Network Approach. , 2022, , .		0
6334	K-Means Clustering driven Deep Spatiotemporal Learning Model for PM2.5 Prediction. , 2022, , .		0
6335	Towards Interpretable Anomaly Detection: Unsupervised Deep Neural Network Approach using Feedback Loop. , 2022, , .		4
6336	A Machine Learning approach for Early Detection of Parkinson’s Disease Using acoustic traces. , 2022, , .		8
6337	Accurate Brain Tumor Segmentation and Classification using CNN. , 2022, , .		2
6338	Big data and ML: Interaction & Challenges. , 2022, , .		2
6339	Deep Learning-Based Method for Compound Identification in NMR Spectra of Mixtures. Molecules, 2022, 27, 3653.	1.7	10
6340	Miniaturization for wearable EEG systems: recording hardware and data processing. Biomedical Engineering Letters, 2022, 12, 239-250.	2.1	3
6341	What’s a good prediction? Challenges in evaluating an agent’s knowledge. Adaptive Behavior, 0, , 105971232210958.	1.1	0
6342	Comparative study of text representation and learning for Persian named entity recognition. ETRI Journal, 2022, 44, 794-804.	1.2	3
6343	A deep learning approach to halo merger tree construction. Monthly Notices of the Royal Astronomical Society, 2022, 514, 3692-3708.	1.6	2
6345	Deep Learning for Android Malware Defenses: A Systematic Literature Review. ACM Computing Surveys, 2023, 55, 1-36.	16.1	24
6346	Data-driven nonlinear model reduction to spectral submanifolds in mechanical systems. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2022, 380, .	1.6	14
6347	Convolutional dynamic auto-encoder: a clustering method for semantic images. Neural Computing and Applications, 2022, 34, 17087-17105.	3.2	2
6348	Review of the state of the art in autonomous artificial intelligence. AI and Ethics, 2023, 3, 497-504.	4.6	6

#	Article	IF	Citations
6349	Prediction of blood pressure changes associated with abdominal pressure changes during robotic laparoscopic low abdominal surgery using deep learning. PLoS ONE, 2022, 17, e0269468.	1.1	2
6350	Deep learning models for forecasting dengue fever based on climate data in Vietnam. PLoS Neglected Tropical Diseases, 2022, 16, e0010509.	1.3	22
6351	STAFNet: Swin Transformer Based Anchor-Free Network for Detection of Forward-looking Sonar Imagery. , 2022, , .		1
6352	Active constrained deep embedded clustering with dual source. Applied Intelligence, 0, , .	3.3	1
6353	Multi-view representation learning from local consistency and global alignment. Neurocomputing, 2022, 501, 727-740.	3.5	1
6354	Fault Diagnosis Using Data Fusion with Ensemble Deep Learning Technique in IIoT. Mathematical Problems in Engineering, 2022, 2022, 1-8.	0.6	8
6355	Unsupervised learning architecture for classifying the transient noise of interferometric gravitational-wave detectors. Scientific Reports, 2022, 12, .	1.6	7
6356	A Robust Method for Classification and Localization of Satellite Cyclonic Images Over the Bay of Bengal and the Arabian Sea Using Deep Learning. Advances in Computational Intelligence and Robotics Book Series, 2022, , 217-233.	0.4	0
6357	The Validity of Machine Learning Procedures in Orthodontics: What Is Still Missing?. Journal of Personalized Medicine, 2022, 12, 957.	1.1	4
6358	Inductive Logic Programming At 30: A New Introduction. Journal of Artificial Intelligence Research, 0, 74, 765-850.	7.0	14
6360	Gradient-based learning drives robust representations in recurrent neural networks by balancing compression and expansion. Nature Machine Intelligence, 2022, 4, 564-573.	8.3	11
6362	Automatic Detection of Image-Based Features for Immunosuppressive Therapy Response Prediction in Oral Lichen Planus. Frontiers in Immunology, 0, 13, .	2.2	2
6363	Towards Dynamic and Safe Configuration Tuning for Cloud Databases. , 2022, , .		14
6364	Early identification of potential loess landslide using convolutional neural networks with skip connection: a case study in northwest Lvliang City, Shanxi Province, China. Georisk, 0, , 1-13.	2.6	2
6365	Lessons from infant learning for unsupervised machine learning. Nature Machine Intelligence, 2022, 4, 510-520.	8.3	14
6366	Research on the Use of Machine Learning on Building Facades. , 2022, 2, 224-240.		0
6367	Learning interpretable representations of entanglement in quantum optics experiments using deep generative models. Nature Machine Intelligence, 2022, 4, 544-554.	8.3	12
6368	Enhanced dictionary learning based sparse classification approach with applications to planetary bearing fault diagnosis. Applied Acoustics, 2022, 196, 108870.	1.7	8

#	Article	IF	Citations
6369	Multi-class nucleus detection and classification using deep convolutional neural network with enhanced high dimensional dissimilarity translation model on cervical cells. Biocybernetics and Biomedical Engineering, 2022, 42, 797-814.	3.3	14
6370	Learning disentangled representations in the imaging domain. Medical Image Analysis, 2022, 80, 102516.	7.0	26
6371	Learning the representation of surrogate safety measures to identify traffic conflict. Accident Analysis and Prevention, 2022, 174, 106755.	3.0	8
6372	Hybrid, Interpretable Machine Learning for Thermodynamic Property Estimation using Grammar2vec for Molecular Representation. Fluid Phase Equilibria, 2022, 561, 113531.	1.4	14
6373	M2TNet: Multi-modal multi-task Transformer network for ultra-short-term wind power multi-step forecasting. Energy Reports, 2022, 8, 7628-7642.	2.5	19
6374	An integrated approach of Belief Rule Base and Convolutional Neural Network to monitor air quality in Shanghai. Expert Systems With Applications, 2022, 206, 117905.	4.4	11
6376	Dual-Level Knowledge Distillation via Knowledge Alignment and Correlation. IEEE Transactions on Neural Networks and Learning Systems, 2024, 35, 2425-2435.	7.2	3
6377	Non-Stationary Representation Learning in Sequential Linear Bandits. , 2022, 1, 41-56.		5
6379	A Deep Learning Approach for Plagiarism Detection System Using BERT. Lecture Notes on Data Engineering and Communications Technologies, 2022, , 163-174.	0.5	1
6380	DRFL-VAT: Deep Representative Feature Learning With Virtual Adversarial Training for Semisupervised Classification of Hyperspectral Image. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-14.	2.7	3
6381	Understanding via Exploration: Discovery of Interpretable Features With Deep Reinforcement Learning. IEEE Transactions on Neural Networks and Learning Systems, 2024, 35, 1696-1707.	7.2	1
6382	Autoencoders and variational autoencoders in medical image analysis. , 2022, , 129-162.		1
6383	EM-LAST: Effective Multidimensional Latent Space Transport for an Unpaired Image-to-Image Translation With an Energy-Based Model. IEEE Access, 2022, 10, 72839-72849.	2.6	1
6385	Towards a Better Characterization of Career Paths: Sequential Job Embedding and Mixture Markov Models. SSRN Electronic Journal, 0, , .	0.4	0
6386	MRP-Net: Seizure Detection Method Based on Modified Recurrence Plot and Additive Attention Convolution Neural Network. SSRN Electronic Journal, 0, , .	0.4	1
6387	Digital Twin in Healthcare Through the Eyes of the Vitruvian Man. Smart Innovation, Systems and Technologies, 2022, , 75-85.	0.5	4
6388	Geospatial Mapping and Analysis of the 2019 Flood Disaster Extent and Impact in the City of Ghat in Southwestern Libya Using Google Earth Engine and Deep Learning Technique. , 2022, , 205-226.		3
6389	Load Forecasting Techniques for Power System: Research Challenges and Survey. IEEE Access, 2022, 10, 71054-71090.	2.6	54

#	Article	IF	Citations
6391	Regularizing disentangled representations with anatomical temporal consistency. , 2022, , 325-346.		1
6392	Automatically Discovering Visual Product Characteristics. SSRN Electronic Journal, 0, , .	0.4	0
6393	voxel2vec: A Natural Language Processing Approach to Learning Distributed Representations for Scientific Data. IEEE Transactions on Visualization and Computer Graphics, 2023, 29, 4296-4311.	2.9	1
6394	The Anatomy of Big Data: Concepts, Principles and Challenges. , 2022, , .		18
6395	Joint Deep Dictionary Learning. , 2022, , .		0
6396	Improved model for knowledge representation: TransMR. , 2022, , .		0
6397	Learning A Continuous and Reconstructible Latent Space for Hardware Accelerator Design. , 2022, , .		1
6398	Recent Research and Applications in Variational Autoencoders for Industrial Prognosis and Health Management: A Survey. , 2022, , .		7
6399	Analysis of Machine Learning Algorithms for Breast Cancer Detection. , 2022, , 1395-1414.		0
6400	Deep Residual Network for Diagnosis of Retinal Diseases Using Optical Coherence Tomography Images. Interdisciplinary Sciences, Computational Life Sciences, 2022, 14, 906-916.	2.2	8
6402	Comparison of Deep Learning Methods for Detecting and Counting Sorghum Heads in UAV Imagery. Remote Sensing, 2022, 14, 3143.	1.8	8
6403	Single phase to ground fault location of distribution network based on Combined-GAT. Recent Advances in Electrical and Electronic Engineering, 2022, 15, .	0.2	0
6404	Dimension reduction of dynamical systems on networks with leading and non-leading eigenvectors of adjacency matrices. Physical Review Research, 2022, 4, .	1.3	5
6405	The Role of Machine Learning in the Healthcare Sector: A Roadmap to the Potential Prospects. , 2022, , .		0
6406	Sentinel-2 Satellite Image Time-Series Land Cover Classification with Bernstein Copula Approach. Remote Sensing, 2022, 14, 3080.	1.8	4
6407	Deep Learning-Based Automatic Detection of Ships: An Experimental Study Using Satellite Images. Journal of Imaging, 2022, 8, 182.	1.7	22
6408	An Efficient Gait Abnormality Detection Method Based on Classification. Journal of Sensor and Actuator Networks, 2022, 11, 31.	2.3	4
6409	A structural characterization of shortcut features for prediction. European Journal of Epidemiology, 2022, 37, 563-568.	2.5	3

#	Article	IF	Citations
6410	Learning representations of chromatin contacts using a recurrent neural network identifies genomic drivers of conformation. Nature Communications, 2022, 13, .	5.8	6
6411	Machine learning techniques to characterize functional traits of plankton from image data. Limnology and Oceanography, 2022, 67, 1647-1669.	1.6	28
6412	Graph Transplant: Node Saliency-Guided Graph Mixup with Local Structure Preservation. Proceedings of the AAAI Conference on Artificial Intelligence, 2022, 36, 7966-7974.	3.6	14
6413	Attentional Gated Res2Net for Multivariate Time Series Classification. Neural Processing Letters, 2023, 55, 1371-1395.	2.0	3
6414	Deep Vision Multimodal Learning: Methodology, Benchmark, and Trend. Applied Sciences (Switzerland), 2022, 12, 6588.	1.3	4
6415	Disentangling Generative Factors of Physical Fields Using Variational Autoencoders. Frontiers in Physics, 0, 10, .	1.0	3
6416	Learning disentangled representation for classical models. Physical Review B, 2022, 105, .	1.1	0
6417	Towards unsupervised classification of macromolecular complexes in cryo electron tomography: Challenges and opportunities. Computer Methods and Programs in Biomedicine, 2022, 225, 107017.	2.6	6
6418	Improved SSD network for fast concealed object detection and recognition in passive terahertz security images. Scientific Reports, 2022, 12, .	1.6	24
6419	Systematic literature review of arabic aspect-based sentiment analysis. Journal of King Saud University - Computer and Information Sciences, 2022, , .	2.7	3
6420	Multi-instance discriminative contrastive learning for brain image representation. Neural Computing and Applications, 0, , .	3.2	11
6421	A Disentangled Representation Based Brain Image Fusion via Group Lasso Penalty. Frontiers in Neuroscience, 0, 16, .	1.4	4
6422	Representation Learning and Pattern Recognition in Cognitive Biometrics: A Survey. Sensors, 2022, 22, 5111.	2.1	13
6423	Road Segmentation and Environment Labeling for Autonomous Vehicles. Applied Sciences (Switzerland), 2022, 12, 7191.	1.3	2
6424	Refined analysis and a hierarchical multi-task learning approach for loan fraud detection. Journal of Management Science and Engineering, 2022, , .	1.9	2
6425	An Approach for Audio-Visual Content Understanding of Video using Multimodal Deep Learning Methodology. Sakarya University Journal of Computer and Information Sciences, 2022, 5, 181-207.	0.6	1
6426	Improving Image Clustering through Sample Ranking and Its Application to Remote Sensing Images. Remote Sensing, 2022, 14, 3317.	1.8	0
6427	Do Kernel and Neural Embeddings Help in Training and Generalization?. Neural Processing Letters, 0, , .	2.0	0

#	Article	IF	Citations
6428	Fiber laser development enabled by machine learning: review and prospect. PhotoniX, 2022, 3, .	5.5	45
6429	MetaDetector: Meta Event Knowledge Transfer for Fake News Detection. ACM Transactions on Intelligent Systems and Technology, 2022, 13, 1-25.	2.9	6
6430	A survey of sound source localization with deep learning methods. Journal of the Acoustical Society of America, 2022, 152, 107-151.	0.5	93
6431	Deep Learning for Effective and Efficient Reduction of Large Adaptation Spaces in Self-adaptive Systems. ACM Transactions on Autonomous and Adaptive Systems, 2022, 17, 1-42.	0.4	5
6432	Machine Learning Approaches to TCR Repertoire Analysis. Frontiers in Immunology, 0, 13, .	2.2	8
6433	Clustering-Based Representation Learning through Output Translation and Its Application to Remote-Sensing Images. Remote Sensing, 2022, 14, 3361.	1.8	2
6434	M^2 factor estimation in few-mode fibers based on a shallow neural network. Optics Express, 2022, 30, 27304.	1.7	7
6435	Learning Causal Effects From Observational Data in Healthcare: A Review and Summary. Frontiers in Medicine, 0, 9, .	1.2	4
6436	Modality-Balanced Embedding for Video Retrieval. , 2022, , .		4
6437	TinyOdom. , 2022, 6, 1-32.		9
6438	Evolving anomaly detection for network streaming data. Information Sciences, 2022, 608, 757-777.	4.0	7
6439	Novel single and multi-layer echo-state recurrent autoencoders for representation learning. Engineering Applications of Artificial Intelligence, 2022, 114, 105051.	4.3	3
6440	An intelligent fault diagnosis for machine maintenance using weighted soft-voting rule based multi-attention module with multi-scale information fusion. Information Fusion, 2022, 86-87, 17-29.	11.7	20
6441	Quality assessment and prediction of municipal drinking water using water quality index and artificial neural network: A case study of Wuhan, central China, from 2013 to 2019. Science of the Total Environment, 2022, 844, 157096.	3.9	9
6442	Multimodal representation learning over heterogeneous networks for tag-based music retrieval. Expert Systems With Applications, 2022, 207, 117969.	4.4	6
6443	Machine learning for analysis of real nuclear plant data in the frequency domain. Annals of Nuclear Energy, 2022, 177, 109293.	0.9	3
6444	A hybrid framework based on extreme learning machine, discrete wavelet transform, and autoencoder with feature penalty for stock prediction. Expert Systems With Applications, 2022, 207, 118006.	4.4	11
6445	Learning Deep Representations for Graph Clustering. Proceedings of the AAAI Conference on Artificial Intelligence, 2014, 28, .	3.6	262

#	Article	IF	Citations
6446	Deep Modeling of Group Preferences for Group-Based Recommendation. Proceedings of the AAAI Conference on Artificial Intelligence, 2014, 28, .	3.6	36
6447	Recurrent Convolutional Neural Networks for Text Classification. Proceedings of the AAAI Conference on Artificial Intelligence, 2015, 29, .	3.6	1,030
6448	Self-Paced Curriculum Learning. Proceedings of the AAAI Conference on Artificial Intelligence, 2015, 29, .	3.6	169
6449	Robot Learning Manipulation Action Plans by "Watching" Unconstrained Videos from the World Wide Web. Proceedings of the AAAI Conference on Artificial Intelligence, 2015, 29, .	3.6	73
6450	Convolutional Neural Networks over Tree Structures for Programming Language Processing. Proceedings of the AAAI Conference on Artificial Intelligence, 2016, 30, .	3.6	201
6451	Deep Hashing Network for Efficient Similarity Retrieval. Proceedings of the AAAI Conference on Artificial Intelligence, 2016, 30, .	3.6	292
6452	cw2vec: Learning Chinese Word Embeddings with Stroke n-gram Information. Proceedings of the AAAI Conference on Artificial Intelligence, 2018, 32, .	3.6	69
6453	Cross-Lingual Cybersecurity Analytics in the International Dark Web with Adversarial Deep Representation Learning. MIS Quarterly: Management Information Systems, 2022, 46, 1209-1226.	3.1	11
6454	Mining User Consumption Intention from Social Media Using Domain Adaptive Convolutional Neural Network. Proceedings of the AAAI Conference on Artificial Intelligence, 2015, 29, .	3.6	36
6455	Leveraging Features and Networks for Probabilistic Tensor Decomposition. Proceedings of the AAAI Conference on Artificial Intelligence, 2015, 29, .	3.6	6
6456	Deep Modeling Complex Couplings within Financial Markets. Proceedings of the AAAI Conference on Artificial Intelligence, 2015, 29, .	3.6	5
6457	Shakeout: A New Regularized Deep Neural Network Training Scheme. Proceedings of the AAAI Conference on Artificial Intelligence, 2016, 30, .	3.6	19
6458	The l2,1-Norm Stacked Robust Autoencoders for Domain Adaptation. Proceedings of the AAAI Conference on Artificial Intelligence, 2016, 30, .	3.6	12
6459	Combining Logical Abduction and Statistical Induction: Discovering Written Primitives with Human Knowledge. Proceedings of the AAAI Conference on Artificial Intelligence, 2017, 31, .	3.6	2
6460	TaGiTeD: Predictive Task Guided Tensor Decomposition for Representation Learning from Electronic Health Records. Proceedings of the AAAI Conference on Artificial Intelligence, 2017, 31, .	3.6	14
6461	Cascade Subspace Clustering. Proceedings of the AAAI Conference on Artificial Intelligence, 2017, 31, .	3.6	26
6462	Rice Bacterial Infection Detection Using Ensemble Technique on Unmanned Aerial Vehicles Images. Computer Systems Science and Engineering, 2023, 44, 991-1007.	1.9	5
6463	Holt-Winters Algorithm to Predict the Stock Value Using Recurrent Neural Network. Intelligent Automation and Soft Computing, 2023, 35, 1151-1163.	1.6	1

#	Article	IF	Citations
6464	Pre-Trained Multi-View Word Embedding Using Two-Side Neural Network. Proceedings of the AAAI Conference on Artificial Intelligence, 2014, 28, .	3.6	18
6465	Social Network Analysis Algorithms, Techniques and Methods. , 2021, , .		0
6467	RG-Flow: a hierarchical and explainable flow model based on renormalization group and sparse prior. Machine Learning: Science and Technology, 2022, 3, 035009.	2.4	4
6468	Hierarchical binding in convolutional neural networks: Making adversarial attacks geometrically challenging. Neural Networks, 2022, 155, 258-286.	3.3	1
6469	Automatic Seizure Identification from EEG Signals Based on Brain Connectivity Learning. International Journal of Neural Systems, 2022, 32, .	3.2	14
6470	Effectiveness of Neural Kriging for Three-Dimensional Modeling of Sparse and Strongly Biased Distribution of Geological Data with Application to Seafloor Hydrothermal Mineralization. Mathematical Geosciences, 0, , .	1.4	0
6472	Physically Interpretable Feature Learning of Supercritical Airfoils Based on Variational Autoencoders. AIAA Journal, 2022, 60, 6168-6182.	1.5	7
6473	Machine Learning for Electrocatalyst and Photocatalyst Design and Discovery. Chemical Reviews, 2022, 122, 13478-13515.	23.0	120
6474	The Worst of Both Worlds: A Comparative Analysis of Errors in Learning from Data in Psychology and Machine Learning. , 2022, , .		7
6475	Effective network intrusion detection via representation learning: A Denoising AutoEncoder approach. Computer Communications, 2022, 194, 55-65.	3.1	14
6476	Bagged tree ensemble modelling with feature selection for isometric EMG-based force estimation. Biomedical Signal Processing and Control, 2022, 78, 104012.	3.5	3
6477	Spectral Bisection Tree Guided Deep Adaptive Exemplar Autoencoder for Unsupervised Domain Adaptation. Proceedings of the AAAI Conference on Artificial Intelligence, 2016, 30, .	3.6	9
6478	Deep Quantization Network for Efficient Image Retrieval. Proceedings of the AAAI Conference on Artificial Intelligence, 2016, 30, .	3.6	100
6479	Nonlinear Feature Extraction with Max-Margin Data Shifting. Proceedings of the AAAI Conference on Artificial Intelligence, 2016, 30, .	3.6	1
6480	Metric-Based Auto-Instructor for Learning Mixed Data Representation. Proceedings of the AAAI Conference on Artificial Intelligence, 2018, 32, .	3.6	8
6481	Training and Evaluating Improved Dependency-Based Word Embeddings. Proceedings of the AAAI Conference on Artificial Intelligence, 2018, 32, .	3.6	2
6482	Machine Learning Based Forward Solver: An Automatic Framework in gprMax. , 2021, , .		3
6483	Cross-domain fault diagnosis through optimal transport for a CSTR process. IFAC-PapersOnLine, 2022, 55, 946-951.	0.5	2

