Deep Convolutional Neural Networks for Computer-Aid Dataset Characteristics and Transfer Learning

IEEE Transactions on Medical Imaging 35, 1285-1298

DOI: 10.1109/tmi.2016.2528162

Citation Report

#	Article	IF	CITATIONS
1	Bladder Cancer Segmentation in CT for Treatment Response Assessment: Application of Deep-Learning Convolution Neural Network—A Pilot Study. Tomography, 2016, 2, 421-429.	0.8	64
2	Exploring Deep Learning and Transfer Learning for Colonic Polyp Classification. Computational and Mathematical Methods in Medicine, 2016, 2016, 1-16.	0.7	127
3	Deep Learning in Gastrointestinal Endoscopy. Critical Reviews in Biomedical Engineering, 2016, 44, 493-504.	0.5	8
4	Mass detection in digital breast tomosynthesis: Deep convolutional neural network with transfer learning from mammography. Medical Physics, 2016, 43, 6654-6666.	1.6	232
5	Towards quantifying the amount of uncollected garbage through image analysis. , 2016, , .		2
6	Comparative study between deep learning and bag of visual words for wild-animal recognition. , 2016, , .		23
7	Pap smear image classification using convolutional neural network. , 2016, , .		40
8	Deep Learning Trends for Focal Brain Pathology Segmentation in MRI. Lecture Notes in Computer Science, 2016, , 125-148.	1.0	49
9	Computer aided detection and diagnosis in medical imaging. , 2016, , .		11
10	Cardiac left ventricular volumes prediction method based on atlas location and deep learning. , 2016, , .		7
11	Understanding the Mechanisms of Deep Transfer Learning for Medical Images. Lecture Notes in Computer Science, 2016, , 188-196.	1.0	100
12	From On-Road to Off: Transfer Learning Within a Deep Convolutional Neural Network for Segmentation and Classification of Off-Road Scenes. Lecture Notes in Computer Science, 2016, , 149-162.	1.0	22
13	Deep learning based classification of breast tumors with shear-wave elastography. Ultrasonics, 2016, 72, 150-157.	2.1	181
14	A Cross-Modality Neural Network Transform for Semi-automatic Medical Image Annotation. Lecture Notes in Computer Science, 2016, , 300-307.	1.0	15
15	Discrimination of Breast Cancer with Microcalcifications on Mammography by Deep Learning. Scientific Reports, 2016, 6, 27327.	1.6	197
16	Identifying Patients at Risk for Aortic Stenosis Through Learning from Multimodal Data. Lecture Notes in Computer Science, 2016, , 238-245.	1.0	5
17	SpineNet: Automatically Pinpointing Classification Evidence in Spinal MRIs. Lecture Notes in Computer Science, 2016, , 166-175.	1.0	30
18	Three-Dimensional CT Image Segmentation by Combining 2D Fully Convolutional Network with 3D Majority Voting. Lecture Notes in Computer Science, 2016, , 111-120.	1.0	65

#	Article	IF	Citations
19	Guest Editorial Deep Learning in Medical Imaging: Overview and Future Promise of an Exciting New Technique. IEEE Transactions on Medical Imaging, 2016, 35, 1153-1159.	5.4	1,261
20	Discriminating solitary cysts from soft tissue lesions in mammography using a pretrained deep convolutional neural network. Medical Physics, 2017, 44, 1017-1027.	1.6	84
21	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
22	Automatic Detection and Classification of Colorectal Polyps by Transferring Low-Level CNN Features From Nonmedical Domain. IEEE Journal of Biomedical and Health Informatics, 2017, 21, 41-47.	3.9	264
23	Convolutional neural network transfer for automated glaucoma identification. Proceedings of SPIE, 2017, , .	0.8	48
24	Bladder cancer treatment response assessment using deep learning in CT with transfer learning. , 2017,		1
25	Fully Automated Deep Learning System for Bone Age Assessment. Journal of Digital Imaging, 2017, 30, 427-441.	1.6	317
26	Automating cell detection and classification in human brain fluorescent microscopy images using dictionary learning and sparse coding. Journal of Neuroscience Methods, 2017, 282, 20-33.	1.3	25
27	FUIQA: Fetal Ultrasound Image Quality Assessment With Deep Convolutional Networks. IEEE Transactions on Cybernetics, 2017, 47, 1336-1349.	6.2	161
28	Deep Learning in Medical Image Analysis. Annual Review of Biomedical Engineering, 2017, 19, 221-248.	5.7	2,935
29	Transfer Learning for Colonic Polyp Classification Using Off-the-Shelf CNN Features. Lecture Notes in Computer Science, 2017, , $1-13$.	1.0	3
30	Conditional random field modelling of interactions between findings in mammography. , 2017, , .		1
31	Characterizing cartilage microarchitecture on phase-contrast x-ray computed tomography using deep learning with convolutional neural networks. , 2017, , .		1
32	Epithelium-Stroma Classification via Convolutional Neural Networks and Unsupervised Domain Adaptation in Histopathological Images. IEEE Journal of Biomedical and Health Informatics, 2017, 21, 1625-1632.	3.9	63
33	Brain Hemorrhage Diagnosis by Using Deep Learning. , 2017, , .		36
34	A transfer learning approach for classification of clinical significant prostate cancers from mpMRI scans. Proceedings of SPIE, 2017, , .	0.8	15
35	Automatic Skin Lesion Segmentation Using Deep Fully Convolutional Networks With Jaccard Distance. IEEE Transactions on Medical Imaging, 2017, 36, 1876-1886.	5.4	463
36	Stacked fully convolutional networks with multi-channel learning: application to medical image segmentation. Visual Computer, 2017, 33, 1061-1071.	2.5	43

#	Article	IF	Citations
37	3D deeply supervised network for automated segmentation of volumetric medical images. Medical Image Analysis, 2017, 41, 40-54.	7.0	444
38	Deep Learning at Chest Radiography: Automated Classification of Pulmonary Tuberculosis by Using Convolutional Neural Networks. Radiology, 2017, 284, 574-582.	3.6	1,228
39	Transfer Learning with Convolutional Neural Networks for Classification of Abdominal Ultrasound Images. Journal of Digital Imaging, 2017, 30, 234-243.	1.6	191
40	Transfer learning from RF to B-mode temporal enhanced ultrasound features for prostate cancer detection. International Journal of Computer Assisted Radiology and Surgery, 2017, 12, 1111-1121.	1.7	25
41	Medical image retrieval using deep convolutional neural network. Neurocomputing, 2017, 266, 8-20.	3.5	312
42	A structured latent model for ovarian carcinoma subtyping from histopathology slides. Medical Image Analysis, 2017, 39, 194-205.	7.0	31
43	DeepPap: Deep Convolutional Networks for Cervical Cell Classification. IEEE Journal of Biomedical and Health Informatics, 2017, 21, 1633-1643.	3.9	317
44	Identifying Carotid Plaque Composition in MRI with Convolutional Neural Networks. , 2017, , .		8
45	Fusion of transfer learning features and its application in image classification. , 2017, , .		21
46	Deep Learning for Brain MRI Segmentation: State of the Art and Future Directions. Journal of Digital Imaging, 2017, 30, 449-459.	1.6	758
47	Multi-level deep supervised networks for retinal vessel segmentation. International Journal of Computer Assisted Radiology and Surgery, 2017, 12, 2181-2193.	1.7	140
48	Automated diagnosis of prostate cancer in multi-parametric MRI based on multimodal convolutional neural networks. Physics in Medicine and Biology, 2017, 62, 6497-6514.	1.6	122
49	Dermoscopic Image Segmentation via Multistage Fully Convolutional Networks. IEEE Transactions on Biomedical Engineering, 2017, 64, 2065-2074.	2.5	237
50	Spotting L3 slice in CT scans using deep convolutional network and transfer learning. Computers in Biology and Medicine, 2017, 87, 95-103.	3.9	51
51	Deep Convolutional Neural Networks for Endotracheal Tube Position and X-ray Image Classification: Challenges and Opportunities. Journal of Digital Imaging, 2017, 30, 460-468.	1.6	77
52	Semi-Automatic Retrieval of Relevant Segments from Laparoscopic Surgery Videos. , 2017, , .		1
53	Ultrasound Standard Plane Detection Using a Composite Neural Network Framework. IEEE Transactions on Cybernetics, 2017, 47, 1576-1586.	6.2	118
54	Automated segmentation of 3D anatomical structures on CT images by using a deep convolutional network based on end-to-end learning approach. Proceedings of SPIE, 2017, , .	0.8	11

#	Article	IF	Citations
55	Breast mass lesion classification in mammograms by transfer learning. , 2017, , .		51
56	Low Dimensional Representation of Fisher Vectors for Microscopy Image Classification. IEEE Transactions on Medical Imaging, 2017, 36, 1636-1649.	5.4	34
57	Handwritten isolated Bangla compound character recognition: A new benchmark using a novel deep learning approach. Pattern Recognition Letters, 2017, 90, 15-21.	2.6	97
58	Comparison of breast DCE-MRI contrast time points for predicting response to neoadjuvant chemotherapy using deep convolutional neural network features with transfer learning. Proceedings of SPIE, 2017, , .	0.8	13
59	A two-step convolutional neural network based computer-aided detection scheme for automatically segmenting adipose tissue volume depicting on CT images. Computer Methods and Programs in Biomedicine, 2017, 144, 97-104.	2.6	94
60	Automated Melanoma Recognition in Dermoscopy Images via Very Deep Residual Networks. IEEE Transactions on Medical Imaging, 2017, 36, 994-1004.	5.4	763
61	Deep Learning for Health Informatics. IEEE Journal of Biomedical and Health Informatics, 2017, 21, 4-21.	3.9	1,290
62	Integrating Online and Offline Three-Dimensional Deep Learning for Automated Polyp Detection in Colonoscopy Videos. IEEE Journal of Biomedical and Health Informatics, 2017, 21, 65-75.	3.9	184
63	Automatic Segmentation and Quantification of White and Brown Adipose Tissues from PET/CT Scans. IEEE Transactions on Medical Imaging, 2017, 36, 734-744.	5 . 4	24
64	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
65	Multisource Transfer Learning With Convolutional Neural Networks for Lung Pattern Analysis. IEEE Journal of Biomedical and Health Informatics, 2017, 21, 76-84.	3.9	222
66	Classification of Pancreatic Cysts in Computed Tomography Images Using a Random Forest and Convolutional Neural Network Ensemble. Lecture Notes in Computer Science, 2017, 10435, 150-158.	1.0	38
67	Bangladeshi Number Plate Detection. , 2017, , .		2
68	Deep Convolutional Neural Networks with transfer learning for computer vision-based data-driven pavement distress detection. Construction and Building Materials, 2017, 157, 322-330.	3.2	666
69	Lung Cancer Pathological Image Analysis Using a Hidden Potts Model. Cancer Informatics, 2017, 16, 117693511771191.	0.9	10
70	An overview of approaches for content-based medical image retrieval. International Journal of Multimedia Information Retrieval, 2017, 6, 271-280.	3.6	27
71	Multi-task transfer learning deep convolutional neural network: application to computer-aided diagnosis of breast cancer on mammograms. Physics in Medicine and Biology, 2017, 62, 8894-8908.	1.6	151
72	Development of automatic retinal vessel segmentation method in fundus images via convolutional neural networks., 2017, 2017, 681-684.		19

#	Article	IF	Citations
73	Co-trained convolutional neural networks for automated detection of prostate cancer in multi-parametric MRI. Medical Image Analysis, 2017, 42, 212-227.	7.0	115
74	Building an SVM Classifier for Automated Selection of Big Data. , 2017, , .		4
75	Building a Deep Learning Classifier for Enhancing a Biomedical Big Data Service. , 2017, , .		5
76	Deep convolutional neural network with transfer learning for rectum toxicity prediction in cervical cancer radiotherapy: a feasibility study. Physics in Medicine and Biology, 2017, 62, 8246-8263.	1.6	140
77	Learning to Read Chest X-Ray Images from 16000+ Examples Using CNN., 2017,,.		44
78	Automatic Classification of Proximal Femur Fractures Based on Attention Models. Lecture Notes in Computer Science, 2017, , 70-78.	1.0	12
79	Bladder Cancer Treatment Response Assessment in CT using Radiomics with Deep-Learning. Scientific Reports, 2017, 7, 8738.	1.6	144
80	Boundary Regularized Convolutional Neural Network for Layer Parsing of Breast Anatomy in Automated Whole Breast Ultrasound. Lecture Notes in Computer Science, 2017, , 259-266.	1.0	18
81	A Hybrid CNN Feature Model for Pulmonary Nodule Differentiation Task. Lecture Notes in Computer Science, 2017, , 19-26.	1.0	2
82	Respiratory magnetic resonance imaging biomarkers in Duchenne muscular dystrophy. Annals of Clinical and Translational Neurology, 2017, 4, 655-662.	1.7	17
83	Automatic Classification of Cancerous Tissue in Laserendomicroscopy Images of the Oral Cavity using Deep Learning. Scientific Reports, 2017, 7, 11979.	1.6	194
84	Demystifying Multitask Deep Neural Networks for Quantitative Structure–Activity Relationships. Journal of Chemical Information and Modeling, 2017, 57, 2490-2504.	2.5	178
85	Building Disease Detection Algorithms with Very Small Numbers of Positive Samples. Lecture Notes in Computer Science, 2017, , 471-479.	1.0	7
86	Retrieval From and Understanding of Large-Scale Multi-modal Medical Datasets: A Review. IEEE Transactions on Multimedia, 2017, 19, 2093-2104.	5.2	43
87	Deep learning of the sectional appearances of 3D <scp>CT</scp> images for anatomical structure segmentation based on an <scp>FCN</scp> voting method. Medical Physics, 2017, 44, 5221-5233.	1.6	137
88	Transfer learning of a deep convolutional neural network for localizing handwritten slab identification numbers. , 2017, , .		6
89	Deep Learning based Radiomics (DLR) and its usage in noninvasive IDH1 prediction for low grade glioma. Scientific Reports, 2017, 7, 5467.	1.6	219
90	SpineNet: Automated classification and evidence visualization in spinal MRIs. Medical Image Analysis, 2017, 41, 63-73.	7.0	97

#	Article	IF	Citations
91	A deep feature fusion methodology for breast cancer diagnosis demonstrated on three imaging modality datasets. Medical Physics, 2017, 44, 5162-5171.	1.6	292
92	A survey on deep learning in medical image analysis. Medical Image Analysis, 2017, 42, 60-88.	7.0	7,976
93	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
94	CNNs flag recognition preprocessing scheme based on gray scale stretching and local binary pattern. , 2017, , .		0
95	Representation Learning for Cross-Modality Classification. Lecture Notes in Computer Science, 2017, , 126-136.	1.0	4
96	Fish Classification in Context of Noisy Images. Communications in Computer and Information Science, 2017, , 216-226.	0.4	17
97	Pre-trained convolutional neural networks as feature extractors for tuberculosis detection. Computers in Biology and Medicine, 2017, 89, 135-143.	3.9	205
98	Optical Camera Communication: Motion over Camera. IEEE Communications Magazine, 2017, 55, 156-162.	4.9	85
99	Operational data augmentation in classifying single aerial images of animals. , 2017, , .		22
100	Automated Analysis of Unregistered Multi-View Mammograms With Deep Learning. IEEE Transactions on Medical Imaging, 2017, 36, 2355-2365.	5.4	139
101	Will Computer-Aided Detection and Diagnosis Revolutionize Colonoscopy?. Gastroenterology, 2017, 153, 1460-1464.e1.	0.6	67
102	Adapting fisher vectors for histopathology image classification. , 2017, , .		48
103	Classifying histopathology whole-slides using fusion of decisions from deep convolutional network on a collection of random multi-views at multi-magnification., 2017,,.		32
104	Knowledge transfer for melanoma screening with deep learning., 2017,,.		117
105	Lung nodule detection in CT using 3D convolutional neural networks., 2017,,.		98
106	Performance of an Artificial Multi-observer Deep Neural Network for Fully Automated Segmentation of Polycystic Kidneys. Journal of Digital Imaging, 2017, 30, 442-448.	1.6	112
107	Adrenal lesions detection on low-contrast CT images using fully convolutional networks with multi-scale integration. , 2017 , , .		1
108	Transfer learning for automated optical inspection., 2017,,.		50

#	Article	IF	CITATIONS
109	Deep assessment process: Objective assessment process for unilateral peripheral facial paralysis via deep convolutional neural network. , 2017 , , .		20
110	Artificial intelligence for analyzing orthopedic trauma radiographs. Monthly Notices of the Royal Astronomical Society: Letters, 2017, 88, 581-586.	1.2	307
111	Automatic labeling of continuous wave Doppler images based on combined image and sentence networks. , 2017, , .		0
112	Identifying key radiogenomic associations between DCE-MRI and micro-RNA expressions for breast cancer. , 2017 , , .		1
113	Semi-automatic skin lesion segmentation via fully convolutional networks. , 2017, , .		18
114	Deep learning for automated skeletal bone age assessment in X-ray images. Medical Image Analysis, 2017, 36, 41-51.	7.0	303
115	DCAN: Deep contour-aware networks for object instance segmentation from histology images. Medical Image Analysis, 2017, 36, 135-146.	7.0	361
116	Texture analysis in radiology: Does the emperor have no clothes?. Abdominal Radiology, 2017, 42, 342-345.	1.0	48
117	HEp-2 Cell Image Classification Based on Convolutional Neural Networks., 2017,,.		4
118	Exploiting Convolutional Neural Networks and Preprocessing Techniques for HEp-2 Cell Classification in Immunofluorescence Images. , 2017, , .		6
119	Improving the generalization of disease stage classification with deep CNN for Glioma histopathological images. , 2017, , .		13
120	Automatic age estimation from facial profile view. IET Computer Vision, 2017, 11, 650-655.	1.3	18
121	Using Convolutional Neural Networks and Transfer Learning for Bone Age Classification. , 2017, , .		26
122	Everything You Wanted to Know about Deep Learning for Computer Vision but Were Afraid to Ask. , 2017, , .		71
123	Diagnosing Leukemia in Blood Smear Images Using an Ensemble of Classifiers and Pre-Trained Convolutional Neural Networks. , 2017, , .		25
124	An application of pre-trained CNN for image classification. , 2017, , .		14
125	A Big Data Analytics Approach in Medical Imaging Segmentation Using Deep Convolutional Neural Networks., 2017,, 181-189.		4
126	On the Limitation of Convolutional Neural Networks in Recognizing Negative Images. , 2017, , .		62

#	Article	IF	Citations
127	Computerâ€aided mammogram diagnosis system using deep learning convolutional fully complexâ€valued relaxation neural network classifier. IET Computer Vision, 2017, 11, 656-662.	1.3	58
128	Leveraging uncertainty information from deep neural networks for disease detection. Scientific Reports, 2017, 7, 17816.	1.6	274
129	A comparative study of deep learning models for medical image classification. IOP Conference Series: Materials Science and Engineering, 2017, 263, 042097.	0.3	16
130	MDNet: A Semantically and Visually Interpretable Medical Image Diagnosis Network. , 2017, , .		160
131	Convolutional neural networks based transfer learning for diabetic retinopathy fundus image classification. , 2017, , .		100
132	A transfer learning approach to parking lot classification in aerial imagery. , 2017, , .		4
133	Convolutional neural networks for histopathology image classification: Training vs. Using pre-trained networks. , 2017, , .		75
134	From neonatal to adult brain MR image segmentation in a few seconds using 3D-like fully convolutional network and transfer learning. , 2017, , .		24
135	Deep Learning: A Primer for Radiologists. Radiographics, 2017, 37, 2113-2131.	1.4	790
136	Building data-driven models with microstructural images: Generalization and interpretability. Materials Discovery, 2017, 10, 19-28.	3.3	64
137	Combinatorial Methods of Feature Selection for Cell Image Classification., 2017,,.		3
138	Glioblastoma multiforme tissue histopathology images based disease stage classification with deep CNN. , 2017, , .		8
139	Glioma grading based on 3D multimodal convolutional neural network and privileged learning. , 2017, , .		19
140	Deep features for breast cancer histopathological image classification. , 2017, , .		191
141	Microvasculature segmentation of arterioles using deep CNN., 2017,,.		13
142	TX-CNN: Detecting tuberculosis in chest X-ray images using convolutional neural network., 2017,,.		85
143	Comparison Between Traditional Texture Methods and Deep Learning Descriptors for Detection of Nitrogen Deficiency in Maize Crops. , 2017 , , .		6
144	A Non-invasive 2D Digital Imaging Method for Detection of Surface Lesions Using Machine Learning. , 2017, , .		2

#	Article	IF	CITATIONS
145	Augmentation and evaluation of training data for deep learning., 2017,,.		22
146	ChestX-Ray8: Hospital-Scale Chest X-Ray Database and Benchmarks on Weakly-Supervised Classification and Localization of Common Thorax Diseases. , 2017, , .		2,038
147	Adaptive Sparse Learning for Neurodegenerative Disease Classification., 2017,,.		3
148	Physical security assessment with convolutional neural network transfer learning. , 2017, , .		3
149	Enhancing Protein-ATP and Protein-ADP Binding Sites Prediction Using Supervised Instance-Transfer Learning., 2017,,.		1
150	CNN Based Transfer Learning for Scene Script Identification. Lecture Notes in Computer Science, 2017, , 702-711.	1.0	5
151	Multi-Instance Multi-Stage Deep Learning for Medical Image Recognition. , 2017, , 83-104.		10
152	Automatic Interpretation of Carotid Intima–Media Thickness Videos Using Convolutional Neural Networks. , 2017, , 105-131.		9
153	Deep Learning for Medical Image Analysis: Applications to Computed Tomography and Magnetic Resonance Imaging. Hanyang Medical Reviews, 2017, 37, 61.	0.4	14
154	Deep Transfer Learning for Modality Classification of Medical Images. Information (Switzerland), 2017, 8, 91.	1.7	111
155	Transfer Learning with Deep Convolutional Neural Network for SAR Target Classification with Limited Labeled Data. Remote Sensing, 2017, 9, 907.	1.8	311
156	Deep-learning Versus OBIA for Scattered Shrub Detection with Google Earth Imagery: Ziziphus lotus as Case Study. Remote Sensing, 2017, 9, 1220.	1.8	120
157	Automatic Radiographic Position Recognition from Image Frequency and Intensity. Journal of Healthcare Engineering, 2017, 2017, 1-9.	1.1	4
158	Intelligent Image Recognition System for Marine Fouling Using Softmax Transfer Learning and Deep Convolutional Neural Networks. Complexity, 2017, 2017, 1-9.	0.9	30
159	Using Deep Learning for Classification of Lung Nodules on Computed Tomography Images. Journal of Healthcare Engineering, 2017, 2017, 1-7.	1.1	277
160	Low-Grade Glioma Segmentation Based on CNN with Fully Connected CRF. Journal of Healthcare Engineering, 2017, 2017, 1-12.	1.1	28
161	Deep Learning Techniques on Texture Analysis of Chest and Breast Images., 2017,, 247-279.		1
162	Computational biology: deep learning. Emerging Topics in Life Sciences, 2017, 1, 257-274.	1.1	65

#	Article	IF	CITATIONS
163	Deep Learning in Visual Computing and Signal Processing. Applied Computational Intelligence and Soft Computing, 2017, 2017, 1-13.	1.6	91
164	Time-Frequency Convolutional Neural Network for Automatic Sleep Stage Classification Based on Single-Channel EEG., 2017,,.		15
165	Handling of Feature Space Complexity for Texture Analysis in Medical Images. , 2017, , 163-191.		4
166	Past, present, and future trend of GPU computing in deep learning on medical images. , 2017, , .		4
167	Engineering effect equivalence enabled transfer learning. , 2017, , .		0
168	Segmentation technique for medical image processing: A survey. , 2017, , .		17
169	Deep learning in breast cancer risk assessment: evaluation of convolutional neural networks on a clinical dataset of full-field digital mammograms. Journal of Medical Imaging, $2017, 4, 1$.	0.8	53
170	Deep residual learning in CT physics: scatter correction for spectral CT., 2017,,.		12
171	Breast Cancer Detection Using Transfer Learning in Convolutional Neural Networks. , 2017, , .		44
172	Holistic segmentation of the lung in cine MRI. Journal of Medical Imaging, 2017, 4, 1.	0.8	9
173	Breast mass classification via deeply integrating the contextual information from multi-view data. Pattern Recognition, 2018, 80, 42-52.	5.1	55
174	Fusion of Deep Learning Descriptors for Gesture Recognition. Lecture Notes in Computer Science, 2018, , 212-219.	1.0	1
175	Agile convolutional neural network for pulmonary nodule classification using CT images. International Journal of Computer Assisted Radiology and Surgery, 2018, 13, 585-595.	1.7	128
176	Advances in Computed Tomography in Thoracic Imaging. Seminars in Roentgenology, 2018, 53, 157-170.	0.2	0
177	Uncertainty-Aware Organ Classification for Surgical Data Science Applications in Laparoscopy. IEEE Transactions on Biomedical Engineering, 2018, 65, 2649-2659.	2.5	37
178	Automatic Brain Tumor Segmentation in Multispectral MRI Volumes Using a Random Forest Approach. Lecture Notes in Computer Science, 2018, , 137-149.	1.0	3
179	Multi-channel multi-scale fully convolutional network for 3D perivascular spaces segmentation in 7T MR images. Medical Image Analysis, 2018, 46, 106-117.	7.0	91
180	Novel Developments in Endoscopic Mucosal Imaging. Gastroenterology, 2018, 154, 1876-1886.	0.6	32

#	Article	IF	Citations
181	GIS partial discharge pattern recognition via deep convolutional neural network under complex data source. IEEE Transactions on Dielectrics and Electrical Insulation, 2018, 25, 678-685.	1.8	108
182	Classify epitheliumâ€stroma in histopathological images based on deep transferable network. Journal of Microscopy, 2018, 271, 164-173.	0.8	12
183	Automated EEG-based screening of depression using deep convolutional neural network. Computer Methods and Programs in Biomedicine, 2018, 161, 103-113.	2.6	404
184	Convolutional neural networks: Ensemble modeling, fine-tuning and unsupervised semantic localization for neurosurgical CLE images. Journal of Visual Communication and Image Representation, 2018, 54, 10-20.	1.7	28
185	Medical Image Classification with Hand-Designed or Machine-Designed Texture Descriptors: A Performance Evaluation. Lecture Notes in Computer Science, 2018, , 266-275.	1.0	14
186	A deep convolutional neural network to analyze position averaged convergent beam electron diffraction patterns. Ultramicroscopy, 2018, 188, 59-69.	0.8	47
187	Predictive features for early cancer detection in Barrett's esophagus using Volumetric Laser Endomicroscopy. Computerized Medical Imaging and Graphics, 2018, 67, 9-20.	3.5	18
188	Deep Transfer Learning for Imageâ€Based Structural Damage Recognition. Computer-Aided Civil and Infrastructure Engineering, 2018, 33, 748-768.	6.3	484
189	Opportunities and obstacles for deep learning in biology and medicine. Journal of the Royal Society Interface, 2018, 15, 20170387.	1.5	1,282
190	Online Handwritten Bangla Character Recognition Using CNN: A Deep Learning Approach. Advances in Intelligent Systems and Computing, 2018, , 413-420.	0.5	15
191	Server-Based Manipulation Attacks Against Machine Learning Models. , 2018, , .		3
192	Optimization of computer aided detection systems: An evolutionary approach. Expert Systems With Applications, 2018, 100, 145-156.	4.4	11
193	Exudate-based diabetic macular edema recognition in retinal images using cascaded deep residual networks. Neurocomputing, 2018, 290, 161-171.	3.5	94
194	Deep transfer learning for characterizing chondrocyte patterns in phase contrast X-Ray computed tomography images of the human patellar cartilage. Computers in Biology and Medicine, 2018, 95, 24-33.	3.9	47
195	Robust 3-D Human Detection in Complex Environments With a Depth Camera. IEEE Transactions on Multimedia, 2018, 20, 2249-2261.	5.2	31
196	Spatial aggregation of holistically-nested convolutional neural networks for automated pancreas localization and segmentation. Medical Image Analysis, 2018, 45, 94-107.	7.0	255
197	Left Atrial Appendage Segmentation Using Fully Convolutional Neural Networks and Modified Three-Dimensional Conditional Random Fields. IEEE Journal of Biomedical and Health Informatics, 2018, 22, 1906-1916.	3.9	32
198	Applications of Deep Learning and Reinforcement Learning to Biological Data. IEEE Transactions on Neural Networks and Learning Systems, 2018, 29, 2063-2079.	7.2	596

#	Article	IF	CITATIONS
199	3D multi-scale FCN with random modality voxel dropout learning for Intervertebral Disc Localization and Segmentation from Multi-modality MR Images. Medical Image Analysis, 2018, 45, 41-54.	7.0	110
200	Macular OCT Classification Using a Multi-Scale Convolutional Neural Network Ensemble. IEEE Transactions on Medical Imaging, 2018, 37, 1024-1034.	5.4	200
201	Hookworm Detection in Wireless Capsule Endoscopy Images With Deep Learning. IEEE Transactions on Image Processing, 2018, 27, 2379-2392.	6.0	121
202	Deep Learning in Radiology: Does One SizeÂFit All?. Journal of the American College of Radiology, 2018, 15, 521-526.	0.9	96
203	Automatic detection of pulmonary nodules in CT images by incorporating 3D tensor filtering with local image feature analysis. Physica Medica, 2018, 46, 124-133.	0.4	58
204	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
205	Deep Learning Applications in Medical Image Analysis. IEEE Access, 2018, 6, 9375-9389.	2.6	903
206	Rotation-covariant tissue analysis for interstitial lung diseases using learned steerable filters: Performance evaluation and relevance for diagnostic aid. Computerized Medical Imaging and Graphics, 2018, 64, 1-11.	3.5	6
207	A novel biomedical image indexing and retrieval system via deep preference learning. Computer Methods and Programs in Biomedicine, 2018, 158, 53-69.	2.6	26
208	Going Deeper on Biolmages Classification: A Plant Leaf Dataset Case Study. Lecture Notes in Computer Science, 2018, , 36-44.	1.0	2
209	Using Convolutional Neural Networks for Enhanced Capture of Breast Parenchymal Complexity Patterns Associated with Breast Cancer Risk. Academic Radiology, 2018, 25, 977-984.	1.3	26
210	Deep Convolutional Neural Networks for breast cancer screening. Computer Methods and Programs in Biomedicine, 2018, 157, 19-30.	2.6	310
211	Generalized backpropagation algorithm for training secondâ€order neural networks. International Journal for Numerical Methods in Biomedical Engineering, 2018, 34, e2956.	1.0	17
212	Deep learning reveals Alzheimer's disease onset in MCI subjects: Results from an international challenge. Journal of Neuroscience Methods, 2018, 302, 3-9.	1.3	104
213	Dataâ€driven pedestrian reâ€identification based on hierarchical semantic representation. Concurrency Computation Practice and Experience, 2018, 30, e4403.	1.4	9
214	Artificial intelligence in diagnosis of obstructive lung disease. Current Opinion in Pulmonary Medicine, 2018, 24, 117-123.	1.2	74
215	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
216	Novel real-time tumor-contouring method using deep learning to prevent mistracking in X-ray fluoroscopy. Radiological Physics and Technology, 2018, 11, 43-53.	1.0	26

#	Article	IF	CITATIONS
217	Multi-view multi-scale CNNs for lung nodule type classification from CT images. Pattern Recognition, 2018, 77, 262-275.	5.1	118
218	Hierarchical combinatorial deep learning architecture for pancreas segmentation of medical computed tomography cancer images. BMC Systems Biology, 2018, 12, 56.	3.0	52
219	Hello World Deep Learning in Medical Imaging. Journal of Digital Imaging, 2018, 31, 283-289.	1.6	79
220	Exploiting CNNs for Improving Acoustic Source Localization in Noisy and Reverberant Conditions. IEEE Transactions on Emerging Topics in Computational Intelligence, 2018, 2, 103-116.	3.4	37
221	Learning From Pseudo-Randomness With an Artificial Neural Network–Does God Play Pseudo-Dice?. IEEE Access, 2018, 6, 22987-22992.	2.6	17
222	Automatic Segmentation of Acute Ischemic Stroke From DWI Using 3-D Fully Convolutional DenseNets. IEEE Transactions on Medical Imaging, 2018, 37, 2149-2160.	5.4	141
223	Combining 2D and 3D deep models for action recognition with depth information. Signal, Image and Video Processing, 2018, 12, 1197-1205.	1.7	23
224	Deep learning in mammography and breast histology, an overview and future trends. Medical Image Analysis, 2018, 47, 45-67.	7.0	214
225	Super-resolution reconstruction of MR image with a novel residual learning network algorithm. Physics in Medicine and Biology, 2018, 63, 085011.	1.6	88
226	Data Analysis Strategies in Medical Imaging. Clinical Cancer Research, 2018, 24, 3492-3499.	3.2	115
227	A complete person re-identification model using Kernel-PCA-based Gabor-filtered hybrid descriptors. International Journal of Multimedia Information Retrieval, 2018, 7, 221-229.	3.6	6
229	3D Deep Learning Angiography (3D-DLA) from C-arm Conebeam CT. American Journal of Neuroradiology, 2018, 39, 916-922.	1.2	10
230	Convolutional neural network-based multimodal image fusion via similarity learning in the shearlet domain. Neural Computing and Applications, 2018, 30, 2029-2045.	3.2	85
231	Dynamics of four-neuron recurrent inhibitory loop with state-dependent time delays. Neurocomputing, 2018, 291, 109-127.	3.5	0
232	An application of cascaded 3D fully convolutional networks for medical image segmentation. Computerized Medical Imaging and Graphics, 2018, 66, 90-99.	3.5	227
233	SV-RCNet: Workflow Recognition From Surgical Videos Using Recurrent Convolutional Network. IEEE Transactions on Medical Imaging, 2018, 37, 1114-1126.	5.4	184
234	Personnel Recognition and Gait Classification Based on Multistatic Micro-Doppler Signatures Using Deep Convolutional Neural Networks. IEEE Geoscience and Remote Sensing Letters, 2018, 15, 669-673.	1.4	119
235	VoxResNet: Deep voxelwise residual networks for brain segmentation from 3D MR images. NeuroImage, 2018, 170, 446-455.	2.1	539

#	Article	IF	CITATIONS
236	Multiscale Rotation-Invariant Convolutional Neural Networks for Lung Texture Classification. IEEE Journal of Biomedical and Health Informatics, 2018, 22, 184-195.	3.9	79
237	Learning laparoscopic video shot classification for gynecological surgery. Multimedia Tools and Applications, 2018, 77, 8061-8079.	2.6	51
238	A parasitic metric learning net for breast mass classification based on mammography. Pattern Recognition, 2018, 75, 292-301.	5.1	79
239	Deep convolutional neural network and 3D deformable approach for tissue segmentation in musculoskeletal magnetic resonance imaging. Magnetic Resonance in Medicine, 2018, 79, 2379-2391.	1.9	240
240	DeepSIC: a deep model. Cluster Computing, 2018, 21, 741-754.	3.5	2
241	An Automatic Detection System of Lung Nodule Based on Multigroup Patch-Based Deep Learning Network. IEEE Journal of Biomedical and Health Informatics, 2018, 22, 1227-1237.	3.9	179
242	Fusing texture, shape and deep model-learned information at decision level for automated classification of lung nodules on chest CT. Information Fusion, 2018, 42, 102-110.	11.7	185
243	Large-scale retrieval for medical image analytics: A comprehensive review. Medical Image Analysis, 2018, 43, 66-84.	7.0	151
244	Effects of Preprocessing in Slice-Level Classification of Interstitial Lung Disease Based on Deep Convolutional Networks. Lecture Notes in Computational Vision and Biomechanics, 2018, , 624-629.	0.5	0
245	Comparison of Shallow and Deep Learning Methods on Classifying the Regional Pattern of Diffuse Lung Disease. Journal of Digital Imaging, 2018, 31, 415-424.	1.6	78
246	Radiomics in Brain Tumor: Image Assessment, Quantitative Feature Descriptors, and Machine-Learning Approaches. American Journal of Neuroradiology, 2018, 39, 208-216.	1.2	281
247	A new type of neurons for machine learning. International Journal for Numerical Methods in Biomedical Engineering, 2018, 34, e2920.	1.0	32
248	Detection of high-grade small bowel obstruction on conventional radiography with convolutional neural networks. Abdominal Radiology, 2018, 43, 1120-1127.	1.0	31
249	Understanding Clinical Mammographic Breast Density Assessment: a Deep Learning Perspective. Journal of Digital Imaging, 2018, 31, 387-392.	1.6	35
250	Deep Learning in Microscopy Image Analysis: A Survey. IEEE Transactions on Neural Networks and Learning Systems, 2018, 29, 4550-4568.	7.2	261
251	Deep periocular representation aiming video surveillance. Pattern Recognition Letters, 2018, 114, 2-12.	2.6	25
252	Vehicle Type Recognition in Surveillance Images From Labeled Web-Nature Data Using Deep Transfer Learning. IEEE Transactions on Intelligent Transportation Systems, 2018, 19, 2913-2922.	4.7	52
253	Automated Interpretation of Blood Culture Gram Stains by Use of a Deep Convolutional Neural Network. Journal of Clinical Microbiology, 2018, 56, .	1.8	83

#	Article	IF	CITATIONS
254	Data Science in Radiology: A Path Forward. Clinical Cancer Research, 2018, 24, 532-534.	3.2	52
255	A deep learning method for classifying mammographic breast density categories. Medical Physics, 2018, 45, 314-321.	1.6	188
256	Deep Learning for Medical Image Processing: Overview, Challenges and the Future. Lecture Notes in Computational Vision and Biomechanics, 2018, , 323-350.	0.5	561
257	Segmentation of the hippocampus by transferring algorithmic knowledge for large cohort processing. Medical Image Analysis, 2018, 43, 214-228.	7.0	72
258	Recognition on Images from Internet Street View Based on Hierarchical Features Learning with CNNs. Journal of Information Technology Research, 2018, 11, 62-74.	0.3	3
259	Multiple Convolutional Neural Networks for Online Visual Tracking. , 2018, , .		0
260	Computer-aided diagnosis to differentiate colorectal polyps: are we nearing primetime?. Journal of Medical Artificial Intelligence, 2018, 1, 13-13.	1.1	0
261	Patch-Based Semantic Segmentation for Detecting Arterioles and Venules in Epifluorescence Imagery. , 2018, 2018, .		2
262	Identifying Architectural Distortion in Mammogram Images Via a SE-DenseNet Model and Twice Transfer Learning. , 2018, , .		7
263	Features Representation for Flue-cured Tobacco Grading Based on Transfer Learning to Hard Sample. , 2018, , .		5
264	Drone Detection Using Convolutional Neural Networks with Acoustic STFT Features. , 2018, , .		35
265	Deep Convolutional Neural Networks Capabilities for Binary Classification of Polar Mesocyclones in Satellite Mosaics. Atmosphere, 2018, 9, 426.	1.0	16
266	Oil Tank Extraction in High-Resolution Remote Sensing Images Based on Deep Learning. , 2018, , .		4
267	Research on Text Detection in Network Advertisement Picture Based on Depth Learning. , 2018, , .		0
268	Palpable Breast Lump Triage by Minimally Trained Operators in Mexico Using Computer-Assisted Diagnosis and Low-Cost Ultrasound. Journal of Global Oncology, 2018, 4, 1-9.	0.5	17
269	Underwater object Images Classification Based on Convolutional Neural Network. , 2018, , .		9
270	A Dataset and Preliminary Results for Umpire Pose Detection Using SVM Classification of Deep Features. , $2018, $, .		13
271	Comparison of Deep Transfer Learning Strategies for Digital Pathology. , 2018, , .		70

#	Article	IF	CITATIONS
272	Detection of epithelial growth factor receptor (EGFR) mutations on CT images of patients with lung adenocarcinoma using radiomics and/or multi-level residual convolutionary neural networks. Journal of Thoracic Disease, 2018, 10, 6624-6635.	0.6	31
273	Multicenter Imaging Studies: Automated Approach to Evaluating Data Variability and the Role of Outliers. , $2018, $, .		1
274	Currency Detection and Recognition Based on Deep Learning. , 2018, , .		20
275	Artificial intelligence diagnosis of Helicobacter pylori infection using blue laser imaging-bright and linked color imaging: a single-center prospective study. Annals of Gastroenterology, 2018, 31, 462-468.	0.4	100
276	Is Convolutional Network Competitive for Vision Method in the Furniture Dowel Quality Control?. , 2018, , .		1
277	Automatic Handwritten words on Touchscreen to Text file converter. , 2018, , .		0
278	Toward Ubiquitous Assessment of Neonates' Health Condition., 2018,,.		0
279	Transfer Learning with PipNet: For Automated Visual Analysis of Piping Design. , 2018, , .		5
280	Methodology to develop machine learning algorithms to improve performance in gastrointestinal endoscopy. World Journal of Gastroenterology, 2018, 24, 5057-5062.	1.4	31
281	A Transfer Learning based approach for Pakistani Traffic-sign Recognition; using ConvNets., 2018,,.		2
282	Pedestrian Detection System with a Clear Approach on Raspberry Pi 3., 2018,,.		1
283	CNN-LSTM: Cascaded Framework For Brain Tumour Classification. , 2018, , .		61
284	Laser Seam Welding optimization using Inductive Transfer Learning with Artificial Neural Networks. , 2018, , .		0
285	Deep Learning and Medical Diagnosis: A Review of Literature. Multimodal Technologies and Interaction, 2018, 2, 47.	1.7	278
286	Race Recognition Using Deep Convolutional Neural Networks. Symmetry, 2018, 10, 564.	1.1	37
287	Alzheimer's disease Classification from Brain MRI based on transfer learning from CNN. , 2018, , .		37
288	Pedestrian Detection Using R-CNN Object Detector., 2018,,.		11
289	ldentification of new particle formation events with deep learning. Atmospheric Chemistry and Physics, 2018, 18, 9597-9615.	1.9	17

#	Article	IF	Citations
290	Deep Learning on Brain Cortical Thickness Data for Disease Classification. , 2018, , .		7
291	A Multiple Source based Transfer Learning Framework for Marketing Campaigns. , 2018, , .		0
293	Transmission Line Fault Diagnosis Based on Wavelet Packet Analysis and Convolutional Neural Network. , 2018, , .		6
294	Automatic classification of dual-modalilty, smartphone-based oral dysplasia and malignancy images using deep learning. Biomedical Optics Express, 2018, 9, 5318.	1.5	86
295	Leveraging Known Data for Missing Label Prediction in Cultural Heritage Context. Applied Sciences (Switzerland), 2018, 8, 1768.	1.3	29
296	Classification of Malaria-Infected Cells Using Deep Convolutional Neural Networks. , 0, , .		21
297	Garbage localization based on weakly supervised learning in Deep Convolutional Neural Network. , 2018, , .		11
298	Deep Learning for Cancer Cell Detection and Segmentation: A Survey. , 2018, , .		3
299	Analysis of Hyperparameter Tuning in Neural Style Transfer. , 2018, , .		2
300	Enhanced Hopfield Neural Network with Edge Preserving (EHNN-EP) based severity diagnosis of Ductal Carcinoma in Situ (DCIS). , 2018, , .		O
301	Cross-Paradigm Pretraining of Convolutional Networks Improves Intracranial EEG Decoding. , 2018, , .		7
302	Key Frame Extraction of Assembly Process Based on Deep Learning. , 2018, , .		O
303	Transfer Learning for Unseen Robot Detection and Joint Estimation on a Multi-Objective Convolutional Neural Network. , 2018, , .		6
304	Evaluation of Pre-Trained Convolutional Neural Network Models for Object Recognition. International Journal of Engineering and Technology(UAE), 2018, 7, 95.	0.2	12
305	Power-Efficient ReRAM-Aware CNN Model Generation. , 2018, , .		1
306	Deep-Learning-Based Acute Leukemia Classification Using Imaging Flow Cytometry and Morphology. , 2018, , .		7
307	A KM-Net Model Based on k-Means Weight Initialization for Images Classification. , 2018, , .		2
308	Unknown Landscape Identification with CNN Transfer Learning. , 2018, , .		9

#	Article	IF	CITATIONS
309	Product Surface Defect Detection Based on Deep Learning., 2018,,.		7
310	Deep Medical Image Computing in Preventive and Precision Medicine. IEEE MultiMedia, 2018, 25, 109-113.	1.5	6
311	Learning an Arousal-Valence Speech Front-End Network using Media Data In-the-Wild for Emotion Recognition. , 2018, , .		7
312	Image Based Detection of Craniofacial Abnormalities using Feature Extraction by Classical Convolutional Neural Network. , 2018, , .		8
313	An Intelligent Fault Diagnosis Method for Bearings with Variable Rotating Speed Based on Pythagorean Spatial Pyramid Pooling CNN. Sensors, 2018, 18, 3857.	2.1	58
314	Bag of deep features for preoperative prediction of sentinel lymph node metastasis in breast cancer. Physics in Medicine and Biology, 2018, 63, 245014.	1.6	30
315	The European Federation of Organisations for Medical Physics (EFOMP) White Paper: Big data and deep learning in medical imaging and in relation to medical physics profession. Physica Medica, 2018, 56, 90-93.	0.4	36
316	Vulnerable Plaque Recognition Based on Attention Model with Deep Convolutional Neural Network. , 2018, 2018, 834-837.		7
317	Automated Detection of Lung Nodules in CT Images with 3D Convolutional Neural Networks. , 2018, , .		3
318	Seagrass Detection in Coastal Water Through Deep Capsule Networks. Lecture Notes in Computer Science, 2018, , 320-331.	1.0	14
319	Breast cancer histology images classification: Training from scratch or transfer learning?. ICT Express, 2018, 4, 247-254.	3.3	187
320	Computer-Aided Diagnosis of Pulmonary Nodules on CT Scan Images. , 2018, , .		2
321	Application research of image recognition technology based on CNN in image location of environmental monitoring UAV. Eurasip Journal on Image and Video Processing, 2018, 2018, .	1.7	17
322	A Study on the Image Detection Using Convolution Neural Networks and TenserFlow. , 2018, , .		15
323	A Model Based on Convolutional Neural Network for Online Transaction Fraud Detection. Security and Communication Networks, 2018, 2018, 1-9.	1.0	62
324	An unsupervised augmentation framework for deep learning based geospatial object detection. , 2018, ,		9
325	Human Activity Recognition and Location Based on Temporal Analysis. Journal of Engineering (United) Tj ETQq0	0 0 rgBT /0	Overlock 10 T
326	Discrimination and conversion prediction of mild cognitive impairment using convolutional neural networks. Quantitative Imaging in Medicine and Surgery, 2018, 8, 992-1003.	1.1	45

#	Article	IF	CITATIONS
327	Deep Lesion Graphs in the Wild: Relationship Learning and Organization of Significant Radiology Image Findings in a Diverse Large-Scale Lesion Database. , 2018, , .		78
328	DeepLane., 2018, , .		12
329	A Robust Approach to Open Vocabulary Image Retrieval with Deep Convolutional Neural Networks and Transfer Learning. , $2018, \ldots$		2
330	Combining ABCD Rule, Texture Features and Transfer Learning in Automatic Diagnosis of Melanoma. , 2018, , .		6
331	An Academic Emotion Database and the Baseline Evaluation. , 2018, , .		5
332	Multi-Stream Convolutional Neural Network for SAR Automatic Target Recognition. Remote Sensing, 2018, 10, 1473.	1.8	61
333	Thermal Face Authentication with Convolutional Neural Network. Journal of Computer Science, 2018, 14, 1627-1637.	0.5	6
334	Yarn-dyed Fabric Defect Detection with YOLOV2 Based on Deep Convolution Neural Networks. , 2018, , .		43
335	Brain Tumor Classification via Convolutional Neural Network and Extreme Learning Machines. , 2018, , .		120
336	Multicomponent analysis of T $<$ sub $>$ 1 $<$ /sub $>$ relaxation in bovine articular cartilage at low magnetic fields. Magnetic Resonance in Medicine, 2019, 81, 2858-2868.	1.9	7
337	Performance of convolutional neural networks for identification of bacteria in 3D microscopy datasets. PLoS Computational Biology, 2018, 14, e1006628.	1.5	52
338	Glioma Grading on Conventional MR Images: A Deep Learning Study With Transfer Learning. Frontiers in Neuroscience, 2018, 12, 804.	1.4	216
339	SUSAN: segment unannotated image structure using adversarial network. Magnetic Resonance in Medicine, 2019, 81, 3330-3345.	1.9	48
340	Medical Image Analysis using Convolutional Neural Networks: A Review. Journal of Medical Systems, 2018, 42, 226.	2.2	728
341	Multi-scale Residual Network with Two Channels of Raw CT Image and Its Differential Excitation Component for Emphysema Classification. Lecture Notes in Computer Science, 2018, , 38-46.	1.0	1
343	GAN-based synthetic medical image augmentation for increased CNN performance in liver lesion classification. Neurocomputing, 2018, 321, 321-331.	3.5	1,083
344	Comparison of medical image classification accuracy among three machine learning methods. Journal of X-Ray Science and Technology, 2018, 26, 885-893.	0.7	21
345	Segmentation of Pelvic Vessels in Pediatric MRI Using a Patch-Based Deep Learning Approach. Lecture Notes in Computer Science, 2018, , 97-106.	1.0	5