#	ARTICLE	IF	CITATIONS
6484	Learning Physical Concepts in CPS: A Case Study with a Three-Tank System. IFAC-PapersOnLine, 2022, 55, 15-22.	0.5	1
6485	Comparing Semantic Representation Methods of Keywords in Bibliometric Analysis. SSRN Electronic Journal, 0, , .	0.4	0
6487	Learning Disentangled Graph Convolutional Networks Locally and Globally. IEEE Transactions on Neural Networks and Learning Systems, 2024, 35, 3640-3651.	7.2	1
6488	A Data-Driven Scheme Based on Sparse Projection Oblique Randomer Forests for Real-Time Dynamic Security Assessment. IEEE Access, 2022, 10, 79469-79479.	2.6	1
6489	Deep Generative Networks Coupled With Evidential Reasoning for Dynamic User Preferences Using Short Texts. IEEE Transactions on Knowledge and Data Engineering, 2022, , 1-16.	4.0	2
6490	MNIST Handwritten Digit Recognition using Machine Learning. , 2022, , .		13
6491	Quantitative Analysis of Transfer Learning for Image Classification. , 2022, , .		0
6492	Self-Supervised Radio-Visual Representation Learning for 6G Sensing. , 2022, , .		2
6493	Reinforcement Learning-Based Global Programming for Energy Efficiency in Multi-Cell Interference Networks. , 2022, , .		1
6494	Generalized Filtering with Transport Planning for Joint Modulation Conversion and Classification in AI-enabled Radios. , 2022, , .		1
6495	Field-aware Variational Autoencoders for Billion-scale User Representation Learning. , 2022, , .		3
6496	A New Unsupervised Feature Learning Method for Object Recognition using Prior-Knowledge Data. , 2022, , .		0
6497	Hybrid Deep Learning Neural System for Brain Tumor Detection. , 2022, , .		21
6498	Feature Optimization in Sentiment Analysis by Term Co-occurrence Fitness Evolution (TCFE). , 2022, , 496-518.		0
6499	Deep Learning for Sentiment Analysis. , 2022, , 27-62.		0
6500	Self-Supervised Voxel-Level Representation Rediscovers Subcellular Structures in Volume Electron Microscopy. , 2022, , .		3
6501	Face Detection and Recognition From Distance Based on Deep Learning. Advances in Digital Crime, Forensics, and Cyber Terrorism, 2022, , 1-17.	0.4	8
6502	Self-supervised Contrastive Learning Approach for Bearing Fault Diagnosis with Rare Labeled Data. , 2022, , .		2

#	Article	IF	Citations
6503	LIBNVCD: An Extendable and User-friendly Multi-GPU Performance Measurement Tool. , 2022, , .		0
6504	Discriminability-enforcing loss to improve representation learning. , 2022, , .		1
6505	Reimagining Situation Awareness and Option Awareness for Human-Machine Teaming. , 2022, , .		0
6506	Contexts Embedding for Sequential Service Recommendation. , 2022, , .		1
6507	Assessment of machine learning techniques for prediction of integrated water vapor using meteorological data. Vietnam Journal of Earth Sciences, 0, , .	1.0	1
6508	Research on reasoning method of multi-relational knowledge graph based on translation. Journal of Physics: Conference Series, 2022, 2303, 012028.	0.3	0
6509	Leveraging deep neural networks to estimate age-specific mortality from life expectancy at birth. Demographic Research, 0, 47, 199-232.	2.0	2
6510	Artificial Intelligence and Cardiovascular Magnetic Resonance Imaging in Myocardial Infarction Patients. Current Problems in Cardiology, 2022, 47, 101330.	1.1	1
6511	Machine learning-based predictive modeling of depression in hypertensive populations. PLoS ONE, 2022, 17, e0272330.	1.1	13
6512	In-Processing Modeling Techniques for Machine Learning Fairness: A Survey. ACM Transactions on Knowledge Discovery From Data, 2023, 17, 1-27.	2.5	11
6513	A Study on Indirect Performance Parameters of Object Detection. SN Computer Science, 2022, 3, .	2.3	1
6514	Persuasive e-Health Design for Behavior Change. Studies in Neuroscience, Psychology and Behavioral Economics, 2023, , 347-364.	0.1	2
6515	ECG Heartbeat Classification Using CONVXGB Model. Electronics (Switzerland), 2022, 11, 2280.	1.8	5
6516	Towards Proper Contrastive Self-Supervised Learning Strategies for Music Audio Representation. , 2022, , .		0
6517	A Spatio-Temporal Feature Trajectory Clustering Algorithm Based on Deep Learning. Electronics (Switzerland), 2022, 11, 2283.	1.8	0
6518	Multi-Modal 3D Shape Clustering with Dual Contrastive Learning. Applied Sciences (Switzerland), 2022, 12, 7384.	1.3	2
6519	Multiview clustering via nonnegative matrix factorization based on graph agreement. Journal of Electronic Imaging, 2022, 31, .	0.5	0
6520	Design and development of novel hybrid optimization-based convolutional neural network for software bug localization. Soft Computing, 2022, 26, 13651-13672.	2.1	2

#	Article	IF	Citations
6521	FedGradNorm: Personalized Federated Gradient-Normalized Multi-Task Learning. , 2022, , .		5
6522	Balance Between Efficient and Effective Learning: Dense2Sparse Reward Shaping for Robot Manipulation with Environment Uncertainty. , 2022, , .		2
6524	Unsupervised layer-wise feature extraction algorithm for surface electromyography based on information theory. Frontiers in Neuroscience, 0, 16, .	1.4	0
6525	Improved YOLOv5 Based on Hybrid Domain Attention for Small Object Detection in Optical Remote Sensing Images. Electronics (Switzerland), 2022, 11, 2657.	1.8	5
6526	Automatically Discovering User Consumption Intents in Meituan. , 2022, , .		5
6527	Deep sequence representation learning for predicting human proteins with liquid-liquid phase separation propensity and synaptic functions. , 2022, , .		1
6528	MSDA-NMF: A Multilayer Complex System Model Integrating Deep Autoencoder and NMF. Mathematics, 2022, 10, 2750.	1.1	0
6530	A method using deep learning to discover new predictors from left-ventricular mechanical dyssynchrony for CRT response. Journal of Nuclear Cardiology, 2023, 30, 201-213.	1.4	5
6531	Application of Machine Learning in the Field of Intraoperative Neurophysiological Monitoring: A Narrative Review. Applied Sciences (Switzerland), 2022, 12, 7943.	1.3	9
6532	Towards the FAIRification of Scanning Tunneling Microscopy Images. Data Intelligence, 0, , 1-16.	0.8	1
6533	Deep Learning Ensemble Model for the Prediction of Traffic Accidents Using Social Media Data. Computers, 2022, 11, 126.	2.1	9
6534	Variational Flow Graphical Model. , 2022, , .		3
6535	Training Process of Unsupervised Learning Architecture for Gravity Spy Dataset. Annalen Der Physik, 2024, 536, .	0.9	2
6536	Learning Representations for Face Recognition: A Review from Holistic to Deep Learning. Advances in Technology Innovation, 2022, 7, 279-294.	0.3	0
6537	Detecting Personal Medication Intake in Twitter via Domain Attention-Based RNN with Multi-Level Features. Computational Intelligence and Neuroscience, 2022, 2022, 1-7.	1.1	0
6538	Calibration-Free 3D Indoor Positioning Algorithms Based on DNN and DIFF. Sensors, 2022, 22, 5891.	2.1	5
6539	Causal machine learning for healthcare and precision medicine. Royal Society Open Science, 2022, 9, .	1.1	40
6540	A Primer on the Factories of the Future. Sensors, 2022, 22, 5834.	2.1	8

#	Article	IF	Citations
6541	Self-Supervised Learning for Scene Classification in Remote Sensing: Current State of the Art and Perspectives. Remote Sensing, 2022, 14, 3995.	1.8	15
6542	Disentangled Representation Learning and Generation With Manifold Optimization. Neural Computation, 2022, 34, 2009-2036.	1.3	2
6543	An Efficient Encoder-Decoder CNN for Brain Tumor Segmentation in MRI Images. IETE Journal of Research, 0, , 1-12.	1.8	0
6544	Rapid Polyp Classification in Colonoscopy Using Textural and Convolutional Features. Healthcare (Switzerland), 2022, 10, 1494.	1.0	10
6545	Automated detection of coastal upwelling in the Western Indian Ocean: Towards an operational â€œUpwelling Watchâ€•system. Frontiers in Marine Science, 0, 9, .	1.2	1
6546	ConvNet-based performers attention and supervised contrastive learning for activity recognition. Applied Intelligence, 0, , .	3.3	0
6547	Representation Learning in Multi-view Clustering: A Literature Review. Data Science and Engineering, 2022, 7, 225-241.	4.6	16
6549	Aligning Dual Disentangled User Representations from Ratings and Textual Content. , 2022, , .		1
6550	Challenges and opportunities of image and video retrieval. , 0, 1, .		2
6551	Precision dynamical mapping using topological data analysis reveals a hub-like transition state at rest. Nature Communications, 2022, 13, .	5.8	17
6552	Weakly-Supervised Action Localization, and Action Recognition Using Globalâ€“Local Attention of 3D CNN. International Journal of Computer Vision, 2022, 130, 2349-2363.	10.9	6
6555	Integrating graph structure information and node attributes to predict protein-protein interactions. Journal of Computational Science, 2022, 64, 101837.	1.5	1
6556	Interactive optimization of embedding-based text similarity calculations. Information Visualization, 2022, 21, 335-353.	1.2	2
6557	Auxiliary Segmentation Method of Osteosarcoma in MRI Images Based on Denoising and Local Enhancement. Healthcare (Switzerland), 2022, 10, 1468.	1.0	18
6558	Computer vision classification of dry beans (Phaseolus vulgaris L.) based on deep transfer learning techniques. European Food Research and Technology, 2022, 248, 2707-2725.	1.6	20
6559	Contrastive self-supervised learning: review, progress, challenges and future research directions. International Journal of Multimedia Information Retrieval, 2022, 11, 461-488.	3.6	11
6560	Deep and Machine Learning Image Classification of Coastal Wetlands Using Unpiloted Aircraft System Multispectral Images and Lidar Datasets. Remote Sensing, 2022, 14, 3937.	1.8	12
6561	A Deep Learning Approach to Clustering Visual Arts. International Journal of Computer Vision, 2022, 130, 2590-2605.	10.9	5

#	Article	IF	Citations
6562	Deep learning-based classification of the anterior chamber angle in glaucoma gonioscopy. Biomedical Optics Express, 2022, 13, 4668.	1.5	5
6563	Short‐term load forecasting in smart grids using artificial intelligence methods: A survey. Journal of Engineering, 2022, 2022, 1133-1142.	0.6	4
6564	Performance and usability testing of an automated tool for detection of peripheral artery disease using electronic health records. Scientific Reports, 2022, 12, .	1.6	10
6565	Identification of bacteriophage genome sequences with representation learning. Bioinformatics, 2022, 38, 4264-4270.	1.8	10
6567	The effective noise of stochastic gradient descent. Journal of Statistical Mechanics: Theory and Experiment, 2022, 2022, 083405.	0.9	10
6568	Artificial Intelligence on Urology Lab. The Korean Journal of Urological Oncology, 2022, 20, 163-176.	0.1	0
6569	Exploiting auto-encoders and segmentation methods for middle-level explanations of image classification systems. Knowledge-Based Systems, 2022, 255, 109725.	4.0	4
6570	Towards robust trajectory similarity computation: Representation-based spatio-temporal similarity quantification. World Wide Web, 0, , .	2.7	0
6571	Supplier Incentive Considering Overconfidence of Main Manufacturers from the Perspective of Capability Maturity of Intelligent Manufacturing. Journal of Testing and Evaluation, 2023, 51, 1804-1818.	0.4	0
6572	Potato late blight (<i>Phytophthora infestans</i>) disease forecasting using an auto-encoded long short-term memory recurrent neural networks in North-Western Algeria. Archives of Phytopathology and Plant Protection, 0, , 1-16.	0.6	0
6573	Explainability of Deep Vision-Based Autonomous Driving Systems: Review and Challenges. International Journal of Computer Vision, 2022, 130, 2425-2452.	10.9	51
6574	A photometry pipeline for SDSS images based on convolutional neural networks. Monthly Notices of the Royal Astronomical Society, 2022, 516, 264-278.	1.6	5
6575	Generalizable multi-task, multi-domain deep segmentation of sparse pediatric imaging datasets via multi-scale contrastive regularization and multi-joint anatomical priors. Medical Image Analysis, 2022, 81, 102556.	7.0	8
6576	Unsupervised machine learning in urban studies: A systematic review of applications. Cities, 2022, 129, 103925.	2.7	54
6577	Deep multi-scale resemblance network for the sub-class differentiation of adrenal masses on computed tomography images. Artificial Intelligence in Medicine, 2022, 132, 102374.	3.8	1
6578	Patent representation learning with a novel design of patent ontology: Case study on PEM patents. Technological Forecasting and Social Change, 2022, 183, 121912.	6.2	0
6579	Skeletal-based microstructure representation and featurization through descriptors. Computational Materials Science, 2022, 214, 111668.	1.4	2
6580	Intelligent user-collaborative edge device APC-based MEC 5G IoT for computational offloading and resource allocation. Journal of Parallel and Distributed Computing, 2022, 169, 286-300.	2.7	1

#	ARTICLE	IF	CITATIONS
6581	Federated learning review: Fundamentals, enabling technologies, and future applications. Information Processing and Management, 2022, 59, 103061.	5.4	123
6582	A model fusion strategy for identifying aircraft risk using CNN and Att-BiLSTM. Reliability Engineering and System Safety, 2022, 228, 108750.	5.1	19
6583	The infinite race between steganography and steganalysis in images. Signal Processing, 2022, 201, 108711.	2.1	12
6584	PMG-Net: Persian music genre classification using deep neural networks. Entertainment Computing, 2023, 44, 100518.	1.8	11
6585	Manifold-based unsupervised metric Learning, with applications in individualized predictions based on functional connectivity. Biomedical Signal Processing and Control, 2023, 79, 104081.	3.5	1
6589	Extraction of Saline Soil Distributions Using Different Salinity Indices and Deep Neural Networks. Remote Sensing, 2022, 14, 4647.	1.8	4
6590	Training Heterogeneous Features inÂSequence toÂSequence Tasks: Latent Enhanced Multi-filter Seq2Seq Model. Lecture Notes in Networks and Systems, 2023, , 103-117.	0.5	1
6591	Detection and Visualisation of Pneumoconiosis Using an Ensemble of Multi-Dimensional Deep Features Learned from Chest X-rays. International Journal of Environmental Research and Public Health, 2022, 19, 11193.	1.2	9
6592	Quantitative Investment Trading Model Based on Model Recognition Strategy with Deep Learning Method. Wireless Communications and Mobile Computing, 2022, 2022, 1-13.	0.8	1
6593	A review of machine learning techniques for process and performance optimization in laser beam powder bed fusion additive manufacturing. Journal of Intelligent Manufacturing, 2023, 34, 3249-3275.	4.4	13
6594	Changes over the Last 35 Years in Alaskaâ€™s Glaciated Landscape: A Novel Deep Learning Approach to Mapping Glaciers at Fine Temporal Granularity. Remote Sensing, 2022, 14, 4582.	1.8	6
6595	Dual adversarial model: Exploring low-dimensional space features for point clouds generating and completing. Computer Vision and Image Understanding, 2022, 223, 103551.	3.0	0
6596	CF-HSACNN: A joint anti-noise learning framework for centrifugal fan state recognition. Measurement: Journal of the International Measurement Confederation, 2022, 202, 111902.	2.5	1
6597	Semi-supervised adversarial recognition of refined window structures for inverse procedural faÃ§ade modelling. ISPRS Journal of Photogrammetry and Remote Sensing, 2022, 192, 215-231.	4.9	2
6598	Internal defects inspection of arc magnets using multi-head attention-based CNN. Measurement: Journal of the International Measurement Confederation, 2022, 202, 111808.	2.5	4
6599	HVIOnet: A deep learning based hybrid visualâ€“inertial odometry approach for unmanned aerial system position estimation. Neural Networks, 2022, 155, 461-474.	3.3	17
6600	Learning unsupervised disentangled skill latents to adapt unseen task and morphological modifications. Engineering Applications of Artificial Intelligence, 2022, 116, 105367.	4.3	2
6601	A survey on machine learning models for financial time series forecasting. Neurocomputing, 2022, 512, 363-380.	3.5	29

#	Article	IF	Citations
6602	IC-U-Net: A U-Net-based Denoising Autoencoder Using Mixtures of Independent Components for Automatic EEG Artifact Removal. NeuroImage, 2022, 263, 119586.	2.1	13
6603	Intelligent scanning for optimal rock discontinuity sets considering multiple parameters based on manifold learning combined with UAV photogrammetry. Engineering Geology, 2022, 309, 106851.	2.9	15
6604	Segmentation of weakly visible environmental microorganism images using pair-wise deep learning features. Biomedical Signal Processing and Control, 2023, 79, 104168.	3.5	7
6606	Adaptive Knowledge Driven Regularization for Deep Neural Networks. Proceedings of the AAAI Conference on Artificial Intelligence, 2021, 35, 8810-8818.	3.6	4
6607	Developments in Computer Science and Technical Applications. , 2022, , 189-201.		0
6608	Introduction to Deep Learning. , 2022, , 33-89.		0
6609	A Unified Graph Attention Network Based Framework for Inferring circRNA-Disease Associations. Lecture Notes in Computer Science, 2022, , 639-653.	1.0	0
6610	Cell Classification Based on Stacked Autoencoder for Single-Cell RNA Sequencing. Lecture Notes in Computer Science, 2022, , 245-259.	1.0	0
6611	OOD-GNN: Out-of-Distribution Generalized Graph Neural Network. IEEE Transactions on Knowledge and Data Engineering, 2022, , 1-14.	4.0	14
6612	Multi-Task Self-Supervised Learning for Vehicle Classification Based on Carrier-Free UWB Radars. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-12.	2.4	4
6613	Autoregressive Predictive Coding: A Comprehensive Study. IEEE Journal on Selected Topics in Signal Processing, 2022, 16, 1380-1390.	7.3	5
6614	Disentangled Graph Neural Networks for Session-Based Recommendation. IEEE Transactions on Knowledge and Data Engineering, 2023, , 1-13.	4.0	5
6615	Time Dependent Image Generation ofÂPlants fromÂIncomplete Sequences withÂCNN-Transformer. Lecture Notes in Computer Science, 2022, , 495-510.	1.0	3
6616	Detecting and Interpreting Changes in Scanning Behavior in Large Network Telescopes. IEEE Transactions on Information Forensics and Security, 2022, 17, 3611-3625.	4.5	3
6617	Locally Linear Embedding Discriminant Feature Learning Model. Communications in Computer and Information Science, 2022, , 3-14.	0.4	0
6618	A Deep Learning-Based Direct Forecasting of CO <sub>2</sub> Plume Migration. SSRN Electronic Journal, 0, , .	0.4	0
6619	SimH: a novel representation learning model with activation and projection mechanisms for COVID-19 knowledge bases. IEEE Journal of Biomedical and Health Informatics, 2022, , 1-11.	3.9	0
6620	Driving Risk Assessment Using Non-Negative Matrix Factorization With Driving Behavior Records. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 20398-20412.	4.7	5

#	Article	IF	Citations
6621	Deep Reinforcement Learning Based Automatic Control in Semi-Closed Greenhouse Systems. IFAC-PapersOnLine, 2022, 55, 406-411.	0.5	0
6622	Adjusting the Ground Truth Annotations for Connectivity-Based Learning to Delineate. IEEE Transactions on Medical Imaging, 2022, , 1-1.	5.4	1
6623	SPREAD: An ensemble predictor based on DNA autoencoder framework for discriminating promoters in <i>Pseudomonas aeruginosa</i>. Mathematical Biosciences and Engineering, 2022, 19, 13294-13305.	1.0	1
6624	Hybrid modeling approach for terpolymerization reactions in CSTR. IFAC-PapersOnLine, 2022, 55, 266-271.	0.5	0
6625	A survey on deep learning techniques in real-time applications. I-manager's Journal on Pattern Recognition, 2022, 9, 33.	0.3	0
6626	Using genome-wide expression compendia to study microorganisms. Computational and Structural Biotechnology Journal, 2022, 20, 4315-4324.	1.9	0
6627	Edge AI: Leveraging the Full Potential of Deep Learning. Studies in Computational Intelligence, 2022, , 27-46.	0.7	5
6628	Optical and SAR Image Registration Based on Feature Decoupling Network. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-13.	2.7	25
6629	JORA: Weakly Supervised User Identity Linkage via Jointly Learning to Represent and Align. IEEE Transactions on Neural Networks and Learning Systems, 2024, 35, 3900-3911.	7.2	2
6630	Random projections and kernelised leave one cluster out cross validation: universal baselines and evaluation tools for supervised machine learning of material properties. , 2022, 1, 763-778.		6
6631	Small is Beautiful: Compressing Deep Neural Networks for Partial Domain Adaptation. IEEE Transactions on Neural Networks and Learning Systems, 2024, 35, 3575-3585.	7.2	0
6632	A Comparative Study of Machine Learning Modeling in Electricity Load Forecasting. SSRN Electronic Journal, 0, , .	0.4	0
6633	ODDITY: An Ensemble Framework Leverages Contrastive Representation Learning forÂSuperior Anomaly Detection. Lecture Notes in Computer Science, 2022, , 417-437.	1.0	0
6634	A Systematic Literature Review on the Use of Deep Learning in Precision Livestock Detection and Localization Using Unmanned Aerial Vehicles. IEEE Access, 2022, 10, 80071-80091.	2.6	14
6635	SSAE and GRU Based Joint Modeling for Nonlinear Distributed Parameter Systems. IEEE Access, 2022, 10, 98501-98511.	2.6	0
6636	Modeling Multiple Views via Implicitly Preserving Global Consistency and Local Complementarity. IEEE Transactions on Knowledge and Data Engineering, 2022, , 1-17.	4.0	2
6637	A Unified Framework Based on Graph Consensus Term for Multiview Learning. IEEE Transactions on Neural Networks and Learning Systems, 2024, 35, 3964-3977.	7.2	0
6638	Self-Supervised Speech Representation Learning: A Review. IEEE Journal on Selected Topics in Signal Processing, 2022, 16, 1179-1210.	7.3	76