#	Article	IF	CITATIONS
346	Artificial intelligence using neural network architecture for radiology (AINNAR): classification of MR imaging sequences. Japanese Journal of Radiology, 2018, 36, 691-697.	1.0	24
347	Segmentation of breast anatomy for automated whole breast ultrasound images with boundary regularized convolutional encoder–decoder network. Neurocomputing, 2018, 321, 178-186.	3.5	55
348	Segmentation and clustering in brain MRI imaging. Reviews in the Neurosciences, 2018, 30, 31-44.	1.4	46
349	Cascaded classifiers and stacking methods for classification of pulmonary nodule characteristics. Computer Methods and Programs in Biomedicine, 2018, 166, 77-89.	2.6	23
350	Deep convolutional neural networks for diabetic retinopathy detection by image classification. Computers and Electrical Engineering, 2018, 72, 274-282.	3.0	317
351	Towards Clinical Diagnosis: Automated Stroke Lesion Segmentation on Multi-Spectral MR Image Using Convolutional Neural Network. IEEE Access, 2018, 6, 57006-57016.	2.6	52
352	Classification of Bone Tumor on CT Images Using Deep Convolutional Neural Network. Lecture Notes in Computer Science, 2018, , 127-136.	1.0	4
354	Medical Image Classification Based on Deep Features Extracted by Deep Model and Statistic Feature Fusion with Multilayer Perceptron⟨sup⟩‬⟨ sup⟩. Computational Intelligence and Neuroscience, 2018, 2018, 1-13.	1.1	116
355	Quantitative imaging of cancer in the postgenomic era: Radio(geno)mics, deep learning, and habitats. Cancer, 2018, 124, 4633-4649.	2.0	125
356	Deep echocardiography: data-efficient supervised and semi-supervised deep learning towards automated diagnosis of cardiac disease. Npj Digital Medicine, 2018, 1, 59.	5.7	150
357	A novel approach to emotion recognition using local subset feature selection and modified Dempster-Shafer theory. Behavioral and Brain Functions, 2018, 14, 17.	1.4	23
358	Evolutionary Deep Learning: A Genetic Programming Approach to Image Classification., 2018,,.		30
359	Automatic classification of cervical cancer from cytological images by using convolutional neural network. Bioscience Reports, 2018, 38, .	1.1	62
360	Convolutional Neural Networks-Based MRI Image Analysis for the Alzheimer's Disease Prediction From Mild Cognitive Impairment. Frontiers in Neuroscience, 2018, 12, 777.	1.4	253
361	Deep learning enables automated scoring of liver fibrosis stages. Scientific Reports, 2018, 8, 16016.	1.6	81
362	General and Species-Specific Lysine Acetylation Site Prediction Using a Bi-Modal Deep Architecture. IEEE Access, 2018, 6, 63560-63569.	2.6	6
363	Analysis for Self-taught and Transfer Learning Based Approaches for Emotion Recognition. , 2018, , .		5
364	Design of damage identification algorithm for mechanical structures based on convolutional neural network. Concurrency Computation Practice and Experience, 2018, 30, e4891.	1.4	8

#	Article	IF	CITATIONS
365	Contact Lens Detection using Transfer Learning with Deep Representations., 2018,,.		8
366	Muscle Type Classification on Ultrasound Imaging Using Deep Convolutional Neural Networks. , 2018, , .		2
367	Kid-Net: Convolution Networks for Kidney Vessels Segmentation from CT-Volumes. Lecture Notes in Computer Science, 2018, , 463-471.	1.0	27
368	Medical Image Synthesis for Data Augmentation and Anonymization Using Generative Adversarial Networks. Lecture Notes in Computer Science, 2018, , 1-11.	1.0	265
369	Utilizing AlexNet Deep Transfer Learning for Ear Recognition. , 2018, , .		67
370	On Safari with TensorFlow: Assisting Tourism in Rural Southern Africa Using Machine Learning. , 2018, , .		2
371	A Combined Fully Convolutional Networks and Deformable Model for Automatic Left Ventricle Segmentation Based on 3D Echocardiography. BioMed Research International, 2018, 2018, 1-16.	0.9	25
372	Handwritten Bangla Character Recognition Using the State-of-the-Art Deep Convolutional Neural Networks. Computational Intelligence and Neuroscience, 2018, 2018, 1-13.	1.1	67
373	3D Context Enhanced Region-Based Convolutional Neural Network for End-to-End Lesion Detection. Lecture Notes in Computer Science, 2018, , 511-519.	1.0	68
374	Dynamic Routing on Deep Neural Network for Thoracic Disease Classification and Sensitive Area Localization. Lecture Notes in Computer Science, 2018, , 389-397.	1.0	23
375	A pilot study using kernelled support tensor machine for distant failure prediction in lung SBRT. Medical Image Analysis, 2018, 50, 106-116.	7.0	22
376	Anonymous Gastritis Image Generation via Adversarial Learning from Gastric X-Ray Images. , 2018, , .		5
377	Automatic Detection of Early Esophageal Cancer with CNNS Using Transfer Learning. , 2018, , .		18
378	Deep Learning Neural Networks for sUAS-Assisted Structural Inspections: Feasibility and Application. , 2018, , .		33
379	Machine learning in human movement biomechanics: Best practices, common pitfalls, and new opportunities. Journal of Biomechanics, 2018, 81, 1-11.	0.9	266
380	Performance of the deep convolutional neural network based magnetic resonance image scoring algorithm for differentiating between tuberculous and pyogenic spondylitis. Scientific Reports, 2018, 8, 13124.	1.6	33
381	Defect Detection on Randomly Textured Surfaces by Convolutional Neural Networks., 2018,,.		20
382	A Transdisciplinary Review of Deep Learning Research and Its Relevance for Water Resources Scientists. Water Resources Research, 2018, 54, 8558-8593.	1.7	560

#	Article	IF	Citations
383	Optimize Transfer Learning for Lung Diseases in Bronchoscopy Using a New Concept: Sequential Fine-Tuning. IEEE Journal of Translational Engineering in Health and Medicine, 2018, 6, 1-8.	2.2	41
384	Classification of lung adenocarcinoma transcriptome subtypes from pathological images using deep convolutional networks. International Journal of Computer Assisted Radiology and Surgery, 2018, 13, 1905-1913.	1.7	13
385	Automatic Colon Polyp Detection Using Region Based Deep CNN and Post Learning Approaches. IEEE Access, 2018, 6, 40950-40962.	2.6	149
386	Neurologist Standard Classification of Facial Nerve Paralysis with Deep Neural Networks. Future Internet, 2018, 10, 111.	2.4	23
387	A Transfer Learning Approach for Diabetic Retinopathy Classification Using Deep Convolutional Neural Networks. , 2018, , .		6
388	Exploiting SIFT Descriptor for Rotation Invariant Convolutional Neural Network. , 2018, , .		3
389	Fine-Tuning of Pre-Trained Deep Learning Models with Extreme Learning Machine. , 2018, , .		18
390	Handwritten Signature Verification using TensorFlow. , 2018, , .		3
391	Feature learning with component selective encoding for histopathology image classification. , 2018, , .		18
392	Prediction of paravalvular leak post transcatheter aortic valve replacement using a convolutional neural network., 2018,,.		4
393	Susceptibility to misdiagnosis of adversarial images by deep learning based retinal image analysis algorithms. , 2018, , .		21
394	Lung mass density analysis using deep neural network and lung ultrasound surface wave elastography. Ultrasonics, 2018, 89, 173-177.	2.1	31
395	Survey on deep learning for radiotherapy. Computers in Biology and Medicine, 2018, 98, 126-146.	3.9	219
396	Artificial intelligence in radiology. Nature Reviews Cancer, 2018, 18, 500-510.	12.8	1,953
397	Machine Learning–Based Radiomics for Molecular Subtyping of Gliomas. Clinical Cancer Research, 2018, 24, 4429-4436.	3.2	222
398	A survey on automated melanoma detection. Engineering Applications of Artificial Intelligence, 2018, 73, 50-67.	4.3	68
399	Classification of Bacterial and Viral Childhood Pneumonia Using Deep Learning in Chest Radiography. , 2018, , .		53
400	Automatic anatomical classification of esophagogastroduodenoscopy images using deep convolutional neural networks. Scientific Reports, 2018, 8, 7497.	1.6	110

#	Article	IF	CITATIONS
401	Skin lesion segmentation in dermoscopy images via deep full resolution convolutional networks. Computer Methods and Programs in Biomedicine, 2018, 162, 221-231.	2.6	309
402	A deep learning approach to spine segmentation using a feed-forward chain of pixel-wise convolutional networks. , $2018, , .$		11
403	Hybrid hierarchical extreme learning machine. , 2018, , .		1
404	Automatic Semantic Segmentation of Brain Gliomas from MRI Images Using a Deep Cascaded Neural Network. Journal of Healthcare Engineering, 2018, 2018, 1-14.	1.1	130
405	Classification of Breast Cancer Histology Image using Ensemble of Pre-trained Neural Networks. Lecture Notes in Computer Science, 2018, , 804-811.	1.0	25
406	Classification of Breast Cancer Histology Images Using Transfer Learning. Lecture Notes in Computer Science, 2018, , 812-819.	1.0	78
407	Combining Convolutional Neural Network With Recursive Neural Network for Blood Cell Image Classification. IEEE Access, 2018, 6, 36188-36197.	2.6	198
408	Deep patch-based priors under a fully convolutional encoder-decoder architecture for interstitial lung disease segmentation. , 2018, , .		1
409	A novel intelligent modeling framework integrating convolutional neural network with an adaptive time-series window and its application to industrial process operational optimization. Chemometrics and Intelligent Laboratory Systems, 2018, 179, 64-72.	1.8	30
410	Data augmentation for improving deep learning in image classification problem. , 2018, , .		786
411	Convolutional Neural Network Ensemble Fine-Tuning for Extended Transfer Learning. Lecture Notes in Computer Science, 2018, , 110-123.	1.0	13
412	An analysis of rotation matrix and colour constancy data augmentation in classifying images of animals. Journal of Information and Telecommunication, 2018, 2, 465-491.	2.2	20
413	Automated Whole-Body Bone Lesion Detection for Multiple Myeloma on ⁶⁸ Ga-Pentixafor PET/CT Imaging Using Deep Learning Methods. Contrast Media and Molecular Imaging, 2018, 2018, 1-11.	0.4	93
414	Detection and diagnosis of dental caries using a deep learning-based convolutional neural network algorithm. Journal of Dentistry, 2018, 77, 106-111.	1.7	477
415	Deep Learning Approach for Evaluating Knee MR Images: Achieving High Diagnostic Performance for Cartilage Lesion Detection. Radiology, 2018, 289, 160-169.	3.6	193
416	Gastric Pathology Image Classification Using Stepwise Fine-Tuning for Deep Neural Networks. Journal of Healthcare Engineering, 2018, 2018, 1-13.	1.1	52
417	Deep Learning in Data-Driven Pavement Image Analysis and Automated Distress Detection: A Review. Data, 2018, 3, 28.	1.2	106
418	You Are Your Photographs. , 2018, , .		19

#	ARTICLE	IF	CITATIONS
419	Building medical image classifiers with very limited data using segmentation networks. Medical Image Analysis, 2018, 49, 105-116.	7.0	54
420	Managing Computer-Assisted Detection System Based on Transfer Learning with Negative Transfer Inhibition. , $2018, \ldots$		2
421	Forecasting Root-Zone Electrical Conductivity of Nutrient Solutions in Closed-Loop Soilless Cultures via a Recurrent Neural Network Using Environmental and Cultivation Information. Frontiers in Plant Science, 2018, 9, 859.	1.7	22
422	Lung Nodule Classification via Deep Transfer Learning in CT Lung Images. , 2018, , .		76
423	Computer-aided detection of small intestinal ulcer and erosion in wireless capsule endoscopy images. Physics in Medicine and Biology, 2018, 63, 165001.	1.6	120
424	Computer-aided diagnosis of lung nodule classification between benign nodule, primary lung cancer, and metastatic lung cancer at different image size using deep convolutional neural network with transfer learning. PLoS ONE, 2018, 13, e0200721.	1.1	120
425	Diagnosis and prediction of periodontally compromised teeth using a deep learning-based convolutional neural network algorithm. Journal of Periodontal and Implant Science, 2018, 48, 114.	0.9	269
426	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
427	Realâ€time detection of distracted driving based on deep learning. IET Intelligent Transport Systems, 2018, 12, 1210-1219.	1.7	95
428	Explaining Therapy Predictions with Layer-Wise Relevance Propagation in Neural Networks. , 2018, , .		36
429	Automated chest screening based on a hybrid model of transfer learning and convolutional sparse denoising autoencoder. BioMedical Engineering OnLine, 2018, 17, 63.	1.3	17
430	Deep Learning Renal Segmentation for Fully Automated Radiation Dose Estimation in Unsealed Source Therapy. Frontiers in Oncology, 2018, 8, 215.	1.3	85
431	Sparse feature learning for multi-class Parkinson's disease classification. Technology and Health Care, 2018, 26, 193-203.	0.5	20
432	Classifying Wheat Hyperspectral Pixels of Healthy Heads and Fusarium Head Blight Disease Using a Deep Neural Network in the Wild Field. Remote Sensing, 2018, 10, 395.	1.8	123
433	Vision-Based Defect Detection for Mobile Phone Cover Glass using Deep Neural Networks. International Journal of Precision Engineering and Manufacturing, 2018, 19, 801-810.	1.1	42
434	Transfer Learning Based Strategy for Improving Driver Distraction Recognition. Lecture Notes in Computer Science, 2018, , 443-452.	1.0	8
435	Preliminary Study of Chronic Liver Classification on Ultrasound Images Using an Ensemble Model. Ultrasonic Imaging, 2018, 40, 357-379.	1.4	38
436	Normal Brain Aging: Prediction of Age, Sex and White Matter Hyperintensities Using a MR Image-Based Machine Learning Technique. Lecture Notes in Computer Science, 2018, , 538-545.	1.0	3

#	Article	IF	CITATIONS
437	A deep learning pipeline to classify different stages of Alzheimer's disease from fMRI data. , 2018, , .		29
438	Identifying tumor in pancreatic neuroendocrine neoplasms from Ki67 images using transfer learning. PLoS ONE, 2018, 13, e0195621.	1.1	36
439	Transfer learning for the classification of sugar beet and volunteer potato under field conditions. Biosystems Engineering, 2018, 174, 50-65.	1.9	113
440	Integration of neural networks into smart sensor networks. , 2018, , .		4
441	Transfer learning for diagnosis of congenital abnormalities of the kidney and urinary tract in children based on ultrasound imaging data., 2018, 2018, 1487-1490.		22
442	DDA: A deep neural network-based cognitive system for IoT-aided dermatosis discrimination. Ad Hoc Networks, 2018, 80, 95-103.	3.4	13
443	Transfer Learning for Multicenter Classification of Chronic Obstructive Pulmonary Disease. IEEE Journal of Biomedical and Health Informatics, 2018, 22, 1486-1496.	3.9	57
444	Leukemia diagnosis in blood slides using transfer learning in CNNs and SVM for classification. Engineering Applications of Artificial Intelligence, 2018, 72, 415-422.	4.3	183
445	Improving resolution of <scp>MR</scp> images with an adversarial network incorporating images with different contrast. Medical Physics, 2018, 45, 3120-3131.	1.6	71
446	Dual-Path Adversarial Learning for Fully Convolutional Network (FCN)-Based Medical Image Segmentation. Visual Computer, 2018, 34, 1043-1052.	2.5	50
447	Deep CNNs for microscopic image classification by exploiting transfer learning and feature concatenation. , $2018, , .$		149
448	Residential scene classification for gridded population sampling in developing countries using deep convolutional neural networks on satellite imagery. International Journal of Health Geographics, 2018, 17, 12.	1.2	23
449	Knowledge transfer for surgical activity prediction. International Journal of Computer Assisted Radiology and Surgery, 2018, 13, 1409-1417.	1.7	7
450	The Use of Three-Dimensional Convolutional Neural Networks to Interpret LiDAR for Forest Inventory. Remote Sensing, 2018, 10, 649.	1.8	63
451	Transfer learning with deep convolutional neural network for liver steatosis assessment in ultrasound images. International Journal of Computer Assisted Radiology and Surgery, 2018, 13, 1895-1903.	1.7	173
452	Comparison of deep convolutional neural networks and edge detectors for image-based crack detection in concrete. Construction and Building Materials, 2018, 186, 1031-1045.	3.2	444
453	Automated deep-neural-network surveillance of cranial images for acute neurologic events. Nature Medicine, 2018, 24, 1337-1341.	15.2	308
454	NODULe: Combining constrained multi-scale LoG filters with densely dilated 3D deep convolutional neural network for pulmonary nodule detection. Neurocomputing, 2018, 317, 159-167.	3.5	46

#	Article	IF	CITATIONS
455	Deep learning with cinematic rendering: fine-tuning deep neural networks using photorealistic medical images. Physics in Medicine and Biology, 2018, 63, 185012.	1.6	34
456	A user-guided tool for semi-automated cerebral microbleed detection and volume segmentation: Evaluating vascular injury and data labelling for machine learning. NeuroImage: Clinical, 2018, 20, 498-505.	1.4	27
457	A Copycat Penalty: Micro Evidence From an Online Crowdsourcing Platform. SSRN Electronic Journal, 2018, , .	0.4	1
458	Cascaded atrous convolution and spatial pyramid pooling for more accurate tumor target segmentation for rectal cancer radiotherapy. Physics in Medicine and Biology, 2018, 63, 185016.	1.6	46
459	Semi-Supervised Learning-Based Live Fish Identification in Aquaculture Using Modified Deep Convolutional Generative Adversarial Networks. Transactions of the ASABE, 2018, 61, 699-710.	1.1	18
460	Application of Convolutional Neural Network in the Diagnosis of Jaw Tumors. Healthcare Informatics Research, 2018, 24, 236.	1.0	109
461	Engineering Vehicles Detection Based on Modified Faster R-CNN for Power Grid Surveillance. Sensors, 2018, 18, 2258.	2.1	35
462	Multi-scale segmentation using deep graph cuts: Robust lung tumor delineation in MVCBCT. , 2018, 2018, 514-518.		2
463	Automatic recognition of 3D GGO CT imaging signs through the fusion of hybrid resampling and layer-wise fine-tuning CNNs. Medical and Biological Engineering and Computing, 2018, 56, 2201-2212.	1.6	19
464	Unsupervised Reverse Domain Adaptation for Synthetic Medical Images via Adversarial Training. IEEE Transactions on Medical Imaging, 2018, 37, 2572-2581.	5.4	164
465	Discriminant analysis of neural style representations for breast lesion classification in ultrasound. Biocybernetics and Biomedical Engineering, 2018, 38, 684-690.	3.3	35
466	Fast and effective optic disk localization based on convolutional neural network. Neurocomputing, 2018, 312, 285-295.	3.5	18
467	Tuberculosis (TB) detection system using deep neural networks. Neural Computing and Applications, 2019, 31, 1533-1545.	3.2	53
468	Step-wise integration of deep class-specific learning for dermoscopic image segmentation. Pattern Recognition, 2019, 85, 78-89.	5.1	141
469	Transfer Learning From Convolutional Neural Networks for Computer-Aided Diagnosis: A Comparison of Digital Breast Tomosynthesis and Full-Field Digital Mammography. Academic Radiology, 2019, 26, 735-743.	1.3	70
470	Automated Analysis for Retinopathy of Prematurity by Deep Neural Networks. IEEE Transactions on Medical Imaging, 2019, 38, 269-279.	5.4	91
471	Lesion classification in mammograms using convolutional neural networks and transfer learning. Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization, 2019, 7, 550-556.	1.3	12
472	Beyond Homology Transfer: Deep Learning for Automated Annotation of Proteins. Journal of Grid Computing, 2019, 17, 225-237.	2.5	29

#	Article	IF	CITATIONS
473	Massive datasets and machine learning for computational biomedicine: trends and challenges. Annals of Operations Research, 2019, 276, 5-34.	2.6	26
474	Detecting intertrochanteric hip fractures with orthopedist-level accuracy using a deep convolutional neural network. Skeletal Radiology, 2019, 48, 239-244.	1.2	167
475	Combining Vector Space Features and Convolution Neural Network for Text Sentiment Analysis. Advances in Intelligent Systems and Computing, 2019, , 780-790.	0.5	2
476	Machine learning approach for homolog chromosome classification. International Journal of Imaging Systems and Technology, 2019, 29, 161-167.	2.7	18
477	Hierarchical Convolutional Neural Networks for Segmentation of Breast Tumors in MRI With Application to Radiogenomics. IEEE Transactions on Medical Imaging, 2019, 38, 435-447.	5.4	113
478	Automated detection of bird roosts using <scp>NEXRAD</scp> radar data and Convolutional Neural Networks. Remote Sensing in Ecology and Conservation, 2019, 5, 20-32.	2.2	33
479	Automated Layer Segmentation of Retinal Optical Coherence Tomography Images Using a Deep Feature Enhanced Structured Random Forests Classifier. IEEE Journal of Biomedical and Health Informatics, 2019, 23, 1404-1416.	3.9	44
480	Method for real-time automatic setting of ultrasonic image parameters based on deep learning. Multimedia Tools and Applications, 2019, 78, 1067-1080.	2.6	1
481	Deep learning Radiomics of shear wave elastography significantly improved diagnostic performance for assessing liver fibrosis in chronic hepatitis B: a prospective multicentre study. Gut, 2019, 68, 729-741.	6.1	325
482	Leveraging Domain-expert Knowledge, Boosting and Deep Learning for Identification of Rare and Complex States. Journal of Physics: Conference Series, 2019, 1207, 012016.	0.3	4
483	A Deep Transfer Convolutional Neural Network Framework for EEG Signal Classification. IEEE Access, 2019, 7, 112767-112776.	2.6	139
484	Application of deep learning (3-dimensional convolutional neural network) for the prediction of pathological invasiveness in lung adenocarcinoma. Medicine (United States), 2019, 98, e16119.	0.4	21
485	Cortical graph neural network for AD and MCI diagnosis and transfer learning across populations. NeuroImage: Clinical, 2019, 23, 101929.	1.4	75
486	Synthetic Gastritis Image Generation via Loss Function-Based Conditional PGGAN. IEEE Access, 2019, 7, 87448-87457.	2.6	17
487	Semi-supervised learning with convolutional neural networks for UAV images automatic recognition. Computers and Electronics in Agriculture, 2019, 164, 104932.	3.7	31
488	A Two-Stage Neural Network for Sleep Stage Classification Based on Feature Learning, Sequence Learning, and Data Augmentation. IEEE Access, 2019, 7, 109386-109397.	2.6	49
489	An investigation of CNN models for differentiating malignant from benign lesions using small pathologically proven datasets. Computerized Medical Imaging and Graphics, 2019, 77, 101645.	3.5	34
490	Improving Skin Lesion Segmentation via Stacked Adversarial Learning. , 2019, , .		16

#	Article	IF	CITATIONS
491	Early Diagnosis of Alzheimer's Disease Using Deep Learning. , 2019, , .		44
492	Image classification toward breast cancer using deeply-learned quality features. Journal of Visual Communication and Image Representation, 2019, 64, 102609.	1.7	21
493	Adaptive transfer learning in deep neural networks: Wind power prediction using knowledge transfer from region to region and between different task domains. Computational Intelligence, 2019, 35, 1088-1112.	2.1	19
494	Classification of ALS Point Clouds Using End-to-End Deep Learning. PFG - Journal of Photogrammetry, Remote Sensing and Geoinformation Science, 2019, 87, 75-90.	0.7	30
495	Challenges Facing the Detection of Colonic Polyps: What Can Deep Learning Do?. Medicina (Lithuania), 2019, 55, 473.	0.8	34
496	tCheXNet: Detecting Pneumothorax on Chest X-Ray Images Using Deep Transfer Learning. Lecture Notes in Computer Science, 2019, , 325-332.	1.0	12
497	Magnetic flux leakage image classification method for pipeline weld based on optimized convolution kernel. Neurocomputing, 2019, 365, 229-238.	3.5	26
498	Machine Learning on Mobile: An On-device Inference App for Skin Cancer Detection. , 2019, , .		63
499	Condition Evaluation for Opening Damper of Spring Operated High-Voltage Circuit Breaker Using Vibration Time-Frequency Image. IEEE Sensors Journal, 2019, 19, 8116-8126.	2.4	38
500	Robust Video Face Recognition From a Single Still Using a Synthetic Plus Variational Model. , 2019, , .		3
501	Two-Stage Transfer Learning for Heterogeneous Robot Detection and 3D Joint Position Estimation in a 2D Camera Image Using CNN., 2019, , .		6
502	Automatic glaucoma classification using color fundus images based on convolutional neural networks and transfer learning. Biomedical Optics Express, 2019, 10, 892.	1.5	149
503	Deep learning in drug discovery: opportunities, challenges and future prospects. Drug Discovery Today, 2019, 24, 2017-2032.	3.2	182
504	Cognitive Driven Multilayer Self-Paced Learning with Misclassified Samples. Complexity, 2019, 2019, 1-10.	0.9	0
505	Medinoid: Computer-Aided Diagnosis and Localization of Glaucoma Using Deep Learning â€. Applied Sciences (Switzerland), 2019, 9, 3064.	1.3	25
506	Threeâ€dimensional reconstruction of internal fascicles and microvascular structures of human peripheral nerves. International Journal for Numerical Methods in Biomedical Engineering, 2019, 35, e3245.	1.0	6
507	Image Fusion Through Deep Convolutional Neural Network. , 2019, , 37-52.		8
508	Multi-projection deep learning network for segmentation of 3D medical images. Pattern Recognition Letters, 2019, 125, 791-797.	2.6	26

#	ARTICLE	IF	CITATIONS
509	The Implementation of Pretrained AlexNet on PCG Classification. Lecture Notes in Computer Science, 2019, , 784-794.	1.0	27
510	Deep Neural Network Based Mobile Dermoscopy Application for Triaging Skin Cancer Detection. , 2019, ,		32
511	Ensemble Learners of Multiple Deep CNNs for Pulmonary Nodules Classification Using CT Images. IEEE Access, 2019, 7, 110358-110371.	2.6	63
512	Predicting lung nodule malignancies by combining deep convolutional neural network and handcrafted features. Physics in Medicine and Biology, 2019, 64, 175012.	1.6	51
513	Dense Attention Pyramid Networks for Multi-Scale Ship Detection in SAR Images. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 8983-8997.	2.7	303
514	A Novel Chiller Sensors Fault Diagnosis Method Based on Virtual Sensors. Sensors, 2019, 19, 3013.	2.1	13
515	CNN Models Performance Analysis on MRI images of OASIS dataset for distinction between Healthy and Alzheimer's patient. , 2019 , , .		15
516	What And How Other Datasets Can Be Leveraged For Medical Imaging Classification. , 2019, , .		3
517	Towards Fine Whole-Slide Skeletal Muscle Image Segmentation through Deep Hierarchically Connected Networks. Journal of Healthcare Engineering, 2019, 2019, 1-10.	1.1	1
518	Skin Lesion Segmentation in Dermoscopic Images with Combination of YOLO and GrabCut Algorithm. Diagnostics, 2019, 9, 72.	1.3	175
519	Quantifying deep grey matter atrophy using automated segmentation approaches: A systematic review of structural MRI studies. NeuroImage, 2019, 201, 116018.	2.1	20
520	Incorporating imaging information from deep neural network layers into image guided radiation therapy (IGRT). Radiotherapy and Oncology, 2019, 140, 167-174.	0.3	28
521	Detection of Cracks and damage in wind turbine blades using artificial intelligence-based image analytics. Measurement: Journal of the International Measurement Confederation, 2019, 147, 106823.	2.5	86
522	Short-term prediction of lane-level traffic speeds: A fusion deep learning model. Transportation Research Part C: Emerging Technologies, 2019, 106, 1-16.	3.9	120
523	Going Deep in Medical Image Analysis: Concepts, Methods, Challenges, and Future Directions. IEEE Access, 2019, 7, 99540-99572.	2.6	167
524	A systematic survey of computer-aided diagnosis in medicine: Past and present developments. Expert Systems With Applications, 2019, 138, 112821.	4.4	167
525	Power Quality Disturbance Classification Based on Compressed Sensing and Deep Convolution Neural Networks. IEEE Access, 2019, 7, 78336-78346.	2.6	52
526	Detection of Distal Radius Fractures Trained by a Small Set of X-Ray Images and Faster R-CNN. Advances in Intelligent Systems and Computing, 2019, , 971-981.	0.5	27

#	Article	IF	Citations
527	Deep Learning based Melanoma Detection from Dermoscopic Images., 2019,,.		3
528	Noninvasive Evaluation of the Pathologic Grade of Hepatocellular Carcinoma Using MCF-3DCNN: A Pilot Study. BioMed Research International, 2019, 2019, 1-12.	0.9	13
529	Transferable Object-Based Framework Based on Deep Convolutional Neural Networks for Building Extraction. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2019, 12, 2627-2635.	2.3	24
530	Feature Boosting in Natural Image Classification. , 2019, , .		2
531	Implementation Strategy of a CNN Model Affects the Performance of CT Assessment of EGFR Mutation Status in Lung Cancer Patients. IEEE Access, 2019, 7, 64583-64591.	2.6	15
532	Preliminary Clinical Study of the Differences Between Interobserver Evaluation and Deep Convolutional Neural Network-Based Segmentation of Multiple Organs at Risk in CT Images of Lung Cancer. Frontiers in Oncology, 2019, 9, 627.	1.3	10
533	Urinary Stone Detection on CT Images Using Deep Convolutional Neural Networks: Evaluation of Model Performance and Generalization. Radiology: Artificial Intelligence, 2019, 1, e180066.	3.0	46
534	Detecting Vascular Bifurcation in IVOCT Images Using Convolutional Neural Networks With Transfer Learning. IEEE Access, 2019, 7, 66167-66175.	2.6	13
535	Clothing Classification using the Convolutional Neural Network Inception Model., 2019,,.		4
536	Bayesian Optimized Deep Convolutional Network for Electrochemical Drilling Process. Journal of Manufacturing and Materials Processing, 2019, 3, 57.	1.0	4
537	Application of Deep Learning in Neuroradiology: Brain Haemorrhage Classification Using Transfer Learning. Computational Intelligence and Neuroscience, 2019, 2019, 1-12.	1.1	97
538	TOP-GAN: Stain-free cancer cell classification using deep learning with a small training set. Medical Image Analysis, 2019, 57, 176-185.	7.0	90
539	Deep learning in medical image analysis: A third eye for doctors. Journal of Stomatology, Oral and Maxillofacial Surgery, 2019, 120, 279-288.	0.5	152
540	Automatic Kidney Lesion Detection for CT Images Using Morphological Cascade Convolutional Neural Networks. IEEE Access, 2019, 7, 83001-83011.	2.6	25
541	Automated diagnosis of ear disease using ensemble deep learning with a big otoendoscopy image database. EBioMedicine, 2019, 45, 606-614.	2.7	97
542	The seven key challenges for the future of computer-aided diagnosis in medicine. International Journal of Medical Informatics, 2019, 129, 413-422.	1.6	39
543	On Evaluating CNN Representations for Low Resource Medical Image Classification. , 2019, , .		12
544	Artificial intelligence, machine (deep) learning and radio(geno)mics: definitions and nuclear medicine imaging applications. European Journal of Nuclear Medicine and Molecular Imaging, 2019, 46, 2630-2637.	3.3	91

#	Article	IF	CITATIONS
545	Deep Learning for Chest Radiology: A Review. Current Radiology Reports, 2019, 7, 1.	0.4	13
546	Creating and Optimizing Learning Maps by Negative and Positive Convolutional Neural Networks. Journal of Physics: Conference Series, 2019, 1302, 022051.	0.3	0
547	Deprivation pockets through the lens of convolutional neural networks. Remote Sensing of Environment, 2019, 234, 111448.	4.6	33
548	A memristor-based transient chaotic neural network model and its application. Journal of Applied Physics, 2019, 126, .	1.1	6
549	Vision-Based Crack Detection using Transfer Learning in Metal Forming Processes. , 2019, , .		5
550	Deep learning for environmental conservation. Current Biology, 2019, 29, R977-R982.	1.8	57
551	Graph embedding on biomedical networks: methods, applications and evaluations. Bioinformatics, 2020, 36, 1241-1251.	1.8	253
552	Densely Feature Fusion Based on Convolutional Neural Networks for Motor Imagery EEG Classification. IEEE Access, 2019, 7, 132720-132730.	2.6	47
553	Neural network-based approaches for biomedical relation classification: A review. Journal of Biomedical Informatics, 2019, 99, 103294.	2.5	71
554	Power-efficient ReRAM-aware CNN model generation. The Integration VLSI Journal, 2019, 69, 369-380.	1.3	2
555	EdgeScaping: Mapping the spatial distribution of pairwise gene expression intensities. PLoS ONE, 2019, 14, e0220279.	1.1	2
556	Machine Learning for High Throughput HRTEM Analysis. Microscopy and Microanalysis, 2019, 25, 150-151.	0.2	7
557	Dimension-reduction fine-tuning method for image classification of few samples. Journal of Physics: Conference Series, 2019, 1303, 012075.	0.3	0
558	Artificial intelligence and radiomics in nuclear medicine: potentials and challenges. European Journal of Nuclear Medicine and Molecular Imaging, 2019, 46, 2731-2736.	3.3	20
559	Artificial Intelligence in Lung Cancer Pathology Image Analysis. Cancers, 2019, 11, 1673.	1.7	152
560	Machine learning in materials science. InformaÄnÃ-Materiály, 2019, 1, 338-358.	8.5	427
561	Neutrosophic multiple deep convolutional neural network for skin dermoscopic image classification. , 2019, , 269-285.		5
562	Deep learning analysis of breast MRIs for prediction of occult invasive disease in ductal carcinoma in situ. Computers in Biology and Medicine, 2019, 115, 103498.	3.9	45

#	Article	IF	Citations
563	The Feasibility of Arrhythmias Detection from A Capacitive ECG Measurement Using Convolutional Neural Network., 2019, 2019, 3494-3497.		2
564	Automated Glaucoma Screening from Retinal Fundus Image Using Deep Learning. , 2019, 2019, 904-907.		27
565	Towards Deep Learning-Based Detection Scheme with Raw ECG Signal for Wearable Telehealth Systems. , 2019, , .		10
566	Multiple Feature Integration for Classification of Thoracic Disease in Chest Radiography. Applied Sciences (Switzerland), 2019, 9, 4130.	1.3	58
567	QoS Prediction for Neighbor Selection via Deep Transfer Collaborative Filtering in Video Streaming P2P Networks. International Journal of Digital Multimedia Broadcasting, 2019, 2019, 1-10.	0.4	6
568	A smart tele-cytology point-of-care platform for oral cancer screening. PLoS ONE, 2019, 14, e0224885.	1.1	42
569	Deep Learning Models for Content-Based Retrieval of Construction Visual Data., 2019,,.		2
570	Olive-Fruit Variety Classification by Means of Image Processing and Convolutional Neural Networks. IEEE Access, 2019, 7, 147629-147641.	2.6	51
571	Phase-domain Deep Patient-ECG Image Learning for Zero-effort Smart Health Security*., 2019, 2019, 2622-2628.		5
572	A Novel Combination Model of Convolutional Neural Network and Long Short-Term Memory Network for Upper Limb Evaluation Using Kinect-Based System. IEEE Access, 2019, 7, 145227-145234.	2.6	8
573	Plant Leaves Classification: A Few-Shot Learning Method Based on Siamese Network. IEEE Access, 2019, 7, 151754-151763.	2.6	59
574	Post-Disaster Building Database Updating Using Automated Deep Learning: An Integration of Pre-Disaster OpenStreetMap and Multi-Temporal Satellite Data. Remote Sensing, 2019, 11, 2427.	1.8	48
575	A Deep Siamese-Based Plantar Fasciitis Classification Method Using Shear Wave Elastography. IEEE Access, 2019, 7, 130999-131007.	2.6	8
576	Segmented and Non-Segmented Skin Lesions Classification Using Transfer Learning and Adaptive Moment Learning Rate Technique Using Pretrained Convolutional Neural Network. Journal of Biomimetics, Biomaterials and Biomedical Engineering, 0, 42, 67-78.	0.5	24
577	Segmentation of lung parenchyma in CT images using CNN trained with the clustering algorithm generated dataset. BioMedical Engineering OnLine, 2019, 18, 2.	1.3	73
578	Integration of dynamic contrast-enhanced magnetic resonance imaging and T2-weighted imaging radiomic features by a canonical correlation analysis-based feature fusion method to predict histological grade in ductal breast carcinoma. Physics in Medicine and Biology, 2019, 64, 215001.	1.6	18
579	Classification of liver tumors with CEUS based on 3D-CNN. , 2019, , .		17
580	Age and Sex Estimation Using Artificial Intelligence From Standard 12-Lead ECGs. Circulation: Arrhythmia and Electrophysiology, 2019, 12, e007284.	2.1	213

#	Article	IF	CITATIONS
581	An hybrid feature space from texture information and transfer learning for glaucoma classification. Journal of Visual Communication and Image Representation, 2019, 64, 102597.	1.7	33
582	Vulnerability Severity Prediction With Deep Neural Network. , 2019, , .		10
583	Recognition of peripheral blood cell images using convolutional neural networks. Computer Methods and Programs in Biomedicine, 2019, 180, 105020.	2.6	104
584	Lung Nodule: Imaging Features and Evaluation in the Age of Machine Learning. Current Pulmonology Reports, 2019, 8, 86-95.	0.5	0
585	Producing Radiologist-Quality Reports for Interpretable Deep Learning. , 2019, , .		24
586	Spoken Letter Recognition using Deep Convolutional Neural Networks on Sparse and Dissimilar Data. , 2019, , .		2
587	Surrogate Supervision for Medical Image Analysis: Effective Deep Learning From Limited Quantities of Labeled Data. , $2019, , .$		39
588	Plaque Recognition of Carotid Ultrasound Images Based on Deep Residual Network. , 2019, , .		9
589	A Case Study of the Augmentation and Evaluation of Training Data for Deep Learning. Journal of Data and Information Quality, 2019, 11, 1-22.	1.5	12
590	Novel Automatic Bank Check Recognition Based on Deep Learning. , 2019, , .		0
591	Selective Detection and Segmentation of Cervical Cells., 2019,,.		6
592	Deep learning for haptic feedback of flexible endoscopic robot without prior knowledge on sheath configuration. International Journal of Mechanical Sciences, 2019, 163, 105129.	3.6	32
593	Assessment of Deep Learning Using Nonimaging Information and Sequential Medical Records to Develop a Prediction Model for Nonmelanoma Skin Cancer. JAMA Dermatology, 2019, 155, 1277.	2.0	52
594	A Roadmap for Automatic Surgical Site Infection Detection and Evaluation Using User-Generated Incision Images. Surgical Infections, 2019, 20, 555-565.	0.7	17
595	Classification of alveolar bone density using 3-D deep convolutional neural network in the cone-beam CT images: A 6-month clinical study. Measurement: Journal of the International Measurement Confederation, 2019, 148, 106945.	2.5	13
596	Experimental Investigation of Neuron Based Motion Detection in Internet of Things using Optical Camera Communications. , 2019, , .		0
597	Measuring rock surface strength based on spectrograms with deep convolutional networks. Computers and Geosciences, 2019, 133, 104312.	2.0	16
599	Image quality classification algorithm based on InceptionV3 and SVM. MATEC Web of Conferences, 2019, 277, 02036.	0.1	4

#	Article	IF	CITATIONS
600	Convolutional Neural Networks for Spectroscopic Analysis in Retinal Oximetry. Scientific Reports, 2019, 9, 11387.	1.6	12
601	Stacked sparse autoencoder and case-based postprocessing method for nucleus detection. Neurocomputing, 2019, 359, 494-508.	3.5	10
602	An efficient ReRAM-based inference accelerator for convolutional neural networks via activation reuse. IEICE Electronics Express, 2019, 16, 20190396-20190396.	0.3	4
603	Artificial Intelligence in Radiotherapy Treatment Planning: Present and Future. Technology in Cancer Research and Treatment, 2019, 18, 153303381987392.	0.8	117
604	Towards pixel-to-pixel deep nucleus detection in microscopy images. BMC Bioinformatics, 2019, 20, 472.	1.2	16
605	Deep Learning and Convolutional Neural Networks for Medical Imaging and Clinical Informatics. Advances in Computer Vision and Pattern Recognition, 2019, , .	0.9	51
606	Learning Drug Functions from Chemical Structures with Convolutional Neural Networks and Random Forests. Journal of Chemical Information and Modeling, 2019, 59, 4438-4449.	2.5	61
607	Automatic Optical Surface Inspection of Wind Turbine Rotor Blades using Convolutional Neural Networks. Procedia CIRP, 2019, 81, 1166-1170.	1.0	18
608	Vision Based Computing Systems for Healthcare Applications. Journal of Healthcare Engineering, 2019, 2019, 1-2.	1.1	3
609	A deep supervised approach for ischemic lesion segmentation from multimodal MRI using Fully Convolutional Network. Applied Soft Computing Journal, 2019, 84, 105685.	4.1	49
610	Effectiveness of Transfer Learning and Fine Tuning in Automated Fruit Image Classification. , 2019, , .		28
611	Making use of available and emerging data to predict the hazards of engineered nanomaterials by means of in silico tools: A critical review. NanoImpact, 2019, 13, 76-99.	2.4	47
612	Automated analysis of cardiovascular magnetic resonance myocardial native T1 mapping images using fully convolutional neural networks. Journal of Cardiovascular Magnetic Resonance, 2019, 21, 7.	1.6	71
613	Signal Processing of Landing Radar Considering Irradiated Surface Characteristics by Using CNN. , 2019, , .		1
614	Artificial intelligence and machine learning for human reproduction and embryology presented at ASRM and ESHRE 2018. Journal of Assisted Reproduction and Genetics, 2019, 36, 591-600.	1.2	98
615	Multilevel Weighted Feature Fusion Using Convolutional Neural Networks for EEG Motor Imagery Classification. IEEE Access, 2019, 7, 18940-18950.	2.6	151
616	Water–fat separation and parameter mapping in cardiac MRI via deep learning with a convolutional neural network. Journal of Magnetic Resonance Imaging, 2019, 50, 655-665.	1.9	26
617	Analysis of transfer learning for deep neural network based plant classification models. Computers and Electronics in Agriculture, 2019, 158, 20-29.	3.7	276

#	Article	IF	Citations
618	Deep Learning in Medical Ultrasound Analysis: A Review. Engineering, 2019, 5, 261-275.	3.2	459
619	Initial Experiences with Artificial Neural Networks in the Detection of Computed Tomography Perfusion Deficits. World Neurosurgery, 2019, 124, e10-e16.	0.7	17
620	Overview of currency recognition using deep learning. Journal of Banking and Financial Technology, 2019, 3, 59-69.	2.6	20
621	Artificial Intelligence, Radiology, and the Way Forward. Canadian Association of Radiologists Journal, 2019, 70, 10-12.	1.1	28
622	Attention Residual Learning for Skin Lesion Classification. IEEE Transactions on Medical Imaging, 2019, 38, 2092-2103.	5.4	362
623	Thyroid Diagnosis from SPECT Images Using Convolutional Neural Network with Optimization. Computational Intelligence and Neuroscience, 2019, 2019, 1-11.	1.1	77
624	Cats or CAT scans: Transfer learning from natural or medical image source data sets?. Current Opinion in Biomedical Engineering, 2019, 9, 21-27.	1.8	35
625	Deep convolutional neural network for the diagnosis of thyroid nodules on ultrasound. Head and Neck, 2019, 41, 885-891.	0.9	75
626	Melanoma lesion detection and segmentation using deep region based convolutional neural network and fuzzy C-means clustering. International Journal of Medical Informatics, 2019, 124, 37-48.	1.6	136
627	Bees Detection on Images: Study of Different Color Models for Neural Networks. Lecture Notes in Computer Science, 2019, , 295-308.	1.0	3
628	Classification of Soymilk and Tofu with Diffuse Reflection Light Using a Deep Learning Technique. AgriEngineering, 2019, 1, 235-245.	1.7	4
629	Framework for the Development of Data-Driven Mamdani-Type Fuzzy Clinical Decision Support Systems. Diagnostics, 2019, 9, 52.	1.3	24
630	Hybrid resampling and multi-feature fusion for automatic recognition of cavity imaging sign in lung CT. Future Generation Computer Systems, 2019, 99, 558-570.	4.9	31
631	Optic Disc and Cup Segmentation Based on Deep Convolutional Generative Adversarial Networks. IEEE Access, 2019, 7, 64483-64493.	2.6	51
632	Deep Learning Ensemble for Hyperspectral Image Classification. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2019, 12, 1882-1897.	2.3	108
633	Deep Learning Approach for Assessment of Bladder Cancer Treatment Response. Tomography, 2019, 5, 201-208.	0.8	38
635	Fine-Grained Classification of Cervical Cells Using Morphological and Appearance Based Convolutional Neural Networks. IEEE Access, 2019, 7, 71541-71549.	2.6	74
636	Direct Cellularity Estimation on Breast Cancer Histopathology Images Using Transfer Learning. Computational and Mathematical Methods in Medicine, 2019, 2019, 1-13.	0.7	15

#	Article	IF	CITATIONS
637	Deep Convolutional Neural Network-Based Positron Emission Tomography Analysis Predicts Esophageal Cancer Outcome. Journal of Clinical Medicine, 2019, 8, 844.	1.0	22
638	The Latest Trends in the Use of Deep Learning in Radiology Illustrated Through the Stages of Deep Learning Algorithm Development. Journal of the Korean Society of Radiology, 2019, 80, 202.	0.1	9
639	Automatic identification of atherosclerosis subjects in a heterogeneous MR brain imaging data set. Magnetic Resonance Imaging, 2019, 62, 18-27.	1.0	10
640	Role of deep learning in infant brain MRI analysis. Magnetic Resonance Imaging, 2019, 64, 171-189.	1.0	48
641	A Transfer Learning Approach for Malignant Prostate Lesion Detection on Multiparametric MRI. Technology in Cancer Research and Treatment, 2019, 18, 153303381985836.	0.8	31
642	Deep CNN models for pulmonary nodule classification: Model modification, model integration, and transfer learning. Journal of X-Ray Science and Technology, 2019, 27, 615-629.	0.7	35
643	Determination of Forming Limits in Sheet Metal Forming Using Deep Learning. Materials, 2019, 12, 1051.	1.3	12
644	Enhanced Detection of Referable Diabetic Retinopathy via DCNNs and Transfer Learning. Lecture Notes in Computer Science, 2019, , 282-288.	1.0	2
645	Automated detection of third molars and mandibular nerve by deep learning. Scientific Reports, 2019, 9, 9007.	1.6	82
646	Fault Identification Ability of a Robust Deeply Integrated GNSS/INS System Assisted by Convolutional Neural Networks. Sensors, 2019, 19, 2734.	2.1	8
647	Identifying pneumonia in chest X-rays: A deep learning approach. Measurement: Journal of the International Measurement Confederation, 2019, 145, 511-518.	2.5	299
648	Deep transfer learning methods for colon cancer classification in confocal laser microscopy images. International Journal of Computer Assisted Radiology and Surgery, 2019, 14, 1837-1845.	1.7	24
649	Classification of benign and malignant lung nodules from CT images based on hybrid features. Physics in Medicine and Biology, 2019, 64, 125011.	1.6	42
650	Detection and Classification of Myocardial Delayed Enhancement Patterns on MR Images with Deep Neural Networks: A Feasibility Study. Radiology: Artificial Intelligence, 2019, 1, e180061.	3.0	8
651	Applications of deep learning for the analysis of medical data. Archives of Pharmacal Research, 2019, 42, 492-504.	2.7	64
652	Fostering the transfer of empirical engineering knowledge under technological paradigm shift: An experimental study in conceptual design. Advanced Engineering Informatics, 2019, 41, 100927.	4.0	20
653	Automated brain histology classification using machine learning. Journal of Clinical Neuroscience, 2019, 66, 239-245.	0.8	118
654	Deep Learning Techniques for Medical Image Segmentation: Achievements and Challenges. Journal of Digital Imaging, 2019, 32, 582-596.	1.6	972

#	Article	IF	CITATIONS
655	Accurate Gastric Cancer Segmentation in Digital Pathology Images Using Deformable Convolution and Multi-Scale Embedding Networks. IEEE Access, 2019, 7, 75530-75541.	2.6	41
656	Idiopathic Interstitial Pneumonias Medical Image Detection Using Deep Learning Techniques. , 2019, , .		1
657	Computer-aided diagnosis of endobronchial ultrasound images using convolutional neural network. Computer Methods and Programs in Biomedicine, 2019, 177, 175-182.	2.6	36
658	Common Knowledge Based and One-Shot Learning Enabled Multi-Task Traffic Classification. IEEE Access, 2019, 7, 39485-39495.	2.6	19
659	Invoice Classification Using Deep Features and Machine Learning Techniques. , 2019, , .		16
660	Fusing learned representations from Riesz Filters and Deep CNN for lung tissue classification. Medical Image Analysis, 2019, 56, 172-183.	7.0	14
661	A Video Gesture Processing Method Based on Convolution and Long Short-Term Memory Network. , 2019, , .		2
662	Convolutional sparse kernel network for unsupervised medical image analysis. Medical Image Analysis, 2019, 56, 140-151.	7.0	24
663	CNN Based Training and Classification of MRI Brain Images. , 2019, , .		18
664	Automatic Detection of Renal Abnormalities by Off-the-shelf CNN Features. IETE Journal of Education Online, 2019, 60, 14-23.	0.7	13
665	SegRoot: A high throughput segmentation method for root image analysis. Computers and Electronics in Agriculture, 2019, 162, 845-854.	3.7	64
666	Machine Learning to Instruct Single Crystal Growth by Flux Method*. Chinese Physics Letters, 2019, 36, 068101.	1.3	11
667	Classification of skin lesions using transfer learning and augmentation with Alex-net. PLoS ONE, 2019, 14, e0217293.	1.1	213
668	Improved Disease Classification in Chest X-Rays with Transferred Features from Report Generation. Lecture Notes in Computer Science, 2019, , 125-138.	1.0	18
669	Brain Tumor Segmentation on MRI with Missing Modalities. Lecture Notes in Computer Science, 2019, , 417-428.	1.0	30
670	Computer-aided diagnosis of cataract using deep transfer learning. Biomedical Signal Processing and Control, 2019, 53, 101533.	3.5	80
671	First-Stage Prostate Cancer Identification on Histopathological Images: Hand-Driven versus Automatic Learning. Entropy, 2019, 21, 356.	1.1	13
672	Brain tumor classification for MR images using transfer learning and fine-tuning. Computerized Medical Imaging and Graphics, 2019, 75, 34-46.	3.5	425