#	Article	IF	Citations
6639	Regularization of Inverse Problems by Neural Networks. , 2022, , 1-29.		1
6640	Discriminative Sparse Autoencoder for Gearbox Fault Diagnosis Toward Complex Vibration Signals. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-11.	2.4	3
6641	Non-Intrusive Load Monitoring Using Identity Library Based on Structured Feature Graph and Group Decision Classifier. IEEE Transactions on Smart Grid, 2023, 14, 1958-1973.	6.2	4
6642	IDLat: An Importance-Driven Latent Generation Method for Scientific Data. IEEE Transactions on Visualization and Computer Graphics, 2022, , 1-11.	2.9	0
6643	Unsupervised Remaining Useful Life Prediction through Long Range Health Index Estimation based on Encoders-Decoders. IFAC-PapersOnLine, 2022, 55, 718-723.	0.5	1
6644	A Survey of Smart Home IoT Device Classification Using Machine Learning-Based Network Traffic Analysis. IEEE Access, 2022, 10, 97117-97141.	2.6	14
6645	Machine Learning for Microcontroller-Class Hardware: A Review. IEEE Sensors Journal, 2022, 22, 21362-21390.	2.4	49
6646	Heart Valve Diseases Detection Based on Feature-Fusion and Hierarchical LSTM Network. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-11.	2.4	4
6647	A Large-scale Wireless Cell Long-term Dailygranularity Forecasting Method. IEEE Access, 2022, , 1-1.	2.6	0
6648	EAD-GAN: A Generative Adversarial Network for Disentangling Affine Transforms in Images. IEEE Transactions on Neural Networks and Learning Systems, 2024, 35, 3652-3662.	7.2	1
6649	Pre-training Methods in Information Retrieval. Foundations and Trends in Information Retrieval, 2022, 16, 178-317.	5.8	14
6650	Visual Concept Programming: A Visual Analytics Approach to Injecting Human Intelligence At Scale. IEEE Transactions on Visualization and Computer Graphics, 2022, , 1-10.	2.9	4
6651	Hyperspectral Remote Sensing Images Feature Extraction Based on Higher-Order Spectra. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	1.4	1
6652	A Neuronal Realization of the Survival Algorithm. , 2022, , 49-72.		0
6653	The Development of Brain Theory. , 2022, , 229-249.		1
6654	A note on diagnosis and performance degradation detection in automatic control systems towards functional safety and cyber security. , 2022, 1, 2022004.		0
6655	Disentangled Graph Contrastive Learning With Independence Promotion. IEEE Transactions on Knowledge and Data Engineering, 2022, , 1-14.	4.0	2
6656	A Data-Locality-Aware Distributed Learning System. Lecture Notes in Networks and Systems, 2022, , 59-68.	0.5	0

#	Article	IF	Citations
6657	Federated Learning via Attentive Margin of Semantic Feature Representations. IEEE Internet of Things Journal, 2023, 10, 1517-1535.	5.5	2
6658	Open Long-Tailed Recognition in a Dynamic World. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2024, 46, 1836-1851.	9.7	4
6659	Enhancing IoT Data and Semantic Interoperability Based on Entity Tree Embedding Under an Edge–Cloud Framework. IEEE Internet of Things Journal, 2023, 10, 3322-3338.	5.5	1
6660	Data Driven Deep Learning Modeling: Methods in Multi-label Chest Radiograph Classification. SSRN Electronic Journal, 0, , .	0.4	1
6661	Artificial Intelligence and Philosophy of Science from the 1990s to 2020. Synthese Library, 2022, , 65-79.	0.1	1
6662	Semi-Supervised and Unsupervised Deep Visual Learning: A Survey. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2024, 46, 1327-1347.	9.7	12
6663	HiSA: Hierarchically Semantic Associating for Video Temporal Grounding. IEEE Transactions on Image Processing, 2022, 31, 5178-5188.	6.0	5
6664	Lifting Chest X-Ray Classification to Self-Attention based Architecture. SSRN Electronic Journal, 0, , .	0.4	0
6665	Examining the Size of the Latent Space of Convolutional Variational Autoencoders Trained With Spectral Topographic Maps of EEG Frequency Bands. IEEE Access, 2022, 10, 107575-107586.	2.6	7
6666	Exploring Latent Space Using a Non-linear Dimensionality Reduction Algorithm for Style Transfer Application. Communications in Computer and Information Science, 2022, , 277-286.	0.4	0
6667	The Accuracy Improvement of the Hyperspectral Satellite Image Classification by Using the Development of a Convolutional Neural Network and Deep Learning. Journal of Geospatial Information Technology, 2022, 9, 109-125.	0.2	0
6668	Anomaly Detection with Adversarially Learned Perturbations of Latent Space. , 2022, , .		1
6669	Probing Representation Forgetting in Supervised and Unsupervised Continual Learning. , 2022, , .		7
6670	Point Cloud Pre-training with Natural 3D Structures. , 2022, , .		13
6671	Towards Principled Disentanglement for Domain Generalization. , 2022, , .		26
6672	Multi-Objective Diverse Human Motion Prediction with Knowledge Distillation. , 2022, , .		8
6673	A Proposal-based Paradigm for Self-supervised Sound Source Localization in Videos. , 2022, , .		5
6674	Learning ABCs: Approximate Bijective Correspondence for isolating factors of variation with weak supervision. , 2022, , .		0

#	Article	IF	Citations
6675	Deep Reinforcement Learning Based Automatic Control in Semi-Closed Greenhouse Systems. , 2022, , .		0
6676	Rethinking Controllable Variational Autoencoders. , 2022, , .		2
6677	3D Shape Variational Autoencoder Latent Disentanglement via Mini-Batch Feature Swapping for Bodies and Faces. , 2022, , .		7
6678	Interactive Disentanglement: Learning Concepts by Interacting with their Prototype Representations. , 2022, , .		3
6679	Spark-Based Deep Learning for Recognition of Epileptic Seizures With Multimodal Brain Waves. Advances in Medical Technologies and Clinical Practice Book Series, 2022, , 158-182.	0.3	0
6680	Knowledge Distillation with the Reused Teacher Classifier. , 2022, , .		48
6681	GIRAFFE HD: A High-Resolution 3D-aware Generative Model. , 2022, , .		30
6682	What Makes Transfer Learning Work for Medical Images: Feature Reuse & Other Factors. , 2022, , .		32
6683	Towards Robust and Adaptive Motion Forecasting: A Causal Representation Perspective. , 2022, , .		13
6684	Representation Learning for Context-Dependent Decision-Making. , 2022, , .		1
6685	InfoGCN: Representation Learning for Human Skeleton-based Action Recognition. , 2022, , .		78
6686	Compressed Hierarchical Representations for Multi-Task Learning and Task Clustering. , 2022, , .		1
6687	Disentangled Neural Architecture Search. , 2022, , .		0
6688	GEAE: Gated Enhanced Autoencoder based Feature Extraction and Clustering for Customer Segmentation. , 2022, , .		1
6689	Clinical applications of deep learning in neurology and its enhancements with future predictions. , 2023, , 209-224.		0
6690	Disentangling the correlated continuous and discrete generative factors of data. Pattern Recognition, 2023, 133, 109055.	5.1	0
6691	Attack Behavior Extraction Based on Heterogeneous Cyberthreat Intelligence and Graph Convolutional Networks. Computers, Materials and Continua, 2023, 74, 235-252.	1.5	1
6692	Analog Neural Network Model based on Improved Logarithmic Multipliers. , 2022, , .		1

#	ARTICLE	IF	CITATIONS
6693	Combining Manifold Learning and Neural Field Dynamics for Multimodal Fusion. , 2022, , .		0
6694	White Matter Lesion Segmentation for Multiple Sclerosis Patients implementing deep learning. , 2022, , .		0
6695	Visual Question Answering Focusing on Object Positional Relation with Capsule Network. , 2022, , .		0
6696	HANDS: enHancing Academic performaNce via Deep foreSt. , 2022, , .		0
6697	Analysis of Machine Learning Algorithms for Breast Cancer Detection. , 2022, , 309-329.		0
6698	Patient identification methods based on medical imagery and their impact on patient privacy and open medical data. , 2022, , .		1
6699	Learning Unsupervised Disentangled Capsule via Mutual Information. , 2022, , .		1
6700	Deep Convolutional Neural Networks With Transfer Learning for Automobile Damage Image Classification. Journal of Database Management, 2022, 33, 1-16.	1.0	5
6701	Geometric Analysis and Metric Learning of Instruction Embeddings. , 2022, , .		0
6702	ACE: A Coarse-to-Fine Learning Framework for Reliable Representation Learning Against Label Noise. , 2022, , .		1
6703	Meta-learning from Learning Curves: Challenge Design and Baseline Results. , 2022, , .		0
6704	Adaptive Graph Convolutional Networks based on Decouple and Residuals to relieve Over-Smoothing. , 2022, , .		1
6705	Representation based Few-Shot Learning for Brand-logo Detection. , 2022, , .		1
6706	Chinese Sentence-level Event Factuality Identification with Recursive Neural Network. , 2022, , .		0
6707	Extracting Meaningful High-Fidelity Knowledge from Convolutional Neural Networks. , 2022, , .		2
6708	Audio-to-Image Cross-Modal Generation. , 2022, , .		1
6709	Leveraging Relational Information for Learning Weakly Disentangled Representations. , 2022, , .		0
6710	Î²-CapsNet: learning disentangled representation for CapsNet by information bottleneck. Neural Computing and Applications, 0, , .	3.2	0

#	Article	IF	Citations
6711	ITL-CNN: Integrated Transfer Learning-Based Convolution Neural Network for Ultrasound PCOS Image Classification. International Journal of Pattern Recognition and Artificial Intelligence, 2022, 36, .	0.7	7
6712	A modular framework to obtain representative microstructural cells of additively manufactured parts. Journal of Materials Research and Technology, 2022, 21, 1072-1094.	2.6	4
6713	Geospatial Information Research: State of the Art, Case Studies and Future Perspectives. PFG - Journal of Photogrammetry, Remote Sensing and Geoinformation Science, 2022, 90, 349-389.	0.7	5
6714	Statistical limits of dictionary learning: Random matrix theory and the spectral replica method. Physical Review E, 2022, 106, .	0.8	9
6715	Deciphering the noisy landscape: Architectural conceptual design space interpretation using disentangled representation learning. Computer-Aided Civil and Infrastructure Engineering, 2023, 38, 601-620.	6.3	3
6716	Applications of artificial intelligence in the field of air pollution: A bibliometric analysis. Frontiers in Public Health, 0, 10, .	1.3	2
6718	Cancelable face and iris recognition system based on deep learning. Optical and Quantum Electronics, 2022, 54, .	1.5	8
6719	Comparison of Convolutional Neural Networks and Transformers for the Classification of Images of COVID-19, Pneumonia and Healthy Individuals as Observed with Computed Tomography. Journal of Imaging, 2022, 8, 237.	1.7	4
6720	A Hybrid Clustering Approach Based on Fuzzy Logic and Evolutionary Computation for Anomaly Detection. Algorithms, 2022, 15, 342.	1.2	2
6721	A Novel Computer Vision Model for Medicinal Plant Identification Using Log-Gabor Filters and Deep Learning Algorithms. Computational Intelligence and Neuroscience, 2022, 2022, 1-21.	1.1	6
6722	Deep Learning Techniques for the Effective Prediction of Alzheimer's Disease: A Comprehensive Review. Healthcare (Switzerland), 2022, 10, 1842.	1.0	5
6723	A Note on Representational Understanding. Entropy, 2022, 24, 1313.	1.1	0
6724	Detection on Cell Cancer Using the Deep Transfer Learning and Histogram Based Image Focus Quality Assessment. Sensors, 2022, 22, 7007.	2.1	1
6725	Identifying household finance heterogeneity via deep clustering. Annals of Operations Research, 2023, 325, 1255-1289.	2.6	2
6726	A transformer model for learning spatiotemporal contextual representation in fMRI data. Network Neuroscience, 2023, 7, 22-47.	1.4	2
6727	CL ^{2} R: Compatible Lifelong Learning Representations. ACM Transactions on Multimedia Computing, Communications and Applications, 2022, 18, 1-22.	3.0	0
6728	Probabilistic design of optimal sequential decision-making algorithms in learning and control. Annual Reviews in Control, 2022, 54, 81-102.	4.4	6
6729	A review of biomedical datasets relating to drug discovery: a knowledge graph perspective. Briefings in Bioinformatics, 2022, 23, .	3.2	35

#	Article	IF	Citations
6730	Pre-train, Prompt, and Predict: A Systematic Survey of Prompting Methods in Natural Language Processing. ACM Computing Surveys, 2023, 55, 1-35.	16.1	453
6731	Evaluation of Private Enterprises Based on Deep Learning. Mobile Information Systems, 2022, 2022, 1-9.	0.4	0
6732	Deep Learning in Cell Image Analysis. , 2022, 2022, .		8
6733	An Unsupervised Multi-Dimensional Representation Learning Model for Short-Term Electrical Load Forecasting. Symmetry, 2022, 14, 1999.	1.1	3
6734	Deep learning models for spatial relation extraction in text. Geo-Spatial Information Science, 2023, 26, 58-70.	2.4	3
6735	Condition-Based Monitoring ofÂDC Motors Performed withÂAutoencoders. Lecture Notes in Networks and Systems, 2023, , 178-189.	0.5	0
6736	Deep anonymization of medical imaging. Multimedia Tools and Applications, 2023, 82, 9533-9547.	2.6	1
6737	Learning Degradation-Invariant Representation for Robust Real-World Person Re-Identification. International Journal of Computer Vision, 2022, 130, 2770-2796.	10.9	3
6738	A novel multi-scale and sparsity auto-encoder for classification. International Journal of Machine Learning and Cybernetics, 2022, 13, 3909-3925.	2.3	1
6739	Is Climate Change a Topic of Concern to Indians? Assessing and Predicting Sentiments Using Deep Learning Techniques. Environment and Urbanization ASIA, 0, , 097542532211206.	0.9	0
6740	Convolutional Modulation Theory: A bridge between Convolutional Neural Networks and Signal Modulation Theory. Neurocomputing, 2022, , .	3.5	1
6741	Foreformer: an enhanced transformer-based framework for multivariate time series forecasting. Applied Intelligence, 2023, 53, 12521-12540.	3.3	6
6742	A systematic review on data of additive manufacturing for machine learning applications: the data quality, type, preprocessing, and management. Journal of Intelligent Manufacturing, 2023, 34, 3305-3340.	4.4	6
6743	Oil production and pressure multimodal forecasting integrating high-frequency production data. Technical Papers ... Rio Oil & Gas, 2022, 22, 308-309.	0.0	0
6744	Prioritizing Virtual Screening with Interpretable Interaction Fingerprints. Journal of Chemical Information and Modeling, 2022, 62, 4300-4318.	2.5	13
6745	Forecasting carbon dioxide emission price using a novel mode decomposition machine learning hybrid model of CEEMDANâ€LSTM. Energy Science and Engineering, 2023, 11, 79-96.	1.9	15
6747	Internet of medical things and trending converged technologies: A comprehensive review on real-time applications. Journal of King Saud University - Computer and Information Sciences, 2022, 34, 9228-9251.	2.7	9
6748	SDNMF: Semisupervised discriminative nonnegative matrix factorization for feature learning. International Journal of Intelligent Systems, 2022, 37, 11547-11581.	3.3	1

#	ARTICLE	IF	CITATIONS
6749	ASCUE: An Adversarial Network-Based Semantical Conformance Checking Method for Unsupervised Event Extraction in Social Internet of Things. Computer Journal, 2022, 65, 2939-2952.	1.5	1
6751	Learning to Collocate Visual-Linguistic Neural Modules for Image Captioning. International Journal of Computer Vision, 2023, 131, 82-100.	10.9	4
6752	A two-stage estimation method based on Conceptors-aided unsupervised clustering and convolutional neural network classification for the estimation of the degradation level of industrial equipment. Expert Systems With Applications, 2023, 213, 118962.	4.4	3
6754	Multimodal tweet classification in disaster response systems using transformer-based bidirectional attention model. Neural Computing and Applications, 2023, 35, 1607-1627.	3.2	10
6755	VAE-Based Latent Representations Learning for Botnet Detection in IoT Networks. Journal of Network and Systems Management, 2023, 31, .	3.3	6
6756	Explainable machine learning for breakdown prediction in high gradient rf cavities. Physical Review Accelerators and Beams, 2022, 25, .	0.6	7
6757	Latent Variable Method Demonstrator â€" software for understanding multivariate data analytics algorithms. Computers and Chemical Engineering, 2022, 167, 108014.	2.0	4
6758	Current issues and emerging techniques for VLSI testing - A reviewâ˜†. Measurement: Sensors, 2022, 24, 100497.	1.3	0
6759	Comparing the latent space of generative models. Neural Computing and Applications, 0, , .	3.2	4
6760	Multi-type features separating fusion learning for Speech Emotion Recognition. Applied Soft Computing Journal, 2022, 130, 109648.	4.1	9
6761	Real-time driving risk assessment using deep learning with XGBoost. Accident Analysis and Prevention, 2022, 178, 106836.	3.0	8
6762	Visual-based Deep Learning for Clothing from Large Database. , 2015, , .		6
6763	Multi-View Representation Learning with Manifold Smoothness. Proceedings of the AAAI Conference on Artificial Intelligence, 2021, 35, 8447-8454.	3.6	2
6764	IB-GAN: Disentangled Representation Learning with Information Bottleneck Generative Adversarial Networks. Proceedings of the AAAI Conference on Artificial Intelligence, 2021, 35, 7926-7934.	3.6	14
6766	Planning from Pixels in Atari with Learned Symbolic Representations. Proceedings of the AAAI Conference on Artificial Intelligence, 2021, 35, 4941-4949.	3.6	1
6767	Variational Disentanglement for Rare Event Modeling. Proceedings of the AAAI Conference on Artificial Intelligence, 2021, 35, 10469-10477.	3.6	2
6768	Disentangled Representation Learning in Heterogeneous Information Network for Large-scale Android Malware Detection in the COVID-19 Era and Beyond. Proceedings of the AAAI Conference on Artificial Intelligence, 2021, 35, 7754-7761.	3.6	5
6769	Donâ€™t Forget Me: Accurate Background Recovery forÂText Removal viaÂModeling Local-Global Context. Lecture Notes in Computer Science, 2022, , 409-426.	1.0	3

#	Article	IF	Citations
6770	HybridFC: A Hybrid Fact-Checking Approach forÂKnowledge Graphs. Lecture Notes in Computer Science, 2022, , 462-480.	1.0	2
6771	DRLM: A Robust Drug Representation Learning Method and its Applications. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2023, 20, 3451-3460.	1.9	1
6772	Layer-Wise Residual-Guided Feature Learning With Deep Learning Networks for Industrial Quality Prediction. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-11.	2.4	9
6773	Semantic Novelty Detection viaÂRelational Reasoning. Lecture Notes in Computer Science, 2022, , 183-200.	1.0	1
6774	Interpretable Open-Set Domain Adaptation viaÂAngular Margin Separation. Lecture Notes in Computer Science, 2022, , 1-18.	1.0	3
6775	A Survey on Various Representation Learning of Hypergraph for Unsupervised Feature Selection. Lecture Notes in Electrical Engineering, 2022, , 71-82.	0.3	0
6776	Exploring Disentangled Content Information forÂFace Forgery Detection. Lecture Notes in Computer Science, 2022, , 128-145.	1.0	4
6777	Basics and Applications of AI in ADAS and Autonomous Vehicles. , 2022, , 17-48.		3
6778	A Survey of Machine Learning for Big Data Processing. Journal on Big Data, 2022, 4, 97-111.	0.7	0
6779	Serially Disentangled Learning forÂMulti-Layered Neural Networks. Lecture Notes in Computer Science, 2022, , 669-681.	1.0	0
6780	Factorizing Knowledge inÂNeural Networks. Lecture Notes in Computer Science, 2022, , 73-91.	1.0	35
6781	Overcoming Shortcut Learning inÂaÂTarget Domain byÂGeneralizing Basic Visual Factors fromÂaÂSource Domain. Lecture Notes in Computer Science, 2022, , 294-309.	1.0	4
6782	YoloMask: An Enhanced YOLO Model forÂDetection ofÂFace Mask Wearing Normality, Irregularity andÂSpoofing. Lecture Notes in Computer Science, 2022, , 205-213.	1.0	0
6783	Zero-shot program representation learning. , 2022, , .		2
6784	Anomaly Detection For Time Series Data Based on Multi-granularity Neighbor Residual Network. International Journal of Cognitive Computing in Engineering, 2022, 3, 180-187.	5.5	0
6785	Multiple-Perspective Caption Generation with Initial Attention Weights. , 2022, , .		2
6786	Fault Diagnosis and Condition Evaluation for Soft Start of a Kind of Typical Induction Motor. , 2022, , .		0
6787	The Promising Role of Representation Learning for Distributed Computing Continuum Systems. , 2022, , .		11

#	Article	IF	Citations
6789	MISCNN: A Novel Learning Scheme for CNN-Based Network Traffic Classification. , 2022, , .		3
6790	A Stochastic Coding Method of EEG Signals for Sleep Stage Classification. , 2022, , .		1
6791	Image Classification Based On Pcanet And Salient Feature Fusion. , 2022, , .		0
6792	A Systematic Review of â€˜Fairâ€™ AI Model Development for Image Classification and Prediction. Journal of Medical and Biological Engineering, 2022, 42, 816-827.	1.0	2
6793	Multi-Task Autoencoders and Transfer Learning for Day-Ahead Wind and Photovoltaic Power Forecasts. Energies, 2022, 15, 8062.	1.6	3
6794	Font Watermarking Network for Text Images. , 2022, , .		0
6795	Enhanced Ultrasound Classification of Microemboli Using Convolutional Neural Network. International Journal of Information Technology and Decision Making, 0, , 1-26.	2.3	0
6796	Non-invasive blood pressure estimation combining deep neural networks with pre-training and partial fine-tuning. Physiological Measurement, 2022, 43, 11NT01.	1.2	3
6797	A Review of Image Super-Resolution Approaches Based on Deep Learning and Applications in Remote Sensing. Remote Sensing, 2022, 14, 5423.	1.8	28
6798	Min-Max Cost andÂInformation Control inÂMulti-layered Neural Networks. Lecture Notes in Networks and Systems, 2023, , 1-17.	0.5	0
6799	Flexible learning of quantum states with generative query neural networks. Nature Communications, 2022, 13, .	5.8	3
6800	Exploring Dimensionality Reduction Techniques in Multilingual Transformers. Cognitive Computation, 2023, 15, 590-612.	3.6	2
6801	Evaluation of nine machine learning methods for estimating daily land surface radiation budget from MODIS satellite data. International Journal of Digital Earth, 2022, 15, 1784-1816.	1.6	3
6802	Machine learning for a sustainable energy future. Nature Reviews Materials, 2023, 8, 202-215.	23.3	76
6803	RF-URL. , 2022, , .		8
6804	Clustering by Directly Disentangling Latent Space. , 2022, , .		2
6805	Robust Self-Attention ConvLSTM-based Traffic Flow Prediction Model. , 2022, , .		0
6806	Multimodal heterogeneous graph attention network. Neural Computing and Applications, 2023, 35, 3357-3372.	3.2	4

#	Article	IF	Citations
6807	Selfâ€supervised image clustering from multiple incomplete views via constrastive complementary generation. IET Computer Vision, 2023, 17, 189-202.	1.3	0
6808	On component-wise dissimilarity measures and metric properties in pattern recognition. PeerJ Computer Science, 0, 8, e1106.	2.7	4
6809	Operationally meaningful representations of physical systems in neural networks. Machine Learning: Science and Technology, 2022, 3, 045025.	2.4	3
6810	Knowledge Tracing: A Survey. ACM Computing Surveys, 2023, 55, 1-37.	16.1	43
6811	SRL-SOA: Self-Representation Learning with Sparse 1D-Operational Autoencoder for Hyperspectral Image Band Selection. , 2022, , .		7
6812	CORE-lens. , 2022, , .		5
6813	Research progress and frontier analysis of fine-grained image classification based on CiteSpace. , 2022, , .		0
6814	SnTiEmd: Sentiment Specific Embedding Model Generation andÂEvaluation forÂaÂResource Constraint Language. Lecture Notes in Networks and Systems, 2023, , 242-252.	0.5	4
6815	SleepExpertNet: high-performance and class-balanced deep learning approach inspired from the expert neurologists for sleep stage classification. Journal of Ambient Intelligence and Humanized Computing, 2023, 14, 8067-8083.	3.3	3
6816	Development of Deep Learning Technique of Features for the Analysis of Clinical Images Integrated with CANN. BioMed Research International, 2022, 2022, 1-7.	0.9	4
6817	Disentangled Representation for Long-tail Senses of Word Sense Disambiguation. , 2022, , .		1
6818	Modeling Trajectories Obtained from External Sensors for Location Prediction via NLP Approaches. Sensors, 2022, 22, 7475.	2.1	1
6819	Gaussian guided frame sequence encoder network for action quality assessment. Complex & Intelligent Systems, 2023, 9, 1963-1974.	4.0	1
6820	AE-TPGG: a novel autoencoder-based approach for single-cell RNA-seq data imputation and dimensionality reduction. Frontiers of Computer Science, 2023, 17, .	1.6	5
6821	Query-adaptive training data recommendation for cross-building predictive modeling. Knowledge and Information Systems, 0, , .	2.1	0
6822	SENECA: Change detection in optical imagery using Siamese networks with Active-Transfer Learning. Expert Systems With Applications, 2023, 214, 119123.	4.4	3
6823	A Hybrid Method of Enhancing Accuracy of Facial Recognition System Using Gabor Filter and Stacked Sparse Autoencoders Deep Neural Network. Applied Sciences (Switzerland), 2022, 12, 11052.	1.3	2
6824	A Method for Plotting Disease Drug Analysis and Its Complications by Combining Sources of Scientific Documents Using Deep Learning Method with Drug Repurposing: Case Study Metformin. , 0, , .		0

#	Article	IF	Citations
6825	Joint Disentanglement of Labels and Their Features with VAE. , 2022, , .		2
6826	Learning rate of students detecting and annotating pediatric wrist fractures in supervised artificial intelligence dataset preparations. PLoS ONE, 2022, 17, e0276503.	1.1	0
6827	Consistency-Contrast Learning for Conceptual Coding. , 2022, , .		2
6828	Weed detection to weed recognition: reviewing 50 years of research to identify constraints and opportunities for large-scale cropping systems. Weed Technology, 2022, 36, 741-757.	0.4	8
6830	Eyebirds: Enabling the Public to Recognize Water Birds at Hand. Animals, 2022, 12, 3000.	1.0	2
6831	Deep learning near-infrared quality prediction based on multi-level dynamic feature. Vibrational Spectroscopy, 2022, 123, 103450.	1.2	0
6832	Interpreting mental state decoding with deep learning models. Trends in Cognitive Sciences, 2022, 26, 972-986.	4.0	8
6833	Reinforced Contrastive Graph Neural Networks (RCGNN) for Anomaly Detection. , 2022, , .		0
6834	Binomial adversarial representation learning for machinery fault feature extraction and diagnosis. Applied Soft Computing Journal, 2022, 131, 109772.	4.1	1
6835	Learning multimodal entity representations and their ensembles, with applications in a data-driven advisory framework for video game players. Information Sciences, 2022, 617, 193-210.	4.0	2
6836	MagicGAN: Multiagent Attacks Generate Interferential Category via GAN. Knowledge-Based Systems, 2022, 258, 110023.	4.0	2
6837	DouFu: A Double Fusion Joint Learning Method for Driving Trajectory Representation. Knowledge-Based Systems, 2022, 258, 110035.	4.0	3
6838	Deep semi-supervised clustering for multi-variate time-series. Neurocomputing, 2023, 516, 36-47.	3.5	2
6839	Topological graph representation of stratigraphic properties of spatial-geological characteristics and compression modulus prediction by mechanism-driven learning. Computers and Geotechnics, 2023, 153, 105112.	2.3	4
6840	Transfer learning based fault diagnosis of automobile dry clutch system. Engineering Applications of Artificial Intelligence, 2023, 117, 105522.	4.3	11
6841	A new data fusion driven-sparse representation learning method for bearing intelligent diagnosis in small and unbalanced samples. Engineering Applications of Artificial Intelligence, 2023, 117, 105513.	4.3	13
6842	AI-based ICD coding and classification approaches using discharge summaries: A systematic literature review. Expert Systems With Applications, 2023, 213, 118997.	4.4	9
6843	Deep Autoencoder-like NMF with Contrastive Regularization and Feature Relationship Preservation. Expert Systems With Applications, 2023, 214, 119051.	4.4	7

#	Article	IF	Citations
6844	Deep Learning: A key of Stepping into the Era of Big Data. Journal of Engineering Studies, 2014, 06, 233-243.	0.0	5
6846	Learning Word Representations from Relational Graphs. Proceedings of the AAAI Conference on Artificial Intelligence, 2015, 29, .	3.6	11
6847	LaTeRF: Label andÂText Driven Object Radiance Fields. Lecture Notes in Computer Science, 2022, , 20-36.	1.0	3
6848	Temporal Representation Learning on Monocular Videos for 3D Human Pose Estimation. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, , 1-12.	9.7	1
6849	DISP6D: Disentangled Implicit Shape andÂPose Learning forÂScalable 6D Pose Estimation. Lecture Notes in Computer Science, 2022, , 404-421.	1.0	3
6850	Evolutionary Automated Feature Engineering. Lecture Notes in Computer Science, 2022, , 574-586.	1.0	1
6851	MART: Mask-Aware Reasoning Transformer for Vehicle Re-Identification. IEEE Transactions on Intelligent Transportation Systems, 2022, , 1-16.	4.7	2
6852	Measuring Disentanglement: A Review of Metrics. IEEE Transactions on Neural Networks and Learning Systems, 2024, , 1-15.	7.2	10
6853	MMISeg: A Semi-supervised Segmentation Method Based onÂMixup andÂMutual Information forÂCardiac MRI Segmentation. Lecture Notes in Computer Science, 2022, , 233-246.	1.0	0
6854	Pay Attention toÂtheÂâ€œTailsâ€: A Novel Aspect-Fusion Model forÂLong-Tailed Aspect Category Detection. Lecture Notes in Computer Science, 2022, , 321-334.	1.0	1
6855	Introducing AI in Medicine. , 2022, , 3-20.		0
6856	Mind the gap â€" safely incorporating deep learning models into the actuarial toolkit. British Actuarial Journal, 2022, 27, .	0.2	2
6857	DFFIR-net: Infrared Dim Small Object Detection Network Constrained by Gray-level Distribution Model. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-15.	2.4	85
6858	Topic modeling algorithms and applications: A survey. Information Systems, 2023, 112, 102131.	2.4	37
6859	Feature selection and feature learning in machine learning applications for gas turbines: A review. Engineering Applications of Artificial Intelligence, 2023, 117, 105591.	4.3	20
6860	Semantic Structure-Based Word Embedding by Incorporating Concept Convergence and Word Divergence. Proceedings of the AAAI Conference on Artificial Intelligence, 2018, 32, .	3.6	7
6861	On Sample Complexity of Learning Shared Representations: The Asymptotic Regime. , 2022, , .		1
6862	Class Activation Maps for the disentanglement and occlusion of identity attributes in medical imagery. , 2022, , .		0

#	Article	IF	Citations
6863	Deep Neural Network With Feature Optimization Technique for Classification of Coronary Artery Disease. Advances in Computational Intelligence and Robotics Book Series, 2022, , 257-269.	0.4	0
6864	Data Augmentation Using Image-to-image Translation for Tongue Coating Thickness Classification with Imbalanced Data. , 2022, , .		2
6865	A robust epilepsy diagnosis method based on SDAE and CatBoost. , 2022, , .		0
6866	A novel heuristic target-dependent neural architecture search method with small samples. Frontiers in Plant Science, 0, 13, .	1.7	1
6867	Building surrogate models of nuclear density functional theory with Gaussian processes and autoencoders. Frontiers in Physics, 0, 10, .	1.0	6
6868	Architecture Design forÂPlain CNNs. Studies in Computational Intelligence, 2023, , 109-126.	0.7	0
6869	Explainable Data Fusion on Edge: Challenges and Opportunities. Studies in Computational Intelligence, 2023, , 117-138.	0.7	0
6870	Computational protein design with dataâ€driven approaches: Recent developments and perspectives. Wiley Interdisciplinary Reviews: Computational Molecular Science, 2023, 13, .	6.2	4
6871	State-of-Health Prediction Using Transfer Learning and a Multi-Feature Fusion Model. Sensors, 2022, 22, 8530.	2.1	1
6872	AI-based multidisciplinary framework to assess the impact of gamified video-based learning through schema and emotion analysis. Computers and Education Artificial Intelligence, 2022, 3, 100109.	6.9	0
6873	Deffini: A family-specific deep neural network model for structure-based virtual screening. Computers in Biology and Medicine, 2022, 151, 106323.	3.9	3
6874	Deep Learning Approach for Object Classification on Raw and Reconstructed GBSAR Data. Remote Sensing, 2022, 14, 5673.	1.8	5
6875	PSDCE: Physiological signal-based double chaotic encryption for instantaneous E-healthcare services. Future Generation Computer Systems, 2023, 141, 116-128.	4.9	7
6876	Improving Natural Language Person Description Search from Videos with Language Model Fine-Tuning and Approximate Nearest Neighbor. Big Data and Cognitive Computing, 2022, 6, 136.	2.9	0
6877	Sensing and Detection of Traffic Signs Using CNNs: An Assessment on Their Performance. Sensors, 2022, 22, 8830.	2.1	0
6878	Data augmentation: A comprehensive survey of modern approaches. Array, 2022, 16, 100258.	2.5	65
6879	Explaining predictive factors in patient pathways using autoencoders. PLoS ONE, 2022, 17, e0277135.	1.1	1
6880	Architecture Design forÂAnalyzing Hyperspectral Images. Studies in Computational Intelligence, 2023, , 203-217.	0.7	0

#	ARTICLE	IF	CITATIONS
6881	Cross-Modal Retrieval Using Deep Learning. Lecture Notes in Networks and Systems, 2023, , 725-734.	0.5	0
6882	Supervised Machine Learningâ€"Based Detection of Concrete Efflorescence. Symmetry, 2022, 14, 2384.	1.1	1
6883	An anomaly detection method based on random convolutional kernel and isolation forest for equipment state monitoring. Eksploatacja I Niezawodnosc, 2022, 24, 758-770.	1.1	3
6884	Structural iterative lexicographic autoencoded node representation. Data Mining and Knowledge Discovery, 2023, 37, 289-317.	2.4	0
6885	Stance Classification of Social Media Texts for Under-Resourced Scenarios in Social Sciences. Data, 2022, 7, 159.	1.2	1
6886	Mineral Prospectivity Mapping Using Deep Self-Attention Model. Natural Resources Research, 2023, 32, 37-56.	2.2	13
6887	A Generalization of Sigmoid Loss Function Using Tsallis Statistics for Binary Classification. Neural Processing Letters, 0, , .	2.0	0
6888	A Survey of Learning Methods in Deep Neural Networks (DDN). Advances in Intelligent Systems and Computing, 2023, , 189-204.	0.5	0
6889	Efficient Deep Reinforcement Learning for Optimal Path Planning. Electronics (Switzerland), 2022, 11, 3628.	1.8	7
6890	Researches Advanced in the Development and Application of Transformers. , 0, 16, 155-167.		0
6891	Representational ethical model calibration. Npj Digital Medicine, 2022, 5, .	5.7	6
6892	Training Deep Architectures Without End-to-End Backpropagation: A Survey on the Provably Optimal Methods. IEEE Computational Intelligence Magazine, 2022, 17, 39-51.	3.4	1
6893	A review on autoencoder based representation learning for fault detection and diagnosis in industrial processes. Chemometrics and Intelligent Laboratory Systems, 2022, 231, 104711.	1.8	42
6894	Classification of Ground-Based Cloud Images by Contrastive Self-Supervised Learning. Remote Sensing, 2022, 14, 5821.	1.8	1
6895	Bearing fault diagnosis method based on multi-scale domain adaptative network across operating conditions. Measurement Science and Technology, 0, , .	1.4	3
6896	Variational Autoencoder Based Imbalanced COVID-19 Detection Using Chest X-Ray Images. New Generation Computing, 2023, 41, 25-60.	2.5	5
6897	Identifying behavioral structure from deep variational embeddings of animal motion. Communications Biology, 2022, 5, .	2.0	40
6898	Data preprocessing strategy in constructing convolutional neural network classifier based on constrained particle swarm optimization with fuzzy penalty function. Engineering Applications of Artificial Intelligence, 2023, 117, 105580.	4.3	10

#	ARTICLE	IF	CITATIONS
6899	Visualization of defects in CFRP-reinforced steel structures using improved eddy current pulsed thermography. Automation in Construction, 2023, 145, 104643.	4.8	9
6900	Severe rail wear detection with rail running band images. Computer-Aided Civil and Infrastructure Engineering, 2023, 38, 1162-1180.	6.3	4
6902	Clustering in Tractography Using Autoencoders (CINTA). Lecture Notes in Computer Science, 2022, , 125-136.	1.0	2
6903	A Domain Adaptive Convolutional Neural Network for sEMG-Based Gait Phase Recognition Against to Speed Changes. IEEE Sensors Journal, 2023, 23, 2565-2576.	2.4	2
6904	Modern Value Based Reinforcement Learning: A Chronological Review. IEEE Access, 2022, 10, 134704-134725.	2.6	1
6905	Deep learning-assisted analysis of automobiles handling performances. Communications in Applied and Industrial Mathematics, 2022, 13, 78-95.	0.6	0
6906	Multi-Information Fusion Fault Diagnosis of Bogie Bearing Under Small Samples via Unsupervised Representation Alignment Deep Q-Learning. IEEE Transactions on Instrumentation and Measurement, 2023, 72, 1-15.	2.4	2
6907	A study on multi-exponential inversion of nuclear magnetic resonance relaxation data using deep learning. Journal of Magnetic Resonance, 2023, 346, 107358.	1.2	3
6908	A novel battery abnormality detection method using interpretable Autoencoder. Applied Energy, 2023, 330, 120312.	5.1	6
6909	Progressive Deep Image Compression for Hybrid Contexts of Image Classification and Reconstruction. IEEE Journal on Selected Areas in Communications, 2023, 41, 72-89.	9.7	4
6910	A Multi-View Deep Metric Learning approach for Categorical Representation on mixed data. Knowledge-Based Systems, 2023, 260, 110161.	4.0	1
6911	Classification of hyperspectral images with copulas. Journal of Computational Mathematics and Data Science, 2023, 6, 100070.	1.3	1
6912	Parametric model embedding. Computer Methods in Applied Mechanics and Engineering, 2023, 404, 115776.	3.4	8
6913	Deep learning method based on autoencoder neural network applied to faults detection and diagnosis of photovoltaic system. Simulation Modelling Practice and Theory, 2023, 123, 102704.	2.2	8
6914	Representation learning for continuous action spaces is beneficial for efficient policy learning. Neural Networks, 2023, 159, 137-152.	3.3	1
6915	Predicting Household Electric Power Consumption Using Multi-step Time Series with Convolutional LSTM. Big Data Research, 2023, 31, 100360.	2.6	12
6916	Early stopping by correlating online indicators in neural networks. Neural Networks, 2023, 159, 109-124.	3.3	14
6917	Improving topic disentanglement via contrastive learning. Information Processing and Management, 2023, 60, 103164.	5.4	2

#	Article	IF	Citations
6918	Unsupervised Fault Detection Driven by Multivariate Time Series for Aeroengines. Journal of Aerospace Engineering, 2023, 36, .	0.8	1
6919	An unsupervised structural health monitoring framework based on Variational Autoencoders and Hidden Markov Models. Reliability Engineering and System Safety, 2023, 231, 109025.	5.1	11
6920	subGE: Enhancing the subgraph representation of molecular compounds structure–activity relationship discovery. Engineering Applications of Artificial Intelligence, 2023, 119, 105727.	4.3	0
6921	Can unsupervised machine learning boost the on-site analysis of in situ synchrotron diffraction data?. Scripta Materialia, 2023, 226, 115238.	2.6	1
6922	Solving multi-objective optimization problem of convolutional neural network using fast forward quantum optimization algorithm: Application in digital image classification. Advances in Engineering Software, 2023, 176, 103370.	1.8	7
6923	GH-Feat: Learning Versatile Generative Hierarchical Features From GANs. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2023, 45, 7395-7411.	9.7	1
6924	Identifying Large Scale Conformational Changes inÂProteins Through Distance Maps andÂConvolutional Networks. Lecture Notes in Computer Science, 2022, , 56-67.	1.0	0
6925	Bone Ablation Depth Estimation From Er:YAG Laser-Generated Acoustic Waves. IEEE Access, 2022, 10, 126603-126611.	2.6	0
6926	A New Intrusion Detection Algorithm AE-3WD for Industrial Controlç‡¦etwork. Journal of New Media, 2022, 4, 205-217.	1.2	0
6927	Efficient Acceleration of Deep Learning Inference on Resource-Constrained Edge Devices: A Review. Proceedings of the IEEE, 2023, 111, 42-91.	16.4	18
6928	Revealing the Distributional Vulnerability of Discriminators by Implicit Generators. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, , 1-13.	9.7	2
6929	Dictionary Learning-Based Reinforcement Learning with Non-convex Sparsity Regularizer. Lecture Notes in Computer Science, 2022, , 81-93.	1.0	0
6930	How to Fool Your Supervisor. IFAC-PapersOnLine, 2022, 55, 204-209.	0.5	0
6931	Micro-Supervised Disturbance Learning: A Perspective of Representation Probability Distribution. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2023, 45, 7542-7558.	9.7	5
6932	A Novel Weights of Weights Approach for Efficient Transfer Learning in Artificial Neural Networks. Procedia Computer Science, 2022, 212, 295-303.	1.2	1
6933	Automatic Detection andÂRecognition ofÂProducts andÂPlanogram Conformity Analysis inÂReal Time onÂStore Shelves. Lecture Notes in Computer Science, 2022, , 67-79.	1.0	1
6935	A deep representation learning speech enhancement method using Î²-VAE. , 2022, , .		0
6936	VPTR: Efficient Transformers for Video Prediction. , 2022, , .		3

#	Article	IF	Citations
6937	DAReN: A Collaborative Approach Towards Visual Reasoning And Disentangling. , 2022, , .		0
6938	Unsupervised Feature Recommendation using Representation Learning. , 2022, , .		0
6939	A Study on Robustness to Perturbations for Representations of Environmental Sound. , 2022, , .		2
6940	The Best of Both Worlds: Distributed PCA That is Both Exact and Communication Efficient. , 2022, , .		0
6941	Disentangling physical parameters for anomalous sound detection under domain shifts. , 2022, , .		2
6942	Exploiting Diversity of Unlabeled Data for Label-Efficient Semi-Supervised Active Learning. , 2022, , .		3
6943	A Novel Hybrid Model for Gasoline Prices Forecasting Based on Lasso and CNN. Journal of Social Computing, 2022, 3, 206-218.	1.5	1
6944	Deep Learning and Medical Imaging. , 2022, , 1468-1514.		0
6945	Deceiving Deep Neural Networks-Based Binary Code Matching with Adversarial Programs. , 2022, , .		0
6946	An Empirical Study on Performance Bugs in Deep Learning Frameworks. , 2022, , .		1
6947	An Interdisciplinary Perspective on Evaluation and Experimental Design for Visual Text Analytics: Position Paper. , 2022, , .		1
6948	Detecting Depression from Social Media Data as a Multiple-Instance Learning Task. , 2022, , .		1
6949	Automated Detection of Brain Abnormalities in MRI Images Using Integrated Deep Convolutional Neural Networks With K-Means Algorithm. , 2022, , .		0
6950	From Principal Component Analysis to Autoencoders: a comparison on simulated data from psychometric models. , 2022, , .		3
6951	A deep learning approach for detecting fake reviewers: Exploiting reviewing behavior and textual information. Decision Support Systems, 2023, 166, 113911.	3.5	19
6952	Segmentation and classification of ovarian cancer based on conditional adversarial image to image translation approach. Expert Systems, 0, , .	2.9	33
6953	Autoencoder Neural Network-Based STAP Algorithm for Airborne Radar with Inadequate Training Samples. Remote Sensing, 2022, 14, 6021.	1.8	2
6954	Smart and Sentient Retail High Streets. Smart Cities, 2022, 5, 1670-1720.	5.5	3