#	Article	IF	Citations
673	A unified two-parallel-branch deep neural network for joint gland contour and segmentation learning. Future Generation Computer Systems, 2019, 100, 316-324.	4.9	54
674	Morphology-assisted galaxy mass-to-light predictions using deep learning. Astronomy and Astrophysics, 2019, 624, A102.	2.1	7
675	Adaptive Augmentation of Medical Data Using Independently Conditional Variational Auto-Encoders. IEEE Transactions on Medical Imaging, 2019, 38, 2807-2820.	5.4	54
676	A defect classification methodology for sewer image sets with convolutional neural networks. Automation in Construction, 2019, 104, 281-298.	4.8	73
677	Machine learning and NDE: Past, present, and future. AIP Conference Proceedings, 2019, , .	0.3	31
678	Image Thresholding Improves 3-Dimensional Convolutional Neural Network Diagnosis of Different Acute Brain Hemorrhages on Computed Tomography Scans. Sensors, 2019, 19, 2167.	2.1	139
679	Palm-Leaf Manuscript Character Recognition and Classification Using Convolutional Neural Networks. Lecture Notes in Networks and Systems, 2019, , 397-404.	0.5	15
680	A survey of data fusion in smart city applications. Information Fusion, 2019, 52, 357-374.	11.7	199
681	Novel stochastic framework for automatic segmentation of human thigh MRI volumes and its applications in spinal cord injured individuals. PLoS ONE, 2019, 14, e0216487.	1.1	12
682	Assessment of Critical Feeding Tube Malpositions on Radiographs Using Deep Learning. Journal of Digital Imaging, 2019, 32, 651-655.	1.6	25
683	A deep learning framework for identifying children with ADHD using an EEG-based brain network. Neurocomputing, 2019, 356, 83-96.	3.5	116
684	Gender Recognition via Fused Silhouette Features Based on Visual Sensors. IEEE Sensors Journal, 2019, 19, 9496-9503.	2.4	12
685	A Combination of Transfer Learning and Deep Learning for Medicinal Plant Classification. , 2019, , .		20
686	Machine Learning for Medical Imaging. Journal of Healthcare Engineering, 2019, 2019, 1-2.	1.1	29
687	Incorporating dosimetric features into the prediction of 3D VMAT dose distributions using deep convolutional neural network. Physics in Medicine and Biology, 2019, 64, 125017.	1.6	35
688	Deep Learning for Multi-Class Identification From Domestic Violence Online Posts. IEEE Access, 2019, 7, 46210-46224.	2.6	47
689	Classification of Non-Tumorous Facial Pigmentation Disorders using Deep Learning and SMOTE. , 2019, , .		10
690	A novel method based on convolutional neural networks for deriving standard 12-lead ECG from serial 3-lead ECG. Frontiers of Information Technology and Electronic Engineering, 2019, 20, 405-413.	1.5	8

#	Article	IF	CITATIONS
691	An End-to-End Deep Neural Network for Autonomous Driving Designed for Embedded Automotive Platforms. Sensors, 2019, 19, 2064.	2.1	87
692	The Classification of Renal Cancer in 3-Phase CT Images Using a Deep Learning Method. Journal of Digital Imaging, 2019, 32, 638-643.	1.6	70
693	Synergistic approach to quantifying information on a crack-based network in loess/water material composites using deep learning and network science. Computational Materials Science, 2019, 166, 240-250.	1.4	11
694	Topological correction of infant white matter surfaces using anatomically constrained convolutional neural network. NeuroImage, 2019, 198, 114-124.	2.1	18
695	Multi-attention Network for Thoracic Disease Classification and Localization. , 2019, , .		14
696	Breast Cancer Detection Based on Merging Four Modes MRI Using Convolutional Neural Networks. , 2019, , .		10
697	Deep Learning Predicts Lung Cancer Treatment Response from Serial Medical Imaging. Clinical Cancer Research, 2019, 25, 3266-3275.	3.2	364
698	Deep learning for identifying radiogenomic associations in breast cancer. Computers in Biology and Medicine, 2019, 109, 85-90.	3.9	106
699	Testing the ability of unmanned aerial systems and machine learning to map weeds at subfield scales: a test with the weed <scp><i>Alopecurus myosuroides</i></scp> (Huds). Pest Management Science, 2019, 75, 2283-2294.	1.7	10
700	A Fault Diagnosis Approach for Rolling Bearing Based on Convolutional Neural Network and Nuisance Attribute Projection under Various Speed Conditions. Applied Sciences (Switzerland), 2019, 9, 1603.	1.3	14
701	Deep learning only by normal brain PET identify unheralded brain anomalies. EBioMedicine, 2019, 43, 447-453.	2.7	51
702	Efficient Deep Network Architectures for Fast Chest X-Ray Tuberculosis Screening and Visualization. Scientific Reports, 2019, 9, 6268.	1.6	232
703	Learn to segment single cells with deep distance estimator and deep cell detector. Computers in Biology and Medicine, 2019, 108, 133-141.	3.9	59
704	A Novel CNN-Based Framework for Classification of Signal Quality and Sleep Position from a Capacitive ECG Measurement. Sensors, 2019, 19, 1731.	2.1	24
705	Computer-Aided Diagnosis (CAD) of Pulmonary Nodule of Thoracic CT Image Using Transfer Learning. Journal of Digital Imaging, 2019, 32, 995-1007.	1.6	43
706	Influence of image quality on the identification of psyllids using convolutional neural networks. Biosystems Engineering, 2019, 182, 151-158.	1.9	22
707	Convolutional Neural Network based Image Classification and Detection of Abnormalities in MRI Brain Images. , 2019, , .		19
708	Deep feature descriptor based hierarchical dense matching for X-ray angiographic images. Computer Methods and Programs in Biomedicine, 2019, 175, 233-242.	2.6	5

#	Article	IF	Citations
709	A Survey on an Emerging Area: Deep Learning for Smart City Data. IEEE Transactions on Emerging Topics in Computational Intelligence, 2019, 3, 392-410.	3.4	97
710	Classification of Grain Discoloration via Transfer Learning and Convolutional Neural Networks. , 2019, , .		11
711	Real-time gastric polyp detection using convolutional neural networks. PLoS ONE, 2019, 14, e0214133.	1.1	86
712	Deep learning in remote sensing applications: A meta-analysis and review. ISPRS Journal of Photogrammetry and Remote Sensing, 2019, 152, 166-177.	4.9	1,243
713	Hyperspectral Classification Based on Lightweight 3-D-CNN With Transfer Learning. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 5813-5828.	2.7	152
714	Towards Automatic Extraction and Updating of VGI-Based Road Networks Using Deep Learning. Remote Sensing, 2019, 11, 1012.	1.8	18
715	A Novel Method for Classifying Liver and Brain Tumors Using Convolutional Neural Networks, Discrete Wavelet Transform and Long Short-Term Memory Networks. Sensors, 2019, 19, 1992.	2.1	65
716	Precise diagnosis of intracranial hemorrhage and subtypes using a three-dimensional joint convolutional and recurrent neural network. European Radiology, 2019, 29, 6191-6201.	2.3	165
717	High Efficiency Video Coding (HEVC)–Based Surgical Telementoring System Using Shallow Convolutional Neural Network. Journal of Digital Imaging, 2019, 32, 1027-1043.	1.6	14
718	Action recognition based on 2D skeletons extracted from RGB videos. MATEC Web of Conferences, 2019, 277, 02034.	0.1	14
719	Automatic localization of anatomical regions in medical ultrasound images of rheumatoid arthritis using deep learning. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2019, 233, 657-667.	1.0	38
720	An Artificial Neural Network Model to Predict the Thermal Properties of Concrete Using Different Neurons and Activation Functions. Advances in Materials Science and Engineering, 2019, 2019, 1-13.	1.0	37
721	High accuracy beam splitting using spatial light modulator combined with machine learning algorithms. Optics and Lasers in Engineering, 2019, 121, 227-235.	2.0	21
722	Spontaneous facial expression database for academic emotion inference in online learning. IET Computer Vision, 2019, 13, 329-337.	1.3	35
723	Multi-Branch Ensemble Learning Architecture Based on 3D CNN for False Positive Reduction in Lung Nodule Detection. IEEE Access, 2019, 7, 67380-67391.	2.6	34
724	Low-light image enhancement of high-speed endoscopic videos using a convolutional neural network. Medical and Biological Engineering and Computing, 2019, 57, 1451-1463.	1.6	44
725	Multi-Resolution CNN and Knowledge Transfer for Candidate Classification in Lung Nodule Detection. IEEE Access, 2019, 7, 32510-32521.	2.6	76
726	Using Deep Learning in Semantic Classification for Point Cloud Data. IEEE Access, 2019, 7, 37121-37130.	2.6	22

#	Article	IF	Citations
727	VisNet: Deep Convolutional Neural Networks for Forecasting Atmospheric Visibility. Sensors, 2019, 19, 1343.	2.1	49
728	Toward a largeâ€scale and deep phenological stage annotation of herbarium specimens: Case studies from temperate, tropical, and equatorial floras. Applications in Plant Sciences, 2019, 7, e01233.	0.8	48
729	Application of Convolutional Neural Networks for Automated Ulcer Detection in Wireless Capsule Endoscopy Images. Sensors, 2019, 19, 1265.	2.1	119
730	Skin Lesion Primary Morphology Classification With End-To-End Deep Learning Network. , 2019, , .		6
731	Imaging in the Mobile Domain. Rheumatic Disease Clinics of North America, 2019, 45, 291-302.	0.8	0
732	Automatic fabric defect detection using a deep convolutional neural network. Coloration Technology, 2019, 135, 213-223.	0.7	97
733	Data Provenance for Big Data Security and Accountability., 2019,, 568-573.		0
734	Surface Defects Detection Based on Adaptive Multiscale Image Collection and Convolutional Neural Networks. IEEE Transactions on Instrumentation and Measurement, 2019, 68, 4787-4797.	2.4	44
735	HUMAN INDUCED PLURIPOTENT STEM CELL REGION DETECTION IN BRIGHT-FIELD MICROSCOPY IMAGES USING CONVOLUTIONAL NEURAL NETWORKS. Biomedical Engineering - Applications, Basis and Communications, 2019, 31, 1950009.	0.3	7
736	Distinction between benign and malignant breast masses at breast ultrasound using deep learning method with convolutional neural network. Japanese Journal of Radiology, 2019, 37, 466-472.	1.0	121
737	Deep Convolutional Neural Networks for WCE Abnormality Detection: CNN Architecture, Region Proposal and Transfer Learning. IEEE Access, 2019, 7, 30017-30032.	2.6	34
738	BeautyNet: Joint Multiscale CNN and Transfer Learning Method for Unconstrained Facial Beauty Prediction. Computational Intelligence and Neuroscience, 2019, 2019, 1-14.	1.1	15
739	Comparative analysis of Alzheimer's disease classification by CDR level using CNN, feature selection, and machineâ€kearning techniques. International Journal of Imaging Systems and Technology, 2019, 29, 297-310.	2.7	41
740	Joint Prostate Cancer Detection and Gleason Score Prediction in mp-MRI via FocalNet. IEEE Transactions on Medical Imaging, 2019, 38, 2496-2506.	5.4	133
741	The Effect of CT Scan Parameters on the Measurement of CT Radiomic Features: A Lung Nodule Phantom Study. Computational and Mathematical Methods in Medicine, 2019, 2019, 1-12.	0.7	36
742	Quality and content analysis of fundus images using deep learning. Computers in Biology and Medicine, 2019, 108, 317-331.	3.9	34
743	Multi-scale gradual integration CNN for false positive reduction in pulmonary nodule detection. Neural Networks, 2019, 115, 1-10.	3.3	56
744	<scp>MR</scp> â€based treatment planning in radiation therapy using a deep learning approach. Journal of Applied Clinical Medical Physics, 2019, 20, 105-114.	0.8	47

#	Article	IF	CITATIONS
745	Decision Fusion-Based Fetal Ultrasound Image Plane Classification Using Convolutional Neural Networks. Ultrasound in Medicine and Biology, 2019, 45, 1259-1273.	0.7	38
746	Exploring Classification of Histological Disease Biomarkers From Renal Biopsy Images. , 2019, , .		6
747	Convolutional neural network for cell classification using microscope images of intracellular actin networks. PLoS ONE, 2019, 14, e0213626.	1.1	53
748	Blister Defect Detection Based on Convolutional Neural Network for Polymer Lithium-lon Battery. Applied Sciences (Switzerland), 2019, 9, 1085.	1.3	45
749	Deep Learning Applications to Cytopathology: A Study on the Detection of Malaria and on the Classification of Leukaemia Cell-Lines. Smart Innovation, Systems and Technologies, 2019, , 219-257.	0.5	5
750	Effective Diagnosis and Treatment through Content-Based Medical Image Retrieval (CBMIR) by Using Artificial Intelligence. Journal of Clinical Medicine, 2019, 8, 462.	1.0	71
751	Feasibility of Colon Cancer Detection in Confocal Laser Microscopy Images Using Convolution Neural Networks. Informatik Aktuell, 2019, , 327-332.	0.4	5
752	Automatic staging model of heart failure based on deep learning. Biomedical Signal Processing and Control, 2019, 52, 77-83.	3.5	32
753	Deep Learning to Speed up the Development of Structure–Property Relations For Hexagonal Boron Nitride and Graphene. Small, 2019, 15, 1900656.	5.2	10
7 54	Diagnosis of Autism Spectrum Disorders in Young Children Based on Resting-State Functional Magnetic Resonance Imaging Data Using Convolutional Neural Networks. Journal of Digital Imaging, 2019, 32, 899-918.	1.6	50
755	Image-based biomarkers for solid tumor quantification. European Radiology, 2019, 29, 5431-5440.	2.3	29
756	Structural crack detection using deep learning–based fully convolutional networks. Advances in Structural Engineering, 2019, 22, 3412-3419.	1.2	63
757	Multi-font Printed Amharic Character Image Recognition: Deep Learning Techniques. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2019, , 322-331.	0.2	2
758	Computational and Informatic Advances for Reproducible Data Analysis in Neuroimaging. Annual Review of Biomedical Data Science, 2019, 2, 119-138.	2.8	35
759	Lung HRCT pattern classification for cystic fibrosis using convolutional neural network. Signal, Image and Video Processing, 2019, 13, 1225-1232.	1.7	4
760	A deep learning framework for automatic detection of arbitrarily shaped fiducial markers in intrafraction fluoroscopic images. Medical Physics, 2019, 46, 2286-2297.	1.6	21
761	Temporal stability assessment in shear wave elasticity images validated by deep learning neural network for chronic liver disease fibrosis stage assessment. Medical Physics, 2019, 46, 2298-2309.	1.6	41
762	A Technical Review of Convolutional Neural Network-Based Mammographic Breast Cancer Diagnosis. Computational and Mathematical Methods in Medicine, 2019, 2019, 1-16.	0.7	7 5

#	Article	IF	Citations
763	Synergy of physics-based reasoning and machine learning in biomedical applications: towards unlimited deep learning with limited data. Advances in Physics: X, 2019, 4, 1582361.	1.5	10
764	Multi-branch convolutional neural network for multiple sclerosis lesion segmentation. Neurolmage, 2019, 196, 1-15.	2.1	111
765	Breast Microcalcification Diagnosis Using Deep Convolutional Neural Network from Digital Mammograms. Computational and Mathematical Methods in Medicine, 2019, 2019, 1-10.	0.7	86
766	Deep convolutional neural networks with multiplane consensus labeling for lung function quantification using UTE proton MRI. Journal of Magnetic Resonance Imaging, 2019, 50, 1169-1181.	1.9	22
767	Human motion data editing based on a convolutional automatic encoder and manifold learning. Entertainment Computing, 2019, 30, 100300.	1.8	1
768	A New Parameter Repurposing Method for Parameter Transfer With Small Dataset and Its Application in Fault Diagnosis of Rolling Element Bearings. IEEE Access, 2019, 7, 46917-46930.	2.6	52
769	MixNet: Multi-modality Mix Network for Brain Segmentation. Lecture Notes in Computer Science, 2019, , 367-377.	1.0	0
770	Machine Learning in Nuclear Medicine: Part 1—Introduction. Journal of Nuclear Medicine, 2019, 60, 451-458.	2.8	47
771	Bio-inspired Analysis of Deep Learning on Not-So-Big Data Using Data-Prototypes. Frontiers in Computational Neuroscience, 2018, 12, 100.	1.2	7
772	The Role of Al in Clinical Trials. , 2019, , 231-243.		5
773	Deep learning and SURF for automated classification and detection of calcaneus fractures in CT images. Computer Methods and Programs in Biomedicine, 2019, 171, 27-37.	2.6	91
774	Research on Feature Extraction of Tumor Image Based on Convolutional Neural Network. IEEE Access, 2019, 7, 24204-24213.	2.6	80
775	A novel scene classification model combining ResNet based transfer learning and data augmentation with a filter. Neurocomputing, 2019, 338, 191-206.	3.5	100
776	Surface defect classification of steels with a new semi-supervised learning method. Optics and Lasers in Engineering, 2019, 117, 40-48.	2.0	163
777	Bandgap prediction by deep learning in configurationally hybridized graphene and boron nitride. Npj Computational Materials, 2019, 5, .	3. 5	86
778	Late fusion of deep learning and handcrafted visual features for biomedical image modality classification. IET Image Processing, 2019, 13, 382-391.	1.4	17
779	A segmentation method combining probability map and boundary based on multiple fully convolutional networks and repetitive training. Physics in Medicine and Biology, 2019, 64, 185003.	1.6	1
780	Unsupervised abnormality detection through mixed structure regularization (MSR) in deep sparse autoencoders. Medical Physics, 2019, 46, 2223-2231.	1.6	14

#	ARTICLE	IF	CITATIONS
781	Radiological images and machine learning: Trends, perspectives, and prospects. Computers in Biology and Medicine, 2019, 108, 354-370.	3.9	109
782	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
783	Multi-Kernel Coupled Projections for Domain Adaptive Dictionary Learning. IEEE Transactions on Multimedia, 2019, 21, 2292-2304.	5.2	27
784	Artificial Intelligence in Cardiothoracic Radiology. American Journal of Roentgenology, 2019, 212, 997-1001.	1.0	12
785	Electricity Demand Prediction Using Fractal Dimension of Load Sequence., 2019,,.		0
786	Addressing the Conflict of Negative Feedback and Sampling for Online Ad Recommendation in Mobile Social Networks. , 2019, , .		0
787	Automatic Plaque Detection in IVOCT Pullbacks Using Convolutional Neural Networks. IEEE Transactions on Medical Imaging, 2019, 38, 426-434.	5 . 4	78
788	An Object Detection and Classification Method using Radar and Camera Data Fusion. , 2019, , .		3
789	Intelligent Perception of CNC Machine Tools Based on Human-Machine Collaboration., 2019,,.		1
790	Halcon-Based Solar Panel Crack Detection. , 2019, , .		3
791	An Edge Computing Visual System for Vegetable Categorization. , 2019, , .		7
792	Evaluation of Deep Learning for Semantic Image Segmentation in Tool Condition Monitoring. , 2019, , .		16
793	An Automatic Dental Decay Treatment Prediction using a Deep Convolutional Neural Network on X-Ray Images. , 2019, , .		15
794	Rolling Bearings Fault Diagnosis via 1D Convolution Networks. , 2019, , .		1
795	Classification of Power Swing using Wavelet and Convolution Neural Network., 2019,,.		0
796	Probable Region Identification and segmentation in Breast Cancer using the DL-CNN., 2019,,.		4
797	Accurate Stress Assessment based on functional Near Infrared Spectroscopy using Deep Learning Approach. , 2019, , .		4
798	Use transfer learning to promote identification ADHD children with EEG recordings. , 2019, , .		8

#	Article	IF	CITATIONS
799	Epileptic Seizure Prediction from EEG Signals Using DenseNet., 2019,,.		7
800	Computer Aid-System to Identify the First Stage of Prostate Cancer Through Deep-Learning Techniques. , 2019, , .		2
801	Convolutional Neural Networks to Classify Oil, Water and Gas Wells Fluid Using Acoustic Signals. , 2019, , .		4
802	Design of Bank Server Fault Diagnosis System Based on Machine Vision. , 2019, , .		O
803	Identification of Crop Consuming Insect Pest from Visual Imagery Using Transfer Learning and Data Augmentation on Deep Neural Network. , 2019, , .		12
804	How to Improve CNN-Based 6-DoF Camera Pose Estimation. , 2019, , .		7
805	Random Sampling Deep Learning Mechanism for Discovering Unique Property of No Specific Local Feature Images., 2019,,.		0
806	RNN-Based Alzheimer's Disease Prediction from Prodromal Stage using Diffusion Tensor Imaging. , 2019, , .		9
807	Salient Object Detection via Quaternionic Local Ranking Binary Pattern and High-Level Priors. , 2019, , .		0
808	Modeling Adaptive Learning Agents for Domain Knowledge Transfer. , 2019, , .		O
809	Autonomous Traffic Sign (ATSR) Detection and Recognition using Deep CNN. Procedia Computer Science, 2019, 163, 266-274.	1.2	49
810	Automated Brain Image Classification Based on VGG-16 and Transfer Learning. , 2019, , .		81
811	SnapCode - A Snapshot Based Approach to Code Stylometry. , 2019, , .		2
812	Area Optimized CNN Architecture Using Folding Approach. , 2019, , .		1
813	Hierarchical Transfer Convolutional Neural Networks for Image Classification. , 2019, , .		3
814	Visual Subterranean Junction Recognition for MAVs based on Convolutional Neural Networks. , 2019, ,		10
815	Generating adversarial examples for DNN using pooling layers. Journal of Intelligent and Fuzzy Systems, 2019, 37, 4615-4620.	0.8	2
816	Convolutional Neural Network For Predicting The Spread of Cancer. , 2019, , .		3

#	Article	IF	Citations
817	Align, Attend and Locate: Chest X-Ray Diagnosis via Contrast Induced Attention Network With Limited Supervision. , 2019, , .		49
818	Fast estimation of permeability in sandstones by 3D convolutional neural networks. , 2019, , .		5
819	Differentiating Atopic Dermatitis and Psoriasis Chronic Plaque using Convolutional Neural Network MobileNet Architecture. , 2019, , .		28
820	An Auto Region of Interest Segmentation Method for Cardiac CT Images Based on the Contradiction Labeling Method., 2019,,.		0
821	Brain Tumor Detection and Segmentation from Magnetic Resonance Image Data Using Ensemble Learning Methods. , 2019, , .		8
822	Holistic and Comprehensive Annotation of Clinically Significant Findings on Diverse CT Images: Learning From Radiology Reports and Label Ontology. , 2019, , .		33
823	Data-Efficient Classification of Birdcall through Convolutional Neural Networks Transfer Learning. , 2019, , .		10
824	Artificial intelligence in radiology. Rad Hrvatske Akademije Znanosti I Umjetnosti Medicinske Znanosti, 2019, 537, 55-59.	0.1	3
825	An Initial Framework for Mobile Healthcare Systems using Deep Neural Networks. , 2019, , .		0
826	Exploring Transfer Learning to Reduce Training Overhead of HPC Data in Machine Learning. , 2019, , .		4
827	Medical Data Augmentation Using Generative Adversarial Networks: X-ray Image Generation for Transfer Learning of Hip Fracture Detection. , 2019, , .		1
828	Deep learning approach to control of prosthetic hands with electromyography signals. , 2019, , .		27
829	Deep transfer learning for rolling bearing fault diagnosis under variable operating conditions. Advances in Mechanical Engineering, 2019, 11, 168781401989721.	0.8	32
830	Classification of Abnormality in Chest X-Ray Images by Transfer Learning of CheXNet., 2019, , .		3
831	A General Data Renewal Model for Prediction Algorithms in Industrial Data Analytics. , 2019, , .		0
832	Automatic Recognition of Fish Diseases in Fish Farms. , 2019, , .		14
833	3D Convolutional Networks Based Automatic Diagnosis of Alzheimer's Disease Using Structural MRI. , 2019, , .		2
834	Proposition of Convolutional Neural Network Based System for Skin Cancer Detection., 2019,,.		5

#	Article	IF	Citations
835	Cinnamomum Camphora Classification Based on Leaf Image Using Transfer Learning. , 2019, , .		0
836	Performance Analysis of Pre-trained Deep Learning Networks for Brain Tumor Categorization. , 2019, , .		4
837	Automated speech-based screening of depression using deep convolutional neural networks. Procedia Computer Science, 2019, 164, 618-628.	1.2	28
838	Scene Categorization From Contours: Medial Axis Based Salience Measures. , 2019, , .		13
839	Time series prediction method based on Convolutional Autoencoder and LSTM. , 2019, , .		15
840	Using Deep Convolutional Neural Network for Mouse Brain Segmentation in DT-MRI. , 2019, , .		2
841	Deep learning based Customized Model for Features Extraction. , 2019, , .		7
842	Learning-Based Calibration Decision System for Bio-Inertial Motion Application., 2019,,.		4
843	Classification of Binary Fracture Using CNN. , 2019, , .		4
844	An Approach for Analysis and Prediction of CKD using Deep Learning Architecture. , 2019, , .		7
845	Identifying Laguerre-Gaussian Modes using Convolutional Neural Network., 2019,,.		3
846	Feature Selection and Rule Generation Integrated Learning for Takagi-Sugeno-Kang Fuzzy System and its Application in Medical Data Classification. IEEE Access, 2019, 7, 169029-169037.	2.6	9
847	Automated Grading of Diabetic Retinopathy in Retinal Fundus Images using Deep Learning., 2019,,.		7
848	Deep Learning from Small Dataset for BI-RADS Density Classification of Mammography Images. , 2019, , .		15
849	Optimized Scheduling for Urban-Scale Mobile Charging Vehicle. , 2019, , .		8
850	Breast Ultrasound Image Classification Using a Pre-Trained Convolutional Neural Network. , 2019, , .		13
851	Comparison of Pre-Trained vs Domain-Specific Convolutional Neural Networks for Classification of Interstitial Lung Disease. , 2019, , .		3
852	Abnormality Detection in the Renal Ultrasound Images using Ensemble MSVM Model. , 2019, , .		3

#	Article	IF	CITATIONS
853	Efficient Priors for Scalable Variational Inference in Bayesian Deep Neural Networks., 2019,,.		5
854	Using Convolutional Neural Network with BERT for Intent Determination. , 2019, , .		15
855	Understanding Deep Convolutional Networks for Biomedical Imaging: A Practical Tutorial. , 2019, 2019, 857-863.		2
856	PPGnet: Deep Network for Device Independent Heart Rate Estimation from Photoplethysmogram. , 2019, 2019, 1899-1902.		17
857	Exploring Pain Insensitivity Inducing Gene ZFHX2 by using Deep Convolutional Neural Network. , 2019, , .		0
858	Tournament Based Ranking CNN for the Cataract grading. , 2019, 2019, 1630-1636.		9
859	An Application of Convolutional Neural Networks for the Early Detection of Late-onset Neonatal Sepsis. , 2019, , .		5
860	Transfer Learning Using Ensemble Neural Networks for Organic Solar Cell Screening. , 2019, , .		11
861	Classification of Human Bones Using Deep Convolutional Neural Network. IOP Conference Series: Materials Science and Engineering, 2019, 594, 012024.	0.3	7
862	An Improved Skeleton Extraction Method via Multi-Task and Variable Coefficient Loss Function in Natural Images. IEEE Access, 2019, 7, 171272-171284.	2.6	3
863	An Early Diagnosis of Oral Cancer based on Three-Dimensional Convolutional Neural Networks. IEEE Access, 2019, 7, 158603-158611.	2.6	39
864	Reconfigurable Pavement Sweeping Robot and Pedestrian Cohabitant Framework by Vision Techniques. IEEE Access, 2019, 7, 159402-159414.	2.6	31
865	Estimating Regions of Deterioration in Electron Microscope Images of Rubber Materials via a Transfer Learning-Based Anomaly Detection Model. IEEE Access, 2019, 7, 162395-162404.	2.6	4
866	Genetic Algorithm Based Deep Learning Model Selection for Visual Data Classification. , 2019, , .		7
867	Challenges and Recent Solutions for Image Segmentation in the Era of Deep Learning. , 2019, , .		45
868	High voltage outdoor insulator surface condition evaluation using aerial insulator images. High Voltage, 2019, 4, 178-185.	2.7	31
869	Deep learning-based auto-segmentation of targets and organs-at-risk for magnetic resonance imaging only planning of prostate radiotherapy. Physics and Imaging in Radiation Oncology, 2019, 12, 80-86.	1.2	82
870	Deep Learning in Musculoskeletal Imaging. Advances in Clinical Radiology, 2019, 1, 83-94.	0.1	9

#	ARTICLE	IF	CITATIONS
871	ConvPath: A software tool for lung adenocarcinoma digital pathological image analysis aided by a convolutional neural network. EBioMedicine, 2019, 50, 103-110.	2.7	66
872	Enhancing materials property prediction by leveraging computational and experimental data using deep transfer learning. Nature Communications, 2019, 10, 5316.	5.8	160
873	Deep learning accurately predicts white shark locomotor activity from depth data. Animal Biotelemetry, 2019, 7 , .	0.8	6
874	Sliding Window Mapping for Omnidirectional RGB-D Sensors. Sensors, 2019, 19, 5121.	2.1	2
875	Convolutional Neural Network Approach to Classify Skin Lesions Using Reflectance Confocal Microscopy., 2019, 2019, 4754-4757.		11
876	Edge-Assisted Vehicle Mobility Prediction to Support V2X Communications. IEEE Transactions on Vehicular Technology, 2019, 68, 10227-10238.	3.9	22
877	Facial Expression Recognition on partial facial sections. , 2019, , .		8
878	Power Distribution Insulators Classification Using Image Hybrid Deep Learning., 2019,,.		2
879	Establishment and application of an artificial intelligence diagnosis system for pancreatic cancer with a faster region-based convolutional neural network. Chinese Medical Journal, 2019, 132, 2795-2803.	0.9	56
880	Gait classification for Parkinson's Disease using Stacked 2D and 1D Convolutional Neural Network. , 2019, , .		8
881	Deep Learning Based Image Classification and Abnormalities Analysis of MRI Brain Images. , 2019, , .		6
882	Trade-off analysis using synthetic training data for neural networks in the automotive development process. , 2019, , .		1
883	Domain Selection of Transfer Learning in Fuzzy Prediction Models., 2019,,.		2
884	Recognition and Classification of Broiler Droppings Based on Deep Convolutional Neural Network. Journal of Sensors, 2019, 2019, 1-10.	0.6	25
885	High-Quality Cloud Masking of Landsat 8 Imagery Using Convolutional Neural Networks. Remote Sensing, 2019, 11, 2591.	1.8	28
886	Deep convolutional neural network based medical image classification for disease diagnosis. Journal of Big Data, 2019, 6, .	6.9	530
887	Deep learning for bridge load capacity estimation in post-disaster and -conflict zones. Royal Society Open Science, 2019, 6, 190227.	1.1	8
888	Application of Locally Connected Spiking Neural Network in Image Processing. , 2019, , .		1

#	Article	IF	CITATIONS
889	Liver tumor segmentation in CT volumes using an adversarial densely connected network. BMC Bioinformatics, 2019, 20, 587.	1.2	27
890	Patient-specific reconstruction of volumetric computed tomography images from a single projection view via deep learning. Nature Biomedical Engineering, 2019, 3, 880-888.	11.6	163
891	U-Net with optimal thresholding for small blob detection in medical images. , 2019, , .		12
892	Outcome Prediction in Postanoxic Coma With Deep Learning*. Critical Care Medicine, 2019, 47, 1424-1432.	0.4	46
893	Real-time Marine Animal Images Classification by Embedded System Based on Mobilenet and Transfer Learning. , 2019, , .		25
894	Development and evaluation of inexpensive automated deep learning-based imaging systems for embryology. Lab on A Chip, 2019, 19, 4139-4145.	3.1	31
895	Deep Learning Diagnosis of Pigmented Skin Lesions. , 2019, , .		8
896	Dynamic Sign Language Recognition Based on Convolutional Neural Networks and Texture Maps. , 2019, , .		9
897	Machine Learning Models for Diagnosing Glaucoma from Retinal Nerve Fiber Layer Thickness Maps. Ophthalmology Glaucoma, 2019, 2, 422-428.	0.9	28
898	L'intelligence artificielle au service de l'imagerie et de la santé des femmes. Imagerie De La Femme, 2019 29, 179-186.	90.o	1
899	The Subsurface Objects Classification using a Convolutional Neural Network. , 2019, , .		5
901	Deep Nearest Class Mean Model for Incremental Odor Classification. IEEE Transactions on Instrumentation and Measurement, 2019, 68, 952-962.	2.4	11
902	Deep features based on a DCNN model for classifying imbalanced weld flaw types. Measurement: Journal of the International Measurement Confederation, 2019, 131, 482-489.	2.5	84
903	Deep learning in radiology: An overview of the concepts and a survey of the state of the art with focus on MRI. Journal of Magnetic Resonance Imaging, 2019, 49, 939-954.	1.9	306
904	An overview of deep learning in medical imaging focusing on MRI. Zeitschrift Fur Medizinische Physik, 2019, 29, 102-127.	0.6	1,266
905	Radiogenomics for Precision Medicine With a Big Data Analytics Perspective. IEEE Journal of Biomedical and Health Informatics, 2019, 23, 2063-2079.	3.9	34
906	Automatic detection of erosions and ulcerations in wireless capsule endoscopy images based on a deep convolutional neural network. Gastrointestinal Endoscopy, 2019, 89, 357-363.e2.	0.5	217
907	A hybrid approach to building face shape classifier for hairstyle recommender system. Expert Systems With Applications, 2019, 120, 14-32.	4.4	28

#	Article	IF	CITATIONS
908	Deep convolutional extreme learning machines: Filters combination and error model validation. Neurocomputing, 2019, 329, 359-369.	3.5	29
909	A collaborative computer aided diagnosis (C-CAD) system with eye-tracking, sparse attentional model, and deep learning. Medical Image Analysis, 2019, 51, 101-115.	7.0	59
910	Comparison of the automatic segmentation of multiple organs at risk in CT images of lung cancer between deep convolutional neural network-based and atlas-based techniques. Acta Oncológica, 2019, 58, 257-264.	0.8	49
911	Integrating Active Learning and Transfer Learning for Carotid Intima-Media Thickness Video Interpretation. Journal of Digital Imaging, 2019, 32, 290-299.	1.6	20
912	DIOD: Fast, Semi-Supervised Deep ISAR Object Detection. IEEE Sensors Journal, 2019, 19, 1073-1081.	2.4	13
913	A novel surface roughness measurement method based on the red and green aliasing effect. Tribology International, 2019, 131, 579-590.	3.0	22
914	Enhanced Pointâ€of are Ultrasound Applications by Integrating Automated Featureâ€Learning Systems Using Deep Learning. Journal of Ultrasound in Medicine, 2019, 38, 1887-1897.	0.8	49
915	Experimental Evaluation of Coevolution in a Self-Assembling Particle. Biochemistry, 2019, 58, 1527-1538.	1.2	19
916	A Review of the Role of Augmented Intelligence in Breast Imaging: From Automated Breast Density Assessment to Risk Stratification. American Journal of Roentgenology, 2019, 212, 259-270.	1.0	31
917	Comparative effectiveness of convolutional neural network (CNN) and recurrent neural network (RNN) architectures for radiology text report classification. Artificial Intelligence in Medicine, 2019, 97, 79-88.	3.8	158
918	Forensic age estimation for pelvic X-ray images using deep learning. European Radiology, 2019, 29, 2322-2329.	2.3	51
919	Expert knowledge-infused deep learning for automatic lung nodule detection. Journal of X-Ray Science and Technology, 2019, 27, 17-35.	0.7	30
920	Machine learning methods for research highlight prediction in biomedical effects of nanomaterial application. Pattern Recognition Letters, 2019, 117, 111-118.	2.6	14
921	Semi-Supervised Learning With Deep Embedded Clustering for Image Classification and Segmentation. IEEE Access, 2019, 7, 11093-11104.	2.6	67
922	Laryngeal Pressure Estimation With a Recurrent Neural Network. IEEE Journal of Translational Engineering in Health and Medicine, 2019, 7, 1-11.	2.2	20
923	Transferring deep neural networks for the differentiation of mammographic breast lesions. Science China Technological Sciences, 2019, 62, 441-447.	2.0	35
924	Classification and Quantification of Emphysema Using a Multi-Scale Residual Network. IEEE Journal of Biomedical and Health Informatics, 2019, 23, 2526-2536.	3.9	21
925	Dictionaries of deep features for land-use scene classification of very high spatial resolution images. Pattern Recognition, 2019, 89, 32-44.	5.1	33

#	Article	IF	CITATIONS
926	Fast transfer Gaussian process regression with large-scale sources. Knowledge-Based Systems, 2019, 165, 208-218.	4.0	19
927	Lateral distance detection model based on convolutional neural network. IET Intelligent Transport Systems, 2019, 13, 31-39.	1.7	8
928	Content-Based Brain Tumor Retrieval for MR Images Using Transfer Learning. IEEE Access, 2019, 7, 17809-17822.	2.6	142
929	Improvement in Classification Performance Based on Target Vector Modification for All-Transfer Deep Learning. Applied Sciences (Switzerland), 2019, 9, 128.	1.3	11
930	Knowledge-based Collaborative Deep Learning for Benign-Malignant Lung Nodule Classification on Chest CT. IEEE Transactions on Medical Imaging, 2019, 38, 991-1004.	5.4	317
931	Deep neural network predicts emotional responses of the human brain from functional magnetic resonance imaging. Neurolmage, 2019, 186, 607-627.	2.1	25
932	High quality imaging from sparsely sampled computed tomography data with deep learning and wavelet transform in various domains. Medical Physics, 2019, 46, 104-115.	1.6	37
933	Melanoma Early Detection: Big Data, Bigger Picture. Journal of Investigative Dermatology, 2019, 139, 25-30.	0.3	37
934	Deep Learning Based Module Defect Analysis for Large-Scale Photovoltaic Farms. IEEE Transactions on Energy Conversion, 2019, 34, 520-529.	3.7	112
935	Artificial intelligence and deep learning in ophthalmology. British Journal of Ophthalmology, 2019, 103, 167-175.	2.1	754
936	Deep Learning Models Unveiled Functional Difference Between Cortical Gyri and Sulci. IEEE Transactions on Biomedical Engineering, 2019, 66, 1297-1308.	2.5	18
937	Deep learning in medical imaging and radiation therapy. Medical Physics, 2019, 46, e1-e36.	1.6	513
938	Interstitial lung disease classification using improved DenseNet. Multimedia Tools and Applications, 2019, 78, 30615-30626.	2.6	21
939	Automatic tumor segmentation in breast ultrasound images using a dilated fully convolutional network combined with an active contour model. Medical Physics, 2019, 46, 215-228.	1.6	118
940	Path R-CNN for Prostate Cancer Diagnosis and Gleason Grading of Histological Images. IEEE Transactions on Medical Imaging, 2019, 38, 945-954.	5.4	80
941	TL-GDBN: Growing Deep Belief Network With Transfer Learning. IEEE Transactions on Automation Science and Engineering, 2019, 16, 874-885.	3.4	100
942	Using Deep Learning and Transfer Learning to Accurately Diagnose Early-Onset Glaucoma From Macular Optical Coherence Tomography Images. American Journal of Ophthalmology, 2019, 198, 136-145.	1.7	164
943	Review of Deep Learning Techniques for Object Detection and Classification. Communications in Computer and Information Science, 2019, , 422-431.	0.4	5

#	Article	IF	CITATIONS
944	CBIR system using Capsule Networks and 3D CNN for Alzheimer's disease diagnosis. Informatics in Medicine Unlocked, 2019, 14, 59-68.	1.9	89
945	Extending 2-D Convolutional Neural Networks to 3-D for Advancing Deep Learning Cancer Classification With Application to MRI Liver Tumor Differentiation. IEEE Journal of Biomedical and Health Informatics, 2019, 23, 923-930.	3.9	94
946	A binocular image fusion approach for minimizing false positives in handgun detection with deep learning. Information Fusion, 2019, 49, 271-280.	11.7	27
947	Computer vision-based phenotyping for improvement of plant productivity: a machine learning perspective. GigaScience, 2019, 8, .	3.3	99
948	Detection of herpesvirus capsids in transmission electron microscopy images using transfer learning. Histochemistry and Cell Biology, 2019, 151, 101-114.	0.8	24
949	Scalable scene understanding via saliency consensus. Soft Computing, 2019, 23, 2429-2443.	2.1	6
950	Surrogate-Assisted Retinal OCT Image Classification Based on Convolutional Neural Networks. IEEE Journal of Biomedical and Health Informatics, 2019, 23, 253-263.	3.9	81
951	Hypothesis transfer learning based on structural model similarity. Neural Computing and Applications, 2019, 31, 3417-3430.	3.2	11
952	Semantic Segmentation of Pathological Lung Tissue With Dilated Fully Convolutional Networks. IEEE Journal of Biomedical and Health Informatics, 2019, 23, 714-722.	3.9	109
953	Lung nodule malignancy classification in chest computed tomography images using transfer learning and convolutional neural networks. Neural Computing and Applications, 2020, 32, 11065-11082.	3.2	59
954	DFUNet: Convolutional Neural Networks for Diabetic Foot Ulcer Classification. IEEE Transactions on Emerging Topics in Computational Intelligence, 2020, 4, 728-739.	3.4	133
955	Hierarchical Fully Convolutional Network for Joint Atrophy Localization and Alzheimer's Disease Diagnosis Using Structural MRI. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2020, 42, 880-893.	9.7	298
956	A novel deep learning-based multi-model ensemble method for the prediction of neuromuscular disorders. Neural Computing and Applications, 2020, 32, 11083-11095.	3.2	53
957	Automated Diagnosis of Pathological Brain Using Fast Curvelet Entropy Features. IEEE Transactions on Sustainable Computing, 2020, 5, 416-427.	2.2	16
958	Boosting Convolutional Neural Networks Performance Based on FPGA Accelerator. Advances in Intelligent Systems and Computing, 2020, , 509-517.	0.5	18
959	Evolving Deep Convolutional Neural Networks for Image Classification. IEEE Transactions on Evolutionary Computation, 2020, 24, 394-407.	7.5	409
960	Seasonal Crops Disease Prediction and Classification Using Deep Convolutional Encoder Network. Circuits, Systems, and Signal Processing, 2020, 39, 818-836.	1.2	111
961	A locally-constrained YOLO framework for detecting small and densely-distributed building footprints. International Journal of Geographical Information Science, 2020, 34, 777-801.	2.2	38

#	ARTICLE	IF	CITATIONS
962	A deep-level region-based visual representation architecture for detecting strawberry flowers in an outdoor field. Precision Agriculture, 2020, 21, 387-402.	3.1	21
963	Detection of breast cancer via deep convolution neural networks using MRI images. Multimedia Tools and Applications, 2020, 79, 15555-15573.	2.6	41
964	Forecasting Severity of Motorcycle Crashes Using Transfer Learning. Advances in Science, Technology and Innovation, 2020, , 141-157.	0.2	1
965	Deep learning to automate Brasfield chest radiographic scoring for cystic fibrosis. Journal of Cystic Fibrosis, 2020, 19, 131-138.	0.3	28
966	A transfer convolutional neural network for fault diagnosis based on ResNet-50. Neural Computing and Applications, 2020, 32, 6111-6124.	3.2	365
967	Identifying pulmonary nodules or masses on chest radiography using deep learning: external validation and strategies to improve clinical practice. Clinical Radiology, 2020, 75, 38-45.	0.5	53
968	A superpixel-driven deep learning approach for the analysis of dermatological wounds. Computer Methods and Programs in Biomedicine, 2020, 183, 105079.	2.6	27
969	IDRiD: Diabetic Retinopathy – Segmentation and Grading Challenge. Medical Image Analysis, 2020, 59, 101561.	7.0	162
970	Behavior fusion for deep reinforcement learning. ISA Transactions, 2020, 98, 434-444.	3.1	4
971	Performance of a Deep Neural Network Algorithm Based on a Small Medical Image Dataset: Incremental Impact of 3D-to-2D Reformation Combined with Novel Data Augmentation, Photometric Conversion, or Transfer Learning. Journal of Digital Imaging, 2020, 33, 431-438.	1.6	16
972	User-adaptive models for activity and emotion recognition using deep transfer learning and data augmentation. User Modeling and User-Adapted Interaction, 2020, 30, 365-393.	2.9	19
973	Texture branch network for chronic kidney disease screening based on ultrasound images. Frontiers of Information Technology and Electronic Engineering, 2020, 21, 1161-1170.	1.5	7
974	PAC-Bayesian framework based drop-path method for 2D discriminative convolutional network pruning. Multidimensional Systems and Signal Processing, 2020, 31, 793-827.	1.7	66
975	Convolutional neural network with batch normalization for glioma and stroke lesion detection using MRI. Cognitive Systems Research, 2020, 59, 304-311.	1.9	50
976	Knowledge-Based Analysis for Mortality Prediction From CT Images. IEEE Journal of Biomedical and Health Informatics, 2020, 24, 457-464.	3.9	23
977	DeepBranch: Deep Neural Networks for Branch Point Detection in Biomedical Images. IEEE Transactions on Medical Imaging, 2020, 39, 1195-1205.	5.4	30
978	Fetal Congenital Heart Disease Echocardiogram Screening Based on DGACNN: Adversarial One-Class Classification Combined with Video Transfer Learning. IEEE Transactions on Medical Imaging, 2020, 39, 1206-1222.	5.4	41
979	GoogLeNet-Based Ensemble FCNet Classifier for Focal Liver Lesion Diagnosis. IEEE Journal of Biomedical and Health Informatics, 2020, 24, 1686-1694.	3.9	55

#	Article	IF	CITATIONS
980	Boundary-Weighted Domain Adaptive Neural Network for Prostate MR Image Segmentation. IEEE Transactions on Medical Imaging, 2020, 39, 753-763.	5.4	135
981	Artificial intelligence using a convolutional neural network for automatic detection of smallâ€bowel angioectasia in capsule endoscopy images. Digestive Endoscopy, 2020, 32, 382-390.	1.3	114
982	Adversarial frontier stitching for remote neural network watermarking. Neural Computing and Applications, 2020, 32, 9233-9244.	3.2	132
983	A Review of Automated Methods for the Detection of Sickle Cell Disease. IEEE Reviews in Biomedical Engineering, 2020, 13, 309-324.	13.1	55
984	A Survey of Deep Learning Techniques for Medical Diagnosis. Advances in Intelligent Systems and Computing, 2020, , 161-170.	0.5	15
985	Skin Lesion Classification Using CNNs With Patch-Based Attention and Diagnosis-Guided Loss Weighting. IEEE Transactions on Biomedical Engineering, 2020, 67, 495-503.	2.5	98
986	Co-Learning Feature Fusion Maps From PET-CT Images of Lung Cancer. IEEE Transactions on Medical Imaging, 2020, 39, 204-217.	5.4	144
987	Deep-Learning Approach to Automatic Identification of Facial Anomalies in Endocrine Disorders. Neuroendocrinology, 2020, 110, 328-337.	1.2	21
988	DTW-CNN: time series-based human interaction prediction in videos using CNN-extracted features. Visual Computer, 2020, 36, 1127-1139.	2.5	14
989	Classification and Identification of Primitive Kharif Crops using Supervised Deep Convolutional Networks. Sustainable Computing: Informatics and Systems, 2020, 28, 100340.	1.6	17
990	Classification of CT Scan Images of Lungs Using Deep Convolutional Neural Network with External Shape-Based Features. Journal of Digital Imaging, 2020, 33, 252-261.	1.6	8
991	ldentifying Images with Ladders Using Deep CNN Transfer Learning. Smart Innovation, Systems and Technologies, 2020, , 143-153.	0.5	1
992	Residual convolutional neural network for predicting response of transarterial chemoembolization in hepatocellular carcinoma from CT imaging. European Radiology, 2020, 30, 413-424.	2.3	127
993	Computer-aided diagnosis (CAD) system based on multi-layer feature fusion network for skin lesion recognition in dermoscopy images. Multimedia Tools and Applications, 2020, 79, 20483-20518.	2.6	82
994	Transfer learning with pre-trained deep convolutional neural networks for serous cell classification. Multimedia Tools and Applications, 2020, 79, 15593-15611.	2.6	26
995	Annotated normal CT data of the abdomen for deep learning: Challenges and strategies for implementation. Diagnostic and Interventional Imaging, 2020, 101, 35-44.	1.8	44
996	A Fundamental Study Assessing the Diagnostic Performance of Deep Learning for a Brain Metastasis Detection Task. Magnetic Resonance in Medical Sciences, 2020, 19, 184-194.	1.1	8
997	Enhancement of Acoustic Microscopy Lateral Resolution: A Comparison Between Deep Learning and Two Deconvolution Methods. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2020, 67, 136-145.	1.7	8

#	Article	IF	CITATIONS
998	Classification of Volumetric Images Using Multi-Instance Learning and Extreme Value Theorem. IEEE Transactions on Medical Imaging, 2020, 39, 854-865.	5.4	13
999	Survey of deep learning in breast cancer image analysis. Evolving Systems, 2020, 11, 143-163.	2.4	106
1000	Semi-automatic classification of prostate cancer on multi-parametric MR imaging using a multi-channel 3D convolutional neural network. European Radiology, 2020, 30, 1243-1253.	2.3	85
1001	Deeply-Supervised Networks With Threshold Loss for Cancer Detection in Automated Breast Ultrasound. IEEE Transactions on Medical Imaging, 2020, 39, 866-876.	5.4	102
1002	Classification of Isolated Volcano-Seismic Events Based on Inductive Transfer Learning. IEEE Geoscience and Remote Sensing Letters, 2020, 17, 869-873.	1.4	30
1003	Mapping Rice Paddies in Complex Landscapes with Convolutional Neural Networks and Phenological Metrics. GIScience and Remote Sensing, 2020, 57, 37-48.	2.4	36
1004	Convolutional neural networks for object detection in aerial imagery for disaster response and recovery. Advanced Engineering Informatics, 2020, 43, 101009.	4.0	129
1005	Multi-resolution convolutional neural networks for fully automated segmentation of acutely injured lungs in multiple species. Medical Image Analysis, 2020, 60, 101592.	7. 0	55
1006	Model-Based and Data-Driven Strategies in Medical Image Computing. Proceedings of the IEEE, 2020, 108, 110-124.	16.4	30
1007	An improved residual network model for image recognition using a combination of snapshot ensembles and the cutout technique. Multimedia Tools and Applications, 2020, 79, 1475-1495.	2.6	10
1008	Hybrid fully convolutional networksâ€based skin lesion segmentation and melanoma detection using deep feature. International Journal of Imaging Systems and Technology, 2020, 30, 348-357.	2.7	42
1009	Epithelium segmentation and automated Gleason grading of prostate cancer via deep learning in labelâ€free multiphoton microscopic images. Journal of Biophotonics, 2020, 13, e201900203.	1.1	14
1010	A 3D Probabilistic Deep Learning System for Detection and Diagnosis of Lung Cancer Using Low-Dose CT Scans. IEEE Transactions on Medical Imaging, 2020, 39, 1419-1429.	5.4	130
1011	Automatic Diagnosis Based on Spatial Information Fusion Feature for Intracranial Aneurysm. IEEE Transactions on Medical Imaging, 2020, 39, 1448-1458.	5.4	33
1012	Diagnosis of cystic lesions using panoramic and cone beam computed tomographic images based on deep learning neural network. Oral Diseases, 2020, 26, 152-158.	1.5	127
1013	Deep learning modeling using normal mammograms for predicting breast cancer risk. Medical Physics, 2020, 47, 110-118.	1.6	71
1014	Machine learning in medical imaging. , 2020, , 167-196.		12
1015	Lymph node detection method based on multisource transfer learning and convolutional neural network. International Journal of Imaging Systems and Technology, 2020, 30, 298-310.	2.7	4