#	Article	IF	Citations
6955	CleverRiver: an open source and free Google Colab toolkit for deep-learning river-flow models. Earth Science Informatics, 0, , .	1.6	2
6956	X-Ray Breast Images Denoising Method Based on the Convolutional Autoencoder. Mathematical Problems in Engineering, 2022, 2022, 1-10.	0.6	1
6957	Learning Deep Representations of Cardiac Structures for 4D Cine MRI Image Segmentation through Semi-Supervised Learning. Applied Sciences (Switzerland), 2022, 12, 12163.	1.3	1
6958	Knowledge-aware representation learning for diagnosis prediction. Expert Systems, 2023, 40, .	2.9	1
6959	Variational inference of fractional Brownian motion with linear computational complexity. Physical Review E, 2022, 106, .	0.8	7
6961	A Coarse-to-Fine Grained Knowledge Refinement Framework for Network Intrusion Detection System. , 2022, , .		1
6962	MODIS Evapotranspiration Downscaling Using a Deep Neural Network Trained Using Landsat 8 Reflectance and Temperature Data. Remote Sensing, 2022, 14, 5876.	1.8	3
6963	Knowledge Distillation for Image Signal Processing Using Only the Generator Portion of a GAN. Electronics (Switzerland), 2022, 11, 3815.	1.8	0
6965	AdaFI-FCN: an adaptive feature integration fully convolutional network for predicting driver's visual attention. Geo-Spatial Information Science, 0, , 1-17.	2.4	1
6966	Student Dropout Prediction using 1D CNN-LSTM with Variational Autoencoder Oversampling. , 2022, , .		1
6967	Neural Topic Modeling via Discrete Variational Inference. ACM Transactions on Intelligent Systems and Technology, 2023, 14, 1-33.	2.9	0
6968	Video prediction by efficient transformers. Image and Vision Computing, 2023, 130, 104612.	2.7	8
6969	A DEXiRE for Extracting Propositional Rules from Neural Networks via Binarization. Electronics (Switzerland), 2022, 11, 4171.	1.8	4
6972	Breast cancer classification from histopathological images using transformers. , 2022, , .		3
6973	Hybrid Scheme of Kinematic Analysis and Lagrangian Koopman Operator Analysis for Short-Term Precipitation Forecasting. Journal of Disaster Research, 2022, 17, 1140-1149.	0.4	0
6974	Robust and fast low-rank deep convolutional feature recovery: toward information retention and accelerated convergence. Knowledge and Information Systems, 0, , .	2.1	0
6975	Audio self-supervised learning: A survey. Patterns, 2022, 3, 100616.	3.1	25
6976	Artificial Intelligence and Advanced Materials. Advanced Materials, 2023, 35, .	11.1	10

#	Article	IF	Citations
6977	Deep Learning in Diverse Intelligent Sensor Based Systems. Sensors, 2023, 23, 62.	2.1	7
6978	Reciprocal Assistance of Intravascular Imaging in Three-dimensional Stent Reconstruction: Using Cross-Modal Translation Based on Disentanglement Representation. Computerized Medical Imaging and Graphics, 2022, , 102166.	3.5	0
6979	Neuroevolution gives rise to more focused information transfer compared to backpropagation in recurrent neural networks. Neural Computing and Applications, 0, , .	3.2	1
6980	Deep Learning-Based Image Recognition of Agricultural Pests. Applied Sciences (Switzerland), 2022, 12, 12896.	1.3	5
6981	Attri-VAE: Attribute-based interpretable representations of medical images with variational autoencoders. Computerized Medical Imaging and Graphics, 2022, , 102158.	3.5	2
6982	Algorithm Recommendation and Performance Prediction Using Meta-Learning. International Journal of Neural Systems, 2023, 33, .	3.2	4
6983	<scp>LambdaPP</scp>: Fast and accessible protein-specific phenotype predictions. Protein Science, 2023, 32, .	3.1	5
6984	A Study on the Classification of Military Airplanes in Neighboring Countries Using Deep Learning and Various Data Augmentation Techniques. Journal of the Korea Institute of Military Science and Technology, 2022, 25, 572-579.	0.1	0
6985	Feature Space of XRD Patterns Constructed by an Autoencoder. Advanced Theory and Simulations, 2023, 6, .	1.3	5
6986	Eleven quick tips for data cleaning and feature engineering. PLoS Computational Biology, 2022, 18, e1010718.	1.5	13
6987	Learning Explainable Disentangled Representations of E-Commerce Data by Aligning Their Visual and Textual Attributes. Computers, 2022, 11, 182.	2.1	2
6988	Expressivity of Deep Neural Networks. , 2022, , 149-199.		3
6989	An ensemble model considering health index based classification for remaining useful life prediction. Quality and Reliability Engineering International, 0, , .	1.4	0
6990	A critical guide to the automated quantification of perivascular spaces in magnetic resonance imaging. Frontiers in Neuroscience, 0, 16, .	1.4	8
6991	Pediatric radius torus fractures in x-rays—how computer vision could render lateral projections obsolete. Frontiers in Pediatrics, 0, 10, .	0.9	1
6992	Explainable AI: A review of applications to neuroimaging data. Frontiers in Neuroscience, 0, 16, .	1.4	9
6993	Ecological Analogy for Generative Adversarial Networks and Diversity Control. Journal of Physics Complexity, 2023, 4, 01LT01.	0.9	1
6994	Improved Delineation of Colorectal Cancer Molecular Subtypes and Functional Profiles with a 62-Gene Panel. Molecular Cancer Research, 2023, 21, 240-252.	1.5	0

#	Article	IF	Citations
6995	TINYCD: a (not so) deep learning model for change detection. Neural Computing and Applications, 2023, 35, 8471-8486.	3.2	15
6996	Concept-wise granular computing for explainable artificial intelligence. Granular Computing, 2023, 8, 827-838.	4.4	5
6999	Cascading Pose Features with CNN-LSTM for Multiview Human Action Recognition. Signals, 2023, 4, 40-55.	1.2	8
7000	A Codeword-Independent Localization Technique for Reconfigurable Intelligent Surface Enhanced Environments Using Adversarial Learning. Sensors, 2023, 23, 984.	2.1	0
7001	Blood vessel detection using enhanced <scp>DeepJoint</scp> fuzzy clustering algorithm with deep Maxout network for glaucoma detection. Concurrency Computation Practice and Experience, 0, , .	1.4	0
7002	Application of Artificial Intelligence in Oral and Maxillofacial Anesthesia. , 2023, , 327-338.		0
7003	User structural information in priority-based ranking for top-N recommendation. Advances in Computational Intelligence, 2023, 3, .	0.7	0
7004	Prediction of Soil Organic Matter with Deep Learning. Arabian Journal for Science and Engineering, 2023, 48, 10227-10247.	1.7	3
7005	Opening the Black Box: A practitioner's guide to Artificial Intelligence and Machine Learning in assessment (Part 1). Assessment & Development Matters, 2018, 10, 29-33.	0.1	0
7006	FAST-PCA: A Fast and Exact Algorithm for Distributed Principal Component Analysis. IEEE Transactions on Signal Processing, 2022, 70, 6080-6095.	3.2	5
7007	Selected Aspects of Interactive Feature Extraction. Lecture Notes in Computer Science, 2022, , 121-287.	1.0	3
7008	Efficient feature extraction from highly sparse binary genotype data for cancer prognosis prediction using an auto-encoder. Frontiers in Oncology, 0, 12, .	1.3	1
7009	Semi-supervised 3D shape segmentation with multilevel consistency and part substitution. Computational Visual Media, 2023, 9, 229-247.	10.8	4
7010	Scaffold and Structural Diversity of the Secondary Metabolite Space of Medicinal Fungi. ACS Omega, 2023, 8, 3102-3113.	1.6	8
7011	An Intelligent Diagnostic Method for Multisource Coupling Faults of Complex Mechanical Systems. Shock and Vibration, 2023, 2023, 1-12.	0.3	2
7012	GAM-SpCaNet: Gradient awareness minimization-based spinal convolution attention network for brain tumor classification. Journal of King Saud University - Computer and Information Sciences, 2023, 35, 560-575.	2.7	4
7013	Interindividual Correlation and Dimension-Based Dual Learning for Dynamic Multiobjective Optimization. IEEE Transactions on Evolutionary Computation, 2023, 27, 1780-1793.	7.5	5
7014	Network Pathway Extraction Focusing on Object Level. Eng, 2023, 4, 151-158.	1.2	1

#	ARTICLE	IF	CITATIONS
7015	A Generative Verification Framework on Statistical Stability for Data-Driven Controllers. IEEE Access, 2023, 11, 5267-5280.	2.6	0
7016	Machine Learning Based Cigarette Butt Detection Using YOLO Framework. , 2023, , 651-661.		1
7017	White Blood Cells Classification Using Entropy-Controlled Deep Features Optimization. Diagnostics, 2023, 13, 352.	1.3	16
7018	Most Resource Efficient Matrix Vector Multiplication on FPGAs. IEEE Access, 2023, 11, 3881-3898.	2.6	4
7019	Disentangled representations: towards interpretation of sex determination from hip bone. Visual Computer, 2023, 39, 6673-6687.	2.5	2
7020	The â€˜Atlasâ€™ of Design Conceptual Space: A Design Thinking Framework with Cognitive and Computational Footings. , 2023, , 361-378.		1
7022	Deep Learning in Cervical Cancer Diagnosis: Architecture, Opportunities, and Open Research Challenges. IEEE Access, 2023, 11, 6133-6149.	2.6	8
7023	Geometric Affinity Propagation for Clustering With Network Knowledge. IEEE Transactions on Knowledge and Data Engineering, 2023, , 1-18.	4.0	0
7024	Fisher's Linear Discriminant Analysis With Space-Folding Operations. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2023, , 1-8.	9.7	1
7025	A Machine Learning Enhanced Approach for Automated Sunquake Detection in Acoustic Emission Maps. Solar Physics, 2023, 298, .	1.0	2
7026	Clustering unknown network traffic with dual-path autoencoder. Neural Computing and Applications, 0, , .	3.2	0
7027	Prediction of Accident and Accident Severity Based on Heterogeneous Data. Lecture Notes in Computer Science, 2023, , 369-374.	1.0	2
7028	Representation Learning-Driven Fully Automated Framework for the Inverse Design of Frequency-Selective Surfaces. IEEE Transactions on Microwave Theory and Techniques, 2023, 71, 2409-2421.	2.9	5
7029	Deep Domain Adaptation Using Cascaded Learning Networks and Metric Learning. IEEE Access, 2023, 11, 3564-3572.	2.6	1
7030	Toward Label-Efficient Neural Network Training: Diversity-Based Sampling in Semi-Supervised Active Learning. IEEE Access, 2023, 11, 5193-5205.	2.6	1
7031	Research on Blast Furnace Tuyere Image Anomaly Detection, Based on the Local Channel Attention Residual Mechanism. Applied Sciences (Switzerland), 2023, 13, 802.	1.3	3
7032	The geometry of cortical representations of touch in rodents. Nature Neuroscience, 2023, 26, 239-250.	7.1	17
7033	A Novel Framework for Classification of Different Alzheimerâ€™s Disease Stages Using CNN Model. Electronics (Switzerland), 2023, 12, 469.	1.8	10

#	ARTICLE	IF	CITATIONS
7034	Demand Forecasting of Spare Parts Using Artificial Intelligence: A Case Study of K-X Tanks. Mathematics, 2023, 11, 501.	1.1	4
7035	Angle-of-Arrival Sensing Using a Machine Learning Enhanced Amplitude-Only System. IEEE Sensors Journal, 2023, 23, 3878-3888.	2.4	3
7036	Automated Bone Tumor Segmentation and Classification as Benign or Malignant Using Computed Tomographic Imaging. Journal of Digital Imaging, 2023, 36, 869-878.	1.6	3
7037	User behavior prediction model based on implicit links and multi-type rumor messages. Knowledge-Based Systems, 2023, 262, 110276.	4.0	4
7038	Learning urban region representations with POIs and hierarchical graph infomax. ISPRS Journal of Photogrammetry and Remote Sensing, 2023, 196, 134-145.	4.9	13
7039	A new representation learning approach for credit data analysis. Information Sciences, 2023, 627, 115-131.	4.0	1
7040	A deep learning-based direct forecasting of CO2 plume migration. , 2023, 221, 211363.		2
7041	The top 100 most cited articles on artificial intelligence in radiology: a bibliometric analysis. Clinical Radiology, 2023, 78, 99-106.	0.5	5
7042	Reinforcement learning from expert demonstrations with application to redundant robot control. Engineering Applications of Artificial Intelligence, 2023, 119, 105753.	4.3	7
7043	FFT pattern recognition of crystal HRTEM image with deep learning. Micron, 2023, 166, 103402.	1.1	3
7044	Controllable facial attribute editing via Gaussian mixture model disentanglement. , 2023, 134, 103916.		0
7045	An enhanced attentive implicit relation embedding for social recommendation. Data and Knowledge Engineering, 2023, 145, 102142.	2.1	2
7046	Self-supervised semi-supervised nonnegative matrix factorization for data clustering. Pattern Recognition, 2023, 137, 109282.	5.1	13
7047	Generalizability Analysis of Graph-based Trajectory Predictor with Vectorized Representation. , 2022, , .		2
7048	Visualization and Prediction of Rainfall Using Deep Learning and Machine Learning Techniques. , 2022, , .		5
7049	Myeloma, Melanoma, Lung, Breast, Colon and Brain Cancer Detection Using Deep Learning in Web Based Application. , 2022, , .		0
7050	Using Autoencoders to Reduce Dimensionality of DICOM Metadata. , 2022, , .		0
7051	Flexible ConvNext Block Based Multi-task Learning Framework for Liver MRI Images Analysis. , 2022, , .		0

#	ARTICLE	IF	CITATIONS
7052	Knowledge Enhanced Coreference Resolution via Gated Attention. , 2022, , .		0
7053	Tire Pattern Image Classification using Variational Auto-Encoder with Contrastive Learning. , 2022, , .		0
7054	Verification of Iridology in Determining Dysfunctionality of Heart Through Deep-Learning. , 2022, , .		0
7055	An Automatic Premature Ventricular Contraction Recognition System Based on Imbalanced Dataset and Pre-Trained Residual Network Using Transfer Learning on ECG Signal. Diagnostics, 2023, 13, 87.	1.3	7
7056	Comparative Analysis of Machine Learning Algorithms using GANs through Credit Card Fraud Detection. , 2022, , .		0
7057	An Efficient Temporal Network with Dual Self-Distillation for Electroencephalography Signal Classification. , 2022, , .		27
7058	Diameter Prediction of Silicon Ingots in the Czochralski Process Based on a Hybrid Deep Learning Model. Crystals, 2023, 13, 36.	1.0	2
7059	Identification of lncRNA-related protein-coding genes using multi-omics data based on deep learning and matrix completion. , 2022, , .		1
7060	How a Minimal Learning Agent can Infer the Existence of Unobserved Variables in a Complex Environment. Minds and Machines, 2023, 33, 185-219.	2.7	1
7061	Multimodal feature learning framework for disease biomarker discovery. , 2022, , .		0
7062	Short Text Clustering Algorithms, Application and Challenges: A Survey. Applied Sciences (Switzerland), 2023, 13, 342.	1.3	6
7064	Cancer Identification in Enteric Nervous System Preclinical Images Using Handcrafted and Automatic Learned Features. Neural Processing Letters, 0, , .	2.0	0
7065	Signal denoising through topographic modularity of neural circuits. ELife, 0, 12, .	2.8	0
7066	A machine learning approach to analyse and predict the electric cars scenario: The Italian case. PLoS ONE, 2023, 18, e0279040.	1.1	3
7067	Deep neural networks and advanced computer vision algorithms in the early diagnosis of skin diseases. , 2023, , 47-81.		1
7068	SHAFTS (v2022.3): a deep-learning-based Python package for simultaneous extraction of building height and footprint from sentinel imagery. Geoscientific Model Development, 2023, 16, 751-778.	1.3	2
7069	Machine Learning and MRI-based Diagnostic Models for ADHD: Are We There Yet?. Journal of Attention Disorders, 2023, 27, 335-353.	1.5	8
7070	SS-TBN: A Semi-Supervised Tri-Branch Network for COVID-19 Screening and Lesion Segmentation. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2023, 45, 10427-10442.	9.7	5

#	Article	IF	Citations
7071	Counterfactual Supervision-Based Information Bottleneck for Out-of-Distribution Generalization. Entropy, 2023, 25, 193.	1.1	0
7072	Big data and deep learning: extracting and revising chemical knowledge from data. , 2023, , 115-150.		0
7073	An Embedding-Dynamic Approach to Self-Supervised Learning. , 2023, , .		0
7074	A Novel Explainable Deep Learning Model with Class Specific Features. Lecture Notes in Computer Science, 2023, , 62-74.	1.0	0
7075	A Systematic Literature Review on Multimodal Machine Learning: Applications, Challenges, Gaps and Future Directions. IEEE Access, 2023, 11, 14804-14831.	2.6	7
7076	Online Compression and Reconstruction for Communication of Force-Tactile Signals. IEEE Communications Letters, 2023, 27, 981-985.	2.5	0
7077	Visual Analytics of Co-Occurrences to Discover Subspaces in Structured Data. ACM Transactions on Interactive Intelligent Systems, 2023, 13, 1-49.	2.6	0
7078	Architectural optimization and feature learning for high-dimensional time series datasets. Physical Review D, 2023, 107, .	1.6	1
7079	Autoencoding slow representations for semi-supervised data-efficient regression. Machine Learning, 0, , .	3.4	0
7080	Variational Bayesian Approach to Nonstationary and Oscillatory Slow Feature Analysis With Applications in Soft Sensing and Process Monitoring. IEEE Transactions on Control Systems Technology, 2023, 31, 1708-1719.	3.2	5
7081	SIUNet: Sparsity Invariant U-Net for Edge-Aware Depth Completion. , 2023, , .		3
7082	Pragmatic GeoAI: Geographic Information as Externalized Practice. KI - Kunstliche Intelligenz, 0, , .	2.2	2
7083	Pancreas ectopic fat. , 2023, , 117-130.		0
7084	HSIC-InfoGAN: Learning Unsupervised Disentangled Representations byÂMaximising Approximated Mutual Information. Lecture Notes in Computer Science, 2023, , 15-21.	1.0	0
7085	Predicting Chinese Commodity Futures Price: An EEMD-Hurst-LSTM Hybrid Approach. IEEE Access, 2023, 11, 14841-14858.	2.6	2
7086	Retinotopic Image Encoding by Samples of Counts. Lecture Notes in Computer Science, 2023, , 52-75.	1.0	4
7087	Machine understanding and deep learning representation. SynthÃˆse, 2023, 201, .	0.6	0
7088	A Novel Technique for Handwritten Digit Recognition Using Deep Learning. Journal of Sensors, 2023, 2023, 1-15.	0.6	5

#	Article	IF	Citations
7089	Representation Learning withÂInformation Theory toÂDetect COVID-19 andÂIts Severity. Lecture Notes in Computer Science, 2023, , 605-620.	1.0	0
7090	A Novel Temporal Network-Embedding Algorithm for Link Prediction in Dynamic Networks. Entropy, 2023, 25, 257.	1.1	2
7091	Lightweight and Energy-Efficient Deep Learning Accelerator for Real-Time Object Detection on Edge Devices. Sensors, 2023, 23, 1185.	2.1	3
7092	PneuNet: deep learning for COVID-19 pneumonia diagnosis on chest X-ray image analysis using Vision Transformer. Medical and Biological Engineering and Computing, 2023, 61, 1395-1408.	1.6	10
7093	Applying Disentanglement inÂtheÂMedical Domain: An Introduction forÂtheÂMAD Workshop. Lecture Notes in Computer Science, 2023, , 3-11.	1.0	0
7094	Disentangling Factors ofÂMorphological Variation inÂanÂInvertible Brain Aging Model. Lecture Notes in Computer Science, 2023, , 95-107.	1.0	0
7095	Machine Learning for Cyber-Physical Systems. , 2023, , 415-446.		0
7096	Earlier Detection of Alzheimerâ€™s Disease Using 3D-Convolutional Neural Networks. Computer Systems Science and Engineering, 2023, 46, 2601-2618.	1.9	0
7097	Black-Box Testing of Deep Neural Networks through Test Case Diversity. IEEE Transactions on Software Engineering, 2023, 49, 3182-3204.	4.3	7
7098	Privacy-Preserving Split Learning for Large-Scaled Vision Pre-Training. IEEE Transactions on Information Forensics and Security, 2023, 18, 1539-1553.	4.5	2
7099	Deep learning in economics: a systematic and critical review. Artificial Intelligence Review, 2023, 56, 9497-9539.	9.7	4
7100	Intrinsic Dimension Estimation for Discrete Metrics. Physical Review Letters, 2023, 130, .	2.9	4
7101	Quantification and propagation of Aleatoric uncertainties in topological structures. Reliability Engineering and System Safety, 2023, 233, 109122.	5.1	2
7102	Export- and import-based economic models for predicting global trade using deep learning. Expert Systems With Applications, 2023, 218, 119590.	4.4	3
7103	AI for life: Trends in artificial intelligence for biotechnology. New Biotechnology, 2023, 74, 16-24.	2.4	77
7106	Defect Detection for Printed Circuit Board Assembly Using Deep Learning. , 2022, , .		2
7107	Design of Intelligent Control System of Manipulator Based on Deep Learning. , 2022, , .		0
7108	Finetuning Language Model for Person Description Search in Thai. , 2022, , .		0

#	Article	IF	Citations
7109	Student Action Recognition Based on Fuzzy Broad Learning System. , 2022, , .		2
7110	Characterizing a scene recognition model by identifying the effect of input features via semantic-wise attribution. , 2023, , 55-77.		0
7111	Disentangling User Intention forÂSequential Recommendation withÂDual Intention Decoupling Network. Lecture Notes in Computer Science, 2023, , 38-53.	1.0	0
7112	Key generation and management method using AI generated Rubikâ€™s cube states. , 2023, , .		1
7113	Effective Vehicle Classification and Re-identification on Stanford Cars Dataset Using Convolutional Neural Networks. Algorithms for Intelligent Systems, 2023, , 177-190.	0.5	0
7114	Benchmarking Self-Supervised Contrastive Learning Methods for Image-Based Plant Phenotyping. Plant Phenomics, 2023, 5, .	2.5	2
7115	A Genetic Programming Encoder forÂIncreasing Autoencoder Interpretability. Lecture Notes in Computer Science, 2023, , 19-35.	1.0	0
7116	Deep Image Feature Learning With Fuzzy Rules. IEEE Transactions on Emerging Topics in Computational Intelligence, 2024, 8, 724-737.	3.4	1
7117	Diffusion Models in Vision: A Survey. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2023, 45, 10850-10869.	9.7	110
7118	Persuasive Design. , 2023, , 451-463.		0
7119	Multi-label Classification Performance using Deep Learning. International Journal of Next-generation Computing, 0, , .	1.1	0
7120	Disentangling Geometric Deformation Spaces in Generative Latent Shape Models. International Journal of Computer Vision, 2023, 131, 1611-1641.	10.9	1
7121	Accuracy comparisons of fingerprint based song recognition approaches using very high granularity. Multimedia Tools and Applications, 0, , .	2.6	1
7122	Monocular vision guided deep reinforcement learning UAV systems with representation learning perception. Connection Science, 2023, 35, .	1.8	0
7123	Corporate vulnerability in the US and China during COVID-19: A machine learning approach. Journal of Economic Asymmetries, 2023, , e00302.	1.6	5
7124	Predicting the Performance of ATL Model Transformations. , 2023, , .		1
7125	A spatial-temporal linear feature learning algorithm for P300-based brain-computer interfaces. Heliyon, 2023, 9, e15380.	1.4	4
7126	mcVAE: disentangling by mean constraint. Visual Computer, 2024, 40, 1229-1243.	2.5	0

#	Article	IF	Citations
7127	Deep H2O: Cyber attacks detection in water distribution systems using deep learning. Journal of Water Process Engineering, 2023, 52, 103568.	2.6	4
7128	Methodologies for Predicting Cybersecurity Incidents. Indian Journal of Cryptography and Network Security, 2023, 3, 1-8.	0.0	1
7129	Visualization of small-angle X-ray scattering datasets and processing-structure mapping of isotactic polypropylene films by machine learning. Materials and Design, 2023, 228, 111828.	3.3	1
7130	Constructing discriminative feature space for LncRNAâ€"protein interaction based on deep autoencoder and marginal fisher analysis. Computers in Biology and Medicine, 2023, 157, 106711.	3.9	3
7131	Disentangling Crowd Interactions for Pedestrians Trajectory Prediction. IEEE Robotics and Automation Letters, 2023, 8, 3078-3085.	3.3	1
7132	Detecting network-based internet censorship via latent feature representation learning. Computers and Security, 2023, 128, 103138.	4.0	0
7133	COM: Contrastive Masked-attention model for incomplete multimodal learning. Neural Networks, 2023, 162, 443-455.	3.3	3
7134	Scalable anomaly-based intrusion detection for secure Internet of Things using generative adversarial networks in fog environment. Journal of Network and Computer Applications, 2023, 214, 103622.	5.8	5
7135	The coming of age of interpretable and explainable machine learning models. Neurocomputing, 2023, 535, 25-39.	3.5	21
7136	Models used to characterise blockchain features. A systematic literature review and bibliometric analysis. Technovation, 2023, 123, 102711.	4.2	6
7137	Variational co-embedding learning for attributed network clustering. Knowledge-Based Systems, 2023, 270, 110530.	4.0	7
7138	Wavelet based ensemble models for early mortality prediction using imbalance ICU big data. Smart Health, 2023, 28, 100374.	2.0	0
7139	Deep learning-based circular disk type radar target detection in complex environment. Physical Communication, 2023, 58, 102014.	1.2	0
7140	Greedy stochastic configuration networks for ill-posed problems. Knowledge-Based Systems, 2023, 269, 110464.	4.0	0
7141	COVID-19 diagnosis: A comprehensive review of pre-trained deep learning models based on feature extraction algorithm. Results in Engineering, 2023, 18, 101020.	2.2	4
7142	IPs-GRUAtt: An attention-based bidirectional gated recurrent unit network for predicting phosphorylation sites of SARS-CoV-2 infection. Molecular Therapy - Nucleic Acids, 2023, 32, 28-35.	2.3	7
7143	A clinical site workload prediction model with machine learning lifecycle. Healthcare Analytics, 2023, 3, 100159.	2.6	3
7144	Towards travel recommendation interpretability: Disentangling tourist decision-making process via knowledge graph. Information Processing and Management, 2023, 60, 103369.	5.4	6

#	Article	IF	Citations
7145	Hierarchical disentangling network for object representation learning. Pattern Recognition, 2023, 140, 109539.	5.1	1
7146	Discriminative feature learning and selection with label-induced sparse filtering for intelligent fault diagnosis of rotating machinery. Mechanical Systems and Signal Processing, 2023, 196, 110338.	4.4	3
7147	Author Name Disambiguation via Heterogeneous Network Embedding from Structural and Semantic Perspectives. , 2022, , .		1
7148	Deep learning modelling techniques: current progress, applications, advantages, and challenges. Artificial Intelligence Review, 2023, 56, 13521-13617.	9.7	29
7149	Enriching representation learning using 53 million patient notes through human phenotype ontology embedding. Artificial Intelligence in Medicine, 2023, 139, 102523.	3.8	5
7150	Variable Split Convolutional Attention: A novel Deep Learning model applied to the household electric power consumption. Energy, 2023, 274, 127321.	4.5	2
7151	Heart disease prediction using hybrid optimization enabled deep learning network with spark architecture. Biomedical Signal Processing and Control, 2023, 84, 104707.	3.5	1
7153	Cycle Consistency Based Pseudo Label and Fine Alignment for Unsupervised Domain Adaptation. IEEE Transactions on Multimedia, 2023, 25, 8051-8063.	5.2	6
7154	Self-Enhancing Multi-filter Sequence-to-Sequence Model. Procedia Computer Science, 2022, 215, 537-545.	1.2	1
7155	Novel Methodology for Improving the Generalization Capability of Chemo-Informatics Deep Learning Models. Communications in Computer and Information Science, 2022, , 161-174.	0.4	0
7156	Model reduction for the material point method via an implicit neural representation of the deformation map. Journal of Computational Physics, 2023, 478, 111908.	1.9	4
7157	Semi-supervised rotation-invariant representation learning for wafer map pattern analysis. Engineering Applications of Artificial Intelligence, 2023, 120, 105864.	4.3	3
7158	Extensive deep learning model to enhance electrocardiogram application via latent cardiovascular feature extraction from identity identification. Computer Methods and Programs in Biomedicine, 2023, 231, 107359.	2.6	3
7159	Stellar classification with convolutional neural networks and photometric images: a new catalogue of 50 million SDSS stars without spectra. Monthly Notices of the Royal Astronomical Society, 2023, 520, 2269-2280.	1.6	6
7160	A Customized Protocol Cluster Analysis Method based on Reinforcement Learning. , 2022, , .		0
7161	AccNet24: A deep learning framework for classifying 24-hour activity behaviours from wrist-worn accelerometer data under free-living environments. International Journal of Medical Informatics, 2023, 172, 105004.	1.6	3
7162	Graph Fusion in Reciprocal Recommender Systems. IEEE Access, 2023, 11, 8860-8869.	2.6	1
7163	BigFeat: Scalable and Interpretable Automated Feature Engineering Framework. , 2022, , .		0

#	Article	IF	Citations
7164	Data-Driven Design of Polymer-Based Biomaterials: High-throughput Simulation, Experimentation, and Machine Learning. ACS Applied Bio Materials, 2024, 7, 510-527.	2.3	11
7165	SCM-VAE: Learning Identifiable Causal Representations via Structural Knowledge. , 2022, , .		0
7166	Deep representation learning of scientific paper reveals its potential scholarly impact. Journal of Informetrics, 2023, 17, 101376.	1.4	1
7167	Improved Attention-based AE-LSTM for Short-term Power Load Forecasting. , 2022, , .		1
7168	A novel NO_x prediction model using the parallel structure and convolutional neural networks for a coal‐fired boiler. Energy Science and Engineering, 2023, 11, 1589-1600.	1.9	0
7169	Recognizing mixed urban functions from human activities using representation learning methods. International Journal of Digital Earth, 2023, 16, 289-307.	1.6	9
7170	Generative Sampling in Bundle Tractography using Autoencoders (GESTA). Medical Image Analysis, 2023, 85, 102761.	7.0	4
7172	Multi-objective optimization determines when, which and how to fuse deep networks: An application to predict COVID-19 outcomes. Computers in Biology and Medicine, 2023, 154, 106625.	3.9	4
7173	Interpretability of deep learning models for crop yield forecasting. Computers and Electronics in Agriculture, 2023, 206, 107663.	3.7	16
7174	Multimodal Fast‐Slow Neural Network for learning engagement evaluation. Data Technologies and Applications, 2023, 57, 418-435.	0.9	1
7175	Drowsiness Detection System for Masked Face Based on Deep Neural Network and Haar Cascade. , 2022, , .		0
7176	Toward an Integrated Machine Learning Model of a Proteomics Experiment. Journal of Proteome Research, 2023, 22, 681-696.	1.8	15
7177	Representing Spatial Data with Graph Contrastive Learning. Remote Sensing, 2023, 15, 880.	1.8	1
7178	Adversarial local distribution regularization for knowledge distillation. , 2023, , .		1
7179	Online Learning Process Tracking System of Distance Education Based on Network Environment. , 2022, , .		0
7180	Unsupervised learning reveals interpretable latent representations for translucency perception. PLoS Computational Biology, 2023, 19, e1010878.	1.5	2
7181	Detecting Vocal Fatigue with Neural Embeddings. Journal of Voice, 2023, , .	0.6	4
7183	Explaining deep convolutional models by measuring the influence of interpretable features in image classification. Data Mining and Knowledge Discovery, 0, , .	2.4	0

#	Article	IF	Citations
7184	Enhancing Logistic Regression Using Neural Networks for Classification in Actuarial Learning. Algorithms, 2023, 16, 99.	1.2	4
7185	Feature Extractor Based on Class Specific Hidden Neuron Activations for Image Classification. , 2022, , .		0
7186	Tropical Forest Top Height by GEDI: From Sparse Coverage to Continuous Data. Remote Sensing, 2023, 15, 975.	1.8	7
7187	A Time Series Forecasting Model Selection Framework using CNN and Data Augmentation for Small Sample Data. Neural Processing Letters, 2023, 55, 5783-5810.	2.0	3
7188	Content-based and Knowledge-enriched Representations for Classification Across Modalities: A Survey. ACM Computing Surveys, 2023, 55, 1-40.	16.1	0
7190	SW-VAE: Weakly Supervised Learn Disentangled Representation viaÂLatent Factor Swapping. Lecture Notes in Computer Science, 2023, , 73-87.	1.0	0
7191	On the finite representation of linear group equivariant operators via permutant measures. Annals of Mathematics and Artificial Intelligence, 2023, 91, 465-487.	0.9	3
7192	Interpretation for Variational Autoencoder Used to Generate Financial Synthetic Tabular Data. Algorithms, 2023, 16, 121.	1.2	2
7193	Effects of Image Size on Deep Learning. Electronics (Switzerland), 2023, 12, 985.	1.8	23
7194	A Novel Community Detection Algorithm Based on Deep Learning Algorithm. Communications in Computer and Information Science, 2023, , 384-397.	0.4	0
7195	Computational Intelligence in Otorhinolaryngology. Journal of Marine Medical Society, 2023, 25, 3.	0.0	0
7196	A framework for classifying breast cancer based on deep features integration and selection. Neural Computing and Applications, 2023, 35, 12089-12097.	3.2	1
7197	Polyline Generative Navigable Space Segmentation for Autonomous Visual Navigation. IEEE Robotics and Automation Letters, 2023, 8, 2054-2061.	3.3	0
7198	A latent rhythm complexity model for attribute-controlled drum pattern generation. Eurasip Journal on Audio, Speech, and Music Processing, 2023, 2023, .	1.3	0
7199	Artificial Intelligence Approaches for Energetic Materials by Design: State of the Art, Challenges, and Future Directions. Propellants, Explosives, Pyrotechnics, 2023, 48, .	1.0	3
7200	Severe Precipitation Recognition Using Attention-UNet of Multichannel Doppler Radar. Remote Sensing, 2023, 15, 1111.	1.8	2
7201	Enhancing the Robustness of Networks Against Multiple Damage Models Using a Multifactorial Evolutionary Algorithm. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2023, 53, 4176-4188.	5.9	1
7202	Machine Learning Prediction Model of Water Quality Factors in Sewage Treatment Facilities. Journal of Korean Institute of Industrial Engineers, 2023, 49, 95-106.	0.1	0

#	Article	IF	Citations
7203	Anticancer Peptides Classification Using Kernel Sparse Representation Classifier. IEEE Access, 2023, 11, 17626-17637.	2.6	1
7204	Unsupervised Learning of Disentangled Representation via Auto-Encoding: A Survey. Sensors, 2023, 23, 2362.	2.1	2
7205	Learning Approximate Invariance Requires Far Fewer Data. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2023, , 109-123.	0.2	0
7206	AtmoDist: Self-supervised representation learning for atmospheric dynamics. , 2023, 2, .		0
7207	Trans-AI/DS: transformative, transdisciplinary and translational artificial intelligence and data science. International Journal of Data Science and Analytics, 2023, 15, 119-132.	2.4	2
7208	Breath-hold CBCT-guided CBCT-to-CT Synthesis via Multimodal Unsupervised Representation Disentanglement Learning. IEEE Transactions on Medical Imaging, 2023, , 1-1.	5.4	0
7209	Data-Driven Robotic Manipulation of Cloth-like Deformable Objects: The Present, Challenges and Future Prospects. Sensors, 2023, 23, 2389.	2.1	1
7210	Generation of Spatial-Seamless AMSR2 Land Surface Temperature in China During 2012â€"2020 Using a Deep Neural Network. IEEE Transactions on Geoscience and Remote Sensing, 2023, 61, 1-18.	2.7	4
7211	Effective Techniques for Multimodal Data Fusion: A Comparative Analysis. Sensors, 2023, 23, 2381.	2.1	7
7212	Static Fuzzy Bag-of-Words: Exploring Static Universe Matrices for Sentence Embeddings. Signals and Communication Technology, 2023, , 191-211.	0.4	0
7213	Semantics-Guided Contrastive Joint Source-Channel Coding for Image Transmission. , 2022, , .		1
7214	Brain tumor detection with mRMR-based multimodal fusion of deep learning from MR images using Grad-CAM. Iran Journal of Computer Science, 0, , .	1.8	2
7215	Learning Weight Signed Network Embedding with Graph Neural Networks. Data Science and Engineering, 2023, 8, 36-46.	4.6	1
7216	Abstract representations emerge naturally in neural networks trained to perform multiple tasks. Nature Communications, 2023, 14, .	5.8	14
7217	Evaluation of deep learning models for classification of asphalt pavement distresses. International Journal of Pavement Engineering, 2023, 24, .	2.2	4
7218	A double-channel multiscale depthwise separable convolutional neural network for abnormal gait recognition. Mathematical Biosciences and Engineering, 2023, 20, 8049-8067.	1.0	0
7219	Sequential Variational Autoencoder with Adversarial Classifier for Video Disentanglement. Sensors, 2023, 23, 2515.	2.1	0
7220	An overview: Big data analysis by deep learning and image processing. International Journal of Quantum Information, 0, , .	0.6	0

#	Article	IF	Citations
7221	Personalized Latent Structure Learning for Recommendation. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2023, 45, 10285-10299.	9.7	3
7222	Regularization of Inverse Problems by Neural Networks. , 2023, , 1065-1093.		0
7223	Comparison of Text Classification Methods Using Deep Learning Neural Networks. Lecture Notes in Computer Science, 2023, , 438-450.	1.0	0
7224	Learning and controlling the source-filter representation of speech with a variational autoencoder. Speech Communication, 2023, 148, 53-65.	1.6	4
7225	Comparing Complexities ofÂDecision Boundaries forÂRobust Training: A Universal Approach. Lecture Notes in Computer Science, 2023, , 627-645.	1.0	0
7226	Feature Decoupled Knowledge Distillation viaÂSpatial Pyramid Pooling. Lecture Notes in Computer Science, 2023, , 732-745.	1.0	0
7227	Reinforcement learning-based knowledge graph reasoning for aluminum alloy applications. Computational Materials Science, 2023, 221, 112075.	1.4	2
7228	Environmental optimization of warm mix asphalt (WMA) design with recycled concrete aggregates (RCA) inclusion through artificial intelligence (AI) techniques. Results in Engineering, 2023, 17, 100984.	2.2	22
7229	Attention-based Knowledge Distillation in Scene Recognition: the Impact of a DCT-driven Loss. IEEE Transactions on Circuits and Systems for Video Technology, 2023, , 1-1.	5.6	1
7230	Convolutional Neural Network-Based Soil Water Content and Density Prediction Model for Agricultural Land Using Soil Surface Images. Applied Sciences (Switzerland), 2023, 13, 2936.	1.3	2
7231	Conditional Injective Flows for Bayesian Imaging. IEEE Transactions on Computational Imaging, 2023, 9, 224-237.	2.6	2
7232	Towards POI-based large-scale land use modeling: spatial scale, semantic granularity, and geographic context. International Journal of Digital Earth, 2023, 16, 430-445.	1.6	0
7233	Machine Learning in Unmanned Systems for Chemical Synthesis. Molecules, 2023, 28, 2232.	1.7	2
7234	A Review of Physics-Informed Machine Learning in Fluid Mechanics. Energies, 2023, 16, 2343.	1.6	21
7235	Convolutional Neural Network-Based Machine Vision for Non-Destructive Detection of Flooding in Packed Columns. Sensors, 2023, 23, 2658.	2.1	0
7236	Squeezing More Past Knowledge for Online Class-Incremental Continual Learning. IEEE/CAA Journal of Automatica Sinica, 2023, 10, 722-736.	8.5	0
7237	A Review on Autopilot using Neuro Evaluation of Augmenting Topologies. , 2023, , .		0
7238	Recent trend analysis of convolutional neural network-based breast cancer diagnosis. , 2023, , .		0

#	Article	IF	Citations
7239	Encoderâ€"Decoder (LSTM-LSTM) Network-Based Prediction Model for Trend Forecasting in Currency Market. Lecture Notes in Networks and Systems, 2023, , 211-223.	0.5	3
7240	Improvement Deep Leaning Network Performance by Increasing Its Complexity. Lecture Notes in Networks and Systems, 2023, , 543-553.	0.5	0
7241	Efficient Breast Cancer Diagnosis from Complex Mammographic Images Using Deep Convolutional Neural Network. Computational Intelligence and Neuroscience, 2023, 2023, 1-11.	1.1	14
7242	Wearable Devices in Cardiovascular Medicine. Circulation Research, 2023, 132, 652-670.	2.0	18
7243	Multi-View Human Action Recognition Using Skeleton Based-FineKNN with Extraneous Frame Scrapping Technique. Sensors, 2023, 23, 2745.	2.1	3
7244	Sustainable Utilization of Industrial Robotic Systems by Facilitating Programming Through a Human and Process Centred Declarative Approach. Lecture Notes in Production Engineering, 2023, , 111-122.	0.3	0
7245	Black and White Image Colorization using Deep Learning. , 2022, , .		1
7246	Novel Decomposition and Ensemble Model with Attention Mechanism for Container Throughput Forecasting at Four Ports in Asia. Transportation Research Record, 2023, 2677, 530-547.	1.0	2
7247	Digitalization as a Provider of Sustainability?â€"The Role and Acceptance of Digital Technologies in Fashion Stores. Sustainability, 2023, 15, 4621.	1.6	0
7248	Trans-AI/DS: transformative, transdisciplinary and translational artificial intelligence and data science. International Journal of Data Science and Analytics, 0, , .	2.4	0
7249	CustOmics: A versatile deep-learning based strategy for multi-omics integration. PLoS Computational Biology, 2023, 19, e1010921.	1.5	10
7250	<scp>Autoâ€encoder</scp> neural network incorporating <scp>xâ€ray</scp> fluorescence fundamental parameters with machine learning. X-Ray Spectrometry, 2023, 52, 142-150.	0.9	2
7251	Radar Communication Jamming Signal Recognition Based on the Attention Mechanism. Journal of Physics: Conference Series, 2023, 2450, 012034.	0.3	0
7252	Small Target Detection in a Radar Surveillance System Using Contractive Autoencoders. IEEE Transactions on Aerospace and Electronic Systems, 2024, 60, 51-67.	2.6	1
7253	A Brief Tour of Deep Learning from a Statistical Perspective. Annual Review of Statistics and Its Application, 2023, 10, 219-246.	4.1	2
7254	EEG-Based Performance-Driven Adaptive Automated Hazard Alerting System in Security Surveillance Support. Sustainability, 2023, 15, 4812.	1.6	2
7255	More eyes on the prize: open-source data, software and hardware for advancing plant science through collaboration. AoB PLANTS, 2023, 15, .	1.2	2
7256	Attention Augmented Face Morph Detection. IEEE Access, 2023, 11, 24281-24298.	2.6	0