#	Article	IF	CITATIONS
1016	Knowledge Transfer for Rotary Machine Fault Diagnosis. IEEE Sensors Journal, 2020, 20, 8374-8393.	2.4	176
1017	Text mining and deep learning for disease classification. , 2020, , 109-135.		1
1018	Segmentation using adversarial image-to-image networks., 2020,, 165-182.		5
1019	Multimodal medical volumes translation and segmentation with generative adversarial network. , 2020, , 183-204.		3
1020	Radiomics., 2020,, 429-456.		22
1021	Cascaded deep convolutional encoder-decoder neural networks for efficient liver tumor segmentation. Medical Hypotheses, 2020, 134, 109431.	0.8	87
1022	Comparison of semi-automatic and deep learning-based automatic methods for liver segmentation in living liver transplant donors. Diagnostic and Interventional Radiology, 2020, 26, 11-21.	0.7	51
1023	An automatic computer vision pipeline for the in-line monitoring of freeze-drying processes. Computers in Industry, 2020, 115, 103184.	5.7	12
1024	Block change learning for knowledge distillation. Information Sciences, 2020, 513, 360-371.	4.0	8
1025	Waste classification using AutoEncoder network with integrated feature selection method in convolutional neural network models. Measurement: Journal of the International Measurement Confederation, 2020, 153, 107459.	2.5	67
1026	Communication-Efficient Federated Deep Learning With Layerwise Asynchronous Model Update and Temporally Weighted Aggregation. IEEE Transactions on Neural Networks and Learning Systems, 2020, 31, 4229-4238.	7.2	293
1027	DCâ€AL GAN: Pseudoprogression and true tumor progression of glioblastoma multiform image classification based on DCGAN and AlexNet. Medical Physics, 2020, 47, 1139-1150.	1.6	35
1028	Convolutional neural network in the detection of lung carcinoma using transfer learning approach. International Journal of Imaging Systems and Technology, 2020, 30, 445-454.	2.7	14
1029	Convolutional neural network: a review of models, methodologies and applications to object detection. Progress in Artificial Intelligence, 2020, 9, 85-112.	1.5	506
1030	Template Creation for High-Resolution Computed Tomography Scans of the Lung in R Software. Academic Radiology, 2020, 27, e204-e215.	1.3	5
1031	Deep Convolutional Neural Network-Based Automatic Classification of Neonatal Hip Ultrasound Images: A Novel Data Augmentation Approach with Speckle Noise Reduction. Ultrasound in Medicine and Biology, 2020, 46, 735-749.	0.7	26
1032	Transfer learning with deep neural networks for model predictive control of HVAC and natural ventilation in smart buildings. Journal of Cleaner Production, 2020, 254, 119866.	4.6	147
1033	Flood susceptibility mapping using convolutional neural network frameworks. Journal of Hydrology, 2020, 582, 124482.	2.3	182

#	Article	IF	CITATIONS
1034	Pressure injury image analysis with machine learning techniques: A systematic review on previous and possible future methods. Artificial Intelligence in Medicine, 2020, 102, 101742.	3.8	48
1035	Automatic fetal brain extraction from 2D in utero fetal MRI slices using deep neural network. Neurocomputing, 2020, 378, 335-349.	3.5	20
1036	Active deep neural network features selection for segmentation and recognition of brain tumors using MRI images. Pattern Recognition Letters, 2020, 129, 181-189.	2.6	199
1037	Biomedical image characterization and radiogenomics. , 2020, , 585-613.		1
1038	A Two-Stage Convolutional Neural Networks for Lung Nodule Detection. IEEE Journal of Biomedical and Health Informatics, 2020, 24, 1-1.	3.9	74
1039	GANPOP: Generative Adversarial Network Prediction of Optical Properties From Single Snapshot Wide-Field Images. IEEE Transactions on Medical Imaging, 2020, 39, 1988-1999.	5.4	25
1040	Atomic resolution convergent beam electron diffraction analysis using convolutional neural networks. Ultramicroscopy, 2020, 210, 112921.	0.8	26
1041	Experimental investigation of neural network estimator and transfer learning techniques for Kâ€edge spectral CT imaging. Medical Physics, 2020, 47, 541-551.	1.6	12
1043	Graph convolutional neural network for multi-scale feature learning. Computer Vision and Image Understanding, 2020, 194, 102881.	3.0	3
1044	Transfer Learning to Model Inertial Confinement Fusion Experiments. IEEE Transactions on Plasma Science, 2020, 48, 61-70.	0.6	50
1045	Research progress of computer aided diagnosis system for pulmonary nodules in CT images. Journal of X-Ray Science and Technology, 2020, 28, 1-16.	0.7	11
1046	Comparing convolutional neural networks and preprocessing techniques for HEp-2 cell classification in immunofluorescence images. Computers in Biology and Medicine, 2020, 116, 103542.	3.9	33
1047	A Novel Hybrid CNN-SVR for CRISPR/Cas9 Guide RNA Activity Prediction. Frontiers in Genetics, 2019, 10, 1303.	1.1	20
1048	Shape and margin-aware lung nodule classification in low-dose CT images via soft activation mapping. Medical Image Analysis, 2020, 60, 101628.	7.0	51
1049	Pulmonary Textures Classification via a Multi-Scale Attention Network. IEEE Journal of Biomedical and Health Informatics, 2020, 24, 2041-2052.	3.9	14
1050	Transfer learning for pavement performance prediction. International Journal of Pavement Research and Technology, 2020, 13, 154-167.	1.3	29
1051	Cross-task extreme learning machine for breast cancer image classification with deep convolutional features. Biomedical Signal Processing and Control, 2020, 57, 101789.	3.5	40
1052	Training a multilayer network with low-memory kernel-and-range projection. Journal of the Franklin Institute, 2020, 357, 522-550.	1.9	4

#	Article	IF	CITATIONS
1053	Safety control modeling method based on Bayesian network transfer learning for the thickening process of gold hydrometallurgy. Knowledge-Based Systems, 2020, 192, 105297.	4.0	7
1054	The impact of patient clinical information on automated skin cancer detection. Computers in Biology and Medicine, 2020, 116, 103545.	3.9	108
1055	Vision-based defects detection for bridges using transfer learning and convolutional neural networks. Structure and Infrastructure Engineering, 2020, 16, 1037-1049.	2.0	42
1056	Time-Frequency Domain Deep Convolutional Neural Network for the Classification of Focal and Non-Focal EEG Signals. IEEE Sensors Journal, 2020, 20, 3078-3086.	2.4	75
1057	Transferâ€learningâ€based Raman spectra identification. Journal of Raman Spectroscopy, 2020, 51, 176-186.	1.2	43
1058	Fuzzy Multiple-Source Transfer Learning. IEEE Transactions on Fuzzy Systems, 2020, 28, 3418-3431.	6.5	59
1059	Deep Learning for Lesion Detection, Progression, and Prediction of Musculoskeletal Disease. Journal of Magnetic Resonance Imaging, 2020, 52, 1607-1619.	1.9	55
1060	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
1061	Hidden representations in deep neural networks: Part 1. Classification problems. Computers and Chemical Engineering, 2020, 134, 106669.	2.0	17
1062	Fast implementation of real-time fruit detection in apple orchards using deep learning. Computers and Electronics in Agriculture, 2020, 168, 105108.	3.7	149
1063	Tool Wear Prediction via Multidimensional Stacked Sparse Autoencoders With Feature Fusion. IEEE Transactions on Industrial Informatics, 2020, 16, 5150-5159.	7.2	53
1064	Ternary-task convolutional bidirectional neural turing machine for assessment of EEG-based cognitive workload. Biomedical Signal Processing and Control, 2020, 57, 101745.	3 . 5	17
1065	A Deep Convolutional Neural Network With Performance Comparable to Radiologists for Differentiating Between Spinal Schwannoma and Meningioma. Spine, 2020, 45, 694-700.	1.0	32
1066	UNet++: Redesigning Skip Connections to Exploit Multiscale Features in Image Segmentation. IEEE Transactions on Medical Imaging, 2020, 39, 1856-1867.	5.4	1,697
1067	DPDnet: A robust people detector using deep learning with an overhead depth camera. Expert Systems With Applications, 2020, 146, 113168.	4.4	16
1068	Faster Region Convolutional Neural Networks Applied to Ultrasonic Images for Breast Lesion Detection and Classification. , 2020, , .		3
1069	Automatic Jamming Modulation Classification Exploiting Convolutional Neural Network for Cognitive Radar. Mathematical Problems in Engineering, 2020, 2020, 1-12.	0.6	3
1070	A Novel MEGNet for Classification of High-Frequency Oscillations in Magnetoencephalography of Epileptic Patients. Complexity, 2020, 2020, 1-9.	0.9	6

#	Article	IF	CITATIONS
1071	Deep Multi-scale Feature Fusion Convolutional Neural Network for Automatic Epilepsy Detection Using EEG Signals., 2020,,.		7
1072	Clinical Value of Information Entropy Compared with Deep Learning for Ultrasound Grading of Hepatic Steatosis. Entropy, 2020, 22, 1006.	1.1	18
1073	Rapid MR relaxometry using deep learning: An overview of current techniques and emerging trends. NMR in Biomedicine, 2022, 35, e4416.	1.6	29
1074	Intelligent diagnosis of gastric intestinal metaplasia based on convolutional neural network and limited number of endoscopic images. Computers in Biology and Medicine, 2020, 126, 104026.	3.9	31
1075	A weak supervision machine vision detection method based on artificial defect simulation. Knowledge-Based Systems, 2020, 208, 106466.	4.0	17
1076	Computer-aided recognition of myopic tilted optic disc using deep learning algorithms in fundus photography. BMC Ophthalmology, 2020, 20, 407.	0.6	16
1077	An ensemble of deep neural networks for kidney ultrasound image classification. Computer Methods and Programs in Biomedicine, 2020, 197, 105709.	2.6	54
1078	Learning hidden patterns from patient multivariate time series data using convolutional neural networks: A case study of healthcare cost prediction. Journal of Biomedical Informatics, 2020, 111, 103565.	2.5	20
1079	Integrating domain knowledge with deep learning models: An interpretable AI system for automatic work progress identification of NATM tunnels. Tunnelling and Underground Space Technology, 2020, 105, 103558.	3.0	19
1080	Neuronal Networks as a Way to introduce System Knowledge in Numerical Computations. , 2020, , .		0
1081	Deep learning quantification of percent steatosis in donor liver biopsy frozen sections. EBioMedicine, 2020, 60, 103029.	2.7	32
1082	Artificial Intelligence-Assisted Colonoscopy for Detection of Colon Polyps: a Prospective, Randomized Cohort Study. Journal of Gastrointestinal Surgery, 2021, 25, 2011-2018.	0.9	48
1083	Automatic diagnosis of multiple cardiac diseases from PCG signals using convolutional neural network. Computer Methods and Programs in Biomedicine, 2020, 197, 105750.	2.6	45
1084	Early Prediction of Cognitive Deficit in Very Preterm Infants Using Brain Structural Connectome With Transfer Learning Enhanced Deep Convolutional Neural Networks. Frontiers in Neuroscience, 2020, 14, 858.	1.4	13
1085	Automated detection of mild and multi-class diabetic eye diseases using deep learning. Health Information Science and Systems, 2020, 8, 32.	3.4	83
1086	Gastric histopathology image segmentation using a hierarchical conditional random field. Biocybernetics and Biomedical Engineering, 2020, 40, 1535-1555.	3.3	35
1087	Adaptive Deep Learning for High-Speed Railway Catenary Swivel Clevis Defects Detection. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 1299-1310.	4.7	9
1088	Review of the State of the Art of Deep Learning for Plant Diseases: A Broad Analysis and Discussion. Plants, 2020, 9, 1302.	1.6	97

#	Article	IF	CITATIONS
1089	A descriptive framework for the field of deep learning applications in medical images. Knowledge-Based Systems, 2020, 210, 106445.	4.0	23
1090	Al in the treatment of fertility: key considerations. Journal of Assisted Reproduction and Genetics, 2020, 37, 2817-2824.	1.2	25
1091	Deep transfer with minority data augmentation for imbalanced breast cancer dataset. Applied Soft Computing Journal, 2020, 97, 106759.	4.1	76
1092	Ensemble transfer CNNs driven by multi-channel signals for fault diagnosis of rotating machinery cross working conditions. Knowledge-Based Systems, 2020, 207, 106396.	4.0	173
1093	Silent Speech Decoding Using Spectrogram Features Based on Neuromuscular Activities. Brain Sciences, 2020, 10, 442.	1.1	24
1094	LC-DNN: Local Connection Based Deep Neural Network for Indoor Localization With CSI. IEEE Access, 2020, 8, 108720-108730.	2.6	24
1095	Application of neural networks for classifying softwood species using near infrared spectroscopy. Journal of Near Infrared Spectroscopy, 2020, 28, 298-307.	0.8	16
1096	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
1097	A Survey Paper on Object Detection Methods in Image Processing. , 2020, , .		10
1098	Automated diagnosis of bone metastasis based on multi-view bone scans using attention-augmented deep neural networks. Medical Image Analysis, 2020, 65, 101784.	7.0	43
1099	On the Factors That Determine Boundary Layer Albedo. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2019JD032244.	1.2	6
1100	An artificial intelligence model for the simulation of visual effects in patients with visual field defects. Annals of Translational Medicine, 2020, 8, 703-703.	0.7	1
1101	Deep Transfer Convolutional Neural Network and Extreme Learning Machine for lung nodule diagnosis on CT images. Knowledge-Based Systems, 2020, 204, 106230.	4.0	55
1102	BAGLS, a multihospital Benchmark for Automatic Glottis Segmentation. Scientific Data, 2020, 7, 186.	2.4	44
1103	Parallel CNN based big data visualization for traffic monitoring. Journal of Intelligent and Fuzzy Systems, 2020, 39, 2679-2691.	0.8	4
1104	Automatic Classification of Volumetric Optical Coherence Tomography Images via Recurrent Neural Network. Sensing and Imaging, 2020, 21, 1.	1.0	8
1105	Synthetic image augmentation with generative adversarial network for enhanced performance in protein classification. Biomedical Engineering Letters, 2020, 10, 443-452.	2.1	9
1106	Automatic Grading of Individual Knee Osteoarthritis Features in Plain Radiographs Using Deep Convolutional Neural Networks. Diagnostics, 2020, 10, 932.	1.3	60

#	Article	IF	Citations
1107	A Review on Application of Deep Learning Algorithms in External Beam Radiotherapy Automated Treatment Planning. Frontiers in Oncology, 2020, 10, 580919.	1.3	56
1108	Review of Deep Learning Approaches for the Segmentation of Multiple Sclerosis Lesions on Brain MRI. Frontiers in Neuroinformatics, 2020, 14, 610967.	1.3	51
1109	A two-stage deep CNN architecture for the classification of low-risk and high-risk hypertension classes using multi-lead ECG signals. Informatics in Medicine Unlocked, 2020, 21, 100479.	1.9	24
1110	Computer-aided diagnosis of pectus excavatum using CT images and deep learning methods. Scientific Reports, 2020, 10, 20294.	1.6	8
1111	Discriminating pseudoprogression and true progression in diffuse infiltrating glioma using multi-parametric MRI data through deep learning. Scientific Reports, 2020, 10, 20331.	1.6	36
1112	Predicting bovine tuberculosis status of dairy cows from mid-infrared spectral data of milk using deep learning. Journal of Dairy Science, 2020, 103, 9355-9367.	1.4	31
1113	Machine learning for landslides prevention: a survey. Neural Computing and Applications, 2021, 33, 10881-10907.	3.2	96
1114	Fully-Automated Packaging Structure Recognition in Logistics Environments. , 2020, , .		10
1115	Noise reduction using novel loss functions to compute tissue mineral density and trabecular bone volume fraction on low resolution QCT. Computerized Medical Imaging and Graphics, 2020, 86, 101816.	3.5	4
1116	Identifying cardiomegaly in chest X-rays: a cross-sectional study of evaluation and comparison between different transfer learning methods. Acta Radiologica, 2021, 62, 1601-1609.	0.5	10
1117	Classification of Watermelon Seeds Using Morphological Patterns of X-ray Imaging: A Comparison of Conventional Machine Learning and Deep Learning. Sensors, 2020, 20, 6753.	2.1	25
1118	Development of an Artificial Intelligence Model to Identify a Dental Implant from a Radiograph. International Journal of Oral and Maxillofacial Implants, 2020, 35, 1077-1082.	0.6	37
1119	Integrated imaging and molecular analysis to decipher tumor microenvironment in the era of immunotherapy. Seminars in Cancer Biology, 2022, 84, 310-328.	4.3	34
1120	Deep-Learning-Based Computer-Aided Systems for Breast Cancer Imaging: A Critical Review. Applied Sciences (Switzerland), 2020, 10, 8298.	1.3	44
1121	A Performance Comparison between Automated Deep Learning and Dental Professionals in Classification of Dental Implant Systems from Dental Imaging: A Multi-Center Study. Diagnostics, 2020, 10, 910.	1.3	51
1122	Using Convolutional Neural Network with Cheat Sheet and Data Augmentation to Detect Breast Cancer in Mammograms. Computational and Mathematical Methods in Medicine, 2020, 2020, 1-9.	0.7	17
1123	Artificial intelligence, radiomics and other horizons in body composition assessment. Quantitative Imaging in Medicine and Surgery, 2020, 10, 1650-1660.	1.1	23
1124	Machine Learning-Based Approach for Hardware Faults Prediction. IEEE Transactions on Circuits and Systems I: Regular Papers, 2020, 67, 3880-3892.	3.5	59

#	Article	IF	Citations
1125	Gastrointestinal tract classification using improved LSTM based CNN. Multimedia Tools and Applications, 2020, 79, 28825-28840.	2.6	40
1126	An intelligent platform for ultrasound diagnosis of thyroid nodules. Scientific Reports, 2020, 10, 13223.	1.6	14
1127	Deep feature extraction and classification of breast ultrasound images. Multimedia Tools and Applications, 2020, 79, 27257-27292.	2.6	35
1128	Tomato Leaf Disease Detection using Convolutional Neural Network with Data Augmentation. , 2020, , .		20
1129	Supervised Augmentation: Leverage Strong Annotation for Limited Data. , 2020, , .		1
1130	Computer-Aided Detection of Mediastinal Lymph Nodes using Simple Architectural Convolutional Neural Network. Journal of Physics: Conference Series, 2020, 1505, 012018.	0.3	4
1131	GaoFen-1 Remote Sensing Image Forest Extraction Using Object-based CNN. IOP Conference Series: Earth and Environmental Science, 2020, 502, 012039.	0.2	1
1132	A promising approach for screening pulmonary hypertension based on frontal chest radiographs using deep learning: A retrospective study. PLoS ONE, 2020, 15, e0236378.	1.1	21
1133	Introduction to Deep Learning for Engineers: Using Python and Google Cloud Platform. Synthesis Lectures on Mechanical Engineering, 2020, 5, 1-109.	0.1	2
1134	Developing intelligent medical image modality classification system using deep transfer learning and LDA. Scientific Reports, 2020, 10, 12868.	1.6	32
1135	Infantile Hemangioma Detection using Deep Learning. , 2020, , .		3
1136	Deep learning applications in pulmonary medical imaging: recent updates and insights on COVID-19. Machine Vision and Applications, 2020, 31, 53.	1.7	48
1137	The effect of deep convolutional neural networks on radiologists' performance in the detection of hip fractures on digital pelvic radiographs. European Journal of Radiology, 2020, 130, 109188.	1.2	20
1138	Multi-Segmentation Parallel CNN Model for Estimating Assembly Torque Using Surface Electromyography Signals. Sensors, 2020, 20, 4213.	2.1	6
1139	Automated recognition of white blood cells using deep learning. Biomedical Engineering Letters, 2020, 10, 359-367.	2.1	21
1140	Breast cancer detection from biopsy images using nucleus guided transfer learning and belief based fusion. Computers in Biology and Medicine, 2020, 124, 103954.	3.9	41
1141	Improving In-field Cassava Whitefly Pest Surveillance with Machine Learning. , 2020, , .		6
1142	A Transfer Learning Based Super-Resolution Microscopy for Biopsy Slice Images: The Joint Methods Perspective. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2020, 18, 1-1.	1.9	33

#	Article	IF	CITATIONS
1143	Speaker Counting Model based on Transfer Learning from SincNet Bottleneck Layer. , 2020, , .		4
1144	The Effect of Spectral Resolution Upon the Accuracy of Brain Tumor Segmentation from Multi-Spectral MRI Data., 2020,,.		2
1145	Faster R–CNN–based apple detection in dense-foliage fruiting-wall trees using RGB and depth features for robotic harvesting. Biosystems Engineering, 2020, 197, 245-256.	1.9	119
1146	How to Learn from Others: Transfer Machine Learning with Additive Regression Models to Improve Sales Forecasting. , 2020, , .		2
1147	R2D2: A scalable deep learning toolkit for medical imaging segmentation. Software - Practice and Experience, 2020, 50, 1966-1985.	2.5	3
1148	A bird's-eye view of deep learning in bioimage analysis. Computational and Structural Biotechnology Journal, 2020, 18, 2312-2325.	1.9	94
1149	A robust and interpretable end-to-end deep learning model for cytometry data. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 21373-21380.	3.3	40
1150	Deep learning neural network for texture feature extraction in oral cancer: enhanced loss function. Multimedia Tools and Applications, 2020, 79, 27867-27890.	2.6	23
1151	ML-DCNNet: Multi-level Deep Convolutional Neural Network for Facial Expression Recognition and Intensity Estimation. Arabian Journal for Science and Engineering, 2020, 45, 10605-10620.	1.7	19
1152	Identification of olive fruit, in intensive olive orchards, by means of its morphological structure using convolutional neural networks. Computers and Electronics in Agriculture, 2020, 176, 105616.	3.7	15
1153	Vision-Based Fault Diagnostics Using Explainable Deep Learning With Class Activation Maps. IEEE Access, 2020, 8, 129169-129179.	2.6	39
1154	Explainable Al Framework for Imaging-Based Predictive Maintenance for Automotive Applications and Beyond. Data-Enabled Discovery and Applications, 2020, 4, 1.	1.2	9
1155	Knowledge Transfer via Decomposing Essential Information in Convolutional Neural Networks. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 366-377.	7.2	2
1156	Proposed Requirements for Cardiovascular Imaging-Related Machine Learning Evaluation (PRIME): A Checklist. JACC: Cardiovascular Imaging, 2020, 13, 2017-2035.	2.3	123
1157	Lightweight Convolutional Neural Networks for Vehicle Target Recognition. , 2020, , .		1
1158	A Non-iterative Radial Basis Function Based Quick Convolutional Neural Network. , 2020, , .		6
1159	Tuberculosis Diagnostics and Localization in Chest X-Rays via Deep Learning Models. Frontiers in Artificial Intelligence, 2020, 3, 583427.	2.0	35
1160	Adaptive Level Set with region analysis via Mask R-CNN: A comparison against classical methods. , 2020, , .		1

#	Article	IF	CITATIONS
1161	Towards Real-time Process Monitoring and Machine Learning for Manufacturing Composite Structures. , 2020, , .		5
1162	Virtual Monoenergetic CT Imaging via Deep Learning. Patterns, 2020, 1, 100128.	3.1	26
1163	Automated classification of urinary stones based on microcomputed tomography images using convolutional neural network. Physica Medica, 2020, 78, 201-208.	0.4	21
1164	Reliable Tuberculosis Detection Using Chest X-Ray With Deep Learning, Segmentation and Visualization. IEEE Access, 2020, 8, 191586-191601.	2.6	243
1165	Transfer Learning Convolutional Neural Network for Sleep Stage Classification Using Two-Stage Data Fusion Framework. IEEE Access, 2020, 8, 180618-180632.	2.6	26
1166	Deep Learning for Multi-Class Antisocial Behavior Identification From Twitter. IEEE Access, 2020, 8, 194027-194044.	2.6	5
1167	Automated Pterygium Detection Using Deep Neural Network. IEEE Access, 2020, 8, 191659-191672.	2.6	18
1168	Oil Palm Detection via Deep Transfer Learning. , 2020, , .		15
1169	Glaucoma Detection From Raw Circumpapillary OCT Images Using Fully Convolutional Neural Networks., 2020,,.		6
1170	Unveiling COVID-19 from CHEST X-Ray with Deep Learning: A Hurdles Race with Small Data. International Journal of Environmental Research and Public Health, 2020, 17, 6933.	1.2	148
1171	Deep Convolutional Neural Networks for Thyroid Tumor Grading using Ultrasound B-mode Images. Journal of the Acoustical Society of America, 2020, 148, 1529-1535.	0.5	8
1172	Full 3D Microwave Breast Imaging Using a Deep-Learning Technique. Journal of Imaging, 2020, 6, 80.	1.7	36
1173	Influence of human activity on landslide susceptibility development in the Three Gorges area. Natural Hazards, 2020, 104, 2115-2151.	1.6	40
1174	Classification Of Dress Codes Using Convolution Neural Networks. , 2020, , .		2
1175	Bibliometric Analysis of the Application of Convolutional Neural Network in Computer Vision. IEEE Access, 2020, 8, 155417-155428.	2.6	7
1176	Deep Learning Based Systems Developed for Fall Detection: A Review. IEEE Access, 2020, 8, 166117-166137.	2.6	63
1177	Deep Learning in Object Detection: a Review., 2020,,.		39
1178	A Multiscale CNN-CRF Framework for Environmental Microorganism Image Segmentation. BioMed Research International, 2020, 2020, 1-27.	0.9	15

#	Article	IF	CITATIONS
1179	Learning to Recognize Thoracic Disease in Chest X-Rays With Knowledge-Guided Deep Zoom Neural Networks. IEEE Access, 2020, 8, 159790-159805.	2.6	14
1180	Classifying Pneumonia among Chest X-Rays Using Transfer Learning. , 2020, 2020, 2186-2189.		14
1181	Enhancing U-Net with Spatial-Channel Attention Gate for Abnormal Tissue Segmentation in Medical Imaging. Applied Sciences (Switzerland), 2020, 10, 5729.	1.3	57
1182	Current Progress and Perspective: Clinical Imaging of Islet Transplantation. Life, 2020, 10, 213.	1.1	4
1183	Lymph node metastasis prediction of papillary thyroid carcinoma based on transfer learning radiomics. Nature Communications, 2020, 11, 4807.	5.8	135
1184	Generation of High-resolution Lung Computed Tomography Images using Generative Adversarial Networks., 2020, 2020, 2400-2403.		2
1185	Material Decomposition Problem in Spectral CT: A Transfer Deep Learning Approach., 2020,,.		2
1186	Compensation of Measurement Errors for a Magnetoresistive Angular Sensor Array Using Artificial Neuronal Networks. IEEE Access, 2020, 8, 142956-142976.	2.6	5
1187	Semi-Supervised Breast Histological Image Classification by Node-Attention Graph Transfer Network. IEEE Access, 2020, 8, 158335-158345.	2.6	0
1188	A GMM Based Algorithm To Generate Point-Cloud And Its Application To Neuroimaging. , 2020, , .		6
1189	Testing Randomness Using Artificial Neural Network. IEEE Access, 2020, 8, 163685-163693.	2.6	11
1190	Applications of Deep Learning in Intelligent Transportation Systems. Journal of Big Data Analytics in Transportation, 2020, 2, 115-145.	1.4	60
1191	Recognition of Cutaneous Melanoma on Digitized Histopathological Slides via Artificial Intelligence Algorithm. Frontiers in Oncology, 2020, 10, 1559.	1.3	38
1192	Comprehensive Serum Glycopeptide Spectra Analysis Combined with Artificial Intelligence (CSGSA-AI) to Diagnose Early-Stage Ovarian Cancer. Cancers, 2020, 12, 2373.	1.7	12
1193	Integrated Modeling of Transfer Learning and Intelligent Heuristic Optimization for a Steam Cracking Process. Industrial & Description of the Process o	1.8	16
1194	JA-POLS: A Moving-Camera Background Model via Joint Alignment and Partially-Overlapping Local Subspaces. , 2020, , .		1
1195	A Review About RNA–Protein-Binding Sites Prediction Based on Deep Learning. IEEE Access, 2020, 8, 150929-150944.	2.6	9
1196	Continuous Learning AI in Radiology: Implementation Principles and Early Applications. Radiology, 2020, 297, 6-14.	3.6	92

#	Article	IF	Citations
1197	Investigation on the scattering characteristics and unsupervised clustering of 3D printed samples. International Journal of Microwave and Wireless Technologies, 2020, 12, 862-869.	1.5	0
1198	From leaf to label: A robust automated workflow for stomata detection. Ecology and Evolution, 2020, 10, 9178-9191.	0.8	22
1199	Pattern Recognition of Partial Discharge Based on VMD-CWD Spectrum and Optimized CNN With Cross-Layer Feature Fusion. IEEE Access, 2020, 8, 151296-151306.	2.6	22
1200	Effective Training of Deep Convolutional Neural Networks for Hyperspectral Image Classification through Artificial Labeling. Remote Sensing, 2020, 12, 2653.	1.8	15
1201	Transfer learning with deep convolutional neural network for automated detection of schizophrenia from EEG signals. Physical and Engineering Sciences in Medicine, 2020, 43, 1229-1239.	1.3	70
1202	DiscoStyle: Multi-level Logistic Ranking for Personalized Image Style Preference Inference. International Journal of Automation and Computing, 2020, 17, 637-651.	4.5	8
1203	Fast Adaptation of Thermal Dynamics Model for Predictive Control of HVAC and Natural Ventilation Using Transfer Learning with Deep Neural Networks. , 2020, , .		5
1204	A multi-task, multi-stage deep transfer learning model for early prediction of neurodevelopment in very preterm infants. Scientific Reports, 2020, 10, 15072.	1.6	26
1205	System for monitoring road slippery based on CCTV cameras and convolutional neural networks. Journal of Intelligent Information Systems, 2020, 55, 521-534.	2.8	12
1206	Deep learning-based, computer-aided classifier developed with dermoscopic images shows comparable performance to 164 dermatologists in cutaneous disease diagnosis in the Chinese population. Chinese Medical Journal, 2020, 133, 2027-2036.	0.9	14
1207	Double Feature Extraction Method for Wafer Map Classification Based on Convolution Neural Network., 2020,,.		5
1208	Shadow-based Hand Gesture Recognition in one Packet. , 2020, , .		1
1209	End-to-End Deep Learning Model for Cardiac Cycle Synchronization from Multi-View Angiographic Sequences., 2020, 2020, 1190-1193.		2
1210	Aero-engine Bearing Fault Diagnosis Based on Deep Neural Networks. , 2020, , .		2
1211	Decision Making and Risk Management in Biopharmaceutical Engineeringâ€"Opportunities in the Age of Covid-19 and Digitalization. Industrial & Decision Chemistry Research, 2020, 59, 17587-17592.	1.8	15
1212	<p>The Evolution of Diabetic Retinopathy Screening Programmes: A Chronology of Retinal Photography from 35 mm Slides to Artificial Intelligence</p> . Clinical Ophthalmology, 2020, Volume 14, 2021-2035.	0.9	25
1213	Efficient Hardware Implementations of Deep Neural Networks: A Survey. , 2020, , .		5
1214	Human Attribute Recognition— A Comprehensive Survey. Applied Sciences (Switzerland), 2020, 10, 5608.	1.3	10

#	Article	IF	CITATIONS
1215	Research about Tongue Image of Traditional Chinese Medicine(TCM) Based on Artificial Intelligence Technology. , 2020, , .		5
1216	Development of Computer Network Methodology for Physical Online Guiding Core Literacy Evaluation System., 2020,,.		0
1217	A State-of-the-Art Survey on Deep Learning Methods for Detection of Architectural Distortion From Digital Mammography. IEEE Access, 2020, 8, 148644-148676.	2.6	31
1218	What drives disease flows between locations?. Transactions in GIS, 2020, 24, 1740-1755.	1.0	1
1219	Real-Time Target Detection in Visual Sensing Environments Using Deep Transfer Learning and Improved Anchor Box Generation. IEEE Access, 2020, 8, 193512-193522.	2.6	6
1220	Image Enhancement for Tuberculosis Detection Using Deep Learning. IEEE Access, 2020, 8, 217897-217907.	2.6	70
1221	Misshapen Pelvis Landmark Detection With Local-Global Feature Learning for Diagnosing Developmental Dysplasia of the Hip. IEEE Transactions on Medical Imaging, 2020, 39, 3944-3954.	5.4	25
1222	Deep-Learning for Volcanic Seismic Events Classification. , 2020, , .		6
1223	Examining the Causal Structures of Deep Neural Networks Using Information Theory. Entropy, 2020, 22, 1429.	1.1	3
1224	Fault diagnosis of the bushing infrared images based on mask Râ€CNN and improved PCNN joint algorithm. High Voltage, 0, , .	2.7	4
1225	Fully automated carbonate petrography using deep convolutional neural networks. Marine and Petroleum Geology, 2020, 122, 104687.	1.5	44
1226	Research on Image Recognition of Machine Tool Based on Semantic Segmentation. Journal of Physics: Conference Series, 2020, 1646, 012147.	0.3	0
1227	Fruit Recognition Based on Convolution Neural Network. Journal of Physics: Conference Series, 2020, 1651, 012176.	0.3	1
1228	Remote Sensing Image Scene Classification along the High-speed Railway based on Convolutional Neural Network. Journal of Physics: Conference Series, 2020, 1684, 012112.	0.3	0
1229	Automatic Detection of Eye Cataract using Deep Convolution Neural Networks (DCNNs)., 2020,,.		25
1230	A Pointer Type Instrument Intelligent Reading System Design Based on Convolutional Neural Networks. Frontiers in Physics, 2020, 8, .	1.0	13
1232	StackNet-DenVIS: a multi-layer perceptron stacked ensembling approach for COVID-19 detection using X-ray images. Physical and Engineering Sciences in Medicine, 2020, 43, 1399-1414.	1.3	20
1233	Which Current and Novel Diagnostic Avenues for Bacterial Respiratory Diseases?. Frontiers in Microbiology, 2020, 11, 616971.	1.5	10

#	Article	IF	Citations
1234	Bucket of Deep Transfer Learning Features and Classification Models for Melanoma Detection. Journal of Imaging, 2020, 6, 129.	1.7	17
1235	Transfer Learning-Based Search Model for Hot Pepper Diseases and Pests. Agriculture (Switzerland), 2020, 10, 439.	1.4	25
1236	Clustering driving styles via image processing. Annals of Actuarial Science, 0, , 1-15.	1.0	7
1237	Digitally Reconstructed Radiograph Generation for Enabling AI/ML in Medical Imaging. , 2020, , .		1
1238	Convolutional Neural Networks for Automated PET/CT Detection of Diseased Lymph Node Burden in Patients with Lymphoma. Radiology: Artificial Intelligence, 2020, 2, e200016.	3.0	37
1239	Deep Transfer Learning for Vulnerable Road Users Detection using Smartphone Sensors Data. Remote Sensing, 2020, 12, 3508.	1.8	7
1240	Advances in neural networks and potential for their application to steel metallurgy. Materials Science and Technology, 2020, 36, 1805-1819.	0.8	15
1241	An Automatic Mass Screening System for Cervical Cancer Detection Based on Convolutional Neural Network. Mathematical Problems in Engineering, 2020, 2020, 1-14.	0.6	8
1242	Deep Learning-Enhanced Internet of Medical Things to Analyze Brain CT Scans of Hemorrhagic Stroke Patients: A New Approach. IEEE Sensors Journal, 2021, 21, 24941-24951.	2.4	24
1243	Power System Frequency Situation Prediction Method Based on Transfer Learning. , 2020, , .		5
1244	Visually Impaired Aid using Convolutional Neural Networks, Transfer Learning, and Particle Competition and Cooperation. , 2020, , .		4
1245	Transfer Learning Based Brain Tumor Detection and Segmentation using Superpixel Technique. , 2020, , .		27
1246	Towards a Domain-Specific Deep Learning Models for Medical Image Analysis. , 2020, , .		0
1247	Multi-view deep learning for rigid gas permeable lens base curve fitting based on Pentacam images. Medical and Biological Engineering and Computing, 2020, 58, 1467-1482.	1.6	6
1248	Classifying non-small cell lung cancer types and transcriptomic subtypes using convolutional neural networks. Journal of the American Medical Informatics Association: JAMIA, 2020, 27, 757-769.	2.2	69
1249	Introduction to machine and deep learning for medical physicists. Medical Physics, 2020, 47, e127-e147.	1.6	68
1250	Deep learning radiomics in breast cancer with different modalities: Overview and future. Expert Systems With Applications, 2020, 158, 113501.	4.4	44
1251	Automated classification of cells into multiple classes in epithelial tissue of oral squamous cell carcinoma using transfer learning and convolutional neural network. Neural Networks, 2020, 128, 47-60.	3.3	91

#	Article	IF	CITATIONS
1252	Local features and global shape information in object classification by deep convolutional neural networks. Vision Research, 2020, 172, 46-61.	0.7	54
1253	A Comparative Study of Deep Learning Models With Handcraft Features and Non-Handcraft Features for Automatic Plant Species Identification. International Journal of Agricultural and Environmental Information Systems, 2020, 11, 44-57.	1.8	15
1254	Transfer Learning Applied to Reinforcement Learning-Based HVAC Control. SN Computer Science, 2020, 1, 1.	2.3	16
1255	An adaptive pulmonary nodule detection algorithm. Journal of X-Ray Science and Technology, 2020, 28, 427-447.	0.7	0
1256	Lung nodules detection using semantic segmentation and classification with optimal features. Neural Computing and Applications, 2021, 33, 10737-10750.	3.2	55
1257	Internet of Medical Thingsâ€"Based on Deep Learning Techniques for Segmentation of Lung and Stroke Regions in CT Scans. IEEE Access, 2020, 8, 71117-71135.	2.6	35
1258	Al in Medical Imaging Informatics: Current Challenges and Future Directions. IEEE Journal of Biomedical and Health Informatics, 2020, 24, 1837-1857.	3.9	215
1259	Inpainting of Ring Artifacts on Microtomographic Images by 3D CNN. , 2020, , .		3
1260	Multiclass magnetic resonance imaging brain tumor classification using artificial intelligence paradigm. Computers in Biology and Medicine, 2020, 122, 103804.	3.9	134
1261	A disease category feature database construction method of brain image based on deep convolutional neural network. PLoS ONE, 2020, 15, e0232791.	1.1	2
1262	Synthetic Brain Image Generation for ADHD prediction based on Progressive Growing Generative Adversarial Network. International Symposium on Affective Science and Engineering, 2020, ISASE2020, 1-5.	0.1	2
1263	Bayesian optimized deep convolutional network for bearing diagnosis. International Journal of Advanced Manufacturing Technology, 2020, 108, 313-322.	1.5	6
1264	Object Segmentation with Deep Neural Nets Coupled with a Shape Prior, When Learning From a Training set of Limited Quality and Small Size. , 2020, , .		2
1265	Breast cancer pathological image classification based on deep learning. Journal of X-Ray Science and Technology, 2020, 28, 727-738.	0.7	20
1266	Extracting Possibly Representative COVID-19 Biomarkers from X-ray Images with Deep Learning Approach and Image Data Related to Pulmonary Diseases. Journal of Medical and Biological Engineering, 2020, 40, 462-469.	1.0	251
1267	Prediction of hypertension, hyperglycemia and dyslipidemia from retinal fundus photographs via deep learning: A cross-sectional study of chronic diseases in central China. PLoS ONE, 2020, 15, e0233166.	1.1	48
1268	Quality Prediction on Deep Generative Images. IEEE Transactions on Image Processing, 2020, 29, 5964-5979.	6.0	20
1269	Automatic classification of esophageal lesions in endoscopic images using a convolutional neural network. Annals of Translational Medicine, 2020, 8, 486-486.	0.7	42

#	Article	IF	CITATIONS
1270	Proposing a convolutional neural network for stress assessment by means of derived heart rate from functional near infrared spectroscopy. Computers in Biology and Medicine, 2020, 121, 103810.	3.9	19
1271	Utilization of deep convolutional and handcrafted features for object tracking. Optik, 2020, 218, 164926.	1.4	4
1272	Deep Regression via Multi-Channel Multi-Modal Learning for Pneumonia Screening. IEEE Access, 2020, 8, 78530-78541.	2.6	16
1273	Cross-Subject Seizure Detection in EEGs Using Deep Transfer Learning. Computational and Mathematical Methods in Medicine, 2020, 2020, 1-8.	0.7	39
1274	OtoMatch: Content-based eardrum image retrieval using deep learning. PLoS ONE, 2020, 15, e0232776.	1.1	28
1275	Data mining techniques for analyzing healthcare conditions of urban space-person lung using meta-heuristic optimized neural networks. Cluster Computing, 2020, 23, 1781-1794.	3.5	19
1276	Deep learning enabled multi-wavelength spatial coherence microscope for the classification of malaria-infected stages with limited labelled data size. Optics and Laser Technology, 2020, 130, 106335.	2.2	14
1277	Unsupervised Deep Learning CAD Scheme for the Detection of Malaria in Blood Smear Microscopic Images. IEEE Access, 2020, 8, 94936-94946.	2.6	41
1278	Breast Mass Tumor Classification using Deep Learning. , 2020, , .		18
1279	Using Transfer Learning and Class Activation Maps Supporting Detection and Localization of Femoral Fractures on Anteroposterior Radiographs. , 2020, , .		6
1280	Image Classification of Crop Diseases and Pests Based on Deep Learning and Fuzzy System. International Journal of Data Warehousing and Mining, 2020, 16, 34-47.	0.4	24
1281	A new intelligent pattern classifier based on structured sparse representation. Computers and Electrical Engineering, 2020, 84, 106641.	3.0	5
1282	Deep Transfer Learning Based Classification Model for COVID-19 Disease. Irbm, 2022, 43, 87-92.	3.7	294
1284	A review on segmentation of knee articular cartilage: from conventional methods towards deep learning. Artificial Intelligence in Medicine, 2020, 106, 101851.	3.8	45
1285	Impact of hybrid supervision approaches on the performance of artificial intelligence for the classification of chest radiographs. Computers in Biology and Medicine, 2020, 120, 103699.	3.9	5
1286	Evaluation of transfer learning techniques for classifying small surgical dataset. , 2020, , .		1
1287	Deep learning in interstitial lung disease—how long until daily practice. European Radiology, 2020, 30, 6285-6292.	2.3	37
1288	The Application of Deep and Transfer Learning for Identifying Cashmere and Wool Fibers. Journal of Natural Fibers, 2022, 19, 88-104.	1.7	12

#	Article	IF	CITATIONS
1289	Pretrained Convolutional Neural Networks for Cancer Genome Classification., 2020, , .		0
1290	Intelligent Fault-Prediction Assisted Self-Healing for Embryonic Hardware. IEEE Transactions on Biomedical Circuits and Systems, 2020, 14, 852-866.	2.7	28
1291	Non-grain oriented electrical steel photomicrograph classification using transfer learning. Journal of Materials Research and Technology, 2020, 9, 8580-8591.	2.6	7
1292	Integrative blockwise sparse analysis for tissue characterization and classification. Artificial Intelligence in Medicine, 2020, 107, 101885.	3.8	7
1293	Multi-Label classification of multi-modality skin lesion via hyper-connected convolutional neural network. Pattern Recognition, 2020, 107, 107502.	5.1	63
1294	Gender Recognition via Fused CNN of Separated GEI. , 2020, , .		1
1295	Convolutional Neural Network to Retrieve Water Depth in Marine Shallow Water Area From Remote Sensing Images. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2020, 13, 2888-2898.	2.3	32
1296	Generative Adversarial Networks and Its Applications in Biomedical Informatics. Frontiers in Public Health, 2020, 8, 164.	1.3	123
1297	A Deep Learning Approach Towards Railway Safety Risk Assessment. IEEE Access, 2020, 8, 102811-102832.	2.6	35
1298	A System-Driven Taxonomy of Attacks and Defenses in Adversarial Machine Learning. IEEE Transactions on Emerging Topics in Computational Intelligence, 2020, 4, 450-467.	3.4	44
1299	Wasserstein distance based deep multi-feature adversarial transfer diagnosis approach under variable working conditions. Journal of Instrumentation, 2020, 15, P06002-P06002.	0.5	9
1300	Artificial intelligence in radiotherapy. Reports of Practical Oncology and Radiotherapy, 2020, 25, 656-666.	0.3	64
1301	Artificial Intelligence Medical Ultrasound Equipment: Application of Breast Lesions Detection. Ultrasonic Imaging, 2020, 42, 191-202.	1.4	17
1302	Artificial Intelligence and Mechanistic Modeling for Clinical Decision Making in Oncology. Clinical Pharmacology and Therapeutics, 2020, 108, 471-486.	2.3	50
1303	Feasibility and analysis of CNNâ€based candidate beam generation for robotic radiosurgery. Medical Physics, 2020, 47, 3806-3815.	1.6	6
1304	Introduction to deep learning: minimum essence required to launch a research. Japanese Journal of Radiology, 2020, 38, 907-921.	1.0	14
1305	GIS Partial Discharge Patterns Recognition with Spherical Convolutional Neural Network. IOP Conference Series: Materials Science and Engineering, 2020, 853, 012001.	0.3	3
1306	A Novel End-to-End Hybrid Network for Alzheimer's Disease Detection Using 3D CNN and 3D CLSTM. , 2020, , .		20

#	Article	IF	CITATIONS
1307	Lane Position Detection Based on Long Short-Term Memory (LSTM). Sensors, 2020, 20, 3115.	2.1	9
1308	Application of Deep Learning to Predict Standardized Uptake Value Ratio and Amyloid Status on ¹⁸ F-Florbetapir PET Using ADNI Data. American Journal of Neuroradiology, 2020, 41, 980-986.	1.2	19
1309	CryptoDL: Predicting Dyslexia Biomarkers from Encrypted Neuroimaging Dataset Using Energy-Efficient Residue Number System and Deep Convolutional Neural Network. Symmetry, 2020, 12, 836.	1.1	14
1310	The effects of visual congruence on increasing consumers' brand engagement: An empirical investigation of influencer marketing on instagram using deep-learning algorithms for automatic image classification. Computers in Human Behavior, 2020, 112, 106443.	5.1	76
1311	EEG signal processing with separable convolutional neural network for automatic scoring of sleeping stage. Neurocomputing, 2020, 410, 220-228.	3.5	19
1312	PathSRGAN: Multi-Supervised Super-Resolution for Cytopathological Images Using Generative Adversarial Network. IEEE Transactions on Medical Imaging, 2020, 39, 2920-2930.	5.4	30
1313	Fully Automated Bone Age Assessment on Large-Scale Hand X-Ray Dataset. International Journal of Biomedical Imaging, 2020, 2020, 1-12.	3.0	29
1314	Machine learning analysis of whole mouse brain vasculature. Nature Methods, 2020, 17, 442-449.	9.0	203
1315	Quantitative Assessment of the Effects of Compression on Deep Learning in Digital Pathology Image Analysis. JCO Clinical Cancer Informatics, 2020, 4, 221-233.	1.0	17
1316	A toolbox for brain network construction and classification (BrainNetClass). Human Brain Mapping, 2020, 41, 2808-2826.	1.9	52
1317	EEG-Rhythm Specific Taylor–Fourier Filter Bank Implemented With O-Splines for the Detection of Epilepsy Using EEG Signals. IEEE Sensors Journal, 2020, 20, 6542-6551.	2.4	60
1318	Predicting Unnecessary Nodule Biopsies from a Small, Unbalanced, and Pathologically Proven Dataset by Transfer Learning. Journal of Digital Imaging, 2020, 33, 685-696.	1.6	5
1319	A fully automated hybrid human sperm detection and classification system based on mobile-net and the performance comparison with conventional methods. Medical and Biological Engineering and Computing, 2020, 58, 1047-1068.	1.6	36
1320	A pilot trial of Convolution Neural Network for automatic retention-monitoring of capsule endoscopes in the stomach and duodenal bulb. Scientific Reports, 2020, 10, 4103.	1.6	8
1321	A Novel Convolutional Neural Network-Based Approach for Fault Classification in Photovoltaic Arrays. IEEE Access, 2020, 8, 41889-41904.	2.6	135
1322	Deep convolutional neural networks with transfer learning for automated brain image classification. Machine Vision and Applications, 2020, 31, 1.	1.7	122
1323	Catheter segmentation in X-ray fluoroscopy using synthetic data and transfer learning with light U-nets. Computer Methods and Programs in Biomedicine, 2020, 192, 105420.	2.6	31
1324	Chronic gastritis classification using gastric X-ray images with a semi-supervised learning method based on tri-training. Medical and Biological Engineering and Computing, 2020, 58, 1239-1250.	1.6	9

#	Article	IF	CITATIONS
1325	Depth Estimation of Hard Inclusions in Soft Tissue by Autonomous Robotic Palpation Using Deep Recurrent Neural Network. IEEE Transactions on Automation Science and Engineering, 2020, 17, 1791-1799.	3.4	33
1326	Transfer learning with deep convolutional neural network for constitution classification with face image. Multimedia Tools and Applications, 2020, 79, 11905-11919.	2.6	14
1327	Thyroid Nodule Ultrasound Image Classification Through Hybrid Feature Cropping Network. IEEE Access, 2020, 8, 64064-64074.	2.6	32
1328	An image processing approach for rigid gas-permeable lens base-curve identification. Signal, Image and Video Processing, 2020, 14, 971-979.	1.7	1
1329	Detection and localization of distal radius fractures: Deep learning system versus radiologists. European Journal of Radiology, 2020, 126, 108925.	1.2	44
1330	Automatic Segmentation of Multiple Structures in Knee Arthroscopy Using Deep Learning. IEEE Access, 2020, 8, 51853-51861.	2.6	19
1331	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
1332	C-RNNCrispr: Prediction of CRISPR/Cas9 sgRNA activity using convolutional and recurrent neural networks. Computational and Structural Biotechnology Journal, 2020, 18, 344-354.	1.9	37
1333	Mask R-CNN-Based Detection and Segmentation for Pulmonary Nodule 3D Visualization Diagnosis. IEEE Access, 2020, 8, 44400-44409.	2.6	67
1334	Artificial Intelligence Recommendation System of Cancer Rehabilitation Scheme Based on IoT Technology. IEEE Access, 2020, 8, 44924-44935.	2.6	25
1335	Deep learning radiomics can predict axillary lymph node status in early-stage breast cancer. Nature Communications, 2020, 11, 1236.	5.8	276
1336	Classification of digital pathological images of nonâ∈Hodgkin's lymphoma subtypes based on the fusion of transfer learning and principal component analysis. Medical Physics, 2020, 47, 4241-4253.	1.6	12
1337	Deep Transfer Learning for Source Code Modeling. International Journal of Software Engineering and Knowledge Engineering, 2020, 30, 649-668.	0.6	16
1338	Work-in-Progress: Towards detection and syntactical analysis in UML class diagrams for software engineering education. , 2020, , .		4
1339	Using artificial intelligence to improve medical services in China. Annals of Translational Medicine, 2020, 8, 711-711.	0.7	5
1340	Design and automated assembly of Planetary LEGO Brick for lunar in-situ construction. Automation in Construction, 2020, 118, 103282.	4.8	12
1341	Computer vision algorithm development for classification of palm fruit ripeness. AIP Conference Proceedings, 2020, , .	0.3	2
1342	Deep Learning Pre-training Strategy for Mammogram Image Classification: an Evaluation Study. Journal of Digital Imaging, 2020, 33, 1257-1265.	1.6	13