#	Article	IF	Citations
7258	HFedMS: Heterogeneous Federated Learning with Memorable Data Semantics in Industrial Metaverse. IEEE Transactions on Cloud Computing, 2023, , 1-15.	3.1	6
7259	A Review of Disentangled Representation Learning for Remote Sensing Data. , 2022, 1, 172-190.		1
7260	State of the Art of Adaptive Dynamic Programming and Reinforcement Learning. , 2022, 1, 93-110.		2
7261	An NCA-based Hybrid CNN Model for Classification of Alzheimer's Disease on Grad-CAM-enhanced Brain MRI Images. , 2023, 18, 139-155.		3
7262	Classification of physiological disorders in apples using deep convolutional neural network under different lighting conditions. Multimedia Tools and Applications, 2023, 82, 32463-32483.	2.6	0
7263	Space-Time Adaptive Processing Using Deep Neural Network-Based Shrinkage Algorithm under Small Training Samples. IEEE Transactions on Aerospace and Electronic Systems, 2023, , 1-20.	2.6	0
7264	IDIDNG: A Domain Generalization Remaining Useful Life Prediction Method of Unknown Bearings. , 2022, , .		0
7265	Model Compression for Deep Neural Networks: A Survey. Computers, 2023, 12, 60.	2.1	18
7266	A Review of Direction of Arrival Estimation Techniques in Massive MIMO 5G Wireless Communication Systems. Lecture Notes in Electrical Engineering, 2023, , 15-34.	0.3	2
7267	A robust estimator of mutual information for deep learning interpretability. Machine Learning: Science and Technology, 2023, 4, 025006.	2.4	3
7268	A Novel Deep Learning Representation for Industrial Control System Data. Intelligent Automation and Soft Computing, 2023, 36, 2703-2717.	1.6	0
7269	Live streaming recommendations based on dynamic representation learning. Decision Support Systems, 2023, 169, 113957.	3.5	3
7270	Random Cycle Loss and Its Application to Voice Conversion. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2023, 45, 10331-10345.	9.7	1
7271	A feature understanding method for explanation of image classification by convolutional neural networks. , 2023, , 79-96.		0
7272	A knowledge-based approach for estimating the distribution of urban mixed land use. International Journal of Digital Earth, 2023, 16, 965-987.	1.6	2
7273	CoReS: Compatible Representations via Stationarity. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2023, , 1-16.	9.7	0
7274	The integration of Blockchain and AI for Web 3.0: A security Perspective. , 2023, , .		6
7275	Learning end-to-end patient representations through self-supervised covariate balancing for causal treatment effect estimation. Journal of Biomedical Informatics, 2023, 140, 104339.	2.5	0

#	Article	IF	Citations
7276	USTNet: Unsupervised Shape‐to‐Shape Translation via Disentangled Representations. Computer Graphics Forum, 2022, 41, 141-152.	1.8	0
7277	Learning Disentangled Representations Using Dormant Variations. , 2022, , .		0
7278	Estimation of the Case Temperature of Insulated Gate Bipolar Temperatures in Induction Cooktops by Deep Neural Network. , 2022, , .		0
7279	An efficient transfer learning based cross model classification (TLBCM) technique for the prediction of breast cancer. PeerJ Computer Science, 0, 9, e1281.	2.7	4
7280	Disentangling Shape andÂPose forÂObject-Centric Deep Active Inference Models. Communications in Computer and Information Science, 2023, , 32-49.	0.4	2
7281	Deep learning-based methods in structural reliability analysis: a review. Measurement Science and Technology, 2023, 34, 072001.	1.4	2
7282	Model-Based Deep Reinforcement Learning with Traffic Inference for Traffic Signal Control. Applied Sciences (Switzerland), 2023, 13, 4010.	1.3	3
7283	Influence of Skin Color and Data Pre-processing on Gender Classification. , 0, 38, 924-931.		0
7284	A systematic evaluation of deep learning methods for the prediction of drug synergy in cancer. PLoS Computational Biology, 2023, 19, e1010200.	1.5	5
7285	Clustering image data with a fixed embedding. , 2022, , .		0
7286	Evaluation of Joint Modeling Techniques for Node Embedding and Community Detection on Graphs. , 2022, , .		0
7287	Bioimpedance MR Scanning For Hypertension and Functional Experience. , 2022, , .		0
7288	A One-Pass Clustering Based Sketch Method for Network Monitoring. IEEE/ACM Transactions on Networking, 2023, 31, 2604-2613.	2.6	0
7289	Balancing Similarity-Contrast in Unsupervised Representation Learning: Evaluation with Reinforcement Learning. , 2022, , .		0
7290	Stretching Deep Architectures: A Deep Learning Method without Back-Propagation Optimization. Electronics (Switzerland), 2023, 12, 1537.	1.8	0
7291	Deep Neural Ideal Networks for Brain Tumour Image Segmentation. Lecture Notes in Networks and Systems, 2023, , 301-313.	0.5	0
7292	A novel centroid based sentence classification approach for extractive summarization of COVID-19 news reports. International Journal of Information Technology (Singapore), 2023, 15, 1789-1801.	1.8	1
7293	Quality assessment of traditional Chinese medicine based on data fusion combined with machine learning: A review. Critical Reviews in Analytical Chemistry, 0, , 1-18.	1.8	5

#	ARTICLE	IF	CITATIONS
7294	DeepHAR: a deep feed-forward neural network algorithm for smart insole-based human activity recognition. Neural Computing and Applications, 2023, 35, 13547-13563.	3.2	5
7295	Visuo-haptic object perception for robots: an overview. Autonomous Robots, 2023, 47, 377-403.	3.2	6
7296	Emotion Recognition using Deep Stacked Autoencoder with Softmax Classifier. , 2023, , .		0
7297	Buckle Pose Estimation Using a Generative Adversarial Network. Applied Sciences (Switzerland), 2023, 13, 4220.	1.3	0
7298	Extracting Semantic Knowledge From GANs With Unsupervised Learning. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2023, 45, 9654-9668.	9.7	2
7299	Learning Representations of Satellite Imagery by Leveraging Point-of-Interests. ACM Transactions on Intelligent Systems and Technology, 2023, 14, 1-32.	2.9	0
7300	Computational Design of Peptides for Biomaterials Applications. ACS Applied Bio Materials, 2024, 7, 617-625.	2.3	2
7301	A county-level soybean yield prediction framework coupled with XGBoost and multidimensional feature engineering. International Journal of Applied Earth Observation and Geoinformation, 2023, 118, 103269.	0.9	3
7302	Summarizing Data Structures with Gaussian Process and Robust Neighborhood Preservation. Lecture Notes in Computer Science, 2023, , 157-173.	1.0	1
7303	Reviewing Multimodal Machine Learning and Its Use in Cardiovascular Diseases Detection. Electronics (Switzerland), 2023, 12, 1558.	1.8	7
7304	A tale of two lexica: Investigating computational pressures on word representation with neural networks. Frontiers in Artificial Intelligence, 0, 6, .	2.0	1
7305	COMIM-GAN: Improved Text-to-Image Generation viaÂCondition Optimization and Mutual Information Maximization. Lecture Notes in Computer Science, 2023, , 385-396.	1.0	0
7306	A Stethoscope for Drones: Transformers-Based Methods for UAVs Acoustic Anomaly Detection. IEEE Access, 2023, 11, 33336-33353.	2.6	1
7307	Concrete deterioration detection in sewers using machine learning algorithms: an experiment-based study. International Journal of Information Technology (Singapore), 0, , .	1.8	0
7308	Image Enhancement Algorithm based on Local Contrast for Convolutional Neural Network-Based Infrared Target Recognition: *Note: Subtitles are not captured in Xplore and should not be used. , 2022, , .		0
7309	DCD: A New Framework for Distillation Learning With Dynamic Curriculum. , 2022, , .		0
7310	UAV Visual Navigation System based on Digital Twin. , 2022, , .		2
7311	Adaptive Recurrent Iterative Updating Stereo Matching Network. Journal of Computer and Communications, 2023, 11, 83-98.	0.6	0

#	ARTICLE	IF	CITATIONS
7313	Soil-Surface-Image-Feature-Based Rapid Prediction of Soil Water Content and Bulk Density Using a Deep Neural Network. Applied Sciences (Switzerland), 2023, 13, 4430.	1.3	2
7314	Out-of-Distribution Generalisation withÂSymmetry-Based Disentangled Representations. Lecture Notes in Computer Science, 2023, , 433-445.	1.0	0
7315	From single- to multi-modal remote sensing imagery interpretation: a survey and taxonomy. Science China Information Sciences, 2023, 66, .	2.7	19
7316	A review on offloading in fog-based Internet of Things: Architecture, machine learning approaches, and open issues. High-Confidence Computing, 2023, 3, 100124.	2.2	2
7317	A Machine Learning Method to Identify Umami Peptide Sequences by Using Multiplicative LSTM Embedded Features. Foods, 2023, 12, 1498.	1.9	2
7318	3D Generative Model Latent Disentanglement via Local Eigenprojection. Computer Graphics Forum, 2023, 42, .	1.8	0
7319	Towards Diagnosis of Autoimmune Blistering Skin Diseases Using Deep Neural Network. Archives of Computational Methods in Engineering, 0, , .	6.0	0
7320	D^{2}IFLN: Disentangled Domain-Invariant Feature Learning Networks for Domain Generalization. IEEE Transactions on Cognitive and Developmental Systems, 2023, 15, 2269-2281.	2.6	1
7321	Stable Knowledge Tracing Using Causal Inference. IEEE Transactions on Learning Technologies, 2024, 17, 124-134.	2.2	0
7322	Distributional Prototypical Methods for Reliable Explanation Space Construction. IEEE Access, 2023, 11, 34821-34834.	2.6	0
7323	MutaGAN: A sequence-to-sequence GAN framework to predict mutations of evolving protein populations. Virus Evolution, 2023, 9, .	2.2	0
7324	Research of integrating prior knowledge into abnormal behavior recognition model of EV charging station. , 2023, , .		0
7325	SigPrimedNet: A Signaling-Informed Neural Network for scRNA-seq Annotation of Known and Unknown Cell Types. Biology, 2023, 12, 579.	1.3	4
7326	Auto-Encoders in Deep Learningâ€"A Review with New Perspectives. Mathematics, 2023, 11, 1777.	1.1	22
7327	Multimodal Neural Network forÂDemand Forecasting. Lecture Notes in Computer Science, 2023, , 409-421.	1.0	0
7328	Contrastive Feature Disentangling for Partial Aspect Angles SAR Noncooperative Target Recognition. IEEE Transactions on Geoscience and Remote Sensing, 2023, 61, 1-15.	2.7	2
7329	Asymmetric Self-Play-Enabled Intelligent Heterogeneous Multirobot Catching System Using Deep Multiagent Reinforcement Learning. IEEE Transactions on Robotics, 2023, 39, 2603-2622.	7.3	2
7330	Disentangled Contrastive Learning forÂCross-Domain Recommendation. Lecture Notes in Computer Science, 2023, , 163-178.	1.0	2

#	ARTICLE	IF	CITATIONS
7331	Statistical physics of deep neural networks: Initialization toward optimal channels. Physical Review Research, 2023, 5, .	1.3	1
7332	DagSim: Combining DAG-based model structure with unconstrained data types and relations for flexible, transparent, and modularized data simulation. PLoS ONE, 2023, 18, e0284443.	1.1	1
7333	Predicting the ripening time of 'Hass' and 'Shepard' avocado fruit by hyperspectral imaging. Precision Agriculture, 2023, 24, 1889-1905.	3.1	2
7334	Disentangled Representation Learning for RF Fingerprint Extraction Under Unknown Channel Statistics. IEEE Transactions on Communications, 2023, 71, 3946-3962.	4.9	1
7335	Evaluating Large Language Models in Generating Synthetic HCI Research Data: a Case Study. , 2023, , .		10
7336	Speech2EEG: Leveraging Pretrained Speech Model for EEG Signal Recognition. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2023, 31, 2140-2153.	2.7	3
7337	Generative Steganography via Auto-Generation of Semantic Object Contours. IEEE Transactions on Information Forensics and Security, 2023, 18, 2751-2765.	4.5	9
7338	Model order reduction for parameterized electromagnetic problems using matrix decomposition and deep neural networks. Journal of Computational and Applied Mathematics, 2023, 431, 115271.	1.1	1
7339	A Novel Price Prediction Service for E-Commerce Categorical Data. Mathematics, 2023, 11, 1938.	1.1	1
7340	Stochastic Sensitivity Regularized Autoencoder for Robust Feature Learning. , 2022, , .		0
7341	A Trainable Open-Source Machine Learning Accelerometer Activity Recognition Toolbox: Deep Learning Approach. , 0, 2, e42337.		0
7342	Few-Shot Learning for Clinical Natural Language Processing Using Siamese Neural Networks: Algorithm Development and Validation Study. , 0, 2, e44293.		4
7343	U-YOLOv7: A network for underwater organism detection. Ecological Informatics, 2023, 75, 102108.	2.3	5
7348	Optimizing Feature Set for Click-Through Rate Prediction. , 2023, , .		6
7360	Cybersecurity in Internet of Things Networks using Deep Learning Models. , 2023, , .		1
7361	Learning Graph Laplacian from Intrinsic Patterns via Gaussian Process. , 2023, , .		0
7365	Breast Cancer Detection Using Transfer Learning Techniques inÂConvolutional Neural Networks. Lecture Notes in Networks and Systems, 2023, , 229-238.	0.5	0
7366	Provisioning a Predictor Model for Alzheimers Prediction using Learning Approaches. , 2023, , .		1

#	Article	IF	Citations
7367	Link Prediction on Latent Heterogeneous Graphs. , 2023, , .		0
7373	Computational Approaches for Organic Semiconductors: From Chemical and Physical Understanding to Predicting New Materials. Chemical Reviews, 2023, 123, 7498-7547.	23.0	11
7374	AI and Machine Learning: The Basics. , 2023, , 11-33.		0
7375	How will generative AI disrupt data science in drug discovery?. Nature Biotechnology, 2023, 41, 750-751.	9.4	19
7376	Hybrid Deep learning based Semi-supervised Model for Medical Imaging. , 2023, , .		10
7380	Pre-trained Language Models. The Artificial Intelligence: Foundationsory, and Algorithms, 2023, , 19-78.	0.2	0
7382	Improving Pre-trained Language Models. The Artificial Intelligence: Foundationsory, and Algorithms, 2023, , 79-159.	0.2	1
7397	Toward Transparent AI: A Survey on Interpreting the Inner Structures of Deep Neural Networks. , 2023, , .		10
7398	Feature Engineering in Additive Manufacturing. SpringerBriefs in Applied Sciences and Technology, 2023, , 17-43.	0.2	1
7404	From Word Embeddings to Knowledge Graph Embeddings. Synthesis Lectures on Data, Semantics and Knowledge, 2023, , 17-29.	3.9	0
7408	The impact of artificial intelligence methods on drug design. , 2023, , 89-137.		0
7417	Future of Medicine in Cognitive Technologies and Automatic Detection via Computational Techniques. EAI/Springer Innovations in Communication and Computing, 2023, , 373-393.	0.9	1
7418	Species-Shared andÂ-Specific Brain Functional Connectomes Revealed byÂShared-Unique Variational Autoencoder. Lecture Notes in Computer Science, 2023, , 41-52.	1.0	0
7420	Enabling Representation Learning inÂOntology-Driven Conceptual Modeling Using Graph Neural Networks. Lecture Notes in Computer Science, 2023, , 278-294.	1.0	5
7424	Inertial Navigation on Extremely Resource-Constrained Platforms: Methods, Opportunities and Challenges. , 2023, , .		0
7429	Innovative Method for Detecting Liver Cancer using Auto Encoder and Single Feed Forward Neural Network. , 2023, , .		9
7441	Visually Guided Network Reconstruction Using Multiple Embeddings. , 2023, , .		0
7446	Sensors, Machine Vision, and Sensor Networks. Springer Handbooks, 2023, , 315-333.	0.3	1

#	ARTICLE	IF	CITATIONS
7453	An Analysis of Deep-Neural-Network Model for the Determination of the Bit-Rate of Optical Fiber Signals. , 2023, , .		1
7455	Transfer Learning for Artificial Intelligence in Ophthalmology. , 2023, , 181-198.		2
7461	Deep Learning-Based Music Instrument Recognition: Exploring Learned Feature Representations. Lecture Notes in Computer Science, 2023, , 32-46.	1.0	0
7476	An Introduction to Neural Networks. , 2023, , 1-27.		0
7482	Modification of QuinoxP*-Type Bisphosphine Ligands for High-Performance Asymmetric Boryl Substitution of Racemic Allyl Electrophiles. Springer Theses, 2023, , 19-112.	0.0	0
7488	Disentangled and Robust Representation Learning for Bragging Classification in Social Media. , 2023, , .		0
7489	Grad-CAM-Inspired Interpretation of Nearfield Acoustic Holography using Physics-Informed Explainable Neural Network. , 2023, , .		0
7490	Counterfactual Explanation for Multivariate Times Series Using A Contrastive Variational Autoencoder. , 2023, , .		1
7492	Explicit Diffusion ofÂGaussian Mixture Model Based Image Priors. Lecture Notes in Computer Science, 2023, , 3-15.	1.0	1
7497	Controllable Image Synthesis via Feature Mask Coupling using Implicit Neural Representationâœ±. , 2022, , .		0
7500	Crop Yield Prediction and Climate Change Impact Assessment Using Machine Learning Technology in Agriculture. Lecture Notes in Networks and Systems, 2023, , 349-362.	0.5	0
7508	Modeling of Body Pressure Distribution on Alternative Pressure Mattress. , 2023, , .		0
7511	Deep Learning-Based Disentangled Parametrization for Model Calibration Under Multiple Geologic Scenarios. , 2023, , .		0
7514	Explainable Object Detection inÂtheÂField ofÂSearch andÂRescue Robotics. Mechanisms and Machine Science, 2023, , 37-44.	0.3	0
7519	An Introduction to Deep Learning. Synthesis Lectures on Engineering Science and Technology, 2023, , 1-57.	0.2	0
7523	An Effective Software Vulnerability Detection Method Based On Devised Deep-Learning Model To Fix The Vague Separation. , 2022, , .		0
7526	Unsupervised Representation Learning in Multivariate Time Series with Simulated Data. , 2023, , .		0
7530	Multi-scale transformer 3D plane recovery. , 2023, , .		0

#	ARTICLE	IF	CITATIONS
7534	Fine-Grained Image Retrieval. Synthesis Lectures on Computer Vision, 2023, , 141-165.	0.4	0
7538	Deep Occupancy-Predictive Representations for Autonomous Driving. , 2023, , .		1
7541	Enhanced sparse representation-based intelligent recognition framework for fault diagnosis of wind turbine drive trains. , 2023, , 93-131.		0
7552	Artificial intelligence in systems biology. Handbook of Statistics, 2023, , .	0.4	0
7557	OODA loop for learning open-world novelty problems. Advances in Computers, 2024, , 91-130.	1.2	0
7559	Revisiting Neuron Coverage for DNN Testing: A Layer-Wise and Distribution-Aware Criterion. , 2023, , .		4
7566	Unsupervised Disentanglement Learning viaÂDirichlet Variational Autoencoder. Lecture Notes in Computer Science, 2023, , 341-352.	1.0	1
7569	Causal Disentangled Variational Auto-Encoder for Preference Understanding in Recommendation. , 2023, , .		0
7574	The Smart Handwritten Digits Recognition Using Machine Learning Algorithm. , 2023, , .		1
7575	Machine Learning and Data Mining Algorithms for Geospatial Big Data. Springer Remote Sensing/photogrammetry, 2023, , 207-226.	0.4	0
7580	How Technology Is Changing Creativity. , 2023, , 391-412.		0
7581	When Spatio-Temporal Meet Wavelets: Disentangled Traffic Forecasting via Efficient Spectral Graph Attention Networks. , 2023, , .		1
7582	Deep Learning-Based Methods for Multi-aspect Data Clustering. Intelligent Systems Reference Library, 2023, , 151-184.	1.0	0
7583	â€œDeep learningâ€•for healthcare: Opportunities, threats, and challenges. , 2023, , 225-244.		0
7585	Artificial neural networkâ€"based inference of drugâ€"target interactions. , 2023, , 35-62.		0
7592	Electronic noses and tongues: current trends and future needs. , 2023, , 117-133.		0
7594	Large-scale process models using deep learning. , 2023, , 315-336.		0
7599	Deep Reinforcement Learning for Trajectory Generation and Optimisation of UAVs. , 2023, , .		0

#	ARTICLE	IF	CITATIONS
7600	Dual-Dimensional Refinement ofÂKnowledge Graph Embedding Representation. Lecture Notes in Computer Science, 2023, , 124-137.	1.0	0
7606	Separating Particles fromÂPlankton Images. Lecture Notes in Computer Science, 2023, , 445-459.	1.0	0
7611	Quantifying Extrinsic Curvature in Neural Manifolds. , 2023, , .		0
7613	Neural Transformation Network to Generate Diverse Views for Contrastive Learning. , 2023, , .		0
7615	A Recent Review of Video Anomaly Detection for Smart Cities. Lecture Notes on Data Engineering and Communications Technologies, 2023, , 255-264.	0.5	0
7618	Nearest-Neighbor Methods: A Modern Perspective. , 2023, , 75-92.		0
7623	Universal Hidden Monotonic Trend Estimation withÂContrastive Learning. Lecture Notes in Networks and Systems, 2023, , 507-521.	0.5	0
7625	Evaluation of metric and representation learning approaches: Effects of representations driven by relative distance on the performance. , 2023, , .		1
7626	Personalization Disentanglement for Federated Learning. , 2023, , .		2
7628	Companion Classification Losses forÂRegression Problems. Lecture Notes in Computer Science, 2023, , 219-230.	1.0	0
7630	Generative Adversarial Network and CNN-LSTM Based Short-Term Power Load Forecasting. , 2023, , .		0
7632	Short-Term Load Forecasting in Power System Using Recurrent Neural Network. , 2023, , .		0
7638	Emotion Detection Using Convolutional Neural Networks. Lecture Notes in Networks and Systems, 2023, , 263-279.	0.5	1
7639	Falling People Detection in Real Time Video Using Convolution Neural Network. Lecture Notes in Networks and Systems, 2023, , 1127-1138.	0.5	0
7642	Research on Bank Credit Risk Assessment Based on BP Neural Network. , 2023, , .		1
7652	Knowledge Representation Learning and Knowledge-Guided NLP. , 2023, , 273-349.		0
7656	A Comparative Study of Topic Modeling Methods for Document Retrieval. , 2022, , .		0
7658	Peptide-Protein Interface Classification Using Convolutional Neural Networks. Lecture Notes in Computer Science, 2023, , 112-122.	1.0	0

#	ARTICLE	IF	CITATIONS
7660	Faces are Domains: Domain Incremental Learning for Expression Recognition. , 2023, , .		0
7662	A comprehensive review of machine learning algorithms and their application in geriatric medicine: present and future. Aging Clinical and Experimental Research, 2023, 35, 2363-2397.	1.4	8
7664	Optimizing deep learning based retinal diseases classification on optical coherence tomography scans. , 2023, , .		1
7666	Methodology for automatic extraction of red flags in public procurement. , 2023, , .		0
7680	Predicting Cryptocurrency Prices Model Using a Stacked Sparse Autoencoder and Bayesian Optimization. Advances in Finance, Accounting, and Economics, 2023, , 60-77.	0.3	0
7681	Leveraging Semantic Analysis in Machine Learning for Addressing Unstructured Challenges in Education. , 2023, , .		4
7686	How Does Artificial Intelligence Contribute to iEEG Research?. Studies in Neuroscience, Psychology and Behavioral Economics, 2023, , 761-802.	0.1	2
7687	Numeric-Digit Identifier based on Convolutional Neural Networks on Field-Programmable Gate Array. , 2023, , .		0
7688	Invariant and Sufficient Supervised Representation Learning. , 2023, , .		0
7689	Adaptive Learning Rate for Unsupervised Learning of Deep Neural Networks. , 2023, , .		0
7690	Time Series Adaptation Network for Sensor-Based Cross Domain Human Activity Recognition. , 2023, , .		0
7691	Two-stage Neural Architecture Optimization with Separated Training and Search. , 2023, , .		0
7693	Detecting Public Speaking Stress via Real-Time Voice Analysis in Virtual Reality: A Review. , 2023, , 117-152.		0
7696	Hamming Similarity and Graph Laplacians for Class Partitioning and Adversarial Image Detection. , 2023, , .		1
7697	Exploring Compositional Visual Generation with Latent Classifier Guidance. , 2023, , .		1
7700	Skin disease detection using CNN. AIP Conference Proceedings, 2023, , .	0.3	0
7703	Exploring and Utilizing Pattern Imbalance. , 2023, , .		0
7704	Deep Curvilinear Editing: Commutative and Nonlinear Image Manipulation for Pretrained Deep Generative Model. , 2023, , .		0

#	ARTICLE	IF	CITATIONS
7705	CiCo: Domain-Aware Sign Language Retrieval via Cross-Lingual Contrastive Learning. , 2023, , .		3
7706	Fatigue Driving Detection of EEG Signals by LSTM Deep Neural Network with LPSD and DE. , 2023, , .		0
7707	High-Dimensional Smoothed Entropy Estimation via Dimensionality Reduction. , 2023, , .		0
7708	Integral Neural Networks. , 2023, , .		2
7709	Neural Dependencies Emerging from Learning Massive Categories. , 2023, , .		0
7710	Representation Transfer Learning via Multiple Pre-trained models for Linear Regression. , 2023, , .		0
7712	Masked Auto-Encoders Meet Generative Adversarial Networks and Beyond. , 2023, , .		3
7713	Neuro-Modulated Hebbian Learning for Fully Test-Time Adaptation. , 2023, , .		1
7714	Word Representation Learning. , 2023, , 29-68.		0
7715	Deep Multi-feature Fusion CNNs with Gemstone Image Classification Algorithm. , 2022, , .		1
7719	Lightweight andÂEfficient Privacy-Preserving Multimodal Representation Inference viaÂFully Homomorphic Encryption. Lecture Notes in Computer Science, 2023, , 307-321.	1.0	0
7722	Multilingual BERT Cross-Lingual Transferability with Pre-trained Representations on Tangut: A Survey. , 2023, , .		0
7723	A Study on Role of Artificial Intelligence in Education. , 2023, , .		0
7726	Hyperspectral Image Classification in Remote Sensing Using CNNs and Attention Modules. Advances in Systems Analysis, Software Engineering, and High Performance Computing Book Series, 2023, , 18-36.	0.5	0
7729	Industrial Production Index Forecast based on EMD-TCN. , 2023, , .		0
7741	Multimodal Machine Learning for Sign Language Prediction. IFMBE Proceedings, 2024, , 236-242.	0.2	0
7743	Insect Detection on High-Resolution Images Using Deep Learning. Lecture Notes in Computer Science, 2023, , 225-239.	1.0	1
7747	Learning Geometric Representations ofÂObjects viaÂInteraction. Lecture Notes in Computer Science, 2023, , 629-644.	1.0	0

#	ARTICLE	IF	CITATIONS
7748	Equivariant Representation Learning inÂtheÂPresence ofÂStabilizers. Lecture Notes in Computer Science, 2023, , 693-708.	1.0	0
7749	Learning Disentangled Discrete Representations. Lecture Notes in Computer Science, 2023, , 593-609.	1.0	1
7750	Disentangling Representations in Linear Causal Models with Few Paired Samples. , 2023, , .		0
7751	ICCVAE: Item Concept Causal Variational Auto-Encoder for top-n recommendation. , 2023, , .		0
7755	Explaining, Evaluating andÂEnhancing Neural Networksâ€™ Learned Representations. Lecture Notes in Computer Science, 2023, , 269-287.	1.0	0
7756	Graph Federated Learning Based onÂtheÂDecentralized Framework. Lecture Notes in Computer Science, 2023, , 452-463.	1.0	0
7758	Prototype Contrastive Learning forÂPersonalized Federated Learning. Lecture Notes in Computer Science, 2023, , 529-540.	1.0	0
7759	SR-IDS: A Novel Network Intrusion Detection System Based onÂSelf-taught Learning andÂRepresentation Learning. Lecture Notes in Computer Science, 2023, , 554-565.	1.0	1
7767	Revisiting the Performance-Explainability Trade-Off in Explainable Artificial Intelligence (XAI). , 2023, , .		2
7770	Improving Outcome Prediction ofÂPulmonary Embolism byÂDe-biased Multi-modality Model. Lecture Notes in Computer Science, 2023, , 515-525.	1.0	0
7772	A Review of the Development of Artificial Intelligence Electronic Circuit Technology. Lecture Notes in Electrical Engineering, 2023, , 129-136.	0.3	0
7774	MI-SegNet: Mutual Information-Based US Segmentation forÂUnseen Domain Generalization. Lecture Notes in Computer Science, 2023, , 130-140.	1.0	1
7778	Machine Learning in Computer Aided Engineering. Computational Methods in Engineering & the Sciences, 2023, , 1-83.	0.3	0
7784	Learning-Based Model for Phishing Attack Detection. Intelligent Systems Reference Library, 2023, , 113-124.	1.0	0
7802	Emotionally Enhanced Talking Face Generation. , 2023, , .		0
7807	A Perceptual Metric Prior on Deep Latent Space Improves Out-Of-Distribution Synthetic Aperture Sonar Image Classification. , 2023, , .		0
7808	Finding Spurious Correlations withÂFunction-Semantic Contrast Analysis. Communications in Computer and Information Science, 2023, , 549-572.	0.4	0
7814	Is Partial Model Aggregation Energy-Efficient for Federated Learning Enabled Wireless Networks?. , 2023, , .		0

#	ARTICLE	IF	CITATIONS
7816	Application of Three-dimensional Reconstruction Based on Improved ICP Algorithm. , 2023, , .		0
7817	Remaining Useful Life Prediction of Aircraft Engines based on FA-SDAE-BiGRU. , 2023, , .		0
7821	Optimization of Users EV Charging Data Using Convolutional Neural Network. Lecture Notes in Networks and Systems, 2024, , 683-698.	0.5	0
7828	Computational Sentiment Analysis. , 2023, , 114-C6P104.		0
7836	Advances of machine learning in materials science: Ideas and techniques. Frontiers of Physics, 2024, 19, .	2.4	0
7838	Designing molecules with autoencoder networks. Nature Computational Science, 2023, 3, 922-933.	3.8	0
7847	Using Deep Generative Models for Glossy Appearance Synthesis and Exploration. , 2023, , .		0
7852	TemporalFC: A Temporal Fact Checking Approach overÂKnowledge Graphs. Lecture Notes in Computer Science, 2023, , 465-483.	1.0	0
7855	Contrastive Coincidental Correctness Representation Learning. , 2023, , .		0
7856	Advances in Deep Learning Models for Resolving Medical Image Segmentation Data Scarcity Problem: A Topical Review. Archives of Computational Methods in Engineering, 0, , .	6.0	0
7857	Branching Time Series Prediction Method based on CNN and LSTM. , 2023, , .		0
7858	Dynamic Constrained Multi-Objective Evolutionary Optimization via Adaptive Two-Stage Archiving and Autoencoder Prediction. , 2023, , .		1
7860	Improved Disentangled Speech Representations Using Contrastive Learning in Factorized Hierarchical Variational Autoencoder. , 2023, , .		0
7861	Disentangled Contrastive Learning forÂKnowledge-Aware Recommender System. Lecture Notes in Computer Science, 2023, , 140-158.	1.0	0
7862	Dual Contrastive Learning Model for Representation Learning and Background Debiasing in SAR Object Classification. , 2023, , .		0
7863	A Two-Stage Framework for Ambiguous Classification in Software Engineering. , 2023, , .		0
7867	Machine Learning in Practiceâ€"Clinical Decision Support, Risk Prediction, Diagnosis. , 2023, , 231-245.		0
7868	Interpretable time series neural representation for classification purposes. , 2023, , .		0

#	ARTICLE	IF	CITATIONS
7869	Unsupervised Parameter Estimation using Model-based Decoder. , 2023, , .		1
7870	RM-NET: Rasterizing Markov Signals to Images for Deep Learning. , 2023, , .		0
7871	Non-Redundant Image Clustering of Early Medieval Glass Beads. , 2023, , .		0
7872	Classification with Explanation for Human Trafficking Networks. , 2023, , .		0
7881	Air Traffic Trajectory Clustering Using Procrustes Analysis. , 2023, , .		0
7884	Multitask Learning for Multiple Recognition Tasks: A Framework for Lower-limb Exoskeleton Robot Applications. , 2023, , .		0
7886	A Comprehensive Evaluation of Q-Learning Based Automatic Web GUI Testing. , 2023, , .		0
7896	Remaining Time Prediction forÂCollaborative Business Processes withÂPrivacy Preservation. Lecture Notes in Computer Science, 2023, , 38-53.	1.0	0
7899	Applications of Electronics in Fisheries and Aquaculture. , 2023, , 151-174.		0
7900	Malicious Traffic Classification Using Convolutional Neural Network. , 2023, , .		0
7902	Artificial Intelligence in Anesthesia Control and Monitoring. , 2023, , 29-39.		0
7903	A Comparative Analysis of HDL and HLS for Accelerating Machine Learning based Strain Estimation with Ultrasonic Guided Waves. , 2023, , .		0
7905	Speed-of-Sound Mapping forÂPulse-Echo Ultrasound Raw Data Using Linked-Autoencoders. Lecture Notes in Computer Science, 2024, , 103-114.	1.0	0
7908	Causal Effect Estimation: Basic Methodologies. , 2023, , 23-52.		0
7910	Multi-Task Feature Self-Distillation forÂSemi-Supervised Machine Translation. Communications in Computer and Information Science, 2024, , 238-254.	0.4	0
7911	A Representation Learning Approach Incorporating Entity Descriptions and Types. , 2023, , .		0
7917	$$\textbf{E}^{3}$$-MG: End-to-End Expert Linking viaÂMulti-Granularity Representation Learning. Communications in Computer and Information Science, 2024, , 268-280.	0.4	0
7923	Performance Comparison of PCANet-Based Deep Learning Techniques for Palmprint Recognition. , 2023, , .		0

#	ARTICLE	IF	CITATIONS
7924	Knowledge Distillation Boosted Ultra-light Weight Road Object Detection on Edge Device. , 2023, , .		0
7926	Graph Routes From Local and Global Entrances. , 2023, , .		0
7931	In-Vehicle Network Intrusion Detection Using DNN with ReLU Activation Function. , 2023, , .		0
7941	Object Detection Enhancement Based on Super-Resolution Mapping. , 2023, , .		0
7945	Knowledge Representation Learning with Hyperboloid Models. , 2023, , .		0
7947	Neural Network Feature Explanation Using Neuron Activation Rate Based Bipartite Graph. , 2023, , .		0
7951	Debunking Free Fusion Myth: Online Multi-view Anomaly Detection with Disentangled Product-of-Experts Modeling. , 2023, , .		0
7953	Improved Breast Cancer Detection in Mammography Images. Advances in Systems Analysis, Software Engineering, and High Performance Computing Book Series, 2023, , 221-248.	0.5	1
7956	FedGH: Heterogeneous Federated Learning with Generalized Global Header. , 2023, , .		1
7957	Violence Content Detection in Videos. , 2022, , .		0
7958	Mutual Information-driven Triple Interaction Network for Efficient Image Dehazing. , 2023, , .		0
7962	A Novel Aggregated Short-Term Load Forecasting Method Based on Clustering. , 2023, , .		0
7964	Prediction of COVID-19 Patients' Emergency Room Revisit using Multi-Source Transfer Learning. , 2023, , .		1
7982	Self-Supervised Learning from Unlabeled IoT Data. , 2023, , 27-110.		0
7984	Assessing deep learning: a work program for the humanities in the age of artificial intelligence. AI and Ethics, 0, , .	4.6	0
7985	Problematic in high dimension. Unsupervised and Semi-supervised Learning, 2024, , 75-80.	0.4	0
7989	OMG-Attack: Self-Supervised On-Manifold Generation of Transferable Evasion Attacks. , 2023, , .		0
7990	Good Fences Make Good Neighbours. , 2023, , .		0

#	Article	IF	Citations
7991	Cross-Situational Word Learning in Disentangled Latent Space. , 2023, , .		0
7993	Analyzing DDoS Attack Classification with Data Imbalance Using Generative Adversarial Networks. , 2023, , .		0
7994	Combined Deterministic and Stochastic Streams for Visual Prediction Using Predictive Coding. , 2023, , .		0
7995	Deep Learning Overview. , 2024, , 27-72.		1
7999	A fast and novel deep learning approach for automatic classification of epileptic seizures using spectrograms. AIP Conference Proceedings, 2023, , .	0.3	0
8000	An Interactive Framework for Querying Data from Large Pdf Files. , 2023, , .		0
8004	Gaussian denoising in spatial heterodyne interferograms by convolutional neural network. , 2023, , .		0
8005	A Causal Disentangled Multi-granularity Graph Classification Method. Lecture Notes in Computer Science, 2023, , 354-368.	1.0	0
8012	Effective Screening and Face Mask Detection for COVID Spread Mitigation Using Deep Learning and Edge Devices. , 0, , .		0
8021	Opacity, Machine Learning and Explainable AI. The International Library of Ethics, Law and Technology, 2023, , 39-58.	0.2	0
8022	SMILENets: Audio Representation Learning via Neural Knowledge Distillation of Traditional Audio-Feature Extractors. , 2023, , .		0
8023	Disentangled (Un)Controllable Features. , 2023, , .		0
8024	Unsupervised Unlearning of Concept Drift with Autoencoders. , 2023, , .		1
8025	Leveraging Data Geometry to Mitigate CSM in Steganalysis. , 2023, , .		0
8030	An Intrusion Detection System Using Vision Transformer forÂRepresentation Learning. Communications in Computer and Information Science, 2024, , 531-544.	0.4	0
8031	Lithological Remote Sensing Scene Classification Based on Multi-view Data. , 2024, , 75-100.		0
8042	Efficient graph representation framework for chemical molecule similarity tasks. , 2023, , .		0
8059	EdaDet: Open-Vocabulary Object Detection Using Early Dense Alignment. , 2023, , .		0

#	ARTICLE	IF	CITATIONS
8061	UCF: Uncovering Common Features for Generalizable Deepfake Detection. , 2023, , .		0
8062	CleanCLIP: Mitigating Data Poisoning Attacks in Multimodal Contrastive Learning. , 2023, , .		0
8063	Better May Not Be Fairer: A Study on Subgroup Discrepancy in Image Classification. , 2023, , .		0
8064	GPFL: Simultaneously Learning Global and Personalized Feature Information for Personalized Federated Learning. , 2023, , .		0
8065	Disentangle then Parse: Night-time Semantic Segmentation with Illumination Disentanglement. , 2023, , .		0
8066	Towards Viewpoint-Invariant Visual Recognition via Adversarial Training. , 2023, , .		0
8067	NaviNeRF: NeRF-based 3D Representation Disentanglement by Latent Semantic Navigation. , 2023, , .		0
8068	BT^2: Backward-compatible Training with Basis Transformation. , 2023, , .		0
8070	A Unified Framework for Robustness on Diverse Sampling Errors. , 2023, , .		0
8071	RPEFlow: Multimodal Fusion of RGB-PointCloud-Event for Joint Optical Flow and Scene Flow Estimation. , 2023, , .		0
8072	Unsupervised Manifold Linearizing and Clustering. , 2023, , .		0
8073	Building a two-way street between cell biology and machine learning. Nature Cell Biology, 2024, 26, 13-14.	4.6	0
8079	Addressing Ethical, Legal, Technical, and Operational Challenges in Counterterrorism with Machine Learning: Recommendations and Strategies. Advanced Sciences and Technologies for Security Applications, 2024, , 199-226.	0.4	0
8080	Conservative Q-Learning for Mechanical Ventilation Treatment Using Diagnose Transformer-Encoder. , 2023, , .		0
8082	Learning Personalized Models with Clustered System Identification. , 2023, , .		0
8083	Fault diagnosis and prognosis driven by deep transfer learning. , 2024, , 263-293.		0
8084	Learning Latent Representations in High-Dimensional State Spaces Using Polynomial Manifold Constructions. , 2023, , .		0
8087	Development and use of machine learning algorithms in vaccine target selection. Npj Vaccines, 2024, 9, .	2.9	1

#	ARTICLE	IF	CITATIONS
8090	Literature Review on the Study of Non-Qualities of a Product Using Neural Networks. Advances in Systems Analysis, Software Engineering, and High Performance Computing Book Series, 2023, , 318-333.	0.5	0
8091	A Study of Challenges and Limitations to Applying Machine Learning to Highly Unstructured Data. , 2023, , .		0
8100	Adversarial Feature Hallucination in a Supervised Contrastive Space for Few-Shot Learning of Provenance in Paintings. , 2023, , .		0
8101	Computer-Aided Diagnosis for Breast Cancer Classification Using Deep Learning. , 2023, , .		0
8104	Inverse design of electromagnetically induced transparency (EIT) metamaterials based on autoencoder with reconstruction error. , 2023, , .		0
8105	Federated Learning with Common Representation Learning Criterion and Personalized Predictor. , 2023, , .		0
8107	Bidformer: A Transformer-Based Model via Bidirectional Sparse Self-Attention Mechanism for Long Sequence Time-Series Forecasting. , 2023, , .		0
8109	Assessing the Vulnerability of Self-Supervised Speech Representations for Keyword Spotting Under White-Box Adversarial Attacks. , 2023, , .		0
8121	BinAug: Enhancing Binary Similarity Analysis with Low-Cost Input Repairing. , 2024, , .		0
8125	Advances in materials informatics: a review. Journal of Materials Science, 2024, 59, 2602-2643.	1.7	0
8126	Leveraging Semantic Representations via Knowledge Graph Embeddings. , 2024, , 71-85.		0
8131	UAP Attack for Radio Signal Modulation Classification Based on Deep Learning. , 2023, , .		0
8132	Adapting Self-Supervised Features for Background Speech Detection in Beehive Audio Recordings. , 2023, , .		0
8133	Unsupervised Traffic Sign Classification Relying on Explanatory Visible Factors. , 2023, , .		0
8134	Mitigating Catastrophic Forgetting in Continual Learning-Based Image Classification. , 2023, , .		0
8139	Applications of Machine Learning in Modern Power Systems: A Comprehensive Review. , 2023, , .		0
8143	Design of a Technological System with Artificial Intelligence to Manage Projects Through the Use of Knowledge Management and Lessons Learned. Studies in Computational Intelligence, 2024, , 241-255.	0.7	0
8144	A Deep Double-Convolutional Neural Network-Based Fault Detection. , 2023, , .		0

#	ARTICLE	IF	CITATIONS
8145	3D Image Generation from X-Ray Projections Using Generative Adversarial Networks. , 2023, , .		0
8154	Integrating Artificial Intelligence for Adaptive Decision-Making in Complex System. Lecture Notes in Networks and Systems, 2024, , 95-105.	0.5	0
8157	Deep Learning Approaches for Feature Extraction in Big Data Analytics. , 2023, , .		0
8165	Improving fMRI-based Autism Spectrum Disorder Classification with Random Walks-informed Feature Extraction and Selection. , 2023, , .		0
8169	A Multi-Scale Spatiotemporal Capsule Network for Epilepsy Seizure Detection. Communications in Computer and Information Science, 2024, , 77-88.	0.4	0
8180	Dsmk-DcSeg-Lap, a Generative Adversarial Network Guided by Dark-Chanel and Segmentation to Smoke Removal in Laparoscopic Images. , 2024, , 137-160.		0
8182	AI Data-Centric 3D Machine Vision for Structural Element and Damage Identification. , 2024, , .		0
8191	Analyzing the 'Belt and Road' topic of overseas Chinese media based on the BERTopic modeling. , 2023, , .		0
8196	Align MacridVAE: Multimodal Alignment forÂDisentangled Recommendations. Lecture Notes in Computer Science, 2024, , 73-89.	1.0	0
8200	Building Predictive Models with Machine Learning. Studies in Big Data, 2024, , 39-59.	0.8	0
8206	Artificial Neural Network Approach for Predicting Student Achievement in Scratch Training. Studies in Systems, Decision and Control, 2024, , 187-197.	0.8	0
8208	Overview of Recommender Systems. , 2024, , 1-30.		0
8219	Explainable Artificial Intelligence for Deep Learning Models in Diagnosing Brain Tumor Disorder. Lecture Notes in Networks and Systems, 2024, , 149-159.	0.5	0