#	Article	IF	CITATIONS
1343	A deep learning methodology for improved breast cancer diagnosis using multiparametric MRI. Scientific Reports, 2020, 10, 10536.	1.6	86
1344	Feature-Based Discrimination of Thyroid Cancer on Ultrasound Images. , 2020, , .		0
1345	Computer-Aided Bacillus Detection in Whole-Slide Pathological Images Using a Deep Convolutional Neural Network. Applied Sciences (Switzerland), 2020, 10, 4059.	1.3	12
1346	Deep Learning Classification of 2D Orthomosaic Images and 3D Point Clouds for Post-Event Structural Damage Assessment. Drones, 2020, 4, 24.	2.7	15
1347	Towards Robust and Accurate Detection of Abnormalities in Musculoskeletal Radiographs with a Multi-Network Model. Sensors, 2020, 20, 3153.	2.1	17
1348	Apple Leaf Diseases Recognition Based on An Improved Convolutional Neural Network. Sensors, 2020, 20, 3535.	2.1	73
1349	Image Restoration for Low-Dose CT via Transfer Learning and Residual Network. IEEE Access, 2020, 8, 112078-112091.	2.6	20
1350	Nodule Localization in Thyroid Ultrasound Images with a Joint-Training Convolutional Neural Network. Journal of Digital Imaging, 2020, 33, 1266-1279.	1.6	5
1351	Image based cellular contractile force evaluation with small-world network inspired CNN: SW-UNet. Biochemical and Biophysical Research Communications, 2020, 530, 527-532.	1.0	7
1352	Integrated application of semantic segmentation-assisted deep learning to quantitative multi-phased microstructural analysis in composite materials: Case study of cathode composite materials of solid oxide fuel cells. Journal of Power Sources, 2020, 471, 228458.	4.0	19
1353	Efficient neural network compression via transfer learning for machine vision inspection. Neurocomputing, 2020, 413, 294-304.	3.5	13
1354	Computer Vision for Rapid Updating of the Highway Asset Inventory. Transportation Research Record, 2020, 2674, 245-255.	1.0	6
1355	Computer-aided diagnosis systems for osteoporosis detection: a comprehensive survey. Medical and Biological Engineering and Computing, 2020, 58, 1873-1917.	1.6	22
1356	Pulmonary nodule detection on chest radiographs using balanced convolutional neural network and classic candidate detection. Artificial Intelligence in Medicine, 2020, 107, 101881.	3.8	19
1357	Human Identification for Activities of Daily Living: A Deep Transfer Learning Approach. Journal of Management Information Systems, 2020, 37, 457-483.	2.1	33
1358	A novel algorithm for defect extraction and classification of mobile phone screen based on machine vision. Computers and Industrial Engineering, 2020, 146, 106530.	3.4	37
1359	Efficacy of deep convolutional neural network algorithm for the identification and classification of dental implant systems, using panoramic and periapical radiographs. Medicine (United States), 2020, 99, e20787.	0.4	60
1360	Research Status and Prospect of Deep Learning in Secondary State Monitoring of Smart Substation. , 2020, , .		3

#	Article	IF	CITATIONS
1361	Deep learning analysis in coronary computed tomographic angiography imaging for the assessment of patients with coronary artery stenosis. Computer Methods and Programs in Biomedicine, 2020, 196, 105651.	2.6	42
1362	Self-supervised multimodal reconstruction of retinal images over paired datasets. Expert Systems With Applications, 2020, 161, 113674.	4.4	21
1363	Deep learning risk assessment models for predicting progression of radiographic medial joint space loss over a 48-MONTH follow-up period. Osteoarthritis and Cartilage, 2020, 28, 428-437.	0.6	37
1364	Evolutionary Programming Based Deep Learning Feature Selection and Network Construction for Visual Data Classification. Information Systems Frontiers, 2020, 22, 1053-1066.	4.1	20
1365	Brain Tumor Segmentation from Multi-Spectral MRI Data Using Cascaded Ensemble Learning. , 2020, , .		4
1366	Orientation detection of fruits by means of convolutional neural networks and laser line projection for the automation of fruit packing systems. Procedia CIRP, 2020, 88, 533-538.	1.0	5
1367	Deep Facial Diagnosis: Deep Transfer Learning From Face Recognition to Facial Diagnosis. IEEE Access, 2020, 8, 123649-123661.	2.6	132
1368	Classification of Oral Submucous Fibrosis using Convolutional Neural Network. , 2020, , .		2
1369	Deep learning LI-RADS grading system based on contrast enhanced multiphase MRI for differentiation between LR-3 and LR-4/LR-5 liver tumors. Annals of Translational Medicine, 2020, 8, 701-701.	0.7	32
1370	Transfer Learning for Information Extraction with Limited Data. Communications in Computer and Information Science, 2020, , 469-482.	0.4	3
1371	Towards a Better Understanding of Transfer Learning for Medical Imaging: A Case Study. Applied Sciences (Switzerland), 2020, 10, 4523.	1.3	133
1372	PSDRNN: An Efficient and Effective HAR Scheme Based on Feature Extraction and Deep Learning. IEEE Transactions on Industrial Informatics, 2020, 16, 6703-6713.	7.2	29
1373	Two-stage classification of tuberculosis culture diagnosis using convolutional neural network with transfer learning. Journal of Supercomputing, 2020, 76, 8641-8656.	2.4	26
1374	Unsupervised Domain Adaptation to Classify Medical Images Using Zero-Bias Convolutional Auto-Encoders and Context-Based Feature Augmentation. IEEE Transactions on Medical Imaging, 2020, 39, 2385-2394.	5.4	27
1375	Evaluation of Transfer Learning with Deep Convolutional Neural Networks for Screening Osteoporosis in Dental Panoramic Radiographs. Journal of Clinical Medicine, 2020, 9, 392.	1.0	98
1376	Multi-AUV Collaborative Target Recognition Based on Transfer-Reinforcement Learning. IEEE Access, 2020, 8, 39273-39284.	2.6	28
1377	Convolutional Neural Networks accurately predict cover fractions of plant species and communities in Unmanned Aerial Vehicle imagery. Remote Sensing in Ecology and Conservation, 2020, 6, 472-486.	2.2	82
1378	Automatic Defect Detection for Small Metal Cylindrical Shell Using Transfer Learning and Logistic Regression. Journal of Nondestructive Evaluation, 2020, $39,1.$	1.1	5

#	Article	IF	CITATIONS
1379	A deep learning approach for the blind logP prediction in SAMPL6 challenge. Journal of Computer-Aided Molecular Design, 2020, 34, 535-542.	1.3	19
1380	Novel convolutional neural network architecture for improved pulmonary nodule classification on computed tomography. Multidimensional Systems and Signal Processing, 2020, 31, 1163-1183.	1.7	18
1381	On-Device Partial Learning Technique of Convolutional Neural Network for New Classes. Journal of Signal Processing Systems, 2023, 95, 909-920.	1.4	1
1382	GP-CNN-DTEL: Global-Part CNN Model With Data-Transformed Ensemble Learning for Skin Lesion Classification. IEEE Journal of Biomedical and Health Informatics, 2020, 24, 2870-2882.	3.9	81
1383	Multi-Task Refined Boundary-Supervision U-Net (MRBSU-Net) for Gastrointestinal Stromal Tumor Segmentation in Endoscopic Ultrasound (EUS) Images. IEEE Access, 2020, 8, 5805-5816.	2.6	16
1384	Multi-Type Interdependent Feature Analysis Based on Hybrid Neural Networks for Computer-Aided Diagnosis of Epidermal Growth Factor Receptor Mutations. IEEE Access, 2020, 8, 38517-38527.	2.6	11
1385	Efficient Classification of White Blood Cell Leukemia with Improved Swarm Optimization of Deep Features. Scientific Reports, 2020, 10, 2536.	1.6	159
1386	A Hybrid CNN-LSTM Model for Forecasting Particulate Matter (PM2.5). IEEE Access, 2020, 8, 26933-26940.	2.6	201
1387	Multimodal hand gesture recognition combining temporal and pose information based on CNN descriptors and histogram of cumulative magnitudes. Journal of Visual Communication and Image Representation, 2020, 71, 102772.	1.7	28
1388	SDCT-AuxNet: DCT augmented stain deconvolutional CNN with auxiliary classifier for cancer diagnosis. Medical Image Analysis, 2020, 61, 101661.	7.0	43
1389	A Deep-Learning-based 3D Defect Quantitative Inspection System in CC Products Surface. Sensors, 2020, 20, 980.	2.1	15
1390	Automatic Recognition of Laryngoscopic Images Using a Deepâ€Learning Technique. Laryngoscope, 2020, 130, E686-E693.	1.1	61
1391	Deep learning for screening of interstitial lung disease patterns in high-resolution CT images. Clinical Radiology, 2020, 75, 481.e1-481.e8.	0.5	26
1392	Predicting lung mass density of patients with interstitial lung disease and healthy subjects using deep neural network and lung ultrasound surface wave elastography. Journal of the Mechanical Behavior of Biomedical Materials, 2020, 104, 103682.	1.5	11
1393	China's population spatialization based on three machine learning models. Journal of Cleaner Production, 2020, 256, 120644.	4.6	26
1394	Improving the Speed of MRI with Artificial Intelligence. Seminars in Musculoskeletal Radiology, 2020, 24, 012-020.	0.4	45
1395	Improvising the performance of image-based recommendation system using convolution neural networks and deep learning. Soft Computing, 2020, 24, 14531-14544.	2.1	24
1396	Adversarial erasing attention for fine-grained image classification. Multimedia Tools and Applications, 2021, 80, 22867-22889.	2.6	6

#	Article	IF	CITATIONS
1397	Ensemble of fineâ€tuned convolutional neural networks for urine sediment microscopic image classification. IET Computer Vision, 2020, 14, 18-25.	1.3	7
1398	Classification of Ecological Data by Deep Learning. International Journal of Pattern Recognition and Artificial Intelligence, 2020, 34, 2052010.	0.7	3
1399	Deep Learning for Automatic Calcium Scoring in CT: Validation Using Multiple Cardiac CT and Chest CT Protocols. Radiology, 2020, 295, 66-79.	3.6	140
1400	Extracting features from infrared images using convolutional neural networks and transfer learning. Infrared Physics and Technology, 2020, 105, 103237.	1.3	18
1401	Breast Cancer Classification in Automated Breast Ultrasound Using Multiview Convolutional Neural Network with Transfer Learning. Ultrasound in Medicine and Biology, 2020, 46, 1119-1132.	0.7	94
1402	Holistic design for deep learning-based discovery of tabular structures in datasheet images. Engineering Applications of Artificial Intelligence, 2020, 90, 103551.	4.3	17
1403	Audio content analysis for unobtrusive event detection in smart homes. Engineering Applications of Artificial Intelligence, 2020, 89, 103226.	4.3	28
1404	Automatic detection of risk zones in diabetic foot soles by processing thermographic images taken in an uncontrolled environment. Infrared Physics and Technology, 2020, 105, 103187.	1.3	25
1405	Deep learning-based approach for landform classification from integrated data sources of digital elevation model and imagery. Geomorphology, 2020, 354, 107045.	1.1	97
1406	Automated evaluation of Rockwell adhesion tests for PVD coatings using convolutional neural networks. Surface and Coatings Technology, 2020, 385, 125365.	2.2	22
1407	Simulating urban land use change by integrating a convolutional neural network with vector-based cellular automata. International Journal of Geographical Information Science, 2020, 34, 1475-1499.	2.2	72
1408	Dynamic changes of views on the brain changes of Cushing's syndrome using different computer-assisted tool. Reviews in Endocrine and Metabolic Disorders, 2020, 21, 185-200.	2.6	6
1409	Classification of Interstitial Lung Abnormality Patterns with an Ensemble of Deep Convolutional Neural Networks. Scientific Reports, 2020, 10, 338.	1.6	61
1410	Improved small blob detection in 3D images using jointly constrained deep learning and Hessian analysis. Scientific Reports, 2020, 10, 326.	1.6	19
1413	Instance-Based Transfer Learning. , 2020, , 23-33.		0
1414	Feature-Based Transfer Learning. , 2020, , 34-44.		0
1415	Model-Based Transfer Learning. , 2020, , 45-57.		0
1416	Relation-Based Transfer Learning. , 2020, , 58-67.		1

#	Article	IF	CITATIONS
1417	Heterogeneous Transfer Learning. , 2020, , 68-92.		0
1418	Adversarial Transfer Learning. , 2020, , 93-104.		0
1419	Transfer Learning in Reinforcement Learning. , 2020, , 105-125.		0
1420	Multi-task Learning. , 2020, , 126-140.		0
1421	Transfer Learning Theory. , 2020, , 141-150.		1
1422	Few-Shot Learning. , 2020, , 177-195.		1
1423	Lifelong Machine Learning. , 2020, , 196-208.		0
1424	Privacy-Preserving Transfer Learning. , 2020, , 211-220.		1
1425	Transfer Learning in Natural Language Processing. , 2020, , 234-256.		3
1426	Transfer Learning in Dialogue Systems. , 2020, , 257-278.		0
1427	Transfer Learning in Bioinformatics. , 2020, , 293-306.		0
1428	Transfer Learning in Activity Recognition. , 2020, , 307-323.		0
1429	Transfer Learning in Urban Computing. , 2020, , 324-333.		0
1432	Deep learning for site safety: Real-time detection of personal protective equipment. Automation in Construction, 2020, 112, 103085.	4.8	210
1433	Growth Scale Prediction of Big Data for Information Systems Based on a Deep Learning SAEP Method. IEEE Access, 2020, 8, 62883-62894.	2.6	1
1434	Multiple skin lesions diagnostics via integrated deep convolutional networks for segmentation and classification. Computer Methods and Programs in Biomedicine, 2020, 190, 105351.	2.6	195
1435	Melanoma recognition by a deep learning convolutional neural networkâ€"Performance in different melanoma subtypes and localisations. European Journal of Cancer, 2020, 127, 21-29.	1.3	59
1436	Transitive Transfer Learning. , 2020, , 151-167.		0

#	Article	IF	CITATIONS
1437	AutoTL: Learning to Transfer Automatically. , 2020, , 168-176.		0
1438	Transfer Learning in Computer Vision. , 2020, , 221-233.		2
1439	Transfer Learning in Recommender Systems. , 2020, , 279-292.		1
1440	On the use of variable stride in convolutional neural networks. Multimedia Tools and Applications, 2020, 79, 13581-13598.	2.6	9
1441	Epileptic Seizure Detection Based on Stockwell Transform and Bidirectional Long Short-Term Memory. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2020, 28, 573-580.	2.7	59
1442	Automated diagnosis of neonatal encephalopathy on aEEG using deep neural networks. Neurocomputing, 2020, 398, 95-107.	3.5	11
1443	Deep learning guided image-based droplet sorting for on-demand selection and analysis of single cells and 3D cell cultures. Lab on A Chip, 2020, 20, 889-900.	3.1	68
1444	A Latent Feature-Based Multimodality Fusion Method for Theme Classification on Web Map Service. IEEE Access, 2020, 8, 25299-25309.	2.6	7
1445	A Novel Transfer Learning Based Approach for Pneumonia Detection in Chest X-ray Images. Applied Sciences (Switzerland), 2020, 10, 559.	1.3	431
1446	A deep convolutional neural network architecture for interstitial lung disease pattern classification. Medical and Biological Engineering and Computing, 2020, 58, 725-737.	1.6	46
1447	Evaluation of artificial intelligence for detecting periapical pathosis on coneâ€beam computed tomography scans. International Endodontic Journal, 2020, 53, 680-689.	2.3	147
1448	Investigating the Effects of Transfer Learning on ROI-based Classification of Chest CT Images: A Case Study on Diffuse Lung Diseases. Journal of Signal Processing Systems, 2020, 92, 307-313.	1.4	4
1449	Automatic detection and quantification of hand movements toward development of an objective assessment of tremor and bradykinesia in Parkinson's disease. Journal of Neuroscience Methods, 2020, 333, 108576.	1.3	35
1450	Computerâ€aided diagnosis of breast ultrasound images using ensemble learning from convolutional neural networks. Computer Methods and Programs in Biomedicine, 2020, 190, 105361.	2.6	143
1451	Fidelity imposed network edit (FINE) for solving ill-posed image reconstruction. NeuroImage, 2020, 211, 116579.	2.1	31
1452	CNN-based survival model for pancreatic ductal adenocarcinoma in medical imaging. BMC Medical lmaging, 2020, 20, 11.	1.4	49
1453	Deep Learning in Medical Image Analysis. Advances in Experimental Medicine and Biology, 2020, , .	0.8	33
1454	A Simplified 2D-3D CNN Architecture for Hyperspectral Image Classification Based on Spatial–Spectral Fusion. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2020, 13, 2485-2501.	2.3	147

#	Article	IF	CITATIONS
1455	Automated diagnosis of multi-class brain abnormalities using MRI images: A deep convolutional neural network based method. Pattern Recognition Letters, 2020, 138, 385-391.	2.6	46
1456	A review of recent progress in deep learning-based methods for MRI brain tumor segmentation. , 2020, , .		6
1457	Classification of Compressed Remote Sensing Multispectral Images via Convolutional Neural Networks. Journal of Imaging, 2020, 6, 24.	1.7	4
1458	Prosperous Human Gait Recognition: an end-to-end system based on pre-trained CNN features selection. Multimedia Tools and Applications, 2024, 83, 14979-14999.	2.6	44
1459	Computer vision system for measuring individual cow feed intake using RGB-D camera and deep learning algorithms. Computers and Electronics in Agriculture, 2020, 172, 105345.	3.7	95
1460	A holistic deep learning approach for identification and classification of sub-solid lung nodules in computed tomographic scans. Computers and Electrical Engineering, 2020, 84, 106626.	3.0	8
1461	Lung nodule detection and classification from Thorax CT-scan using RetinaNet with transfer learning. Journal of King Saud University - Computer and Information Sciences, 2022, 34, 567-577.	2.7	27
1462	Embracing imperfect datasets: A review of deep learning solutions for medical image segmentation. Medical Image Analysis, 2020, 63, 101693.	7.0	473
1463	AntVis: A web-based visual analytics tool for exploring ant movement data. Visual Informatics, 2020, 4, 58-70.	2.5	5
1464	Technical and imaging factors influencing performance of deep learning systems for diabetic retinopathy. Npj Digital Medicine, 2020, 3, 40.	5.7	28
1465	DCT-MIL: Deep CNN transferred multiple instance learning for COPD identification using CT images. Physics in Medicine and Biology, 2020, 65, 145011.	1.6	21
1466	Melanoma detection using adversarial training and deep transfer learning. Physics in Medicine and Biology, 2020, 65, 135005.	1.6	62
1467	Synergizing medical imaging and radiotherapy with deep learning. Machine Learning: Science and Technology, 2020, 1, 021001.	2.4	24
1468	Deep Learning for Ultrasound Localization Microscopy. IEEE Transactions on Medical Imaging, 2020, 39, 3064-3078.	5.4	72
1469	Application and Comparison of Supervised Learning Strategies to Classify Polarity of Epithelial Cell Spheroids in 3D Culture. Frontiers in Genetics, 2020, 11, 248.	1.1	9
1470	Ensemble Deep Learning Models for Heart Disease Classification: A Case Study from Mexico. Information (Switzerland), 2020, 11, 207.	1.7	64
1471	HKSiamFC: Visual-Tracking Framework Using Prior Information Provided by Staple and Kalman Filter. Sensors, 2020, 20, 2137.	2.1	7
1472	Development of automatic measurement for patellar height based on deep learning and knee radiographs. European Radiology, 2020, 30, 4974-4984.	2.3	14

#	Article	IF	CITATIONS
1473	Discrimination of Tetrastigma hemsleyanum according to geographical origin by near-infrared spectroscopy combined with a deep learning approach. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2020, 238, 118380.	2.0	21
1474	Myocardial Infarction Severity Stages Classification From ECG Signals Using Attentional Recurrent Neural Network. IEEE Sensors Journal, 2020, 20, 8711-8720.	2.4	36
1475	Violence Detection in Automated Video Surveillance: Recent Trends and Comparative Studies., 2020,, 157-171.		17
1476	Multispecies bioacoustic classification using transfer learning of deep convolutional neural networks with pseudo-labeling. Applied Acoustics, 2020, 166, 107375.	1.7	51
1477	Deep Learning of Spatiotemporal Filtering for Fast Super-Resolution Ultrasound Imaging. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2020, 67, 1820-1829.	1.7	42
1478	Utilization of a convolutional method for Alzheimer disease diagnosis. Machine Vision and Applications, 2020, $31,1.$	1.7	14
1479	DeTrac: Transfer Learning of Class Decomposed Medical Images in Convolutional Neural Networks. IEEE Access, 2020, 8, 74901-74913.	2.6	79
1480	A survey of the recent architectures of deep convolutional neural networks. Artificial Intelligence Review, 2020, 53, 5455-5516.	9.7	1,454
1481	Automated mammogram breast cancer detection using the optimized combination of convolutional and recurrent neural network. Evolutionary Intelligence, 2021, 14, 1459-1474.	2.3	46
1482	Towards large-scale case-finding: training and validation of residual networks for detection of chronic obstructive pulmonary disease using low-dose CT. The Lancet Digital Health, 2020, 2, e259-e267.	5.9	53
1483	Stain Color Adaptive Normalization (SCAN) algorithm: Separation and standardization of histological stains in digital pathology. Computer Methods and Programs in Biomedicine, 2020, 193, 105506.	2.6	65
1484	Multi-class object detection using faster R-CNN and estimation of shaking locations for automated shake-and-catch apple harvesting. Computers and Electronics in Agriculture, 2020, 173, 105384.	3.7	69
1485	Differential Diagnosis of Benign and Malignant Thyroid Nodules Using Deep Learning Radiomics of Thyroid Ultrasound Images. European Journal of Radiology, 2020, 127, 108992.	1.2	58
1486	Surgical spectral imaging. Medical Image Analysis, 2020, 63, 101699.	7.0	82
1487	Machine-learning-assisted high-throughput computational screening of high performance metal–organic frameworks. Molecular Systems Design and Engineering, 2020, 5, 725-742.	1.7	74
1488	Mammography Image Quality Assurance Using Deep Learning. IEEE Transactions on Biomedical Engineering, 2020, 67, 3317-3326.	2.5	23
1489	Mammographic Classification Based on XGBoost and DCNN With Multi Features. IEEE Access, 2020, 8, 75011-75021.	2.6	32
1490	Numbering and Classification of Panoramic Dental Images Using 6-Layer Convolutional Neural Network. Pattern Recognition and Image Analysis, 2020, 30, 125-133.	0.6	7

#	Article	IF	Citations
1491	In-situ monitoring of hybrid friction diffusion bonded EN AW 1050/EN CW 004A lap joints using artificial neural nets. Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications, 2020, 234, 766-785.	0.7	3
1492	Transfer Learning with Convolutional Neural Networks for Diabetic Retinopathy Image Classification. A Review. Applied Sciences (Switzerland), 2020, 10, 2021.	1.3	89
1493	Deep Convolutional Neural Networks Based Analysis of Cephalometric Radiographs for Differential Diagnosis of Orthognathic Surgery Indications. Applied Sciences (Switzerland), 2020, 10, 2124.	1.3	38
1494	Enhanced Intelligent Identification of Concrete Cracks Using Multi-Layered Image Preprocessing-Aided Convolutional Neural Networks. Sensors, 2020, 20, 2021.	2.1	9
1495	Spatioâ€ŧemporal context based recurrent visual attention model for lymph node detection. International Journal of Imaging Systems and Technology, 2020, 30, 1220-1242.	2.7	2
1496	Multi-view visual Bayesian personalized ranking for restaurant recommendation. Applied Intelligence, 2020, 50, 2901-2915.	3.3	20
1497	Left ventricle automatic segmentation in cardiac MRI using a combined CNN and U-net approach. Computerized Medical Imaging and Graphics, 2020, 82, 101719.	3.5	39
1498	Detection and classification of landmines using machine learning applied to metal detector data. Journal of Experimental and Theoretical Artificial Intelligence, 2021, 33, 203-226.	1.8	8
1499	Use of artificial intelligence for detection of gastric lesions by magnetically controlled capsule endoscopy. Gastrointestinal Endoscopy, 2021, 93, 133-139.e4.	0.5	42
1500	Multi-Scale Metric Learning for Few-Shot Learning. IEEE Transactions on Circuits and Systems for Video Technology, 2021, 31, 1091-1102.	5. 6	143
1501	Multi-Task Pre-Training of Deep Neural Networks for Digital Pathology. IEEE Journal of Biomedical and Health Informatics, 2021, 25, 412-421.	3.9	26
1502	Multi-View Mammographic Density Classification by Dilated and Attention-Guided Residual Learning. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2021, 18, 1003-1013.	1.9	38
1503	Artificial intelligence for breast cancer detection in mammography and digital breast tomosynthesis: State of the art. Seminars in Cancer Biology, 2021, 72, 214-225.	4.3	121
1504	Deep transfer learning based hepatitis B virus diagnosis using spectroscopic images. International Journal of Imaging Systems and Technology, 2021, 31, 94-105.	2.7	17
1505	LSTM-based soft sensor design for oxygen content of flue gas in coal-fired power plant. Transactions of the Institute of Measurement and Control, 2021, 43, 78-87.	1,1	20
1506	Deep Learning for Multigrade Brain Tumor Classification in Smart Healthcare Systems: A Prospective Survey. IEEE Transactions on Neural Networks and Learning Systems, 2021, 32, 507-522.	7.2	203
1507	Crop growth stage estimation prior to canopy closure using deep learning algorithms. Neural Computing and Applications, 2021, 33, 1733-1743.	3.2	18
1508	A Comprehensive Survey on Transfer Learning. Proceedings of the IEEE, 2021, 109, 43-76.	16.4	2,393

#	Article	IF	CITATIONS
1509	Ensemble of convolutional neural networks for bioimage classification. Applied Computing and Informatics, 2021, 17, 19-35.	3.7	54
1510	Enhanced Diagnosis of Pneumothorax with an Improved Real-Time Augmentation for Imbalanced Chest X-rays Data Based on DCNN. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2021, 18, 951-962.	1.9	22
1511	Automatic Construction of Chinese Herbal Prescriptions From Tongue Images Using CNNs and Auxiliary Latent Therapy Topics. IEEE Transactions on Cybernetics, 2021, 51, 708-721.	6.2	32
1512	Pulmonary lesion classification from endobronchial ultrasonography images using adaptive weightedâ€sum of the upper and lower triangular grayâ€level coâ€occurrence matrix. International Journal of Imaging Systems and Technology, 2021, 31, 1280-1293.	2.7	1
1513	A Review of Deep Learning on Medical Image Analysis. Mobile Networks and Applications, 2021, 26, 351-380.	2.2	110
1514	Deep learning and medical image processing for coronavirus (COVID-19) pandemic: A survey. Sustainable Cities and Society, 2021, 65, 102589.	5.1	300
1515	Real-time vision-based worker localization & Days the detection for construction. Automation in Construction, 2021, 121, 103448.	4.8	46
1516	Diagnosing acute promyelocytic leukemia by using convolutional neural network. Clinica Chimica Acta, 2021, 512, 1-6.	0.5	20
1517	DeepImpact: a deep learning model for whole body vibration control using impact force monitoring. Neural Computing and Applications, 2021, 33, 3521-3544.	3.2	10
1518	Deeper into Image Classification. Advances in Intelligent Systems and Computing, 2021, , 69-81.	0.5	1
1519	Breast Cancer Detection, Segmentation and Classification on Histopathology Images Analysis: A Systematic Review. Archives of Computational Methods in Engineering, 2021, 28, 2607-2619.	6.0	62
1520	Digital pathology as a platform for primary diagnosis and augmentation via deep learning. , 2021, , 93-118.		1
1521	Self-Supervised ECG Representation Learning for Emotion Recognition. IEEE Transactions on Affective Computing, 2022, 13, 1541-1554.	5.7	104
1522	Automatic lung segmentation in CT images using mask R-CNN for mapping the feature extraction in supervised methods of machine learning using transfer learning. International Journal of Hybrid Intelligent Systems, 2021, 16, 189-205.	0.9	7
1523	Spectral–Spatial Weighted Kernel Manifold Embedded Distribution Alignment for Remote Sensing Image Classification. IEEE Transactions on Cybernetics, 2021, 51, 3185-3197.	6.2	56
1524	Deep learning-based method coupled with small sample learning for solving partial differential equations. Multimedia Tools and Applications, 2021, 80, 17391-17413.	2.6	15
1525	A convolutional neural network approach to predict nonâ€permissive environments from moderateâ€resolution imagery. Transactions in GIS, 2021, 25, 674-691.	1.0	7
1526	A Novel False Alarm Suppression Method for CNN-Based SAR Ship Detector. IEEE Geoscience and Remote Sensing Letters, 2021, 18, 1401-1405.	1.4	26

#	Article	IF	CITATIONS
1527	Artificial intelligence in radiology. , 2021, , 265-289.		14
1528	An automated snoring sound classification method based on local dual octal pattern and iterative hybrid feature selector. Biomedical Signal Processing and Control, 2021, 63, 102173.	3.5	18
1529	Computer aided diagnosis of obesity based on thermal imaging using various convolutional neural networks. Biomedical Signal Processing and Control, 2021, 63, 102233.	3.5	12
1530	Computed tomography-based deep-learning prediction of neoadjuvant chemoradiotherapy treatment response in esophageal squamous cell carcinoma. Radiotherapy and Oncology, 2021, 154, 6-13.	0.3	78
1531	Shallow 3D CNN for Detecting Acute Brain Hemorrhage From Medical Imaging Sensors. IEEE Sensors Journal, 2021, 21, 14290-14299.	2.4	65
1532	Computer aided diagnosis system using deep convolutional neural networks for ADHD subtypes. Biomedical Signal Processing and Control, 2021, 63, 102227.	3.5	53
1533	Machine learning in experimental materials chemistry. Catalysis Today, 2021, 371, 77-84.	2.2	36
1534	Development and evaluation of deep learning–based segmentation of histologic structures in the kidney cortex with multiple histologic stains. Kidney International, 2021, 99, 86-101.	2.6	103
1535	Convolutional neural networks for the automatic diagnosis of melanoma: An extensive experimental study. Medical Image Analysis, 2021, 67, 101858.	7.0	44
1536	Importance and Evidence of Extent of Resection in Glioblastoma. Journal of Neurological Surgery, Part A: Central European Neurosurgery, 2021, 82, 075-086.	0.4	18
1537	LGAN: Lung segmentation in CT scans using generative adversarial network. Computerized Medical Imaging and Graphics, 2021, 87, 101817.	3.5	41
1538	Aggregated residual transformation network for multistage classification in diabetic retinopathy. International Journal of Imaging Systems and Technology, 2021, 31, 741-752.	2.7	8
1539	Diagnosing uterine cervical cancer on a single T2-weighted image: Comparison between deep learning versus radiologists. European Journal of Radiology, 2021, 135, 109471.	1.2	20
1540	A review on medical imaging synthesis using deep learning and its clinical applications. Journal of Applied Clinical Medical Physics, 2021, 22, 11-36.	0.8	139
1541	Three-Dimensional Crack Recognition by Unsupervised Machine Learning. Rock Mechanics and Rock Engineering, 2021, 54, 893-903.	2.6	21
1542	Transformers-based information extraction with limited data for domain-specific business documents. Engineering Applications of Artificial Intelligence, 2021, 97, 104100.	4.3	18
1543	A scoping review of transfer learning research on medical image analysis using ImageNet. Computers in Biology and Medicine, 2021, 128, 104115.	3.9	230
1544	A novel hand-crafted with deep learning features based fusion model for COVID-19 diagnosis and classification using chest X-ray images. Complex & Intelligent Systems, 2021, 7, 1277-1293.	4.0	74

#	Article	IF	CITATIONS
1545	Implementation of Machine Learning-Aided Imaging Analytics for Histopathological Image Diagnosis. , 2021, , 208-221.		0
1546	Application of deep learning techniques for detection of COVID-19 cases using chest X-ray images: A comprehensive study. Biomedical Signal Processing and Control, 2021, 64, 102365.	3.5	282
1547	Models Genesis. Medical Image Analysis, 2021, 67, 101840.	7.0	132
1548	Lowâ€Power Computing with Neuromorphic Engineering. Advanced Intelligent Systems, 2021, 3, 2000150.	3.3	27
1549	Comparison of segmentation-free and segmentation-dependent computer-aided diagnosis of breast masses on a public mammography dataset. Journal of Biomedical Informatics, 2021, 113, 103656.	2.5	10
1550	Decentralized learning works: An empirical comparison of gossip learning and federated learning. Journal of Parallel and Distributed Computing, 2021, 148, 109-124.	2.7	50
1551	Deep Learning-based Monocular Obstacle Avoidance for Unmanned Aerial Vehicle Navigation in Tree Plantations. Journal of Intelligent and Robotic Systems: Theory and Applications, 2021, 101, 1.	2.0	28
1552	The classification of construction waste material using a deep convolutional neural network. Automation in Construction, 2021, 122, 103481.	4.8	75
1553	Earthquake disaster avoidance learning system using deep learning. Cognitive Systems Research, 2021, 66, 221-235.	1.9	14
1554	Domain specific word embeddings for natural language processing in radiology. Journal of Biomedical Informatics, 2021, 113, 103665.	2.5	14
1555	Imaging Beyond Seeing: Early Prognosis of Cancer Treatment. Small Methods, 2021, 5, e2001025.	4.6	14
1556	Deep convolutional neural networks for multiplanar lung nodule detection: Improvement in small nodule identification. Medical Physics, 2021, 48, 733-744.	1.6	23
1557	Recent developments combining ensemble smoother and deep generative networks for facies history matching. Computational Geosciences, 2021, 25, 433-466.	1.2	33
1558	Event selection and background rejection in time projection chambers using convolutional neural networks and a specific application to the AdEPT gamma-ray polarimeter mission. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment. 2021, 987, 164860.	0.7	4
1559	Structure-preserving neural networks. Journal of Computational Physics, 2021, 426, 109950.	1.9	25
1560	Automated Quantitative Analysis of Wound Histology Using Deep-Learning Neural Networks. Journal of Investigative Dermatology, 2021, 141, 1367-1370.	0.3	1
1561	AutoTune: Automatically Tuning Convolutional Neural Networks for Improved Transfer Learning. Neural Networks, 2021, 133, 112-122.	3.3	22
1562	Automated Grading of Lumbar Disc Degeneration Using a Pushâ€Pull Regularization Network Based on <scp>MRI</scp> . Journal of Magnetic Resonance Imaging, 2021, 53, 799-806.	1.9	12

#	Article	IF	CITATIONS
1563	Automatic diagnosis of glaucoma using two-dimensional Fourier-Bessel series expansion based empirical wavelet transform. Biomedical Signal Processing and Control, 2021, 64, 102237.	3.5	57
1564	Tumor segmentation in automated whole breast ultrasound using bidirectional LSTM neural network and attention mechanism. Ultrasonics, 2021, 110, 106271.	2.1	28
1565	Laplacian regularized low-rank sparse representation transfer learning. International Journal of Machine Learning and Cybernetics, 2021, 12, 807-821.	2.3	4
1566	Signal and Image Processing Techniques for the Development of Intelligent Healthcare Systems. , 2021, , .		3
1567	The state of the art of deep learning models in medical science and their challenges. Multimedia Systems, 2021, 27, 599-613.	3.0	89
1568	Curriculum Feature Alignment Domain Adaptation for Epithelium-Stroma Classification in Histopathological Images. IEEE Journal of Biomedical and Health Informatics, 2021, 25, 1163-1172.	3.9	10
1569	Classification of COVID-19 in chest X-ray images using DeTraC deep convolutional neural network. Applied Intelligence, 2021, 51, 854-864.	3.3	615
1570	Landslide detection by deep learning of non-nadiral and crowdsourced optical images. Landslides, 2021, 18, 1025-1044.	2.7	52
1571	Development of an ANN-based building energy model for information-poor buildings using transfer learning. Building Simulation, 2021, 14, 89-101.	3.0	57
1572	Multi-View Separable Pyramid Network for AD Prediction at MCI Stage by ¹⁸ F-FDG Brain PET Imaging. IEEE Transactions on Medical Imaging, 2021, 40, 81-92.	5.4	50
1573	A Learning-Based Microultrasound System for the Detection of Inflammation of the Gastrointestinal Tract. IEEE Transactions on Medical Imaging, 2021, 40, 38-47.	5.4	14
1574	Convolutional neural network with spatial pyramid pooling for hand gesture recognition. Neural Computing and Applications, 2021, 33, 5339-5351.	3.2	60
1575	From perception to action using observed actions to learn gestures. User Modeling and User-Adapted Interaction, 2021, 31, 105-120.	2.9	3
1576	D-UNet: A Dimension-Fusion U Shape Network for Chronic Stroke Lesion Segmentation. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2021, 18, 940-950.	1.9	114
1577	Chest disease radiography in twofold: using convolutional neural networks and transfer learning. Evolving Systems, 2021, 12, 567-579.	2.4	19
1578	MRI Based Radiomics Approach With Deep Learning for Prediction of Vessel Invasion in Early-Stage Cervical Cancer. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2021, 18, 995-1002.	1.9	36
1579	Deep learning from small labeled datasets applied to medical image analysis. , 2021, , 279-291.		0
1580	Age-group determination of living individuals using first molar images based on artificial intelligence. Scientific Reports, 2021, 11, 1073.	1.6	31

#	Article	IF	CITATIONS
1581	Prediction of paravalvular leak post transcatheter aortic valve replacement., 2021,, 269-290.		0
1582	An Efficient Pneumonia Detection from the Chest X-Ray Images. Algorithms for Intelligent Systems, 2021, , 779-789.	0.5	4
1583	Hip Landmark Detection With Dependency Mining in Ultrasound Image. IEEE Transactions on Medical Imaging, 2021, 40, 3762-3774.	5.4	13
1584	Human Fall Detection Using Efficient Kernel and Eccentric Approach. International Journal of E-Health and Medical Communications, 2021, 12, 62-80.	1.4	0
1585	Cross-Dataset Multiple Organ Segmentation From CT Imagery Using FBP-Derived Domain Adaptation. IEEE Access, 2021, 9, 25025-25035.	2.6	3
1586	RU-Net for Heart Segmentation from CXR. Journal of Physics: Conference Series, 2021, 1769, 012015.	0.3	3
1587	Phenotypic trait extraction of soybean plants using deep convolutional neural networks with transfer learning. Big Data & Information Analytics, 2021, 6, 26-40.	1.3	2
1588	Visual feature representation in microscopy image classification. , 2021, , 73-100.		2
1589	A hybrid deep learning model for breast cancer diagnosis based on transfer learning and pulse-coupled neural networks. Mathematical Biosciences and Engineering, 2021, 18, 5029-5046.	1.0	17
1590	Machine Learning Applications in Anti-cancer Drug Discovery. EAI/Springer Innovations in Communication and Computing, 2021, , 163-179.	0.9	0
1591	Analysis and Classification of Plant Diseases Based on Deep Learning. Lecture Notes in Networks and Systems, 2021, , 123-133.	0.5	0
1592	Unified Analysis Specific to the Medical Field in the Interpretation of Medical Images through the Use of Deep Learning. E-health Telecommunication Systems and Networks, 2021, 10, 41-74.	0.7	5
1593	DNN-Based Hâ^ž Control Scheme of Nonlinear Time-Varying Dynamic Systems With External Disturbance and its Application to UAV Tracking Design. IEEE Access, 2021, 9, 69635-69653.	2.6	5
1594	Machine learning in translational bioinformatics. , 2021, , 183-192.		1
1596	Deep Learning in IoT. Advances in Computational Intelligence and Robotics Book Series, 2021, , 1-54.	0.4	1
1597	SpineGEM: A Hybrid-Supervised Model Generation Strategy Enabling Accurate Spine Disease Classification with a Small Training Dataset. Lecture Notes in Computer Science, 2021, , 145-154.	1.0	2
1598	Conditional sliding windows: An approach for handling data limitation in colorectal histopathology image classification. Informatics in Medicine Unlocked, 2021, 23, 100565.	1.9	8
1599	Composite Kernel of Mutual Learning on Mid-Level Features for Hyperspectral Image Classification. IEEE Transactions on Cybernetics, 2022, 52, 12217-12230.	6.2	5

#	Article	IF	CITATIONS
1600	SAR: Scale-Aware Restoration Learning for 3D Tumor Segmentation. Lecture Notes in Computer Science, 2021, , 124-133.	1.0	4
1601	Deep Learning Based Staging of Bone Lesions From Computed Tomography Scans. IEEE Access, 2021, 9, 87531-87542.	2.6	12
1602	How to define a rejection class based on model learning?. , 2021, , .		3
1603	An Optimized Approach to Vehicle-Type Classification Using a Convolutional Neural Network. Computers, Materials and Continua, 2021, 69, 3321-3335.	1.5	4
1604	Automated Extraction of Skin Wound Healing Biomarkers From In Vivo Labelâ€Free Multiphoton Microscopy Using Convolutional Neural Networks. Lasers in Surgery and Medicine, 2021, 53, 1086-1095.	1.1	4
1605	CNN-Based Hybrid Optimization for Anomaly Detection of Rudder System. IEEE Access, 2021, 9, 121845-121858.	2.6	9
1606	Adaptive Local Ternary Pattern on Parameter Optimized-Faster Region Convolutional Neural Network for Pulmonary Emphysema Diagnosis. IEEE Access, 2021, 9, 114135-114152.	2.6	9
1607	Real-Time Polyp Detection, Localization and Segmentation in Colonoscopy Using Deep Learning. IEEE Access, 2021, 9, 40496-40510.	2.6	160
1608	Deep Attention and Graphical Neural Network for Multiple Sclerosis Lesion Segmentation From MR Imaging Sequences. IEEE Journal of Biomedical and Health Informatics, 2022, 26, 1196-1207.	3.9	4
1609	Explainable COVID-19 Detection Using Chest CT Scans and Deep Learning. Sensors, 2021, 21, 455.	2.1	143
1610	Deep Analysis of EIT Dataset to Classify Apnea and Non-Apnea Cases in Neonatal Patients. IEEE Access, 2021, 9, 25131-25139.	2.6	7
1611	F-UNet: A Modified U-Net Architecture for Segmentation of Stroke Lesion. Communications in Computer and Information Science, 2021, , 32-43.	0.4	2
1612	Deep Learning Applications for COVID-19 Analysis: A State-of-the-Art Survey. CMES - Computer Modeling in Engineering and Sciences, 2021, 129, 65-98.	0.8	7
1613	DenTcov: Deep Transfer Learning-Based Automatic Detection of Coronavirus Disease (COVID-19) Using Chest X-ray Images. Lecture Notes in Networks and Systems, 2021, , 967-977.	0.5	3
1614	Smart staff attendance system using Convolutional Neural Network. , 2021, , .		1
1615	Identification of voids and interlaminar shear strengths of polymerâ€matrix composites by optical microscopy experiment and deep learning methodology. Polymers for Advanced Technologies, 2021, 32, 1853-1865.	1.6	11
1617	COVID-19 Detection using Transfer Learning with Convolutional Neural Network. , 2021, , .		21
1618	Denoising Deep Learning Network Based on Singular Spectrum Analysis—DAS Seismic Data Denoising With Multichannel SVDDCNN. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-11.	2.7	24

#	Article	IF	CITATIONS
1619	FlowFrontNet: Improving Carbon Composite Manufacturing with CNNs. Lecture Notes in Computer Science, 2021, , 411-426.	1.0	5
1621	A deep learning approach for staging embryonic tissue isolates with small data. PLoS ONE, 2021, 16, e0244151.	1.1	10
1622	Deep Learning for Lung Disease Detection from Chest X-Rays Images. , 2021, , 239-254.		0
1623	Distant Domain Transfer Learning for Medical Imaging. IEEE Journal of Biomedical and Health Informatics, 2021, 25, 3784-3793.	3.9	58
1624	Deep Transfer Learning-Based Musculoskeletal Abnormality Detection. Algorithms for Intelligent Systems, 2021, , 191-201.	0.5	0
1625	Bridging the gap between Natural and Medical Images through Deep Colorization. , 2021, , .		8
1626	Biomedical image classification using deep convolutional neural networks – overview. IOP Conference Series: Materials Science and Engineering, 2021, 1022, 012020.	0.3	4
1627	Deep Convolutional Neural Network (CNN) Design for Pathology Detection of COVID-19 in Chest X-Ray Images. Lecture Notes in Computer Science, 2021, , 211-223.	1.0	4
1628	Deep learning neural networks for acrylamide identification in potato chips using transfer learning approach. Journal of Ambient Intelligence and Humanized Computing, 2021, 12, 10601-10614.	3.3	12
1629	Detection, segmentation, and numbering of teeth in dental panoramic images with mask regions with convolutional neural network features., 2021,, 73-90.		3
1630	A preliminary study of sperm identification in microdissection testicular sperm extraction samples with deep convolutional neural networks. Asian Journal of Andrology, 2021, 23, 135.	0.8	11
1631	Seeking an Optimal Approach for Computer-Aided Pulmonary Embolism Detection. Lecture Notes in Computer Science, 2021, , 692-702.	1.0	6
1632	Mobile-Aware Deep Learning Algorithms for Malaria Parasites and White Blood Cells Localization in Thick Blood Smears. Algorithms, 2021, 14, 17.	1.2	16
1633	Developing Brain Tumor Detection Model Using Deep Feature Extraction via Transfer Learning. Advances in Data Mining and Database Management Book Series, 2021, , 119-137.	0.4	0
1634	Uncertainty-Guided Progressive GANs for Medical Image Translation. Lecture Notes in Computer Science, 2021, , 614-624.	1.0	14
1635	A Systematic Benchmarking Analysis ofÂTransfer Learning for Medical ImageÂAnalysis. Lecture Notes in Computer Science, 2021, , 3-13.	1.0	22
1636	Ensemble-Based Information Retrieval With Mass Estimation for Hyperspectral Target Detection. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-23.	2.7	23
1637	Mango Leaf Disease Identification Using Fully Resolution Convolutional Network. Computers, Materials and Continua, 2021, 69, 3581-3601.	1.5	13

#	Article	IF	CITATIONS
1638	Skin cancer classification using Convolutional neural networks., 2021,,.		25
1639	Research on the Classification of Benign and Malignant Parotid Tumors Based on Transfer Learning and a Convolutional Neural Network. IEEE Access, 2021, 9, 40360-40371.	2.6	15
1640	An adaptive multi-scale network with nonorthogonal multi-union input for reducing false positive of lymph nodes. Biocybernetics and Biomedical Engineering, 2021, 41, 265-277.	3.3	4
1641	Design and analysis of a robust breast cancer diagnostic system based on multimode MR images. Mathematical Biosciences and Engineering, 2021, 18, 3578-3597.	1.0	0
1642	Coronavirus Detection and Classification Using X-Rays and CT Scans with Machine Learning Techniques. Lecture Notes on Data Engineering and Communications Technologies, 2021, , 277-286.	0.5	0
1643	A Lightweight Convolutional Neural Network for Real-Time Facial Expression Detection. IEEE Access, 2021, 9, 5573-5584.	2.6	39
1644	Wi-Fi Based User Identification Using In-Air Handwritten Signature. IEEE Access, 2021, 9, 53548-53565.	2.6	5
1645	Handwritten Bangla city name word recognition using CNN-based transfer learning and FCN. Neural Computing and Applications, 2021, 33, 9329-9341.	3.2	15
1646	Detection of Common Foreign Objects on Power Grid Lines Based on Faster R-CNN Algorithm and Data Augmentation Method. Journal of Physics: Conference Series, 2021, 1746, 012039.	0.3	6
1647	Diffuse lung disease classification based on texture features and weighted extreme learning machine. Multimedia Tools and Applications, 2021, 80, 35467-35479.	2.6	3
1648	Deep Convolutional Neural Networks in Detecting Lung Mass From Chest X-Ray Images. International Journal of Applied Research in Bioinformatics, 2021, 11, 22-30.	0.8	2
1649	Vehicle Trajectory Prediction Using LSTMs With Spatial–Temporal Attention Mechanisms. IEEE Intelligent Transportation Systems Magazine, 2022, 14, 197-208.	2.6	88
1650	Skin Lesion Classification Using Deep Convolutional Neural Network and Transfer Learning Approach. Lecture Notes in Networks and Systems, 2021, , 327-335.	0.5	1
1651	Developing a Recognition System for Classifying COVID-19 Using a Convolutional Neural Network Algorithm. Computers, Materials and Continua, 2021, 68, 805-819.	1.5	25
1652	Classifier Ensemble Based on Computed Tomography Attenuation Patterns for Computer-Aided Detection System. IEEE Access, 2021, 9, 123134-123145.	2.6	8
1653	An Efficient Memristor-Based Circuit Implementation of Squeeze-and-Excitation Fully Convolutional Neural Networks. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 1779-1790.	7.2	31
1654	Classification of Synthetic Aperture Radar-Ground Range Detected Image Using Advanced Convolution Neural Networks. Remote Sensing in Earth Systems Sciences, 2021, 4, 13.	1.1	1
1655	An ensemble framework based on Deep CNNs architecture for glaucoma classification using fundus photography. Mathematical Biosciences and Engineering, 2021, 18, 5321-5346.	1.0	19

#	Article	IF	CITATIONS
1656	End-To-End Computerized Diagnosis of Spondylolisthesis Using Only Lumbar X-rays. Journal of Digital Imaging, 2021, 34, 85-95.	1.6	9
1657	From Raw Pixels to Recurrence Image for Deep Learning of Benign and Malignant Mediastinal Lymph Nodes on Computed Tomography. IEEE Access, 2021, 9, 96267-96278.	2.6	5
1658	Information Fusion Fault Diagnosis Method for Deep-Sea Human Occupied Vehicle Thruster Based on Deep Belief Network. IEEE Transactions on Cybernetics, 2022, 52, 9414-9427.	6.2	27
1659	Driving-PASS: A Driving Performance Assessment System for Stroke Drivers Using Deep Features. IEEE Access, 2021, 9, 21627-21641.	2.6	4
1660	Machine learning enables design automation of microfluidic flow-focusing droplet generation. Nature Communications, 2021, 12, 25.	5.8	94
1661	A Feature-Fusion Transfer Learning Method as a Basis to Support Automated Smartphone Recycling in a Circular Smart City. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2021, , 422-441.	0.2	4
1662	A Hybrid Deep Learning Model for Predicting Molecular Subtypes of Human Breast Cancer Using Multimodal Data. Irbm, 2022, 43, 62-74.	3.7	39
1664	Real-Time Deep Learning Face Mask Detection Model During COVID-19. Lecture Notes in Networks and Systems, 2021, , 121-131.	0.5	0
1665	Crossover Structure Separation With Application to Neuron Tracing in Volumetric Images. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-13.	2.4	2
1666	TRCLA: A Transfer Learning Approach to Reduce Negative Transfer for Cellular Learning Automata. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 2480-2489.	7.2	26
1667	Monitoring and Detecting Plant Diseases Using Cloud-Based Internet of Things. Advances in Web Technologies and Engineering Book Series, 2021, , 217-235.	0.4	2
1668	Decision-Tree-Initialized Dendritic Neuron Model for Fast and Accurate Data Classification. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 4173-4183.	7.2	28
1669	Utilizing Transfer Learning and a Customized Loss Function for Optic Disc Segmentation from Retinal Images. Lecture Notes in Computer Science, 2021, , 687-703.	1.0	1
1670	A machine learning-based framework for diagnosis of COVID-19 from chest X-ray images. Interdisciplinary Sciences, Computational Life Sciences, 2021, 13, 103-117.	2.2	129
1671	Mask R-CNN and OBIA Fusion Improves the Segmentation of Scattered Vegetation in Very High-Resolution Optical Sensors. Sensors, 2021, 21, 320.	2.1	28
1672	Replacing human interpretation of agricultural land in Afghanistan with a deep convolutional neural network. International Journal of Remote Sensing, 2021, 42, 3017-3038.	1.3	5
1673	AIM in Osteoporosis., 2021,, 1-17.		0
1674	Deep Learning in DXA Image Segmentation. Computers, Materials and Continua, 2021, 66, 2587-2598.	1.5	5

#	Article	IF	CITATIONS
1675	Lightweight Attention Module for Deep Learning on Classification and Segmentation of 3-D Point Clouds. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-12.	2.4	15
1676	Deep learning-based ambient assisted living for self-management of cardiovascular conditions. Neural Computing and Applications, 2022, 34, 10449-10467.	3.2	24
1677	Building a Scalable and Interpretable Bayesian Deep Learning Framework for Quality Control of Free Form Surfaces. IEEE Access, 2021, 9, 50188-50208.	2.6	4
1678	Automatic Facial Forgery Detection Using Deep Neural Networks. Lecture Notes in Mechanical Engineering, 2021, , 205-214.	0.3	3
1679	ACTL: Asymmetric Convolutional Transfer Learning for Tree Species Identification Based on Deep Neural Network. IEEE Access, 2021, 9, 13643-13654.	2.6	9
1680	ALBERT-Based Self-Ensemble Model With Semisupervised Learning and Data Augmentation for Clinical Semantic Textual Similarity Calculation: Algorithm Validation Study. JMIR Medical Informatics, 2021, 9, e23086.	1.3	5
1681	Quality Control and Fault Classification of Laser Welded Hairpins in Electrical Motors., 2021,,.		6
1682	Wavelet decomposition facilitates training on small datasets for medical image classification by deep learning. Histochemistry and Cell Biology, 2021, 155, 309-317.	0.8	12
1683	A Novel Approach for Finding Invasive Ductal Carcinoma Using Machine Learning. Lecture Notes in Networks and Systems, 2021, , 867-876.	0.5	0
1684	Breast Cancer Classification From Histopathological Images Using Patch-Based Deep Learning Modeling. IEEE Access, 2021, 9, 24273-24287.	2.6	93
1685	Self-supervised Approach for Urban Tree Recognition on Aerial Images. IFIP Advances in Information and Communication Technology, 2021, , 476-486.	0.5	0
1686	Improving the Performance of Convolutional Neural Networks for Image Classification. Optical Memory and Neural Networks (Information Optics), 2021, 30, 51-66.	0.4	6
1687	DeprNet: A Deep Convolution Neural Network Framework for Detecting Depression Using EEG. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-13.	2.4	100
1688	Deep Learning for Histopathological Image Analysis. , 2021, , 153-169.		3
1689	Automatic model for cervical cancer screening based on convolutional neural network: a retrospective, multicenter study. Cancer Cell International, 2021, 21, 35.	1.8	30
1690	Evaluation of transfer learning in deep convolutional neural network models for cardiac short axis slice classification. Scientific Reports, 2021, 11, 1839.	1.6	27
1691	Learning and Sharing: A Multitask Genetic Programming Approach to Image Feature Learning. IEEE Transactions on Evolutionary Computation, 2022, 26, 218-232.	7. 5	10
1692	The diagnostic value of lower glucose consumption for IDH1 mutated gliomas on FDG-PET. BMC Cancer, 2021, 21, 83.	1.1	9

#	Article	IF	CITATIONS
1693	Transformer Network for Significant Stenosis Detection in CCTA of Coronary Arteries. Lecture Notes in Computer Science, 2021, , 516-525.	1.0	14
1694	Deep Ensemble Model for Classification of Novel Coronavirus in Chest X-Ray Images. Computational Intelligence and Neuroscience, 2021, 2021, 1-17.	1.1	45
1695	A Survey on Transfer Learning for COVID-19 Medical Imaging Diagnosis. Smart Innovation, Systems and Technologies, 2021, , 377-386.	0.5	0
1696	SC-RPN: A Strong Correlation Learning Framework for Region Proposal. IEEE Transactions on Image Processing, 2021, 30, 4084-4098.	6.0	8
1697	Principled Design and Implementation of Steerable Detectors. IEEE Transactions on Image Processing, 2021, 30, 4465-4478.	6.0	2
1698	A Joint Energy and Latency Framework for Transfer Learning Over 5G Industrial Edge Networks. IEEE Transactions on Industrial Informatics, 2022, 18, 531-541.	7.2	17
1699	Feature fusion of Raman chemical imaging and digital histopathology using machine learning for prostate cancer detection. Analyst, The, 2021, 146, 4195-4211.	1.7	11
1700	Transfer learning. , 2021, , 219-233.		0
1701	Breast Cancer Classification Using Deep Convolution Neural Network with Transfer Learning. Intelligent Automation and Soft Computing, 2021, 29, 803-814.	1.6	5
1702	Biomedical Imaging Informatics. , 2021, , 299-362.		3
1703	FINE-TUNING DEEP LEARNING MODELS FOR PEDESTRIAN DETECTION. Boletim De Ciencias Geodesicas, 2021, 27, .	0.2	8
1704	A Review on Deep Learning Architecture and Methods for MRI Brain Tumour Segmentation. Current Medical Imaging, 2021, 17, 695-706.	0.4	20
1705	Automatic Reel Editing in Chip on Film Quality Control With Computer Vision. International Journal of Systems and Service-Oriented Engineering, 2021, 11, 1-14.	0.5	0
1706	An Enhanced Artificial Intelligence-Based Approach Applied to Vehicular Traffic Signs Detection and Road Safety Enhancement. Advances in Science, Technology and Engineering Systems, 2021, 6, 672-683.	0.4	6
1708	A novel transfer learning approach for the classification of histological images of colorectal cancer. Journal of Supercomputing, 2021, 77, 9494-9519.	2.4	25
1709	Technological support for detection and prediction of plant diseases: A systematic mapping study. Computers and Electronics in Agriculture, 2021, 181, 105922.	3.7	21
1710	Comparison of Intraoperative Ultrasound B-Mode and Strain Elastography for the Differentiation of Glioblastomas From Solitary Brain Metastases. An Automated Deep Learning Approach for Image Analysis. Frontiers in Oncology, 2020, 10, 590756.	1.3	16
1711	A novel method for GPR imaging based on neural networks and dictionary learning. Waves in Random and Complex Media, 2023, 33, 393-413.	1.6	5

#	Article	IF	CITATIONS
1712	Fall Detection from Electrocardiogram (ECG) Signals and Classification by Deep Transfer Learning. Information (Switzerland), 2021, 12, 63.	1.7	14
1713	R-JaunLab: Automatic Multi-Class Recognition of Jaundice on Photos of Subjects with Region Annotation Networks. Journal of Digital Imaging, 2021, 34, 337-350.	1.6	5
1714	Deep neural networks with promising diagnostic accuracy for the classification of atypical femoral fractures. Monthly Notices of the Royal Astronomical Society: Letters, 2021, 92, 394-400.	1.2	7
1715	Long Short-Term Memory-Based Human-Driven Vehicle Longitudinal Trajectory Prediction in a Connected and Autonomous Vehicle Environment. Transportation Research Record, 2021, 2675, 380-390.	1.0	14
1717	EnCNN-UPMWS: Waste Classification by a CNN Ensemble Using the UPM Weighting Strategy. Electronics (Switzerland), 2021, 10, 427.	1.8	12
1718	Improved optic disc and cup segmentation in Glaucomatic images using deep learning architecture. Multimedia Tools and Applications, 2021, 80, 30143-30163.	2.6	10
1719	Intelligent IoT systems for civil infrastructure health monitoring: a research roadmap. Discover Internet of Things, 2021, 1, 1.	3.3	18
1720	Multimodal deep learning models for early detection of Alzheimer's disease stage. Scientific Reports, 2021, 11, 3254.	1.6	243
1721	DeepHaul: a deep learning and reinforcement learning-based smart automation framework for dump trucks. Progress in Artificial Intelligence, 2021, 10, 157-180.	1.5	9
1722	Open-pit Mining Area Segmentation of Remote Sensing Images Based on DUSegNet. Journal of the Indian Society of Remote Sensing, 2021, 49, 1257-1270.	1.2	21
1723	Classification of COVID-19 pneumonia from chest CT images based on reconstructed super-resolution images and VGG neural network. Health Information Science and Systems, 2021, 9, 10.	3.4	31
1724	A-DenseUNet: Adaptive Densely Connected UNet for Polyp Segmentation in Colonoscopy Images with Atrous Convolution. Sensors, 2021, 21, 1441.	2.1	40
1725	Novel Analgesic Index for Postoperative Pain Assessment Based on a Photoplethysmographic Spectrogram and Convolutional Neural Network: Observational Study. Journal of Medical Internet Research, 2021, 23, e23920.	2.1	7
1726	Unsupervised Deep Anomaly Detection in Chest Radiographs. Journal of Digital Imaging, 2021, 34, 418-427.	1.6	40
1727	Lung cancer classification with Convolutional Neural Network Architectures. Qubahan Academic Journal, 2021, 1, 33-39.	2.6	5
1728	Brain Tumor Detection and Classification by Hybrid CNN-DWA Model Using MR Images. Current Medical Imaging, 2021, 17, 1248-1255.	0.4	14
1729	Robust deep learning seismic inversion with <i>a priori </i> ii initial model constraint. Geophysical Journal International, 2021, 225, 2001-2019.	1.0	42
1730	Interpretation and visualization techniques for deep learning models in medical imaging. Physics in Medicine and Biology, 2021, 66, 04TR01.	1.6	59

#	Article	IF	CITATIONS
1731	Prospective Methodologies in Hybrid Renewable Energy Systems for Energy Prediction Using Artificial Neural Networks. Sustainability, 2021, 13, 2393.	1.6	62
1732	Pneumonia lung opacity detection and segmentation in chest x-rays by using transfer learning of the Mask R-CNN., 2021,,.		1
1733	Detection of Aortic Valve Using Deep Learning Approaches. , 2021, , .		1
1734	Machine Learning of Bone Marrow Histopathology Identifies Genetic and Clinical Determinants in Patients with MDS. Blood Cancer Discovery, 2021, 2, 238-249.	2.6	25
1735	Discovery of Hybrid Ensemble Models Resilient to Input Resolution Deterioration., 2021,,.		2
1736	Video Fluency Prediction Based on Network Features Using Deep Learning. , 2021, , .		O
1737	Deep Transfer Learning for Automated Intestinal Bleeding Detection in Capsule Endoscopy Imaging. Journal of Digital Imaging, 2021, 34, 404-417.	1.6	30
1738	Revisiting animal photoâ€identification using deep metric learning and network analysis. Methods in Ecology and Evolution, 2021, 12, 863-873.	2.2	14
1739	Using the Boruta algorithm and deep learning models for mapping land susceptibility to atmospheric dust emissions in Iran. Aeolian Research, 2021, 50, 100682.	1.1	37
1740	Mid-term electricity load prediction using CNN and Bi-LSTM. Journal of Supercomputing, 2021, 77, 10942-10958.	2.4	28
1741	Covid-19 Diagnosis Based on CT Images Using Pre-Trained Models. , 2021, , .		3
1742	Improved detection of air trapping on expiratory computed tomography using deep learning. PLoS ONE, 2021, 16, e0248902.	1.1	13
1743	Automated identification of clinical features from sparsely annotated 3-dimensional medical imaging. Npj Digital Medicine, 2021, 4, 44.	5.7	16
1744	Exploring Deep Learning for Dig-Limit Optimization in Open-Pit Mines. Natural Resources Research, 2021, 30, 2085-2101.	2.2	12
1745	Colon cancer prediction on histological images using deep learning features and Bayesian optimized SVM. Journal of Intelligent and Fuzzy Systems, 2021, 41, 5275-5286.	0.8	32
1746	Deep convolutional neural network: a novel approach for the detection of Aspergillus fungi via stereomicroscopy. Journal of Microbiology, 2021, 59, 563-572.	1.3	9
1747	Electrocardiogram screening for aortic valve stenosis using artificial intelligence. European Heart Journal, 2021, 42, 2885-2896.	1.0	95
1748	Computer-aided diagnosis of ground glass pulmonary nodule by fusing deep learning and radiomics features. Physics in Medicine and Biology, 2021, 66, 065015.	1.6	22

#	Article	IF	CITATIONS
1749	Bag-of-Visual-Words codebook generation using deep features for effective classification of imbalanced multi-class image datasets. Multimedia Tools and Applications, 2021, 80, 20821-20847.	2.6	14
1750	Endâ€toâ€end domain knowledgeâ€assisted automatic diagnosis of idiopathic pulmonary fibrosis (IPF) using computed tomography (CT). Medical Physics, 2021, 48, 2458-2467.	1.6	3
1751	A comparison of two deep-learning-based urban perception models: which one is better?. Computational Urban Science, 2021, 1, 1.	1.9	9
1752	Regional-scale landslide risk assessment on Mt. Umyeon using risk index estimation. Landslides, 2021, 18, 2547-2564.	2.7	14
1753	Automated analysis of rabbit knee calcified cartilage morphology using microâ€computed tomography and deep learning. Journal of Anatomy, 2021, 239, 251-263.	0.9	10
1754	A deep learning model using data augmentation for detection of architectural distortion in whole and patches of images. Biomedical Signal Processing and Control, 2021, 65, 102366.	3.5	44
1755	HN-CNN: A Heterogeneous Network Based on Convolutional Neural Network for m7 G Site Disease Association Prediction. Frontiers in Genetics, 2021, 12, 655284.	1.1	9
1757	An Automatic Identification Method for the Blink Artifacts in the Magnetoencephalography with Machine Learning. Applied Sciences (Switzerland), 2021, 11, 2415.	1.3	3
1758	Determining the invasiveness of ground-glass nodules using a 3D multi-task network. European Radiology, 2021, 31, 7162-7171.	2.3	9
1759	Identification of Surface Deformation in InSAR Using Machine Learning. Geochemistry, Geophysics, Geosystems, 2021, 22, e2020GC009204.	1.0	26
1760	Classification of Prostate Transitional Zone Cancer and Hyperplasia Using Deep Transfer Learning From Disease-Related Images. Cureus, 2021, 13, e14108.	0.2	4
1761	Deep learning-based improved snapshot ensemble technique for COVID-19 chest X-ray classification. Applied Intelligence, 2021, 51, 3104-3120.	3.3	24
1762	An Ensemble of Deep Semantic Representation for Medical X-ray Image Classification., 2021,,.		1
1763	Relating brain structure images to personality characteristics using 3D convolution neural network. CAAI Transactions on Intelligence Technology, 2021, 6, 338-346.	3.4	3
1764	Robust pixel-wise concrete crack segmentation and properties retrieval using image patches. Automation in Construction, 2021, 123, 103535.	4.8	20
1765	Efficient network selection for computer-aided cataract diagnosis under noisy environment. Computer Methods and Programs in Biomedicine, 2021, 200, 105927.	2.6	12
1766	Early Ductal Carcinoma Revealing in Mammography Images Using Machine Learning., 2021,,.		1
1767	Disease prediction based retinal segmentation using bi-directional ConvLSTMU-Net. Journal of Ambient Intelligence and Humanized Computing, 0, , $1.$	3.3	14

#	Article	IF	CITATIONS
1768	Deep Learning-Based Congestion Detection at Urban Intersections. Sensors, 2021, 21, 2052.	2.1	5
1769	An Overview of Current Trends, Techniques, Prospects, and Pitfalls of Artificial Intelligence in Breast Imaging. Reports in Medical Imaging, 0, Volume 14, 15-25.	0.8	5
1770	Deep Neural Networks for Analysis of Microscopy Imagesâ€"Synthetic Data Generation and Adaptive Sampling. Crystals, 2021, 11, 258.	1.0	15
1771	Artificial intelligence and machine learning for medical imaging: A technology review. Physica Medica, 2021, 83, 242-256.	0.4	135
1772	Cognitive simulation models for inertial confinement fusion: Combining simulation and experimental data. Physics of Plasmas, 2021, 28, .	0.7	15
1773	Distinguishing retinal angiomatous proliferation from polypoidal choroidal vasculopathy with a deep neural network based on optical coherence tomography. Scientific Reports, 2021, 11, 9275.	1.6	14
1774	Prostate cancer detection based on deep convolutional neural networks and support vector machines:Âa novel concern level analysis. Multimedia Tools and Applications, 2021, 80, 24995.	2.6	7
1775	Improving Prostate Whole Gland Segmentation In T2-Weighted MRI With Synthetically Generated Data. , 2021, , .		10
1776	Automatic land cover classification of multi-resolution dualpol data using convolutional neural network (CNN). Remote Sensing Applications: Society and Environment, 2021, 22, 100491.	0.8	6
1777	Development of machine learning model for diagnostic disease prediction based on laboratory tests. Scientific Reports, 2021, 11, 7567.	1.6	51
1778	A survey on incorporating domain knowledge into deep learning for medical image analysis. Medical Image Analysis, 2021, 69, 101985.	7.0	128
1779	Artificial neural networks combined multi-wavelength transmission spectrum feature extraction for sensitive identification of waterborne bacteria. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2021, 251, 119423.	2.0	11
1780	Semi-supervised learning for an improved diagnosis of COVID-19 in CT images. PLoS ONE, 2021, 16, e0249450.	1.1	12
1781	Recent Applications of Artificial Intelligence in the Detection of Gastrointestinal, Hepatic and Pancreatic Diseases. Current Medicinal Chemistry, 2022, 29, 66-85.	1.2	7
1782	Follow-up and Diagnose COVID-19 Using Deep Learning Technique. Advances in Science, Technology and Engineering Systems, 2021, 6, 971-976.	0.4	0
1783	DepHNN: A novel hybrid neural network for electroencephalogram (EEG)-based screening of depression. Biomedical Signal Processing and Control, 2021, 66, 102393.	3.5	84
1784	Landslide spatial probability prediction: a comparative assessment of $na\tilde{A}^-ve$ Bayes, ensemble learning, and deep learning approaches. Bulletin of Engineering Geology and the Environment, 2021, 80, 4291-4321.	1.6	17
1785	Robust White Matter Hyperintensity Segmentation On Unseen Domain., 2021, 2021, 1047-1051.		5

#	Article	IF	Citations
1786	Using ResNets to perform automated defect detection for Fluorescent Penetrant Inspection. NDT and E International, 2021, 119, 102400.	1.7	24
1787	A Transfer Learning Approach for Early Diagnosis of Alzheimer's Disease on MRI Images. Neuroscience, 2021, 460, 43-52.	1.1	121
1788	Transfer learning and wavelength selection method in NIR spectroscopy to predict glucose and lactate concentrations in culture media using VIPâ€Boruta. Analytical Science Advances, 2021, 2, 470-479.	1.2	5
1789	The Role and Impact of Deep Learning Methods in Computer-Aided Diagnosis Using Gastrointestinal Endoscopy. Diagnostics, 2021, 11, 694.	1.3	12
1790	Application of deep learning in image recognition and diagnosis of gastric cancer. Artificial Intelligence in Gastrointestinal Endoscopy, 2021, 2, 12-24.	0.2	1
1791	Emergent Symbolic Language Based Deep Medical Image Classification. , 2021, , .		0
1792	Intelligent Health Care: Applications of Deep Learning in Computational Medicine. Frontiers in Genetics, 2021, 12, 607471.	1.1	40
1793	Automatic classification of heterogeneous slit-illumination images using an ensemble of cost-sensitive convolutional neural networks. Annals of Translational Medicine, 2021, 9, 550-550.	0.7	8
1794	A Comparative Study of Various Human Activity Recognition Approaches. IOP Conference Series: Materials Science and Engineering, 2021, 1131, 012004.	0.3	1
1795	A multi-branch deep convolutional fusion architecture for 3D microwave inverse scattering: stored grain application. Neural Computing and Applications, 2021, 33, 13467-13479.	3.2	7
1796	On the Scale Invariance in State of the Art CNNs Trained on ImageNet. Machine Learning and Knowledge Extraction, 2021, 3, 374-391.	3.2	15
1797	Checkbox Detection on Rwandan Perioperative Flowsheets using Convolutional Neural Network. , 2021, , .		2
1798	A deepâ€learningâ€based workflow to assess taxonomic affinity of hominid teeth with a test on discriminating Pongo and Homo upper molars. American Journal of Physical Anthropology, 2021, 175, 931-942.	2.1	2
1799	A new CNN architecture for efficient classification of ultrasound breast tumor images with activation map clustering based prediction validation. Medical and Biological Engineering and Computing, 2021, 59, 957-968.	1.6	5
1800	Transfer Learning in Magnetic Resonance Brain Imaging: A Systematic Review. Journal of Imaging, 2021, 7, 66.	1.7	56
1801	Survey on using deep learning to detection COVID-19 disease. , 2021, , .		2
1802	Contrast-Attentive Thoracic Disease Recognition With Dual-Weighting Graph Reasoning. IEEE Transactions on Medical Imaging, 2021, 40, 1196-1206.	5.4	25
1803	Compound Fault Diagnosis for Gearbox Based Using of Euclidean Matrix Sample Entropy and One-Dimensional Convolutional Neural Network. Shock and Vibration, 2021, 2021, 1-26.	0.3	1

#	Article	IF	CITATIONS
1804	A Supply Chain Information Pushing Method for Logistics Park Based on Internet of Things Technology. Mobile Information Systems, 2021, 2021, 1-11.	0.4	5
1805	Fast vertex-based graph convolutional neural network and its application to brain images. Neurocomputing, 2021, 434, 1-10.	3. 5	3
1806	Mid-infrared spectra feature extraction and visualization by convolutional neural network for sugar adulteration identification of honey and real-world application. LWT - Food Science and Technology, 2021, 140, 110856.	2.5	20
1807	Smart dispatching and optimal elevator group control through real-time occupancy-aware deep learning of usage patterns. Advanced Engineering Informatics, 2021, 48, 101286.	4.0	10
1808	Pneumonia Detection Using Deep Learning Algorithms. , 2021, , .		5
1809	A novel augmented deep transfer learning for classification of COVID-19 and other thoracic diseases from X-rays. Neural Computing and Applications, 2021, 33, 14037-14048.	3.2	17
1810	Application of Artificial Intelligence techniques for the detection of Alzheimer's disease using structural MRI images. Biocybernetics and Biomedical Engineering, 2021, 41, 456-473.	3.3	42
1811	Medical image analysis based on deep learning approach. Multimedia Tools and Applications, 2021, 80, 1-34.	2.6	106
1812	Artificial Intelligence in Colorectal Cancer Screening, Diagnosis and Treatment. A New Era. Current Oncology, 2021, 28, 1581-1607.	0.9	78
1813	Does non-COVID-19 lung lesion help? investigating transferability in COVID-19 CT image segmentation. Computer Methods and Programs in Biomedicine, 2021, 202, 106004.	2.6	38
1814	Tens of images can suffice to train neural networks for malignant leukocyte detection. Scientific Reports, 2021, 11, 7995.	1.6	15
1815	The Reconstruction of Magnetic Particle Imaging: Current Approaches Based on the System Matrix. Diagnostics, 2021, 11, 773.	1.3	11
1816	Study protocol and design for the assessment of paediatric pneumonia from X-ray images using deep learning. BMJ Open, 2021, 11, e044461.	0.8	4
1817	Prospective assessment of breast cancer risk from multimodal multiview ultrasound images via clinically applicable deep learning. Nature Biomedical Engineering, 2021, 5, 522-532.	11.6	109
1818	Full Reproduction of Surface Dynamometer Card Based on Periodic Electric Current Data. SPE Production and Operations, 2021, , 1-10.	0.4	1
1819	Fully neural object detection solutions for robot soccer. Neural Computing and Applications, 0 , , 1 .	3.2	7
1820	Quantitative characterization of human breast tissue based on deep learning segmentation of 3D optical coherence tomography images. Biomedical Optics Express, 2021, 12, 2647.	1.5	7
1821	Multiclass classification of metabolic conditions using fasting plasma levels of glucose and insulin. Health and Technology, 2021, 11, 953-962.	2.1	3

#	Article	IF	CITATIONS
1823	Convolutional neural network and transfer learning for dose volume histogram prediction for prostate cancer radiotherapy. Medical Dosimetry, 2021, 46, 335-341.	0.4	3
1824	Deep learning for detection of radiographic sacroiliitis: achieving expert-level performance. Arthritis Research and Therapy, 2021, 23, 106.	1.6	37
1825	Detection of liver cirrhosis in standard T2-weighted MRI using deep transfer learning. European Radiology, 2021, 31, 8807-8815.	2.3	21
1826	Artificial intelligence improves the accuracy of residents in the diagnosis of hip fractures: a multicenter study. BMC Musculoskeletal Disorders, 2021, 22, 407.	0.8	21
1827	Reducing False-Positives in Lung Nodules Detection Using Balanced Datasets. Frontiers in Public Health, 2021, 9, 671070.	1.3	8
1828	Face Mask Wearing Detection Algorithm Based on Improved YOLO-v4. Sensors, 2021, 21, 3263.	2.1	160
1829	Evaluation of Three Machine Learning Algorithms for the Automatic Classification of EMG Patterns in Gait Disorders. Frontiers in Neurology, 2021, 12, 666458.	1.1	24
1830	Transfer learning-assisted multi-resolution breast cancer histopathological images classification. Visual Computer, 2022, 38, 2751-2770.	2.5	41
1831	Recurrent feature fusion learning for multi-modality pet-ct tumor segmentation. Computer Methods and Programs in Biomedicine, 2021, 203, 106043.	2.6	24
1832	Applications of Machine Learning in Digital Forensics. , 2021, , .		7
1833	Improving the Generalizability of Infantile Cataracts Detection via Deep Learning-Based Lens Partition Strategy and Multicenter Datasets. Frontiers in Medicine, 2021, 8, 664023.	1.2	6
1834	Artificial neural networks as clinical decision support systems. Concurrency Computation Practice and Experience, 2021, 33, e6342.	1.4	5
1835	Performance of Deep Learning Methods in DF Based Cooperative Communication Systems., 2021,,.		2
1836	JellyNet: The convolutional neural network jellyfish bloom detector. International Journal of Applied Earth Observation and Geoinformation, 2021, 97, 102279.	1.4	8
1837	Network Traffic Anomaly Detection via Deep Learning. Information (Switzerland), 2021, 12, 215.	1.7	19
1838	An Ensemble One Dimensional Convolutional Neural Network with Bayesian Optimization for Environmental Sound Classification. Applied Sciences (Switzerland), 2021, 11, 4660.	1.3	19
1839	Deep neural networkâ€based detection of pilgrims location in Holy Makkah. International Journal of Communication Systems, 0, , e4792.	1.6	0
1840	Development of a high-throughput plant disease symptom severity assessment tool using machine learning image analysis and integrated geolocation. Computers and Electronics in Agriculture, 2021, 184, 106089.	3.7	20

#	Article	IF	CITATIONS
1841	Improved Classification of Benign and Malignant Breast Lesions Using Deep Feature Maximum Intensity Projection MRI in Breast Cancer Diagnosis Using Dynamic Contrast-enhanced MRI. Radiology: Artificial Intelligence, 2021, 3, e200159.	3.0	27
1842	Research on Artificial Intelligence Interaction in Computer-Aided Arts and Crafts. Mobile Information Systems, 2021, 2021, 1-14.	0.4	9
1843	Effective Survey on Detection and Classification of COVID-19 Suspected Individual Using CT scan Images. International Journal of Scientific Research in Computer Science Engineering and Information Technology, 2021, , 294-299.	0.2	0
1844	Artificial intelligence in digital cariology: a new tool for the diagnosis of deep caries and pulpitis using convolutional neural networks. Annals of Translational Medicine, 2021, 9, 763-763.	0.7	29
1845	Fine-Tuning and training of densenet for histopathology image representation using TCGA diagnostic slides. Medical Image Analysis, 2021, 70, 102032.	7.0	80
1846	A hybrid deep learning approach for gland segmentation in prostate histopathological images. Artificial Intelligence in Medicine, 2021, 115, 102076.	3.8	31
1847	XbNN: Enabling CNNs on Edge Devices by Approximate On-Chip Dot Product Encoding. , 2021, , .		4
1848	Role of machine learning in medical research: A survey. Computer Science Review, 2021, 40, 100370.	10.2	78
1849	The development of skin lesion detection application in smart handheld devices using deep neural networks. Multimedia Tools and Applications, 2022, 81, 41579-41610.	2.6	5
1850	Discriminating the single-cell gene regulatory networks of human pancreatic islets: A novel deep learning application. Computers in Biology and Medicine, 2021, 132, 104257.	3.9	11
1851	Deep Learning Model for Pathogen Classification Using Feature Fusion and Data Augmentation. Current Bioinformatics, 2021, 16, 466-483.	0.7	10
1852	Deep learning for diagnosis of precancerous lesions in upper gastrointestinal endoscopy: A review. World Journal of Gastroenterology, 2021, 27, 2531-2544.	1.4	13
1853	Survey on the Application of Deep Learning in Extreme Weather Prediction. Atmosphere, 2021, 12, 661.	1.0	16
1854	MVFNet: A multi-view fusion network for pain intensity assessment in unconstrained environment. Biomedical Signal Processing and Control, 2021, 67, 102537.	3.5	8
1855	2-step deep learning model for landmarks localization in spine radiographs. Scientific Reports, 2021, 11, 9482.	1.6	19
1856	Light-YOLOv3: License Plate Detection in Multi-Vehicle Scenario. IEICE Transactions on Information and Systems, 2021, E104.D, 723-728.	0.4	3
1857	Multi-Modal Multi-Stream UNET Model for Liver Segmentation. , 2021, , .		2
1859	Preterm Newborn Presence Detection in Incubator and Open Bed Using Deep Transfer Learning. IEEE Journal of Biomedical and Health Informatics, 2021, 25, 1419-1428.	3.9	5

#	Article	IF	CITATIONS
1860	How Reduced Data Precision and Degree of Parallelism Impact the Reliability of Convolutional Neural Networks on FPGAs. IEEE Transactions on Nuclear Science, 2021, 68, 865-872.	1.2	22
1861	Modeling an effectual multiâ€section You Only Look Once for enhancing lung cancer prediction. International Journal of Imaging Systems and Technology, 2021, 31, 2144-2157.	2.7	5
1862	Developing a Recognition System for Diagnosing Melanoma Skin Lesions Using Artificial Intelligence Algorithms. Computational and Mathematical Methods in Medicine, 2021, 2021, 1-20.	0.7	26
1864	CNN based classification of motor imaginary using variational mode decomposed EEG-spectrum image. Biomedical Engineering Letters, 2021, 11, 235-247.	2.1	30
1865	Accurate Tumor Segmentation via Octave Convolution Neural Network. Frontiers in Medicine, 2021, 8, 653913.	1.2	8
1866	A Review of Deep Learning in Medical Imaging: Imaging Traits, Technology Trends, Case Studies With Progress Highlights, and Future Promises. Proceedings of the IEEE, 2021, 109, 820-838.	16.4	339
1867	Deep learning design for benign and malignant classification of skin lesions: a new approach. Multimedia Tools and Applications, 2021, 80, 26795-26811.	2.6	7
1868	Deep Learning for Ultrasonic Crack Characterization in NDE. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2021, 68, 1854-1865.	1.7	60
1869	Convolutional Neural Network to Stratify the Malignancy Risk of Thyroid Nodules: Diagnostic Performance Compared with the American College of Radiology Thyroid Imaging Reporting and Data System Implemented by Experienced Radiologists. American Journal of Neuroradiology, 2021, 42, 1513-1519.	1.2	11
1870	A Circular Target Feature Detection Framework Based on DCNN for Industrial Applications. IEEE Transactions on Industrial Informatics, 2021, 17, 3303-3313.	7.2	10
1871	Machine Learning and Radiomics Applications in Esophageal Cancers Using Non-Invasive Imaging Methodsâ€"A Critical Review of Literature. Cancers, 2021, 13, 2469.	1.7	16
1872	Automatic classification of solitary pulmonary nodules in PET/CT imaging employing transfer learning techniques. Medical and Biological Engineering and Computing, 2021, 59, 1299-1310.	1.6	17
1873	<scp>Brain–computer</scp> interfaceâ€based target recognition system using transfer learning: A deep learning approach. Computational Intelligence, 2022, 38, 139-155.	2.1	7
1874	A machine learning method for defect detection and visualization in selective laser sintering based on convolutional neural networks. Additive Manufacturing, 2021, 41, 101965.	1.7	50
1875	Automatic diagnosis of common carotid artery disease using different machine learning techniques. Journal of Ambient Intelligence and Humanized Computing, 2023, 14, 113-129.	3.3	5
1876	COVID-19 Diagnosis in Chest X-ray Images by Combining Pre-trained CNN Models with Flat and Hierarchical Classification Approaches. , 2021, , .		2
1877	Pattern classification for breast lesion on FFDM by integration of radiomics and deep features. Computerized Medical Imaging and Graphics, 2021, 90, 101922.	3.5	2
1878	Integrating ECG Monitoring and Classification via IoT and Deep Neural Networks. Biosensors, 2021, 11, 188.	2.3	15

#	Article	IF	Citations
1879	Deep Learning Algorithm to Detect Cardiac Sarcoidosis From Echocardiographic Movies. Circulation Journal, 2021, 86, 87-95.	0.7	16
1880	A Semi-Automatic Step-by-Step Expert-Guided LI-RADS Grading System Based on Gadoxetic Acid-Enhanced MRI. Journal of Hepatocellular Carcinoma, 2021, Volume 8, 671-683.	1.8	4
1881	Histopathological Transfer Learning for Acute Lymphoblastic Leukemia Detection., 2021,,.		19
1882	Brain Tumor Classification Using Pretrained Convolutional Neural Networks. , 2021, , .		2
1883	Deep Learning Transfer with AlexNet for chest X-ray COVID-19 recognition. IEEE Latin America Transactions, 2021, 19, 944-951.	1,2	21
1884	Knowledge transfer for adapting pre-trained deep neural models to predict different greenhouse environments based on a low quantity of data. Computers and Electronics in Agriculture, 2021, 185, 106136.	3.7	13
1885	A spectrogram image based intelligent technique for automatic detection of autism spectrum disorder from EEG. PLoS ONE, 2021, 16, e0253094.	1,1	53
1886	Computer-aided diagnosis system for the classification of multi-class kidney abnormalities in the noisy ultrasound images. Computer Methods and Programs in Biomedicine, 2021, 205, 106071.	2.6	27
1887	Leveraging Machine Learning and Artificial Intelligence to Improve Peripheral Artery Disease Detection, Treatment, and Outcomes. Circulation Research, 2021, 128, 1833-1850.	2.0	54
1888	Investigation of clinical target volume segmentation for whole breast irradiation using three-dimensional convolutional neural networks with gradient-weighted class activation mapping. Radiological Physics and Technology, 2021, 14, 238-247.	1.0	5
1889	Automated detection of cervical ossification of the posterior longitudinal ligament in plain lateral radiographs of the cervical spine using a convolutional neural network. Scientific Reports, 2021, 11, 12702.	1.6	5
1890	Automatic defect detection and segmentation of tunnel surface using modified Mask R-CNN. Measurement: Journal of the International Measurement Confederation, 2021, 178, 109316.	2.5	89
1891	Pneumoconiosis identification in chest X-ray films with CNN-based transfer learning. CCF Transactions on High Performance Computing, 2021, 3, 186-200.	1.1	6
1892	Deep learning-based classification of blue light cystoscopy imaging during transurethral resection of bladder tumors. Scientific Reports, 2021, 11, 11629.	1.6	28
1893	Towards radiologist-level cancer risk assessment in CT lung screening using deep learning. Computerized Medical Imaging and Graphics, 2021, 90, 101883.	3.5	23
1894	Intra-domain task-adaptive transfer learning to determine acute ischemic stroke onset time. Computerized Medical Imaging and Graphics, 2021, 90, 101926.	3.5	14
1895	A novel pavement transverse cracks detection model using WT-CNN and STFT-CNN for smartphone data analysis. International Journal of Pavement Engineering, 2022, 23, 4372-4384.	2.2	33
1897	Sentinel-2 Remote Sensed Image Classification with Patchwise Trained ConvNets for Grassland Habitat Discrimination. Remote Sensing, 2021, 13, 2276.	1.8	6

#	Article	IF	CITATIONS
1898	Intervertebral disc instance segmentation using a multistage optimization mask-RCNN (MOM-RCNN). Journal of Computational Design and Engineering, 2021, 8, 1023-1036.	1.5	19
1899	Data Evaluation and Enhancement for Quality Improvement of Machine Learning. IEEE Transactions on Reliability, 2021, 70, 831-847.	3.5	35
1900	Multi-channel multi-task deep learning for predicting EGFR and KRAS mutations of non-small cell lung cancer on CT images. Quantitative Imaging in Medicine and Surgery, 2021, 11, 2354-2375.	1.1	18
1901	Computational representations of protein–ligand interfaces for structure-based virtual screening. Expert Opinion on Drug Discovery, 2021, 16, 1175-1192.	2.5	10
1902	TabCellNet: Deep learning-based tabular cell structure detection. Neurocomputing, 2021, 440, 12-23.	3.5	5
1903	A High Accuracy Electrographic Seizure Classifier Trained Using Semi-Supervised Labeling Applied to a Large Spectrogram Dataset. Frontiers in Neuroscience, 2021, 15, 667373.	1.4	6
1904	Introduction of human-centric AI assistant to aid radiologists for multimodal breast image classification. International Journal of Human Computer Studies, 2021, 150, 102607.	3.7	45
1905	Silvi-Net $\hat{a} \in \mathbb{C}$ A dual-CNN approach for combined classification of tree species and standing dead trees from remote sensing data. International Journal of Applied Earth Observation and Geoinformation, 2021, 98, 102292.	1.4	14
1906	Classification of Handcrafted Image Features for Integrated Deep Learning. , 2021, , .		0
1907	Predict industrial equipment failure with time windows and transfer learning. Applied Intelligence, 2022, 52, 2346-2358.	3.3	2
1908	A deep-learning based artificial intelligence (AI) approach for differentiation of clear cell renal cell carcinoma from oncocytoma on multi-phasic MRI. Clinical Imaging, 2021, 77, 291-298.	0.8	25
1909	Vision-based human activity recognition for reducing building energy demand. Building Services Engineering Research and Technology, 2021, 42, 691-713.	0.9	9
1911	Intelligent fault diagnosis for rotating machinery based on potential energy feature and adaptive transfer affinity propagation clustering. Measurement Science and Technology, 2021, 32, 094012.	1.4	2
1912	An Efficient Machine Learning Based Image Encryption Scheme for Medical Image Security. Journal of Medical Imaging and Health Informatics, 2021, 11, 1533-1540.	0.2	6
1913	Learning Melanocytic Proliferation Segmentation in Histopathology Images from Imperfect Annotations. , 2021, , .		7
1914	Convolutional neural Network-XGBoost for accuracy enhancement of breast cancer detection. Journal of Physics: Conference Series, 2021, 1918, 042016.	0.3	1
1915	Video analysis for the detection of animals using convolutional neural networks and consumer-grade drones. Journal of Unmanned Vehicle Systems, 2021, 9, 112-127.	0.6	10
1916	Aerial Thermal Image based Convolutional Neural Networks for Human Detection in SubT Environments., 2021,,.		O

#	Article	IF	CITATIONS
1917	Combining microfluidics with machine learning algorithms for RBC classification in rare hereditary hemolytic anemia. Scientific Reports, 2021, 11, 13553.	1.6	33
1918	Diagnostic method based DL approach to detect the lack of elements from the leaves of diseased plants. International Journal of Hybrid Intelligent Systems, 2021, 17, 33-42.	0.9	3
1919	Detecting the target of sarcasm is hard: Really??. Information Processing and Management, 2021, 58, 102599.	5 . 4	10
1920	Review of Deep Learning Based Automatic Segmentation for Lung Cancer Radiotherapy. Frontiers in Oncology, 2021, 11, 717039.	1.3	42
1921	Deep learning for segmentation in radiation therapy planning: a review. Journal of Medical Imaging and Radiation Oncology, 2021, 65, 578-595.	0.9	40
1922	A Systematic Literature Review on Transfer Learning for 3D-CNNs. , 2021, , .		6
1923	Detecting lumbar lesions in ^{99m} Tcâ€MDP SPECT by deep learning: Comparison with physicians. Medical Physics, 2021, 48, 4249-4261.	1.6	3
1924	Confocal Laser Microscopy for in vivo Intraoperative Application: Diagnostic Accuracy of Investigator and Machine Learning Strategies. Visceral Medicine, 2021, 37, 533-541.	0.5	3
1925	Keratoconus detection of changes using deep learning of colour-coded maps. BMJ Open Ophthalmology, 2021, 6, e000824.	0.8	26
1926	Diagnosis and Analysis of Tuberculosis Disease Using Simple Neural Network and Deep Learning Approach for Chest X-Ray Images. Intelligent Systems Reference Library, 2022, , 77-102.	1.0	1
1927	A diagnostic method of high myopia based on transfer learning. Journal of Physics: Conference Series, 2021, 1976, 012031.	0.3	0
1928	Fully Automated Colorimetric Analysis of the Optic Nerve Aided by Deep Learning and Its Association with Perimetry and OCT for the Study of Glaucoma. Journal of Clinical Medicine, 2021, 10, 3231.	1.0	13
1929	A Novel Web Platform for COVID-19 diagnosis using X-Ray exams and Deep Learning Techniques., 2021,,.		2
1930	Sequential Data Imputation with Evolving Generative Adversarial Networks. , 2021, , .		2
1931	Transfer Component Analysis for Compensation of Temperature Effects on the Impedance-Based Structural Health Monitoring. Journal of Nondestructive Evaluation, 2021, 40, 1.	1.1	11
1932	Automated rail surface crack analytics using deep data-driven models and transfer learning. Sustainable Cities and Society, 2021, 70, 102898.	5.1	30
1933	Towards smart optical focusing: deep learning-empowered dynamic wavefront shaping through nonstationary scattering media. Photonics Research, 2021, 9, B262.	3.4	30
1934	Deep learning radiomics-based prediction of distant metastasis in patients with locally advanced rectal cancer after neoadjuvant chemoradiotherapy: A multicentre study. EBioMedicine, 2021, 69, 103442.	2.7	49

#	Article	IF	CITATIONS
1935	TheLNet270v1 – A Novel Deep-Network Architecture for the Automatic Classification of Thermal Images for Greenhouse Plants. Frontiers in Plant Science, 2021, 12, 630425.	1.7	5
1936	Detecting brain tumors using deep learning convolutional neural network with transfer learning approach. International Journal of Imaging Systems and Technology, 2022, 32, 307-323.	2.7	23
1937	Automatic left ventricular cavity segmentation via deep spatial sequential network in 4D computed tomography. Computerized Medical Imaging and Graphics, 2021, 91, 101952.	3.5	6
1938	A Deep Detection Network Based on Interaction of Instance Segmentation and Object Detection for SAR Images. Remote Sensing, 2021, 13, 2582.	1.8	40
1939	Convolutional Neural Networks–Based Model for Automated Sewer Defects Detection and Classification. Journal of Water Resources Planning and Management - ASCE, 2021, 147, .	1.3	15
1940	Automatic Detection of Covid-19 with Bidirectional LSTM Network Using Deep Features Extracted from Chest X-ray Images. Interdisciplinary Sciences, Computational Life Sciences, 2021, , 1.	2.2	6
1941	Artificial Intelligence for Interstitial Lung Disease Analysis on Chest Computed Tomography: A Systematic Review. Academic Radiology, 2022, 29, S226-S235.	1.3	29
1942	Al-enabled Enterprise Information Systems for Manufacturing. Enterprise Information Systems, 2022, 16, 668-720.	3.3	25
1943	Deep Learning Application for Analyzing of Constituents and Their Correlations in the Interpretations of Medical Images. Diagnostics, 2021, 11, 1373.	1.3	7
1945	Application of deep learning technique to the sea surface height prediction in the South China Sea. Acta Oceanologica Sinica, 2021, 40, 68-76.	0.4	10
1946	Development of U-Net Breast Density Segmentation Method for Fat-Sat MR Images Using Transfer Learning Based on Non-Fat-Sat Model. Journal of Digital Imaging, 2021, 34, 877-887.	1.6	11
1947	Transfer Learning Application for Berries Yield Forecasting using Deep Learning. , 2021, , .		0
1948	Deep learning based efficient epileptic seizure prediction with EEG channel optimization. Biomedical Signal Processing and Control, 2021, 68, 102767.	3.5	57
1949	Deep learning model for distinguishing novel coronavirus from other chest related infections in X-ray images. Computers in Biology and Medicine, 2021, 134, 104401.	3.9	19
1950	A deep convolutional neural network for the detection of polyps in colonoscopy images. Biomedical Signal Processing and Control, 2021, 68, 102654.	3.5	35
1951	A Multiple Signals Fusing Framework for Tool Condition Monitoring Based on Deep Learning. , 2021, , .		1
1952	Automated diagnosis of breast cancer using multi-modal datasets: A deep convolution neural network based approach. Biomedical Signal Processing and Control, 2022, 71, 102825.	3.5	63
1953	Predicting Tyrosine Kinase Inhibitor Treatment Response in Stage IV Lung Adenocarcinoma Patients With EGFR Mutation Using Model-Based Deep Transfer Learning. Frontiers in Oncology, 2021, 11, 679764.	1.3	7

#	Article	IF	Citations
1954	Spectrum bias in algorithms derived by artificial intelligence: a case study in detecting aortic stenosis using electrocardiograms. European Heart Journal Digital Health, $0, \dots$	0.7	5
1955	Two Dimensional Convolutional Neural Network Approach for Real-Time Bangla Sign Language Characters Recognition and Translation. SN Computer Science, 2021, 2, 1.	2.3	10
1956	Comprehensive Analysis of State-of-the-Art CAD Tools and Techniques for Chronic Kidney Disease (CKD). International Journal of Big Data and Analytics in Healthcare, 2021, 6, 1-12.	0.4	1
1957	Lung Cancer Segmentation With Transfer Learning: Usefulness of a Pretrained Model Constructed From an Artificial Dataset Generated Using a Generative Adversarial Network. Frontiers in Artificial Intelligence, 2021, 4, 694815.	2.0	16
1958	Semi-supervised medical image classification based on CamMix. , 2021, , .		1
1959	Training a deep neural network coping with diversities in abdominal and pelvic images of children and young adults for CBCT-based adaptive proton therapy. Radiotherapy and Oncology, 2021, 160, 250-258.	0.3	12
1960	Detection and classification of multi-scale retinal junctions using region-based CNN. Signal, Image and Video Processing, 2022, 16, 265-272.	1.7	0
1962	A Novel Region-Extreme Convolutional Neural Network for Melanoma Malignancy Recognition. Mathematical Problems in Engineering, 2021, 2021, 1-18.	0.6	3
1964	Automated accurate emotion recognition system using rhythm-specific deep convolutional neural network technique with multi-channel EEG signals. Computers in Biology and Medicine, 2021, 134, 104428.	3.9	72
1965	A study on specific learning algorithms pertaining to classify lung cancer disease. Expert Systems, 2022, 39, e12797.	2.9	3
1966	AN OVERVIEW OF GEOINFORMATICS STATE-OF-THE-ART TECHNIQUES FOR LANDSLIDE MONITORING AND MAPPING. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLVI-4/W2-2021, 205-212.	0.2	2
1968	Image retrieval of wool fabric. Part III: based on aggregated convolutional descriptors and approximate nearest neighbors search. Textile Reseach Journal, 2022, 92, 434-445.	1.1	4
1969	Fully Convolutional DenseNet with Attention Mechanism for Liver Lesion Segmentation in MRI Images. Journal of Medical Imaging and Health Informatics, 2021, 11, 2289-2300.	0.2	1
1970	Deep learning-based automated detection of pulmonary embolism on CT pulmonary angiograms: No significant effects on report communication times and patient turnaround in the emergency department nine months after technical implementation. European Journal of Radiology, 2021, 141, 109816.	1.2	19
1971	Transfer learning applied to DRL-Based heat pump control to leverage microgrid energy efficiency. Smart Energy, 2021, 3, 100044.	2.6	19
1972	A deep learning study on osteosarcoma detection from histological images. Biomedical Signal Processing and Control, 2021, 69, 102931.	3.5	38
1973	Detecting COVID 19 using Deep Learning. International Journal for Research in Applied Science and Engineering Technology, 2021, 9, 1234-1241.	0.1	0
1974	Using Machine Learning to Objectively Determine Colorimetric Assay Results from Cell Phone Photos Taken Under Ambient Lighting. , 2021, , .		2

#	Article	IF	CITATIONS
1975	MDC-net: A new convolutional neural network for nucleus segmentation in histopathology images with distance maps and contour information. Computers in Biology and Medicine, 2021, 135, 104543.	3.9	43
1976	Comparison of convolutional neural network training strategies for cone-beam CT image segmentation. Computer Methods and Programs in Biomedicine, 2021, 207, 106192.	2.6	13
1977	Offline Handwritten Character Recognition using Convolutional Neural Network. International Journal for Research in Applied Science and Engineering Technology, 2021, 9, 1483-1489.	0.1	0
1978	Study on Active Tracking of Underwater Acoustic Target Based on Deep Convolution Neural Network. Applied Sciences (Switzerland), 2021, 11, 7530.	1.3	8
1979	REVIEW ON DEEP LEARNING APPROACHES TO THE CONTROL OF PROSTHETIC HANDS WITH ELECTROMYOGRAPHY SIGNALS., 2021,, 249-252.		0
1980	A vehicle classification system based on a non-intrusive sensor's binary image and convolutional neural networks., 2021,,.		0
1981	Deep Learning-Based Measurement of Total Plaque Area in B-Mode Ultrasound Images. IEEE Journal of Biomedical and Health Informatics, 2021, 25, 2967-2977.	3.9	35
1982	TNâ€USMA Net: Triple normalizationâ€based gastrointestinal stromal tumors classification on multicenter EUS images with ultrasoundâ€specific pretraining and meta attention. Medical Physics, 2021, 48, 7199-7214.	1.6	6
1983	Mapping single-cell data to reference atlases by transfer learning. Nature Biotechnology, 2022, 40, 121-130.	9.4	236
1984	A Method for Detecting and Analyzing Facial Features of People with Drug Use Disorders. Diagnostics, 2021, 11, 1562.	1.3	0
1985	Robust End-to-End Hand Identification via Holistic Multi-Unit Knuckle Recognition., 2021,,.		4
1986	Assessment of hip displacement in children with cerebral palsy using machine learning approach. Medical and Biological Engineering and Computing, 2021, 59, 1877-1887.	1.6	4
1987	Automatic Segmentation of Pancreatic Tumors Using Deep Learning on a Video Image of Contrast-Enhanced Endoscopic Ultrasound. Journal of Clinical Medicine, 2021, 10, 3589.	1.0	22
1988	Estimation of deracinated trees area in temperate forest with satellite images employing machine learning methods. PeerJ Computer Science, 2021, 7, e648.	2.7	0
1989	Deep Learning-Based Visual Identification of Signs of Bat Presence in Bridge Infrastructure Images: A Transfer Learning Approach. Transportation Research Record, 2021, 2675, 939-951.	1.0	2
1990	EMPIRICAL ANALYSIS ON THE REDUCTION OF SPORTS INJURY BY FUNCTIONAL MOVEMENT SCREENING METHOD UNDER BIOLOGICAL IMAGE DATA. Revista Brasileira De Medicina Do Esporte, 2021, 27, 400-404.	0.1	1
1991	Radon Cumulative Distribution Transform Subspace Modeling for Image Classification. Journal of Mathematical Imaging and Vision, 2021, 63, 1185-1203.	0.8	11
1993	An approach to rapid processing of camera trap images with minimal human input. Ecology and Evolution, 2021, 11, 12051-12063.	0.8	7

#	Article	IF	CITATIONS
1994	Transfer Learning Approach for Classification of Histopathology Whole Slide Images. Sensors, 2021, 21, 5361.	2.1	17
1995	COVID-19 and Pneumonia Recognition based on Data Augmentation and Transfer Learning. Journal of Physics: Conference Series, 2021, 1992, 042005.	0.3	0
1996	Performance optimisation of deep learning models using majority voting algorithm for brain tumour classification. Computers in Biology and Medicine, 2021, 135, 104564.	3.9	53
1998	Deep Learning-Based Computed Tomography Perfusion Mapping (DL-CTPM) for Pulmonary CT-to-Perfusion Translation. International Journal of Radiation Oncology Biology Physics, 2021, 110, 1508-1518.	0.4	16
1999	Assessing Ischemic Stroke with Convolutional Image Features in Carotid Color Doppler. Ultrasound in Medicine and Biology, 2021, 47, 2266-2276.	0.7	10
2000	Obstacle rearrangement for robotic manipulation in clutter using a deep Q-network. Intelligent Service Robotics, 2021, 14, 549-561.	1.6	4
2001	On the Effectiveness of Leukocytes Classification Methods in a Real Application Scenario. Al, 2021, 2, 394-412.	2.1	7
2002	Micro-optics assembly for fast axis collimation by means of convolutional neural network. Optics Express, 2021, 29, 26765.	1.7	4
2003	An Effective Approach to Classify White Blood Cell Using CNN. Advances in Intelligent Systems and Computing, 2022, , 633-641.	0.5	2
2004	Best Practices for the Deployment of Edge Inference: The Conclusions to Start Designing. Electronics (Switzerland), 2021, 10, 1912.	1.8	5
2005	Deep Learning Reservoir Porosity Prediction Using Integrated Neural Network. Arabian Journal for Science and Engineering, 2022, 47, 11313-11327.	1.7	10
2006	Neural Style Transfer as Data Augmentation for Improving COVID-19 Diagnosis Classification. SN Computer Science, 2021, 2, 410.	2.3	5
2007	WaveSleepNet: An interpretable deep convolutional neural network for the continuous classification of mouse sleep and wake. Journal of Neuroscience Methods, 2021, 360, 109224.	1.3	5
2008	A Structure-Aware Relation Network for Thoracic Diseases Detection and Segmentation. IEEE Transactions on Medical Imaging, 2021, 40, 2042-2052.	5.4	17
2009	Deep Learning-Based Computed Tomography Image Features in the Detection and Diagnosis of Perianal Abscess Tissue. Journal of Healthcare Engineering, 2021, 2021, 1-10.	1.1	4
2010	Automatic Meningioma Segmentation and Grading Prediction: A Hybrid Deep-Learning Method. Journal of Personalized Medicine, 2021, 11, 786.	1.1	14
2011	Balanced Convolutional Neural Networks for Pneumoconiosis Detection. International Journal of Environmental Research and Public Health, 2021, 18, 9091.	1.2	15
2012	An explainable AI system for automated COVID-19 assessment and lesion categorization from CT-scans. Artificial Intelligence in Medicine, 2021, 118, 102114.	3.8	26

#	Article	IF	CITATIONS
2013	CSI Amplitude Fingerprinting for Indoor Localization with Dictionary Learning. Entropy, 2021, 23, 1164.	1.1	2
2014	Detecting grades of diabetic retinopathy by extraction of retinal lesions using digital fundus images. Research on Biomedical Engineering, 2021, 37, 641-656.	1.5	2
2015	Mmfc: Multi-Modal Fusion Cascade Framework For Covid-19 Disease Course Classification. , 2021, , .		0
2016	Deep neural network based robust computer-aided cataract diagnosis system using fundus retinal images. Biomedical Signal Processing and Control, 2021, 70, 102985.	3.5	6
2017	Adaptive Methods for Short-Term Electricity Load Forecasting During COVID-19 Lockdown in France. IEEE Transactions on Power Systems, 2021, 36, 4754-4763.	4.6	53
2018	Machine learning based liver disease diagnosis: A systematic review. Neurocomputing, 2022, 468, 492-509.	3.5	33
2019	Few-shot learning for cardiac arrhythmia detection based on electrocardiogram data from wearable devices., 2021, 116, 103094.		16
2020	Transfer learning artificial intelligence for automated detection of atrial fibrillation in patients undergoing evaluation for suspected obstructive sleep apnoea: a feasibility study. Sleep Medicine, 2021, 85, 166-171.	0.8	3
2021	Improved daily SMAP satellite soil moisture prediction over China using deep learning model with transfer learning. Journal of Hydrology, 2021, 600, 126698.	2.3	75
2022	Deep learning powered coronary CT angiography for detecting obstructive coronary artery disease: The effect of reader experience, calcification and image quality. European Journal of Radiology, 2021, 142, 109835.	1.2	20
2023	Hybrid convolutional neural network based classification of bacterial, viral, and fungal diseases on tomato leaf images. Concurrency Computation Practice and Experience, 2022, 34, e6617.	1.4	9
2024	Medical-VLBERT: Medical Visual Language BERT for COVID-19 CT Report Generation With Alternate Learning. IEEE Transactions on Neural Networks and Learning Systems, 2021, 32, 3786-3797.	7.2	29
2025	Mapping the Delivery of Ecological Functions Combining Field Collected Data and Unmanned Aerial Vehicles (UAVs). Ecosystems, 2022, 25, 948-959.	1.6	5
2026	<scp>PTXNet</scp> : An extended <scp>UNet</scp> model based segmentation of pneumothorax from chest radiography images. Expert Systems, 2022, 39, e12807.	2.9	2
2027	Deep multi-scale attentional features for medical image segmentation. Applied Soft Computing Journal, 2021, 109, 107445.	4.1	17
2028	Multi-Feature Fusion Method for Identifying Carotid Artery Vulnerable Plaque. Irbm, 2022, 43, 272-278.	3.7	12
2029	Deep learning and lung ultrasound for Covid-19 pneumonia detection and severity classification. Computers in Biology and Medicine, 2021, 136, 104742.	3.9	43
2030	A deep-learning based multimodal system for Covid-19 diagnosis using breathing sounds and chest X-ray images. Applied Soft Computing Journal, 2021, 109, 107522.	4.1	35

#	Article	IF	CITATIONS
2031	Malaria detection through digital microscopic imaging using Deep Greedy Network with transfer learning. Journal of Medical Imaging, 2021, 8, 054502.	0.8	7
2032	An Integrated Counterfactual Sample Generation and Filtering Approach for SAR Automatic Target Recognition with a Small Sample Set. Remote Sensing, 2021, 13, 3864.	1.8	4
2033	Ensembles of Convolutional Neural Network models for pediatric pneumonia diagnosis. Future Generation Computer Systems, 2021, 122, 220-233.	4.9	34
2034	Multi-criterion decision making-based multi-channel hierarchical fusion of digital breast tomosynthesis and digital mammography for breast mass discrimination. Knowledge-Based Systems, 2021, 228, 107303.	4.0	2
2035	A deep learning based approach for automatic detection of COVID-19 cases using chest X-ray images. Biomedical Signal Processing and Control, 2022, 71, 103182.	3.5	109
2036	Cross-Domain State-of-Charge Estimation of Li-Ion Batteries Based on Deep Transfer Neural Network With Multiscale Distribution Adaptation. IEEE Transactions on Transportation Electrification, 2021, 7, 1260-1270.	5.3	22
2037	Plastic Gasket Defect Detection Based on Transfer Learning. Scientific Programming, 2021, 2021, 1-11.	0.5	0
2038	Applying Self-Supervised Learning to Medicine: Review of the State of the Art and Medical Implementations. Informatics, 2021, 8, 59.	2.4	34
2039	Determining Top Fully Connected Layer's Hidden Neuron Count for Transfer Learning, Using Knowledge Distillation: a Case Study on Chest X-Ray Classification of Pneumonia and COVID-19. Journal of Digital Imaging, 2021, 34, 1349-1358.	1.6	2
2040	Segmentation and motion parameter estimation for robotic Medjoul-date thinning. Precision Agriculture, 2022, 23, 514-537.	3.1	5
2041	Repurposing Routine Imaging for Cancer Biomarker Discovery Using Machine Learning. Intelligent Systems Reference Library, 2022, , 153-176.	1.0	2
2042	An Artificial Intelligence-Assisted Method for Dementia Detection Using Images from the Clock Drawing Test. Journal of Alzheimer's Disease, 2021, 83, 581-589.	1.2	19
2043	Gammatonegram based triple classification of lung sounds using deep convolutional neural network with transfer learning. Biomedical Signal Processing and Control, 2021, 70, 102947.	3.5	22
2044	Artificial Intelligence Systems for Diagnosis and Clinical Classification of COVID-19. Frontiers in Microbiology, 2021, 12, 729455.	1.5	2
2045	Applying deep learning and benchmark machine learning algorithms for landslide susceptibility modelling in Rorachu river basin of Sikkim Himalaya, India. Geoscience Frontiers, 2021, 12, 101203.	4.3	87
2046	Acoustic detection of regionally rare bird species through deep convolutional neural networks. Ecological Informatics, 2021, 64, 101333.	2.3	21
2047	Measurement and analysis of multi-modal image fusion metrics based on structure awareness using domain transform filtering. Measurement: Journal of the International Measurement Confederation, 2021, 182, 109663.	2.5	12
2048	Locop: Local Collaborative Object Presence For Semantic Labeling Via Score Map Re-Inference., 2021,,.		0

#	Article	IF	CITATIONS
2049	Machine learning approach to force reconstruction in photoelastic materials. Machine Learning: Science and Technology, 2021, 2, 045030.	2.4	6
2050	DYNAMIC NONLINEAR EXPRESSION RECOGNITION TECHNOLOGY USING NEURAL NETWORK AND ATTENTION MECHANISM. Fractals, 2022, 30, .	1.8	2
2051	Hierarchical Reinforcement Learning With Automatic Sub-Goal Identification. IEEE/CAA Journal of Automatica Sinica, 2021, 8, 1686-1696.	8.5	17
2052	Laryngoscope8: Laryngeal image dataset and classification of laryngeal disease based on attention mechanism. Pattern Recognition Letters, 2021, 150, 207-213.	2.6	7
2053	Automatic recognition of tunnel lining elements from GPR images using deep convolutional networks with data augmentation. Automation in Construction, 2021, 130, 103830.	4.8	62
2054	X-Net: Multi-branch UNet-like network for liver and tumor segmentation from 3D abdominal CT scans. Neurocomputing, 2021, 459, 81-96.	3.5	34
2055	Deep learning in mammography images segmentation and classification: Automated CNN approach. AEJ - Alexandria Engineering Journal, 2021, 60, 4701-4709.	3.4	110
2056	Two-Stage Evolutionary Neural Architecture Search for Transfer Learning. IEEE Transactions on Evolutionary Computation, 2021, 25, 928-940.	7.5	14
2057	Multi-model CNN fusion for sperm morphology analysis. Computers in Biology and Medicine, 2021, 137, 104790.	3.9	20
2058	Guest Editorial Annotation-Efficient Deep Learning: The Holy Grail of Medical Imaging. IEEE Transactions on Medical Imaging, 2021, 40, 2526-2533.	5 . 4	10
2059	Real-time electricity price forecasting of wind farms with deep neural network transfer learning and hybrid datasets. Applied Energy, 2021, 299, 117242.	5.1	35
2060	Rupture Detection During Needle Insertion Using Complex OCT Data and CNNs. IEEE Transactions on Biomedical Engineering, 2021, 68, 3059-3067.	2.5	4
2061	Learning From Multiple Datasets With Heterogeneous and Partial Labels for Universal Lesion Detection in CT. IEEE Transactions on Medical Imaging, 2021, 40, 2759-2770.	5 . 4	35
2062	Analysis and Classification of H&E-Stained Oral Cavity Tumour Gradings Using Convolution Neural Network. International Journal of Intelligent Engineering and Systems, 2021, 14, 517-528.	0.8	1
2063	Roofpedia: Automatic mapping of green and solar roofs for an open roofscape registry and evaluation of urban sustainability. Landscape and Urban Planning, 2021, 214, 104167.	3.4	47
2064	Interactive Few-Shot Learning: Limited Supervision, Better Medical Image Segmentation. IEEE Transactions on Medical Imaging, 2021, 40, 2575-2588.	5 . 4	44
2065	A Highly Reliable Convolutional Neural Network Based Soft Tissue Sarcoma Metastasis Detection from Chest X-ray Images: A Retrospective Cohort Study. Cancers, 2021, 13, 4961.	1.7	3
2066	Anti-transfer learning for task invariance in convolutional neural networks for speech processing. Neural Networks, 2021, 142, 238-251.	3.3	10

#	Article	IF	CITATIONS
2067	A deep CNN model for anomaly detection and localization in wireless capsule endoscopy images. Computers in Biology and Medicine, 2021, 137, 104789.	3.9	38
2068	Skin disease diagnosis with deep learning: A review. Neurocomputing, 2021, 464, 364-393.	3.5	54
2069	On the pitfalls of learning with limited data: A facial expression recognition case study. Expert Systems With Applications, 2021, 183, 114991.	4.4	1
2070	MC-Net: Multiple max-pooling integration module and cross multi-scale deconvolution network. Knowledge-Based Systems, 2021, 231, 107456.	4.0	54
2071	End-to-end predictive intelligence diagnosis in brain tumor using lightweight neural network. Applied Soft Computing Journal, 2021, 111, 107666.	4.1	15
2072	Convolutional neural network-based deep transfer learning for fault detection of gas turbine combustion chambers. Applied Energy, 2021, 302, 117509.	5.1	42
2073	An automated slice sorting technique for multi-slice computed tomography liver cancer images using convolutional network. Expert Systems With Applications, 2021, 186, 115686.	4.4	29
2074	COVID-19 lung infection segmentation with a novel two-stage cross-domain transfer learning framework. Medical Image Analysis, 2021, 74, 102205.	7.0	48
2075	A web crowdsourcing framework for transfer learning and personalized Speech Emotion Recognition. Machine Learning With Applications, 2021, 6, 100132.	3.0	5
2076	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
2077	An investigation of XGBoost-based algorithm for breast cancer classification. Machine Learning With Applications, 2021, 6, 100154.	3.0	34
2078	Segmentation of Handwritten Arabic Graphemes Using a Directed Convolutional Neural Network and Mathematical Morphology Operations. Pattern Recognition, 2022, 122, 108288.	5.1	13
2079	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
2080	Human Gait Recognition: A Deep Learning and Best Feature Selection Framework. Computers, Materials and Continua, 2022, 70, 343-360.	1.5	3
2081	Cost-effective ensemble models selection using deep reinforcement learning. Information Fusion, 2022, 77, 133-148.	11.7	11
2082	Deep Neural Networks for Melanoma Detection from Optical Standard Images using Transfer Learning. Procedia Computer Science, 2021, 192, 1304-1312.	1.2	4
2083	Seismic Event Classification Using Spectrograms and Deep Neural Nets. Communications in Computer and Information Science, 2021, , 16-30.	0.4	0
2084	Automated Cataracts Screening from Slit-Lamp Images Employing Deep Learning. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2021, , 282-291.	0.2	O

#	ARTICLE	IF	Citations
2085	Privacy Protection in Prosumer Energy Management Based on Federated Learning. IEEE Access, 2021, 9, 16707-16715.	2.6	3
2086	Deep Learning for Medical Image Processing. , 2021, , 147-183.		0
2087	STSRNet: Self-Texture Transfer Super-Resolution and Refocusing Network. IEEE Transactions on Medical Imaging, 2022, 41, 383-393.	5.4	4
2088	Classification of Plant Diseases Using Convolutional Neural Networks. Lecture Notes in Networks and Systems, 2021, , 268-275.	0.5	6
2089	Fake Banknote Recognition Using Deep Learning. Applied Sciences (Switzerland), 2021, 11, 1281.	1.3	10
2091	Noisy-LSTM: Improving Temporal Awareness for Video Semantic Segmentation. IEEE Access, 2021, 9, 46810-46820.	2.6	13
2092	Image-driven classification of functioning and nonfunctioning pituitary adenoma by deep convolutional neural networks. Computational and Structural Biotechnology Journal, 2021, 19, 3077-3086.	1.9	7
2093	Interior Void Classification in Liquid Metal Using Multi-Frequency Magnetic Induction Tomography With a Machine Learning Approach. IEEE Sensors Journal, 2021, 21, 23289-23296.	2.4	8
2094	Deep Learning Models for Detection and Diagnosis of Alzheimer's Disease. Advances in Medical Technologies and Clinical Practice Book Series, 2021, , 140-149.	0.3	4
2095	Comparison of different optimizers implemented on the deep learning architectures for COVID-19 classification. Materials Today: Proceedings, 2021, 46, 11098-11102.	0.9	15
2096	A Novel CNN-Based Detector for Ship Detection Based on Rotatable Bounding Box in SAR Images. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 1938-1958.	2.3	63
2098	Design and implementation of differentiated analytics workflow for imaging diagnostics on the intelligent integrated digital platform InSilicoKDD. AIP Conference Proceedings, 2021, , .	0.3	0
2099	Convolutional Neural Networks for Automatic Detection of Focal Cortical Dysplasia. Advances in Intelligent Systems and Computing, 2021, , 582-588.	0.5	3
2100	Graph Deep Learning: State of the Art and Challenges. IEEE Access, 2021, 9, 22106-22140.	2.6	36
2101	An Automated Method of Identifying Incorrectly Labelled Images Based on the Sequences of Loss Functions of Deep Learning Networks. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2021, , 261-269.	0.2	0
2102	Cross-Tissue/Organ Transfer Learning for the Segmentation of Ultrasound Images Using Deep Residual U-Net. Journal of Medical and Biological Engineering, 2021, 41, 137-145.	1.0	6
2103	Deep Learning for Medical Image Recognition: Open Issues and a Way to Forward. Lecture Notes in Networks and Systems, 2021, , 349-365.	0.5	10
2104	Sub-classification of invasive and non-invasive cancer from magnification independent histopathological images using hybrid neural networks. Evolutionary Intelligence, 2022, 15, 1531-1543.	2.3	16

#	Article	IF	CITATIONS
2105	A Computer Vision-Based Method for Classification of Red Meat Quality After Nitrosamine Appendage. International Journal of Computational Intelligence and Applications, 2021, 20, .	0.6	4
2107	Multi-site Incremental Image Quality Assessment of Structural MRI via Consensus Adversarial Representation Adaptation. Lecture Notes in Computer Science, 2021, , 381-389.	1.0	1
2108	Hybrid Convolution Architecture for Energy-Efficient Deep Neural Network Processing. IEEE Transactions on Circuits and Systems I: Regular Papers, 2021, 68, 2017-2029.	3.5	4
2109	Early detection and diagnosis using deep learning. , 2021, , 191-217.		1
2110	Transfer Learning With CNN for Classification of Weld Defect. IEEE Access, 2021, 9, 95097-95108.	2.6	22
2111	Adaptation Algorithms for Neural Network-Based Speech Recognition: An Overview. IEEE Open Journal of Signal Processing, 2021, 2, 33-66.	2.3	33
2112	Largeâ€scale, imageâ€based tree species mapping in a tropical forest using artificial perceptual learning. Methods in Ecology and Evolution, 2021, 12, 608-618.	2.2	8
2113	A Review on Deep Learning Techniques for the Diagnosis of Novel Coronavirus (COVID-19). IEEE Access, 2021, 9, 30551-30572.	2.6	206
2114	Material Decomposition in Spectral CT Using Deep Learning: A Sim2Real Transfer Approach. IEEE Access, 2021, 9, 25632-25647.	2.6	18
2115	Deep Learning Approaches for Detecting COVID-19 From Chest X-Ray Images: A Survey. IEEE Access, 2021, 9, 20235-20254.	2.6	64
2116	Carcinoma Type Classification From High-Resolution Breast Microscopy Images Using a Hybrid Ensemble of Deep Convolutional Features and Gradient Boosting Trees Classifiers. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2022, 19, 2124-2136.	1.9	17
2117	Generative Invertible Networks (GIN): Pathophysiology-Interpretable Feature Mapping and Virtual Patient Generation. Lecture Notes in Computer Science, 2018, , 537-545.	1.0	8
2118	Coreset-Based Neural Network Compression. Lecture Notes in Computer Science, 2018, , 469-486.	1.0	38
2119	ChestX-ray: Hospital-Scale Chest X-ray Database and Benchmarks on Weakly Supervised Classification and Localization of Common Thorax Diseases. Advances in Computer Vision and Pattern Recognition, 2019, , 369-392.	0.9	45
2120	Generation of Virtual Dual Energy Images from Standard Single-Shot Radiographs Using Multi-scale and Conditional Adversarial Network. Lecture Notes in Computer Science, 2019, , 298-313.	1.0	5
2121	Impact of Ultrasound Image Reconstruction Method on Breast Lesion Classification with Deep Learning. Lecture Notes in Computer Science, 2019, , 41-52.	1.0	14
2122	How to Learn from Unlabeled Volume Data: Self-supervised 3D Context FeatureÂLearning. Lecture Notes in Computer Science, 2019, , 649-657.	1.0	14
2123	Texture-Based Classification of Significant Stenosis in CCTA Multi-view Images of Coronary Arteries. Lecture Notes in Computer Science, 2019, , 732-740.	1.0	11

#	Article	IF	CITATIONS
2124	Models Genesis: Generic Autodidactic Models for 3D Medical Image Analysis. Lecture Notes in Computer Science, 2019, 11767, 384-393.	1.0	150
2125	Leveraging Other Datasets for Medical Imaging Classification: Evaluation of Transfer, Multi-task and Semi-supervised Learning. Lecture Notes in Computer Science, 2019, , 431-439.	1.0	13
2126	Deriving Lung Perfusion Directly from CT Image Using Deep Convolutional Neural Network: A Preliminary Study. Lecture Notes in Computer Science, 2019, , 102-109.	1.0	5
2127	Multi-scale Deep Convolutional Neural Networks for Emphysema Classification and Quantification. Intelligent Systems Reference Library, 2020, , 149-164.	1.0	2
2128	Automatic Segmentation of Multiple Organs on 3D CT Images by Using Deep Learning Approaches. Advances in Experimental Medicine and Biology, 2020, 1213, 135-147.	0.8	33
2129	Fundamental Study on Evaluation System of Beginner's Welding Using CNN. Lecture Notes in Networks and Systems, 2020, , 821-827.	0.5	4
2130	An Ensemble Algorithm Based on Deep Learning for Tuberculosis Classification. Lecture Notes in Computer Science, 2019, , 145-154.	1.0	15
2131	An Efficient Algorithm of Facial Expression Recognition byÂTSG-RNNÂNetwork. Lecture Notes in Computer Science, 2020, , 161-174.	1.0	4
2132	Left Ventricle Quantification Using Direct Regression with Segmentation Regularization and Ensembles of Pretrained 2D and 3D CNNs. Lecture Notes in Computer Science, 2020, , 375-383.	1.0	2
2133	Deep Neural Network for Pancreas Segmentation from CT Images. Lecture Notes in Computer Science, 2020, , 406-413.	1.0	1
2134	Assessing the Impact of a Preprocessing Stage on Deep Learning Architectures for Breast Tumor Multi-class Classification with Histopathological Images. Communications in Computer and Information Science, 2020, , 262-275.	0.4	7
2135	On Partitioning of an SHM Problem and Parallels with Transfer Learning. Conference Proceedings of the Society for Experimental Mechanics, 2021, , 41-50.	0.3	7
2136	Fruit Classification for Retail Stores Using Deep Learning. Lecture Notes in Computer Science, 2020, , 3-13.	1.0	39
2137	Self-supervision with Superpixels: Training Few-Shot Medical Image Segmentation Without Annotation. Lecture Notes in Computer Science, 2020, , 762-780.	1.0	83
2138	Highly Accurate and Memory Efficient Unsupervised Learning-Based Discrete CT Registration Using 2.5D Displacement Search. Lecture Notes in Computer Science, 2020, , 190-200.	1.0	19
2139	3D Reconstruction and Segmentation of Dissection Photographs for MRI-Free Neuropathology. Lecture Notes in Computer Science, 2020, , 204-214.	1.0	3
2140	Partial Volume Segmentation of Brain MRI Scans of Any Resolution and Contrast. Lecture Notes in Computer Science, 2020, , 177-187.	1.0	6
2142	Predicting Scores of Medical Imaging Segmentation Methods with Meta-learning. Lecture Notes in Computer Science, 2020, , 242-253.	1.0	2

#	Article	IF	CITATIONS
2143	A Malware Classification Method Based on the Capsule Network. Lecture Notes in Computer Science, 2020, , 35-49.	1.0	2
2144	Deep Learning and Computer-Aided Diagnosis for Medical Image Processing: A Personal Perspective. Advances in Computer Vision and Pattern Recognition, 2017, , 3-10.	0.9	9
2145	On the Necessity of Fine-Tuned Convolutional Neural Networks for Medical Imaging. Advances in Computer Vision and Pattern Recognition, 2017, , 181-193.	0.9	14
2146	Efficient False Positive Reduction in Computer-Aided Detection Using Convolutional Neural Networks and Random View Aggregation. Advances in Computer Vision and Pattern Recognition, 2017, , 35-48.	0.9	4
2147	Deep Learning for Histopathological Image Analysis: Towards Computerized Diagnosis on Cancers. Advances in Computer Vision and Pattern Recognition, 2017, , 73-95.	0.9	24
2148	Multi-resolution-Tract CNN with Hybrid Pretrained and Skin-Lesion Trained Layers. Lecture Notes in Computer Science, 2016, , 164-171.	1.0	89
2149	Transfer Learning for Cell Nuclei Classification in Histopathology Images. Lecture Notes in Computer Science, 2016, , 532-539.	1.0	45
2150	Deep Learning for Shot Classification in Gynecologic Surgery Videos. Lecture Notes in Computer Science, 2017, , 702-713.	1.0	8
2151	Risk Stratification of Lung Nodules Using 3D CNN-Based Multi-task Learning. Lecture Notes in Computer Science, 2017, , 249-260.	1.0	98
2152	Transfer Learning Using Convolutional Neural Networks for Face Anti-spoofing. Lecture Notes in Computer Science, 2017, , 27-34.	1.0	69
2153	A Comparison of Texture Features Versus Deep Learning for Image Classification in Interstitial Lung Disease. Communications in Computer and Information Science, 2017, , 743-753.	0.4	5
2154	Full Quantification of Left Ventricle via Deep Multitask Learning Network Respecting Intra- and Inter-Task Relatedness. Lecture Notes in Computer Science, 2017, , 276-284.	1.0	34
2155	Transfer Learning for Domain Adaptation in MRI: Application in Brain Lesion Segmentation. Lecture Notes in Computer Science, 2017, , 516-524.	1.0	167
2156	Self-paced Convolutional Neural Network for Computer Aided Detection in Medical Imaging Analysis. Lecture Notes in Computer Science, 2017, , 212-219.	1.0	8
2157	Modeling the Intra-class Variability for Liver Lesion Detection Using a Multi-class Patch-Based CNN. Lecture Notes in Computer Science, 2017, , 129-137.	1.0	22
2158	Expected Exponential Loss for Gaze-Based Video and Volume Ground Truth Annotation. Lecture Notes in Computer Science, 2017, , 106-115.	1.0	3
2159	Self-supervised Learning for Spinal MRIs. Lecture Notes in Computer Science, 2017, , 294-302.	1.0	40
2160	Using Transfer Learning with Convolutional Neural Networks to Diagnose Breast Cancer from Histopathological Images. Lecture Notes in Computer Science, 2017, , 669-676.	1.0	27

#	Article	IF	CITATIONS
2161	Arrhythmia Detection Using Convolutional Neural Models. Advances in Intelligent Systems and Computing, 2019, , 120-127.	0.5	15
2162	Video-Based Pig Recognition with Feature-Integrated Transfer Learning. Lecture Notes in Computer Science, 2018, , 620-631.	1.0	5
2163	Detection of Defects on SiC Substrate by SEM and Classification Using Deep Learning. Lecture Notes on Data Engineering and Communications Technologies, 2019, , 47-58.	0.5	6
2165	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
2166	Musculoskeletal radiographs classification using deep learning. , 2020, , 79-98.		10
2167	Modern Machine Learning Tools for Monitoring and Control of Industrial Processes: A Survey. IFAC-PapersOnLine, 2020, 53, 218-229.	0.5	19
2170	A shallow convolutional neural network predicts prognosis of lung cancer patients in multi-institutional computed tomography image datasets. Nature Machine Intelligence, 2020, 2, 274-282.	8.3	54
2171	An underwater observation dataset for fish classification and fishery assessment. Scientific Data, 2018, 5, 180190.	2.4	18
2172	Fault diagnosis of the bushing infrared images based on mask Râ€CNN and improved PCNN joint algorithm. High Voltage, 2021, 6, 116-124.	2.7	30
2173	Deep learningâ€based automated detection of human knee joint's synovial fluid from magnetic resonance images with transfer learning. IET Image Processing, 2020, 14, 1990-1998.	1.4	10
2174	Classifying functional nuclear images with convolutional neural networks: a survey. IET Image Processing, 2020, 14, 3300-3313.	1.4	13
2175	Novel breast cancer classification framework based on deep learning. IET Image Processing, 2020, 14, 3254-3259.	1.4	18
2176	A Machine-Learning Approach for Semantically-Enriched Building-Code Sentence Generation for Automatic Semantic Analysis. , 2020, , .		5
2177	Latent feature representation with depth directional long-term recurrent learning for breast masses in digital breast tomosynthesis. Physics in Medicine and Biology, 2017, 62, 1009-1031.	1.6	17
2178	Multi-path synergic fusion deep neural network framework for breast mass classification using digital breast tomosynthesis. Physics in Medicine and Biology, 2020, 65, 235045.	1.6	7
2179	Automated Detection of Oral Pre-Cancerous Tongue Lesions Using Deep Learning for Early Diagnosis of Oral Cavity Cancer. Computer Journal, 2022, 65, 91-104.	1.5	37
2180	AML, ALL, and CML classification and diagnosis based on bone marrow cell morphology combined with convolutional neural network. Medicine (United States), 2020, 99, e23154.	0.4	22
2195	Machine learning based image processing technology application in bunch longitudinal phase information extraction. Physical Review Accelerators and Beams, 2020, 23, .	0.6	13

#	Article	IF	CITATIONS
2196	Exploring Deep Learning Approaches to Recognize Handwritten Arabic Texts. IEEE Access, 2020, 8, 89882-89898.	2.6	34
2197	Multi-label Detection and Classification of Red Blood Cells in Microscopic Images. , 2020, , .		6
2198	DCAN: Deep Contour-Aware Networks for Accurate Gland Segmentation. , 2016, , .		363
2199	A Review on Medical Image Analysis with Convolutional Neural Networks. , 2020, , .		4
2200	Alzheimer's Disease Prediction Using Convolutional Neural Network Models Leveraging Pre-existing Architecture and Transfer Learning., 2020,,.		14
2201	Real-World ADS-B signal recognition based on Radio Frequency Fingerprinting. , 2020, , .		15
2202	Automatic Detection of Beginner's Welding Joint. , 2020, , .		3
2203	A Decade Survey of Transfer Learning (2010–2020). IEEE Transactions on Artificial Intelligence, 2020, 1, 151-166.	3.4	229
2204	Inf-Net: Automatic COVID-19 Lung Infection Segmentation From CT Images. IEEE Transactions on Medical Imaging, 2020, 39, 2626-2637.	5.4	763
2205	A Multi-Scale Fusion Convolutional Neural Network Based on Attention Mechanism for the Visualization Analysis of EEG Signals Decoding. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2020, 28, 2615-2626.	2.7	62
2206	Intelligent Diagnosis of Incipient Fault in Power Distribution Lines Based on Corona Detection in UV-Visible Videos. IEEE Transactions on Power Delivery, 2021, 36, 3640-3648.	2.9	57
2207	Combining deep learning and coherent anti-Stokes Raman scattering imaging for automated differential diagnosis of lung cancer. Journal of Biomedical Optics, 2017, 22, 1.	1.4	70
2208	Rapid tissue oxygenation mapping from snapshot structured-light images with adversarial deep learning. Journal of Biomedical Optics, 2020, 25, .	1.4	14
2209	Hybridization of deep and prototypical neural network for rare defect classification on aircraft fuselage images acquired by an unmanned aerial vehicle. Journal of Electronic Imaging, 2020, 29, 1.	0.5	3
2210	Pulmonary nodule classification in lung cancer screening with three-dimensional convolutional neural networks. Journal of Medical Imaging, 2017, 4, 1.	0.8	37
2211	Deep convolutional neural networks for the automated segmentation of malignant pleural mesothelioma on computed tomography scans. Journal of Medical Imaging, 2018, 5, 1.	0.8	12
2212	Predicting ischemic stroke tissue fate using a deep convolutional neural network on source magnetic resonance perfusion images. Journal of Medical Imaging, 2019, 6, 1.	0.8	19
2213	Breast cancer detection using synthetic mammograms from generative adversarial networks in convolutional neural networks. Journal of Medical Imaging, 2019, 6, 1.	0.8	63

#	Article	IF	Citations
2214	Deep learning-based segmentation of malignant pleural mesothelioma tumor on computed tomography scans: application to scans demonstrating pleural effusion. Journal of Medical Imaging, 2020, 7, 1.	0.8	8
2215	Hyperspectral classification using deep fusion spectral–spatial features. Journal of Applied Remote Sensing, 2019, 13, 1.	0.6	2
2216	Comparison of land use classification based on convolutional neural network. Journal of Applied Remote Sensing, 2020, 14, 1.	0.6	7
2217	Trained neurons-based motion detection in optical camera communications. Optical Engineering, 2018, 57, 1.	0.5	6
2218	Robust multimaterial decomposition of spectral CT using convolutional neural networks. Optical Engineering, 2019, 58, 1.	0.5	23
2219	Pneumothorax detection in chest radiographs using convolutional neural networks. , 2018, , .		7
2220	Detection of eardrum abnormalities using ensemble deep learning approaches. , 2018, , .		17
2221	Lesion detection in ultra-wide field retinal images for diabetic retinopathy diagnosis. , 2018, , .		2
2222	Deep 3D convolution neural network for CT brain hemorrhage classification. , 2018, , .		64
2223	Role of training data variability on classifier performance and generalizability. , 2018, , .		18
2224	Deep residual learning enabled metal artifact reduction in CT. , 2018, , .		18
2225	Transfer learning with convolutional neural networks for lesion classification on clinical breast tomosynthesis. , 2018, , .		4
2226	Performance evaluation of 2D and 3D deep learning approaches for automatic segmentation of multiple organs on CT images. , 2018, , .		22
2227	Deep learning-based features of breast MRI for prediction of occult invasive disease following a diagnosis of ductal carcinoma in situ: preliminary data. , 2018, , .		7
2228	Breast cancer molecular subtype classification using deep features: preliminary results. , 2018, , .		2
2229	Breast cancer detection using synthetic mammograms from generative adversarial networks in convolutional neural networks. , $2018, \dots$		3
2230	Deep learning in computer-aided diagnosis incorporating mammographic characteristics of both tumor and parenchyma stroma. , 2018, , .		1
2231	Deep multi-label 3D ConvNet for breast cancer diagnosis in DBT with inversion augmentation. , 2018, , .		2

#	Article	IF	CITATIONS
2232	Deep 3D convolutional neural networks for fast super-resolution ultrasound imaging., 2019, 10955,.		9
2233	Using multi-task learning to improve diagnostic performance of convolutional neural networks. , 2019, , .		3
2234	Using generative adversarial networks and transfer learning for breast cancer detection by convolutional neural networks. , 2019 , , .		10
2235	Visualizing and explaining deep learning predictions for pneumonia detection in pediatric chest radiographs. , 2019, , .		21
2236	Deep learning for identifying breast cancer malignancy and false recalls: a robustness study on training strategy. , $2019, \dots$		5
2237	Smart additive manufacturing empowered by a closed-loop machine learning algorithm., 2019,,.		5
2238	Machine learning approaches for defect classification on aircraft fuselage images aquired by an UAV. , 2019, , .		12
2239	Deep-learning-based breast CT for radiation dose reduction. , 2019, , .		4
2241	Deep learning for natural language processing of free-text pathology reports: a comparison of learning curves. BMJ Innovations, 2020, 6, 192-198.	1.0	5
2243	Driving Lane Detection on Smartphones using Deep Neural Networks. ACM Transactions on Sensor Networks, 2020, 16, 1-22.	2.3	12
2244	Implicit Diversity in Image Summarization. Proceedings of the ACM on Human-Computer Interaction, 2020, 4, 1-28.	2.5	13
2245	Antenna Optimization Design Based on Deep Gaussian Process Model. International Journal of Antennas and Propagation, 2020, 2020, 1-10.	0.7	12
2246	Swapped face detection using deep learning and subjective assessment. Eurasip Journal on Information Security, 2020, 2020, .	2.4	31
2247	Exploring the efficacy of transfer learning in mining image-based software artifacts. Journal of Big Data, 2020, 7, .	6.9	19
2248	Improved computer-aided detection of pulmonary nodules via deep learning in the sinogram domain. Visual Computing for Industry, Biomedicine, and Art, 2019, 2, 15.	2.2	6
2250	Bone Age Recognition Using Convolution Neural Network. Journal of Image and Signal Processing, 2018, 07, 1-15.	0.1	4
2252	Parallel deep neural networks for endoscopic OCT image segmentation. Biomedical Optics Express, 2019, 10, 1126.	1.5	30
2253	Robust deep learning method for choroidal vessel segmentation on swept source optical coherence tomography images. Biomedical Optics Express, 2019, 10, 1601.	1.5	30

#	ARTICLE	IF	CITATIONS
2254	Learned sensing: jointly optimized microscope hardware for accurate image classification. Biomedical Optics Express, 2019, 10, 6351.	1.5	39
2255	Deep learning-based single-shot prediction of differential effects of anti-VEGF treatment in patients with diabetic macular edema. Biomedical Optics Express, 2020, 11, 1139.	1.5	53
2256	DMENet: Diabetic Macular Edema diagnosis using Hierarchical Ensemble of CNNs. PLoS ONE, 2020, 15, e0220677.	1.1	50
2257	Handwriting Recognition using Artificial Intelligence Neural Network and Image Processing. International Journal of Advanced Computer Science and Applications, 2020, 11 , .	0.5	14
2258	Image Quality Classification for DR Screening Using Convolutional Neural Networks. , 0, , .		13
2259	Image Based Tumor Cells Identification Using Convolutional Neural Network and Auto Encoders. Traitement Du Signal, 2019, 36, 445-453.	0.8	10
2261	Emotion Recognition Based on Multi-Composition Deep Forest and Transferred Convolutional Neural Network. Journal of Advanced Computational Intelligence and Intelligent Informatics, 2019, 23, 883-890.	0.5	4
2262	Lung Nodule Texture Detection and Classification Using 3D CNN. CommIT Journal, 2019, 13, .	0.2	4
2263	Multi-level 3D Densenets for False-positive Reduction in Lung Nodule Detection Based on Chest Computed Tomography. Current Medical Imaging, 2020, 16, 1004-1021.	0.4	6
2264	Breast Cancer Detection and Diagnosis Using Mammographic Data: Systematic Review. Journal of Medical Internet Research, 2019, 21, e14464.	2.1	155
2265	Reproducible Machine Learning Methods for Lung Cancer Detection Using Computed Tomography Images: Algorithm Development and Validation. Journal of Medical Internet Research, 2020, 22, e16709.	2.1	43
2266	Deep Learning Frameworks for Rapid Gram Stain Image Data Interpretation: Protocol for a Retrospective Data Analysis. JMIR Research Protocols, 2020, 9, e16843.	0.5	10
2267	Cancer genotypes prediction and associations analysis from imaging phenotypes: a survey on radiogenomics. Biomarkers in Medicine, 2020, 14, 1151-1164.	0.6	3
2268	A Highly Effective Deep Learning Based Escape Route Recognition Module for Autonomous Robots in Crisis and Emergency Situations. , 2019, , .		32
2269	Low and high grade glioma segmentation in multispectral brain MRI data. Acta Universitatis Sapientiae: Informatica, 2018, 10, 110-132.	0.3	20
2270	Wood Species Identification using Convolutional Neural Network (CNN) Architectures on Macroscopic Images. Journal of Information Technology and Computer Science, 2019, 4, 274-283.	0.2	6
2272	Deep Convolution Neural Network for Malignancy Detection and Classification in Microscopic Uterine Cervix Cell Images. Asian Pacific Journal of Cancer Prevention, 2019, 20, 3447-3456.	0.5	23
2273	Sağlık Alanında Kullanılan Derin Öğrenme Yöntemleri. European Journal of Science and Technology, 20 , 792-808.	19 0:5	13

#	Article	IF	CITATIONS
2274	A Comparative Study of Alzheimer's Disease Classification using Multiple Transfer Learning Models. Journal of Multimedia Information System, 2019, 6, 209-216.	0.4	11
2275	Convolutional Neural Networks with Transfer Learning for Recognition of COVID-19: A Comparative Study of Different Approaches. Al, 2020, 1, 586-606.	2.1	20
2276	Continuous Tracking of Targets for Stereoscopic HFSWR Based on IMM Filtering Combined with ELM. Remote Sensing, 2020, 12, 272.	1.8	15
2277	Computer-Aided Detection of Lung Nodules in Chest X-Rays using Deep Convolutional Neural Networks. Sakarya University Journal of Computer and Information Sciences, 2019, 2, 41-52.	0.6	9
2278	NEW DIRECTIONS IN STRUCTURAL HEALTH MONITORING. NED University Journal of Research, 2019, 2, 77-112.	0.4	7
2279	Is artificial intelligence the final answer to missed polyps in colonoscopy?. World Journal of Gastroenterology, 2020, 26, 5248-5255.	1.4	17
2280	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
2281	How convolutional neural networks see the world A survey of convolutional neural network visualization methods. Mathematical Foundations of Computing, 2018, 1, 149-180.	0.7	142
2282	A New Deep Learning Model Selection Method for Colorectal Cancer Classification. International Journal of Swarm Intelligence Research, 2020, 11, 72-88.	0.5	16
2283	Automated Classification of Lung Diseases in Computed Tomography Images Using a Wavelet Based Convolutional Neural Network. Journal of Biomedical Science and Engineering, 2018, 11, 263-274.	0.2	15
2284	An Investigative Analysis on Mapping X-Ray to Live Using Convolution Neural Networks for Detection of Genu Valgum. Open Access Library Journal (oalib), 2018, 05, 1-8.	0.1	1
2285	Using a Wavelet-Based and Fine-Tuned Convolutional Neural Network for Classification of Breast Density in Mammographic Images. Open Journal of Medical Imaging, 2020, 10, 17-29.	0.1	15
2286	Deep learning with convolutional neural networks for identification of liver masses and hepatocellular carcinoma: A systematic review. World Journal of Gastrointestinal Oncology, 2019, 11, 1218-1230.	0.8	63
2287	Radiologist-like artificial intelligence for grade group prediction of radical prostatectomy for reducing upgrading and downgrading from biopsy. Theranostics, 2020, 10, 10200-10212.	4.6	22
2288	Prognostic analysis of histopathological images using pre-trained convolutional neural networks: application to hepatocellular carcinoma. PeerJ, 2020, 8, e8668.	0.9	23
2289	Generative adversarial network image synthesis method for skin lesion generation and classification. Journal of Medical Signals and Sensors, 2021, 11, 237.	0.5	10
2290	Identification of Metastatic Primary Cutaneous Squamous Cell Carcinoma Utilizing Artificial Intelligence Analysis of Whole Slide Images. SSRN Electronic Journal, 0, , .	0.4	0
2291	Rapid classification of soils from different mining areas by laser-induced breakdown spectroscopy (LIBS) coupled with a PCA-based convolutional neural network. Journal of Analytical Atomic Spectrometry, 2021, 36, 2509-2518.	1.6	15

#	Article	IF	CITATIONS
2292	Short- to Mid-Term Prediction for Electricity Consumption Using Statistical Model and Neural Networks. Transactions on Computational Science and Computational Intelligence, 2021, , 889-895.	0.3	1
2293	Segmentation and classification of renal tumors based on convolutional neural network. Journal of Radiation Research and Applied Sciences, 2021, 14, 412-422.	0.7	1
2294	Thyroid ultrasound image classification using a convolutional neural network. Annals of Translational Medicine, 2021, 9, 1526-1526.	0.7	19
2295	1D Phase Unwrapping Based on the Quasi-Gramian Matrix and Deep Learning for Interferometric Optical Fiber Sensing Applications. Journal of Lightwave Technology, 2022, 40, 252-261.	2.7	7
2296	Using explainable deep learning in da Vinci Xi robot for tumor detection. International Journal on Smart Sensing and Intelligent Systems, 2021, 14, 1-16.	0.4	1
2297	Screening of COVID-19 Suspected Subjects Using Multi-Crossover Genetic Algorithm Based Dense Convolutional Neural Network. IEEE Access, 2021, 9, 142566-142580.	2.6	48
2299	BI-LSTM-LSTM Based Time Series Electricity Consumption Forecast for South Korea. Transactions on Computational Science and Computational Intelligence, 2021, , 897-902.	0.3	1
2300	Influence of Geographic Distance on CNN Generalization for Satellite Image Classification. , 2021, , .		0
2301	Image Classification of Time Series Based on Deep Convolutional Neural Network., 2021,,.		1
2302	Novel classification method of plastic wastes with optimal hyperparameter tuning of Inception_ResnetV2., 2021,,.		3
2303	Dealing with Adversarial Player Strategies in the Neural Network Game iNNk through Ensemble Learning. , 2021, , .		4
2304	Classification of Emotions Using a 2-Channel Convolution Neural Network. , 2021, , .		0
2305	Detection of COVID-19 from CT scan images using deep neural networks. , 2021, , .		0
2306	Image forgery detection using Deep Neural Network., 2021,,.		3
2307	A non-intrusive category identification method based on the binary image of profile vehicles and CNN classification algorithm. , 2021 , , .		1
2308	A Deep Learning-Based Transfer Learning Framework for the Early Detection and Classification of Dermoscopic Images of Melanoma. Biomedical and Pharmacology Journal, 2021, 14, 1231-1247.	0.2	3
2309	Brain Tumor Prediction by analyzing MRI using deep learning architectures. , 2021, , .		0
2310	Using Transfer Learning Method to Develop an Artificial Intelligence Assisted Triaging for Endotracheal Tube Position on Chest X-ray. Diagnostics, 2021, 11, 1844.	1.3	1

#	Article	IF	CITATIONS
2311	Semi-supervised CycleGAN for domain transformation of chest CT images and its application to opacity classification of diffuse lung diseases. International Journal of Computer Assisted Radiology and Surgery, 2021, 16, 1925-1935.	1.7	8
2312	Brain Tumour MRI Image Segmentation and Classification Using FCNN. Advances in Intelligent Systems and Computing, 2022, , 323-329.	0.5	2
2314	Artificial intelligence and early esophageal cancer. Artificial Intelligence in Gastrointestinal Endoscopy, 2021, 2, 198-210.	0.2	1
2315	A Transfer Learning-Based Object Detection and Annotation System: Performance Evaluation for Vehicle Objects from Onboard Camera. Lecture Notes in Networks and Systems, 2022, , 11-17.	0.5	0
2316	GM FASST: General Method For labeling Augmented Sub-sampled images from a Small data set for Transfer learning. Machine Learning With Applications, 2021, 6, 100168.	3.0	0
2317	An improvement for the automatic classification method for ultrasound images used on CNN. International Journal of Wavelets, Multiresolution and Information Processing, 2022, 20, .	0.9	16
2318	A Novel Hybrid Model for Predicting Traffic Flow via Improved Ensemble Learning Combined with Deep Belief Networks. Mathematical Problems in Engineering, 2021, 2021, 1-16.	0.6	2
2319	A Novel Convolutional Neural Network Classification Approach of Motor-Imagery EEG Recording Based on Deep Learning. Applied Sciences (Switzerland), 2021, 11, 9948.	1.3	7
2320	A novel deep convolution generative adversarial transfer learning model for data-driven assembly quality diagnosis. Journal of Intelligent and Fuzzy Systems, 2021, , 1-15.	0.8	0
2321	Crack Detection from Weld Bend Test Images Using R-CNN. Lecture Notes in Networks and Systems, 2022, , 289-298.	0.5	1
2322	Evaluating the Checklist for Artificial Intelligence in Medical Imaging (CLAIM)-Based Quality of Reports Using Convolutional Neural Network for Odontogenic Cyst and Tumor Detection. Applied Sciences (Switzerland), 2021, 11, 9688.	1.3	1
2323	Curriculum learning for improved femur fracture classification: Scheduling data with prior knowledge and uncertainty. Medical Image Analysis, 2022, 75, 102273.	7.0	12
2324	Deep Transfer Learning for Recognizing Functional Interactions via Head Movements in Multiparty Conversations., 2021,,.		4
2325	The use of deep learning on endoscopic images to assess the response of rectal cancer after chemoradiation. Surgical Endoscopy and Other Interventional Techniques, 2021, , 1.	1.3	6
2326	YOLOv4 Object Detection Model for Nondestructive Radiographic Testing in Aviation Maintenance Tasks. AIAA Journal, 0, , 1-6.	1.5	4
2327	Enhanced Face Recognition Using Adaptive Local Tri Weber Pattern with Improved Deep Learning Architecture. International Journal of Image and Graphics, 0, , .	1.2	1
2328	Preliminary study of generalized semiautomatic segmentation for 3D voxel labeling of lesions based on deep learning. International Journal of Computer Assisted Radiology and Surgery, 2021, 16, 1901-1913.	1.7	4
2329	Design and Assessment of Convolutional Neural Network Based Methods for Vitiligo Diagnosis. Frontiers in Medicine, 2021, 8, 754202.	1.2	4

#	Article	IF	CITATIONS
2330	A Deep Learning Pipeline for Grade Groups Classification Using Digitized Prostate Biopsy Specimens. Sensors, 2021, 21, 6708.	2.1	11
2331	CT classification model of pancreatic serous cystic neoplasms and mucinous cystic neoplasms based on a deep neural network. Abdominal Radiology, 2022, 47, 232-241.	1.0	12
2332	Deep Learning for Simulating Harmful Algal Blooms Using Ocean Numerical Model. Frontiers in Marine Science, 2021, 8, .	1.2	13
2333	Pathologic Complete Response Prediction after Neoadjuvant Chemoradiation Therapy for Rectal Cancer Using Radiomics and Deep Embedding Network of MRI. Applied Sciences (Switzerland), 2021, 11, 9494.	1.3	3
2334	Current Applications of Machine Learning in Spine: From Clinical View. Global Spine Journal, 2022, 12, 1827-1840.	1.2	19
2335	CST: A Multitask Learning Framework for Colorectal Cancer Region Mining Based on Transformer. BioMed Research International, 2021, 2021, 1-8.	0.9	5
2336	Lung Cancer Detection using VGG NET 16 Architecture. Journal of Physics: Conference Series, 2021, 2040, 012001.	0.3	16
2337	Weighted Entropy Minimization Based Deep Conditional Adversarial Diagnosis Approach Under Variable Working Conditions. IEEE/ASME Transactions on Mechatronics, 2021, 26, 2440-2450.	3.7	14
2338	Training Strategies for Radiology Deep Learning Models in Data-limited Scenarios. Radiology: Artificial Intelligence, 2021, 3, e210014.	3.0	35
2339	Artificial intelligence: opportunities in lung cancer. Current Opinion in Oncology, 2022, 34, 44-53.	1.1	4
2340	Outbreak COVID-19 in Medical Image Processing Using Deep Learning: A State-of-the-Art Review. Archives of Computational Methods in Engineering, 2022, 29, 2351-2382.	6.0	6
2341	Improved Visual Recognition Memory Model Based on Grid Cells for Face Recognition. Frontiers in Neuroscience, 2021, 15, 718541.	1.4	O
2342	Strided Self-Supervised Low-Dose CT Denoising for Lung Nodule Classification. Phenomics, 2021, 1, 257-268.	0.9	15
2343	A transfer-learning based energy consumption modeling method for industrial robots. Journal of Cleaner Production, 2021, 325, 129299.	4.6	13
2344	Towards dense people detection with deep learning and depth images. Engineering Applications of Artificial Intelligence, 2021, 106, 104484.	4.3	4
2345	A robust end-to-end deep learning framework for detecting Martian landforms with arbitrary orientations. Knowledge-Based Systems, 2021, 234, 107562.	4.0	2
2346	A convolutional neural network trained with dermoscopic images of psoriasis performed on par with 230 dermatologists. Computers in Biology and Medicine, 2021, 139, 104924.	3.9	15
2348	Weakly-Supervised Evidence Pinpointing and Description. Lecture Notes in Computer Science, 2017, , 210-222.	1.0	9

#	Article	IF	CITATIONS
2349	Segmenting Lungs from Whole-Body CT Scans. Communications in Computer and Information Science, 2017, , 403-414.	0.4	1
2350	Layer Removal for Transfer Learning with Deep Convolutional Neural Networks. Lecture Notes in Computer Science, 2017, , 460-469.	1.0	1
2352	Computer-Aided Diagnosis in Chest Radiography with Deep Multi-Instance Learning. Lecture Notes in Computer Science, 2017, , 723-731.	1.0	3
2353	Computer assisted optical biopsy for colorectal polyps. Proceedings of SPIE, 2017, , .	0.8	0
2354	A Study of Nuclei Classification Methods in Histopathological Images. Smart Innovation, Systems and Technologies, 2018, , 78-88.	0.5	3
2356	Super-Resolution Reconstruction of Plane-Wave Ultrasound Imaging Based on the Improved CNN Method. Lecture Notes in Computational Vision and Biomechanics, 2018, , 111-120.	0.5	0
2357	Cross-Media Retrieval via Deep Semantic Canonical Correlation Analysis and Logistic Regression. Lecture Notes in Computer Science, 2018, , 123-133.	1.0	0
2358	Continuous Dropout Strategy for Deep Learning Network. Communications in Computer and Information Science, 2018, , 271-279.	0.4	0
2359	Detecting Bone Lesions in Multiple Myeloma Patients Using Transfer Learning. Lecture Notes in Computer Science, 2018, , 22-30.	1.0	2
2360	PM-GANs: Discriminative Representation Learning for Action Recognition Using Partial-Modalities. Lecture Notes in Computer Science, 2018, , 389-406.	1.0	19
2361	Feature Extraction and Classification Using Deep Convolutional Neural Networks. Journal of Cyber Security and Mobility, 0, , .	0.7	6
2362	Bladder cancer treatment response assessment in CT urography using two-channel deep-learning network. , 2018, , .		1
2363	Orientation regression in hand radiographs: a transfer learning approach. , 2018, , .		2
2364	Design and Implementation of CNN for detecting Melanoma through Image Processing. International Journal for Research in Applied Science and Engineering Technology, 2018, 6, 2249-2253.	0.1	2
2365	Akciğer nodül özelliklerinin tahmininde çeşitli sınıflama stratejilerinin incelenmesi. Journal of the Faculty of Engineering and Architecture of Gazi University, 2018, 2018, .	0.3	3
2366	Real-time lung segmentation from whole-body CT scans using Adaptive Vision Studio: a visual programming software suite. , 2018, , .		1
2368	Head-heuristic human detection in RGB-D images. , 2018, , .		0
2370	Facial Emotion Detection through Deep Covolutional Neural Networks. VAWKUM Transactions on Computer Sciences, 2018, 15, 113.	0.3	0

#	Article	IF	CITATIONS
2372	Deep Neural Networks for Human Behavior Understanding., 2019, , 667-679.		0
2373	Indoor Positioning System using Regression-based Fingerprint Method. International Journal of Advanced Computer Science and Applications, 2019, 10, .	0.5	4
2374	Deep Multi-instance Volumetric Image Classification with Extreme Value Distributions. Lecture Notes in Computer Science, 2019, , 590-604.	1.0	0
2375	Combining Pose-Invariant Kinematic Features and Object Context Features for RGB-D Action Recognition. International Journal of Machine Learning and Computing, 2019, 9, 44-50.	0.8	6
2376	Identifying Diagnostically Complex Cases Through Ensemble Learning. Lecture Notes in Computer Science, 2019, , 316-324.	1.0	1
2377	Detection of Necrosis in Mice Liver Tissue Using Deep Convolutional Neural Network. Lecture Notes in Computer Science, 2019, , 32-40.	1.0	1
2378	Transfer Learning for Rigid 2D/3D Cardiovascular Images Registration. Lecture Notes in Computer Science, 2019, , 380-390.	1.0	3
2379	Recognition on Images From Internet Street View Based on Hierarchical Features Learning With CNNs. , 2019, , 1411-1424.		0
2380	Deep Learning on Big Data., 2019,, 648-648.		0
2381	Comparison of Deep Learning-Based Recognition Techniques for Medical and Biomedical Images. Lecture Notes in Computer Science, 2019, , 492-504.	1.0	0
2383	Brain Tumour Segmentation from Multispectral MR Image Data Using Ensemble Learning Methods. Lecture Notes in Computer Science, 2019, , 326-335.	1.0	1
2385	Segmentation of Prostate Peripheral Zone based on Multi-scale Features Enhancement. , 2019, , .		1
2386	Convolutional Neural Networks for Computer Aided Diagnosis of Interdental and Rustling Sigmatism. Advances in Intelligent Systems and Computing, 2019, , 179-186.	0.5	2
2387	Automatic quality evaluation as assessment standard for optical coherence tomography. , 2019, , .		2
2388	Discrimination of benign and malignant pulmonary tumors in computed tomography: effective priori information of fast learning network architecture. , 2019, , .		0
2389	Deep learning based bladder cancer treatment response assessment. , 2019, , .		0
2390	Pre-trained deep convolutional neural networks for the segmentation of malignant pleural mesothelioma tumor on CT scans. , 2019, , .		2
2391	Reliability of computer-aided diagnosis tools with multi-center MR datasets: impact of training protocol. , 2019, , .		0

#	ARTICLE	IF	CITATIONS
2392	Predicting unnecessary nodule biopsy for a small lung cancer screening dataset by less-abstractive deep features. , $2019, , .$		0
2393	Use of convolutional neural networks to predict risk of masking by mammographic density. , 2019, , .		0
2394	Automatic marker-free target positioning and tracking for image-guided radiotherapy and interventions. , 2019, , .		0
2395	Image classification of primary morphological elements of skin lesions. Scientific and Technical Journal of Information Technologies, Mechanics and Optics, 2019, 19, 333-338.	0.1	0
2396	Deep Learning Performance on Medical Image, Data and Signals. Sakarya University Journal of Computer and Information Sciences, 2019, 2, 28-40.	0.6	1
2398	Computationally efficient training of deep neural networks via transfer learning., 2019,,.		0
2399	Fusion of underwater object classification methods in sonar images. , 2019, , .		1
2400	Improving the Quality of Clustering-Based Diagnostic Rules by Lowering Dimension of the Cluster Prototypes. Advances in Intelligent Systems and Computing, 2020, , 47-56.	0.5	3
2401	Derin öğrenme yöntemleriyle dermoskopi görüntülerinden melanom tespiti: Kapsamlı bir çalışma of the Faculty of Engineering and Architecture of Gazi University, 0, , .	. Journal 0.3	12
2403	CLASSIFICATION PERFORMANCE COMPARISONS OF DEEP LEARNING MODELS IN PNEUMONIA DIAGNOSIS USING CHEST X-RAY IMAGES. Turkish Journal of Engineering, 2020, 4, 129-141.	0.7	6
2404	YOLO-based Real-Time Object Detection Scheme Combining RGB Image with LiDAR Point Cloud. The Journal of Korean Institute of Information Technology, 2019, 17, 93-105.	0.1	4
2405	Micronucleus image recognition based on feature-map spatial transformation. , 2019, , .		0
2406	Machine Health State Recognition Through Images Classification with Neural Network for Condition-Based Maintenance. Lecture Notes in Mechanical Engineering, 2020, , 432-443.	0.3	0
2407	Apple Brand Classification Using CNN Aiming at Automatic Apple Texture Estimation. Lecture Notes in Networks and Systems, 2020, , 811-820.	0.5	3
2409	Intrusion Detection Using Convolutional Recurrent Neural Network. , 2019, , .		3
2410	Computer-aided classification system for early endometrial cancer of co-registered photoacoustic and ultrasonic signals. , 2019, , .		1
2411	Liver Histopathological Image Retrieval Based on Deep Metric Learning. , 2019, , .		2
2412	A Comprehensive Study on Deep Image Classification with Small Datasets. Lecture Notes in Electrical Engineering, 2020, , 93-106.	0.3	6

#	Article	IF	CITATIONS
2413	Deep Learning for EEG Motor Imagery-Based Cognitive Healthcare. , 2020, , 233-254.		4
2414	Protein Image Classification based on Convolutional Neural Network and Recurrent Neural Network. , 2019, , .		1
2415	Mid-Level Feature Extractor for Transfer Learning to Small-Scale Dataset of Medical Images. Lecture Notes in Electrical Engineering, 2020, , 8-13.	0.3	0
2418	Ensemble of Handcrafted and Deep Learned Features for Cervical Cell Classification. Intelligent Systems Reference Library, 2020, , 117-135.	1.0	2
2419	Dog Breed Classification Using Transfer Learning. Advances in Intelligent Systems and Computing, 2020, , 579-590.	0.5	0
2420	Characterizing ResNet Filters to Identify Positive and Negative Findings in Breast MRI Sequences. Communications in Computer and Information Science, 2020, , 302-313.	0.4	0
2421	Transfer Learning for Brain Segmentation: Pre-task Selection and Data Limitations. Communications in Computer and Information Science, 2020, , 118-130.	0.4	3
2422	Classification of eye-fundus images with diabetic retinopathy using shape based features integrated into a convolutional neural network. Journal of Information and Optimization Sciences, 2020, 41, 217-227.	0.2	2
2423	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
2424	Deep Learning Architectures for Computer Vision Applications: A Study. Lecture Notes in Networks and Systems, 2020, , 601-612.	0.5	6
2425	Artificial Intelligence and Reliability Metrics in Medical Image Analysis. Advances in Bioinformatics and Biomedical Engineering Book Series, 2020, , 172-185.	0.2	0
2427	LesionMap: A Method and Tool for the Semantic Annotation of Dermatological Lesions for Documentation and Machine Learning. JMIR Dermatology, 2020, 3, e18149.	0.4	4
2428	Focal Loss Function based DeepLabv3+ for Pathological Lymph Node Segmentation on PET/CT., 2020, , .		3
2430	Data Augmentation Method of Small Dataset for Object Detection and Classification. The Journal of Korea Robotics Society, 2020, 15, 184-189.	0.2	1
2431	Velocity Measurement Improvement of Landing Radar Considering Irradiated Surface Using Neural Networks. Journal of Aerospace Information Systems, 2020, 17, 248-256.	1.0	0
2432	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
2433	Low-Order Finite Element Solver with Small Matrix-Matrix Multiplication Accelerated by Al-Specific Hardware for Crustal Deformation Computation., 2020,,.		3
2434	SPST-CNN: Spatial pyramid based searching and tagging of liver's intraoperative live views via CNN for minimal invasive surgery. Journal of Biomedical Informatics, 2020, 106, 103430.	2.5	10

#	Article	IF	CITATIONS
2435	Characterizing the Cost-Accuracy Performance of Cloud Applications. , 2020, , .		2
2440	End-to-End Learning of Speech 2D Feature-Trajectory for Prosthetic Hands. , 2020, , .		3
2441	Denoising for Intracranial Hemorrhage Images Using Autoencoder Based on CNN., 2021,,.		0
2442	Landslide Detection with Unmanned Aerial Vehicles. , 2021, , .		2
2443	Decision and feature level fusion of deep features extracted from public COVID-19 data-sets. Applied Intelligence, 2022, 52, 8551-8571.	3.3	14
2444	Multivariate Streamflow Simulation Using Hybrid Deep Learning Models. Computational Intelligence and Neuroscience, 2021, 2021, 1-16.	1.1	12
2445	Radiologist-supervised Transfer Learning. Journal of Thoracic Imaging, 2022, 37, 90-99.	0.8	5
2446	Transfer Learning for Alzheimer's Disease through Neuroimaging Biomarkers: A Systematic Review. Sensors, 2021, 21, 7259.	2.1	33
2447	Lightweight deep residual network for alzheimer's disease classification using sMRI slices. Journal of Intelligent and Fuzzy Systems, 2022, 42, 1885-1893.	0.8	3
2448	Analysis of the Uniqueness and Similarity of City Landscapes Based on Deep Style Learning. ISPRS International Journal of Geo-Information, 2021, 10, 734.	1.4	2
2449	Collaborative image compression and classification with multi-task learning for visual Internet of Things. Chinese Journal of Aeronautics, 2022, 35, 390-399.	2.8	4
2450	Kohonen Network-Based Adaptation of Non Sequential Data for Use in Convolutional Neural Networks. Sensors, 2021, 21, 7221.	2.1	0
2451	Deep learning driven colorectal lesion detection in gastrointestinal endoscopic and pathological imaging. World Journal of Clinical Cases, 2021, 9, 9376-9385.	0.3	5
2453	Indoor vs. Outdoor Scene Classification for Mobile Robots. Lecture Notes in Computer Science, 2020, , 243-252.	1.0	0
2454	Data-Efficient Histopathology Image Analysis with Deformation Representation Learning. , 2020, , .		2
2455	Deep Learning for Automatic Quality Grading of Mangoes: Methods and Insights. , 2020, , .		15
2456	A Diversified Supervised based U-shape Colorectal Lesion Segmentor with Meaningful Feature Supplement and Multi-Level Residual Attention Mechanism. , 2020, , .		0
2457	Not All Areas Are Equal: Detecting Thoracic Disease With ChestWNet. , 2020, , .		0

#	ARTICLE	IF	Citations
2458	On the Effective Transfer Learning Strategy for Medical Image Analysis in Deep Learning. , 2020, , .		2
2459	Artificial Intelligence based identification of Total Knee Arthroplasty Implants. , 2020, , .		4
2460	A Novel Method Based on Convolutional Features with Non-Iterative Learning for Brain Tumor Classification. , 2020, , .		1
2461	Medical Image Retrieval Using Empirical Mode Decomposition with Deep Convolutional Neural Network. BioMed Research International, 2020, 2020, 1-12.	0.9	3
2462	Behavioral Cloning for Self-driving Cars Using Deep Learning. Lecture Notes in Networks and Systems, 2021, , 197-209.	0.5	0
2463	Decentralized machine learning using compressed push-pull averaging. , 2020, , .		1
2464	Utalk: Sri Lankan Sign Language Converter Mobile App using Image Processing and Machine Learning. , 2020, , .		7
2465	Potential and Use of the Googlenet Ann for the Purposes of Inland Water Ships Classification. Polish Maritime Research, 2020, 27, 170-178.	0.6	4
2466	Feature-based Distant Domain Transfer Learning. , 2020, , .		17
2467	An Innovative Framework for Supporting Remote Sensing in Image Processing Systems via Deep Transfer Learning. , 2020, , .		1
2468	Apple and Grape Leaf Diseases Classification using Transfer Learning via Fine-tuned Classifier. , 2020, , .		8
2469	Semi-automated PIRADS scoring via mpMRI analysis. Journal of Medical Imaging, 2020, 7, 064501.	0.8	1
2470	Melanoma Classification in Dermoscopy Images via Ensemble Learning on Deep Neural Network. , 2020, ,		5
2472	An efficient and effective detection of carcinoma using digital image processing technique. Materials Today: Proceedings, 2020, , .	0.9	0
2473	Internet of Things and Cloud Enabled Hybrid Feature Extraction with Adaptive Neuro Fuzzy Inference System for Diabetic Retinopathy Diagnosis. Journal of Computational and Theoretical Nanoscience, 2020, 17, 5261-5269.	0.4	4
2474	Lymph Node Metastasis Classification Based on Semi-Supervised Multi-View Network. , 2020, , .		0
2476	Multi-View Attention-based Late Fusion (MVALF) CADx system for breast cancer using deep learning. Machine Graphics and Vision, 2020, 29, 55-78.	0.0	1
2477	Advanced scene aware navigation for the heavy duty off-road vehicle Unimog. IOP Conference Series: Materials Science and Engineering, 0, 997, 012093.	0.3	2

#	Article	IF	CITATIONS
2478	Image Augmentation for Deep Learning Based Lesion Classification from Skin Images. , 2020, , .		21
2479	A deep facial recognition system using computational intelligent algorithms. PLoS ONE, 2020, 15, e0242269.	1.1	41
2480	Explanation and Use of Uncertainty Quantified by Bayesian Neural Network Classifiers for Breast Histopathology Images. IEEE Transactions on Medical Imaging, 2022, 41, 815-825.	5.4	15
2481	A survey on facial emotion recognition techniques: A state-of-the-art literature review. Information Sciences, 2022, 582, 593-617.	4.0	99
2482	A Transfer Learning-Based Approach to Detect Cerebral Microbleeds. Computers, Materials and Continua, 2022, 71, 1903-1923.	1.5	4
2483	Melanoma classification using light-Fields with morlet scattering transform and CNN: Surface depth as a valuable tool to increase detection rate. Medical Image Analysis, 2022, 75, 102254.	7.0	13
2484	Sampling Methods for Efficient Training of Graph Convolutional Networks: A Survey. IEEE/CAA Journal of Automatica Sinica, 2022, 9, 205-234.	8.5	34
2485	Printed Circuit Board identification using Deep Convolutional Neural Networks to facilitate recycling. Resources, Conservation and Recycling, 2022, 177, 105963.	5.3	11
2486	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
2487	Cross-Modality Transfer Learning for Image-Text Information Management. ACM Transactions on Management Information Systems, 2022, 13, 1-14.	2.1	7
2488	Classification of Diffuse Lung Diseases Using Heterogeneous Ensemble Classifiers. Communications in Computer and Information Science, 2020, , 83-94.	0.4	0
2489	Domain-Independent Video Summarization Based on Transfer Learning Using Convolutional NeuralÂNetwork. Lecture Notes in Electrical Engineering, 2020, , 435-452.	0.3	1
2490	Deep Convolution Neural Network Model for Indian Sign Language Classification. Lecture Notes in Electrical Engineering, 2020, , 35-44.	0.3	2
2491	Emergence of Deep Machine Learning in Medicine. , 2021, , 1-9.		0
2492	Self-Supervised Deep Convolutional Neural Network for Chest X-Ray Classification. IEEE Access, 2021, 9, 151972-151982.	2.6	31
2493	Automatic Myelofibrosis Grading from Silver-Stained Images. Lecture Notes in Computer Science, 2021, , 195-205.	1.0	0
2494	Sensorless Real-Time Force Estimation in Microsurgery Robots Using a Time Series Convolutional Neural Network. IEEE Access, 2021, 9, 149447-149455.	2.6	7
2495	Antisocial Behaviour Analyses Using Deep Learning. Lecture Notes in Computer Science, 2020, , 133-145.	1.0	3

#	Article	IF	CITATIONS
2496	Computer image processing and neural network technology for boiler thermal energy diagnosis. Thermal Science, 2020, 24, 3059-3068.	0.5	2
2497	Citrus Brand Classification by CNN Considering Load and Sound. Advances in Intelligent Systems and Computing, 2020, , 1239-1249.	0.5	0
2498	Survey on Deep Learning Techniques for Medical Imaging Application Area. Learning and Analytics in Intelligent Systems, 2020, , 149-189.	0.5	2
2500	State Representation Learning from Demonstration. Lecture Notes in Computer Science, 2020, , 304-315.	1.0	1
2501	Interpretability-Guided Content-Based Medical Image Retrieval. Lecture Notes in Computer Science, 2020, , 305-314.	1.0	17
2502	The Implementation of Facial Symmetry Assessment Before and After Orthognathic Surgery Using TransferÂLearning. Lecture Notes in Electrical Engineering, 2020, , 23-33.	0.3	2
2503	Automated Pancreas Segmentation Using Multi-institutional Collaborative Deep Learning. Lecture Notes in Computer Science, 2020, , 192-200.	1.0	13
2504	An Effective Diagnostic Model for Personalized Healthcare Using Deep Learning Techniques. Advances in Medical Technologies and Clinical Practice Book Series, 2020, , 70-88.	0.3	9
2505	A Multi-task Approach Using Positional Information for Ultrasound Placenta Segmentation. Lecture Notes in Computer Science, 2020, , 264-273.	1.0	8
2506	Development of an Optimized Deep Learning Model for Medical Imaging. Journal of the Korean Society of Radiology, 2020, 81, 1274.	0.1	3
2507	Toward point-of-care ultrasound estimation of fetal gestational age from the trans-cerebellar diameter using CNN-based ultrasound image analysis. Journal of Medical Imaging, 2020, 7, 1.	0.8	17
2508	Applying Deep Learning Techniques for Heart Big Data Diagnosis. Lecture Notes in Networks and Systems, 2020, , 267-275.	0.5	0
2509	Classification of Chest Diseases Using Convolutional Neural Network. Lecture Notes in Networks and Systems, 2020, , 235-246.	0.5	3
2510	Detection of Lung Diseases using Deep Learning. SSRN Electronic Journal, 0, , .	0.4	5
2511	Interpretable CNN Pruning for Preserving Scale-Covariant Features in Medical Imaging. Lecture Notes in Computer Science, 2020, , 23-32.	1.0	3
2512	Deep Unsupervised Representation Learning for Audio-Based Medical Applications. Intelligent Systems Reference Library, 2020, , 137-164.	1.0	2
2513	Higher Education Teaching Material on Machine Learning in the Domain of Digital Pathology. Lecture Notes in Computer Science, 2020, , 155-174.	1.0	0
2514	Knowledge-Guided Pretext Learning for Utero-Placental Interface Detection. Lecture Notes in Computer Science, 2020, 12261, 582-593.	1.0	3

#	Article	IF	Citations
2515	Research on Drug Resistance of Non-Small Cell Lung Cancer Based on Deep Learning. Computer Science and Application, 2020, 10, 1853-1862.	0.0	0
2516	Prediction of Thorax Diseases Using Deep and Transfer Learning. , 2020, , .		1
2519	Deep Lesion Tracker: Monitoring Lesions in 4D Longitudinal Imaging Studies. , 2021, , .		19
2521	Materials Image Informatics Using Deep Learning. , 2020, , 205-230.		2
2522	Optimal Pneumonia detection using Convolutional Neural Networks from X-ray Images., 2021,,.		16
2523	Evaluation of RCNN parameters for Senile dementia diagnosis using ADNI dataset., 2021,,.		0
2524	Breast Mass Classification with Deep Transfer Feature Extractor Model and Random Forest Classifier. , 2021, , .		2
2525	Classification for Breast Ultrasound Using Convolutional Neural Network with Multiple Time-Domain Feature Maps. Applied Sciences (Switzerland), 2021, 11, 10216.	1.3	5
2526	In-Line Image Transformations for Imbalanced, Multiclass Computer Vision Classification of Lung Chest X-Rays. Lecture Notes in Networks and Systems, 2022, , 721-731.	0.5	0
2527	A meta-analysis of the diagnostic performance of machine learning-based MRI in the prediction of axillary lymph node metastasis in breast cancer patients. Insights Into Imaging, 2021, 12, 156.	1.6	17
2528	A cognitive approach to endometrial tuberculosis identification using hierarchical deep fusion method. Soft Computing, 0, , 1.	2.1	1
2529	Automatic Behavior and Posture Detection of Sows in Loose Farrowing Pens Based on 2D-Video Images. Frontiers in Animal Science, 2021, 2, .	0.8	0
2530	Clinical Artificial Intelligence Applications. Radiologic Clinics of North America, 2021, 59, 1027-1043.	0.9	12
2531	Machine intelligence in non-invasive endocrine cancer diagnostics. Nature Reviews Endocrinology, 2022, 18, 81-95.	4.3	25
2532	Deep Learning Approach to Mechanical Property Prediction of Single-Network Hydrogel. Mathematics, 2021, 9, 2804.	1.1	12
2533	Uncertainty-guided graph attention network for parapneumonic effusion diagnosis. Medical Image Analysis, 2022, 75, 102217.	7.0	13
2534	FUSIONET: A Hybrid Model Towards Image Classification. International Journal of Computational Intelligence and Applications, 2021, 20, .	0.6	4
2535	Automatic cancer detection on digital histopathology images of mid-gland radical prostatectomy specimens. Journal of Medical Imaging, 2020, 7, 1.	0.8	2

#	Article	IF	CITATIONS
2536	Object detection method on station logo with single shot multiâ€box detector. Journal of Engineering, 2020, 2020, 607-614.	0.6	0
2540	Comparative Performance of Various Deep Learning based Models in Fruit Image Classification. , 2020, , .		6
2542	Detection and differentiation of COVID-19 using deep learning approach fed by x-rays. International Journal of Applied Mathematics Electronics and Computers, 0, , .	0.6	3
2545	Multi-Face Recognition Using CNN for Attendance System. Lecture Notes in Networks and Systems, 2021, , 313-320.	0.5	7
2546	Automated Classification of Axial CT Slices Using Convolutional Neural Network. Advances in Intelligent Systems and Computing, 2021, , 329-336.	0.5	0
2547	How much off-the-shelf knowledge is transferable from natural images to pathology images?. PLoS ONE, 2020, 15, e0240530.	1.1	10
2548	Poseâ€informed deep learning method for SAR ATR. IET Radar, Sonar and Navigation, 2020, 14, 1649-1658.	0.9	5
2549	A Review on Automatic Detection of Retinal Lesions in Fundus Images for Diabetic Retinopathy. , 2021, , 177-202.		1
2550	Parameter estimation for pattern formation induced by ion bombardment of solid surfaces using deep learning. Journal of Physics Condensed Matter, 2021, 33, 025901.	0.7	1
2551	Multiâ€feature fusion of deep networks for mitosis segmentation in histological images. International Journal of Imaging Systems and Technology, 2021, 31, 562-574.	2.7	2
2552	Hierarchical Auxiliary Learning. Machine Learning: Science and Technology, 2020, 1, 045002.	2.4	1
2553	Classification of Human Blastocyst Quality Using Wavelets and Transfer Learning. Advances in Intelligent Systems and Computing, 2021, , 965-974.	0.5	1
2554	Airborne Network Traffic Identification Method under Small Training Samples. Xibei Gongye Daxue Xuebao/Journal of Northwestern Polytechnical University, 2020, 38, 1129-1137.	0.3	1
2555	Application of Artificial Intelligence Technology in College Physical Education. Journal of Physics: Conference Series, 2020, 1651, 012024.	0.3	2
2557	Transfer Learning for Design-Space Exploration with High-Level Synthesis. , 2020, , .		23
2558	Fine-Tuning A Lightweight Convolutional Neural Networks for COVID-19 Diagnosis. , 2020, , .		2
2559	In-situ leaf-surface micro-topography – the case of stomata detection. Acta Horticulturae, 2020, , 477-484.	0.1	0
2560	The Improvement Impact Performance of Face Detection Using YOLO Algorithm. , 2020, , .		3

#	Article	IF	CITATIONS
2561	American Sign Language Recognition Based on MobileNetV2. Advances in Science, Technology and Engineering Systems, 2020, 5, 481-488.	0.4	3
2562	Comparing Artificial Intelligence Platforms for Histopathologic Cancer Diagnosis. Federal Practitioner: for the Health Care Professionals of the VA, DoD, and PHS, 2019, 36, 456-463.	0.6	5
2563	A Novel Solution Based on Scale Invariant Feature Transform Descriptors and Deep Learning for the Detection of Suspicious Regions in Mammogram Images. Journal of Medical Signals and Sensors, 2020, 10, 158-173.	0.5	7
2564	MRCG: A MRI Retrieval Framework With Convolutional and Graph Neural Networks for Secure and Private IoMT. IEEE Journal of Biomedical and Health Informatics, 2023, 27, 814-822.	3.9	6
2565	Abnormal Samples Oversampling for Anomaly Detection Based on Uniform Scale Strategy and Closed Area. IEEE Transactions on Knowledge and Data Engineering, 2023, 35, 11999-12011.	4.0	6
2566	Challenges and future aspects of COVID-19 monitoring and detection. , 2022, , 131-150.		3
2567	Al-Based Detection, Classification and Prediction/Prognosis in Medical Imaging. PET Clinics, 2022, 17, 183-212.	1.5	31
2568	Digital Mammogram Inferencing System Using Intuitionistic Fuzzy Theory. Computer Systems Science and Engineering, 2022, 41, 1099-1115.	1.9	11
2569	Motor imagery EEG classification algorithm based on CNN-LSTM feature fusion network. Biomedical Signal Processing and Control, 2022, 72, 103342.	3.5	52
2570	Detection of ataxia with hybrid convolutional neural network using static plantar pressure distribution model in patients with multiple sclerosis. Computer Methods and Programs in Biomedicine, 2022, 214, 106525.	2.6	11
2571	Two-stream Convolutional Neural Network for Image Source Social Network Identification. , 2021, , .		0
2572	End-to-End Non–Small-Cell Lung Cancer Prognostication Using Deep Learning Applied to Pretreatment Computed Tomography. JCO Clinical Cancer Informatics, 2021, 5, 1141-1150.	1.0	2
2573	BERTHop: An Effective Vision-and-Language Model for Chest X-ray Disease Diagnosis., 2021,,.		5
2574	Computer-Aided Diagnosis System for Colorectal Cancer. , 2021, , .		0
2575	The Performance of Deep and Conventional Machine Learning Techniques for Skin Lesion Classification. , 2021, , .		2
2576	LTE Uplink Interference Inspection Using Convolutional Neural Networks. , 2021, , .		0
2577	Transfer Learning Based Method for Automatic COVID-19 Cases Detection in Chest X-Ray Images. , 2021, , .		4
2578	A Deep Dive in Covid-19 Diagnosis using Generic Artificial Intelligence. , 2021, , .		0

#	Article	IF	Citations
2579	Diagnosis of Schizophrenia Based on Deep Learning Using fMRI. Computational and Mathematical Methods in Medicine, 2021, 2021, 1-7.	0.7	17
2580	Computed tomography-based deep-learning prediction of induction chemotherapy treatment response in locally advanced nasopharyngeal carcinoma. Strahlentherapie Und Onkologie, 2022, 198, 183-193.	1.0	15
2581	An ensemble-based convolutional neural network model powered by a genetic algorithm for melanoma diagnosis. Neural Computing and Applications, 2022, 34, 10429-10448.	3.2	12
2582	Deep Learning-Based Computer-Aided Fetal Echocardiography: Application to Heart Standard View Segmentation for Congenital Heart Defects Detection. Sensors, 2021, 21, 8007.	2.1	27
2583	Comprehensive Review of Machine Learning (ML) in Image Defogging: Taxonomy of Concepts, Scenes, Feature Extraction, and Classification techniques. IET Image Processing, 2022, 16, 289-310.	1.4	13
2584	Using Deep Convolutional Neural Networks for Enhanced Ultrasonographic Image Diagnosis of Differentiated Thyroid Cancer. Biomedicines, 2021, 9, 1771.	1.4	9
2585	Deep Learning Applications in Magnetic Resonance Imaging: Has the Future Become Present?. Diagnostics, 2021, 11, 2181.	1.3	37
2586	CAD system for lung nodule detection using deep learning with CNN. Medical and Biological Engineering and Computing, 2022, 60, 221-228.	1.6	12
2587	Transfer Learning for High-Dimensional Linear Regression: Prediction, Estimation and Minimax Optimality. Journal of the Royal Statistical Society Series B: Statistical Methodology, 2022, 84, 149-173.	1.1	29
2588	Transfer Learning Applied to Characteristic Prediction of Injection Molded Products. Polymers, 2021, 13, 3874.	2.0	9
2589	Finding "retro" places in Japan. , 2021, , .		1
2590	Glioma classification framework based on SEâ€ResNeXt network and its optimization. IET Image Processing, 2022, 16, 596-605.	1.4	8
2591	Research on Application of the Feature Transfer Method Based on Fast R-CNN in Smoke Image Recognition. Advances in Multimedia, 2021, 2021, 1-7.	0.2	2
2592	Deep learning radiomics based on contrast enhanced computed tomography predicts microvascular invasion and survival outcome in early stage hepatocellular carcinoma. European Journal of Surgical Oncology, 2022, 48, 1068-1077.	0.5	22
2593	Deep learning based pipelines for Alzheimer's disease diagnosis: A comparative study and a novel deep-ensemble method. Computers in Biology and Medicine, 2022, 141, 105032.	3.9	48
2594	Multi-source Multimodal Data and Deep Learning for Disaster Response: A Systematic Review. SN Computer Science, 2022, 3, 92.	2.3	11
2595	Remote Sensing Image Scene Classification Based on Global Self-Attention Module. Remote Sensing, 2021, 13, 4542.	1.8	9
2597	Classification of Brain Tumor Images Using Enhanced Deep Learning-Based Methodologies. Lecture Notes in Networks and Systems, 2022, , 519-532.	0.5	2

#	ARTICLE	IF	Citations
2598	Neural Decoding of EEG Signals with Machine Learning: A Systematic Review. Brain Sciences, 2021, 11, 1525.	1.1	68
2599	A Study of the Recent Trends of Immunology: Key Challenges, Domains, Applications, Datasets, and Future Directions. Sensors, 2021, 21, 7786.	2.1	13
2600	An ultra-specific image dataset for automated insect identification. Multimedia Tools and Applications, 0 , 1 .	2.6	6
2601	Impact of Image Resolution on Deep Learning Performance in Endoscopy Image Classification: An Experimental Study Using a Large Dataset of Endoscopic Images. Diagnostics, 2021, 11, 2183.	1.3	38
2602	Distinguishing Intramedullary Spinal Cord Neoplasms from Non-Neoplastic Conditions by Analyzing the Classic Signs on MRI in the Era of Al. Current Medical Imaging, 2021, 17, .	0.4	0
2603	Gaze Prediction Based on Convolutional Neural Network. Lecture Notes in Networks and Systems, 2022, , 215-224.	0.5	12
2604	MVnet: automated time-resolved tracking of the mitral valve plane in CMR long-axis cine images with residual neural networks: a multi-center, multi-vendor study. Journal of Cardiovascular Magnetic Resonance, 2021, 23, 137.	1.6	6
2605	Composition optimization of radiation resistance ODS alloy with high strength and ductility for advanced reactor based on machine learning. Journal of Nuclear Science and Technology, 2022, 59, 725-734.	0.7	2
2606	Robust <i>H_{â^ž} </i> Deep Neural Network-Based Filter Design of Nonlinear Stochastic Signal Systems. IEEE Access, 2021, 9, 165103-165119.	2.6	3
2607	Learning from the Scratch for Tuberculosis (TB) Bacilli Detection Using DSOD. , 0, , .		0
2608	An overview of artificial intelligence and big data analytics for smart healthcare: requirements, applications, and challenges., 2021,, 243-254.		5
2609	Single Model Deep Learning on Imbalanced Small Datasets for Skin Lesion Classification. IEEE Transactions on Medical Imaging, 2022, 41, 1242-1254.	5.4	60
2610	Knee Images Classification using Transfer Learning. Procedia Computer Science, 2021, 194, 9-21.	1.2	0
2611	Development of CAD System for Automatic Lung Nodule Detection: <i>A Review</i> . BIO Web of Conferences, 2021, 41, 04001.	0.1	0
2612	Detection of COVID-19 With CT Images Using Hybrid Complex Shearlet Scattering Networks. IEEE Journal of Biomedical and Health Informatics, 2022, 26, 194-205.	3.9	6
2613	A fundamental study assessing the generalized fitting method in conjunction with every possible coalition of N-combinations (G-EPOC) using the appendicitis detection task of computed tomography. Polish Journal of Radiology, 2021, 86, 532-541.	0.5	3
2614	OP-convNet: A Patch Classification-Based Framework for CT Vertebrae Segmentation. IEEE Access, 2021, 9, 158227-158240.	2.6	38
2615	Enhanced lung image segmentation using deep learning. Neural Computing and Applications, 2023, 35, 22839-22853.	3.2	42

#	Article	IF	CITATIONS
2616	Global-Local attention network with multi-task uncertainty loss for abnormal lymph node detection in MR images. Medical Image Analysis, 2022, 77, 102345.	7.0	13
2617	CNN-KCL: Automatic myocarditis diagnosis using convolutional neural network combined with k-means clustering. Mathematical Biosciences and Engineering, 2022, 19, 2381-2402.	1.0	23
2618	Transfer learning for enhancing the homogenization-theory-based prediction of elasto-plastic response of particle/short fiber-reinforced composites. Composite Structures, 2022, 285, 115210.	3.1	19
2619	Identifying diabetes from conjunctival images using a novel hierarchical multi-task network. Scientific Reports, 2022, 12, 264.	1.6	3
2620	An ultra-specific image dataset for automated insect identification. Multimedia Tools and Applications, 2022, 81, 3223.	2.6	3
2621	Hyper-fusion network for semi-automatic segmentation of skin lesions. Medical Image Analysis, 2022, 76, 102334.	7.0	12
2622	Asbestosis diagnosis algorithm combining the lung segmentation method and deep learning model in computed tomography image. International Journal of Medical Informatics, 2022, 158, 104667.	1.6	10
2623	A multiscale siamese convolutional neural network with cross-channel fusion for motor imagery decoding. Journal of Neuroscience Methods, 2022, 367, 109426.	1.3	8
2624	A bimodal BI-RADS-guided GoogLeNet-based CAD system for solid breast masses discrimination using transfer learning. Computers in Biology and Medicine, 2022, 142, 105160.	3.9	10
2625	Compound fault diagnosis model for Photovoltaic array using multi-scale SE-ResNet. Sustainable Energy Technologies and Assessments, 2022, 50, 101785.	1.7	8
2626	Artificial intelligence for breast cancer analysis: Trends & Eamp; directions. Computers in Biology and Medicine, 2022, 142, 105221.	3.9	47
2627	Pancreas Co-segmentation based on dynamic ROI extraction and VGGU-Net. Expert Systems With Applications, 2022, 192, 116444.	4.4	9
2628	2D probabilistic undersampling pattern optimization for MR image reconstruction. Medical Image Analysis, 2022, 77, 102346.	7.0	2
2629	Online Handwritten Bangla and Devanagari Character Recognition by using CNN: A Deep Learning Concept., 2020,,.		3
2630	Using CNN With Handcrafted Features for Prostate Cancer Classification. , 2020, , .		1
2631	Cordic Based Hardware Implementation for Object Region Layer of Yolo V2. , 2020, , .		1
2632	Deep learning for Antisocial Behaviour Analysis on Social Media. , 2020, , .		2
2633	Brain Tumor Segmentation from Multi-Spectral Magnetic Resonance Image Data Using an Ensemble Learning Approach. , 2020, , .		2

#	ARTICLE	IF	CITATIONS
2634	Magnetic Resonance Imaging (MRI) For Brain Tumor And Seizures Classification Using Recurrent Neural Network. , 2020, , .		1
2635	Convolutional Neural Network Design for Breast Cancer Medical Image Classification. , 2020, , .		3
2636	Volcanic Seismic Event Classification based on CNN Architectures. , 2020, , .		5
2637	Boundary-attention Loss Function in Neural Network for Pathological Lymph Nodes Segmentation based on PET/CT Images. , 2020, , .		2
2638	SpecMark: A Spectral Watermarking Framework for IP Protection of Speech Recognition Systems. , 0, , .		3
2639	Classification of Medical Thermograms using Transfer Learning. , 2020, , .		0
2640	Medical Image Quality Assessment Method based on Residual Learning. , 2020, , .		1
2641	An automatic analysis approach toward indistinguishability of sampling on the LWE problem. Tsinghua Science and Technology, 2020, 25, 553-563.	4.1	1
2642	Hand-Gun Detection in Images with Transfer Learning-Based Convolutional Neural Networks. , 2020, , .		2
2643	Detecting Masked Faces using Region-based Convolutional Neural Network. , 2020, , .		5
2644	Overfitting Mitigation Analysis in Deep Learning Models for Plant Leaf Disease Recognition., 2020,,.		7
2645	Transfer Learning by Deep Tuning of Pre-trained Networks for Pulmonary Nodule Detection. , 2020, , .		4
2646	Transfer Learning Approach for the Classification of Conidial Fungi (Genus Aspergillus) Thru Pre-trained Deep Learning Models. , 2020, , .		13
2647	Water spray detection for smart irrigation systems with Mask R-CNN and UAV footage. , 2020, , .		13
2648	An Internal Cluster Validity Index Using a Distance-based Separability Measure. , 2020, , .		5
2649	MagNet: A Machine Learning Framework for Magnetic Core Loss Modeling. , 2020, , .		24
2650	Convolutional Neural Network Based Criminal Detection. , 2020, , .		7
2651	Evolutionary Neural Network and Visualization for CNN-based Pulmonary Textures Classification. , 2020, , .		2

#	ARTICLE	IF	CITATIONS
2652	Deep Transfer Learning for Nucleus and Micronucleus Recognition. , 2020, , .		4
2653	Face completion with pyramid semantic attention and latent codes. , 2020, , .		1
2654	Chest X-Ray Image Analysis to Augment the Decision Making in Diagnosing Pneumonia using Convolutional Neural Networks Algorithm. , 2020, , .		0
2655	Drug Resistance Prediction of Non-small Cell Lung Cancer Based on Deep Learning. , 2020, , .		1
2656	Comprehensive Assessment of Coronary Calcification in Intravascular OCT Using a Spatial-Temporal Encoder-Decoder Network. IEEE Transactions on Medical Imaging, 2022, 41, 857-868.	5 . 4	11
2657	Radiomics and Deep Learning in Brain Metastases: Current Trends and Roadmap to Future Applications. Investigative Magnetic Resonance Imaging, 2021, 25, 266.	0.2	6
2659	Conditional Independence-based Causal Discovery Algorithm for Few-Shot Feature Selection. , 2021, , .		0
2660	Ensemble learning as a prerogative method of predicting mortality of patients with cardiovascular diseases., 2021,,.		0
2661	DeepDup: Duplicate Question Detection in Community Question Answering., 2021,,.		1
2662	Deep Learning Approaches to Identify Sukabumi Potentials Through Images on Instagram. , 2021, , .		0
2663	Universal Face Recognition Using Multiple Deep Learning Agent and Lazy Learning Algorithm. CommIT Journal, 2021, 15, 65-77.	0.2	0
2664	A Review on Vessel Segmentation of X-Ray Coronary Angiography Images Based on Deep Learning. , 2021,		0
2665	Automated gastrointestinal abnormalities detection from endoscopic images., 2021,,.		0
2666	Characterization of abnormalities in breast cancer images using ⟨scp⟩natureâ€inspired⟨/scp⟩ metaheuristic optimized convolutional neural networks model. Concurrency Computation Practice and Experience, 2022, 34, .	1.4	20
2667	Transfer Learning Performance Analysis for VGG16 in Hurricane Damage Building Classification., 2021,		1
2668	Al-based Quantification of Lung Emphysema and its Correlation with Lung Function Test Results (Literature Review). RadiologiA¢ – Praktika, 2021, , 43-54.	0.0	0
2669	Special Convolutional Neural Network for Identification and Positioning of Interstitial Lung Disease Patterns in Computed Tomography Images. Pattern Recognition and Image Analysis, 2021, 31, 730-738.	0.6	3
2670	Mammography Data Augmentation Using ACGAN., 2021,,.		0

#	Article	IF	CITATIONS
2671	Convolutional Neural Networks for Cellular Drug Response Prediction Using Immunofluorescence Images of Intracellular Actin Filament Networks. , 2021, , .		О
2672	An Improved Speech Recognition System Based on Transformer Language Model. , 2021, , .		0
2673	A Medical Pre-Diagnosis System for Histopathological Image of Breast Cancer., 2021,,.		3
2674	Covid-19 Based Automated Screening System. , 2021, , .		2
2675	Transfer Learning-Based Classification of Gastrointestinal Polyps., 2021, , .		2
2676	Arabic handwritten text line segmentation using a multi-agent system and a directed CNN. , 2021, , .		1
2677	Time Series Similarity Analysis Framework in Fresh Produce Yield Forecast Domain., 2021,,.		4
2678	TensorFlow Object Detection Model for Retinal Vascular Junctions Extraction. , 2021, , .		0
2679	Application of Multi-dimensional Intelligent Perception in the Construction of Intelligent Pumped Storage Power Plant., 2021,,.		0
2680	Predicting Malignancy and Benign Thyroid Nodule Using Multi-Scale Feature Fusion and Deep Learning. Pattern Recognition and Image Analysis, 2021, 31, 830-841.	0.6	1
2681	Wave Height Inversion and Sea State Classification Based on Deep Learning of Radar Sea Clutter Data., 2021,,.		2
2682	A Deep Learning Classification Method for Early Endometrial Cancer on MRI Images., 2021,,.		0
2683	Efficient DNN-Based Classification of Whole Slide Gram Stain Images for Microbiology., 2021,,.		2
2684	Bearing Fault Diagnosis under Variable Working Conditions Based on Deep Residual Shrinkage Networks and Transfer Learning. Journal of Sensors, 2021, 2021, 1-13.	0.6	6
2685	Breast microscopic cancer segmentation and classification using unique <scp>4â€qubit</scp> â€quantum model. Microscopy Research and Technique, 2022, 85, 1926-1936.	1.2	20
2686	A Comprehensive Review of Deep Learning-Based Crack Detection Approaches. Applied Sciences (Switzerland), 2022, 12, 1374.	1.3	45
2687	Building automation systems., 2022,, 525-581.		3
2688	Development of a new machine vision algorithm to estimate potato's shape and size based on support vector machine. Journal of Food Process Engineering, 2022, 45, .	1.5	8

#	Article	IF	CITATIONS
2689	Neural Transfer Learning for Repairing Security Vulnerabilities in C Code. IEEE Transactions on Software Engineering, 2023, 49, 147-165.	4.3	22
2690	Segmentation of Diffuse Lung Abnormality Patterns on Computed Tomography Images using Partially Supervised Learning. Advanced Biomedical Engineering, 2022, 11, 25-36.	0.4	1
2691	Designing Novel AAD Pooling in Hardware for a Convolutional Neural Network Accelerator. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2022, 30, 303-314.	2.1	23
2693	Al-Driven Image Analysis in Central Nervous System Tumors-Traditional Machine Learning, Deep Learning and Hybrid Models. Journal of Biotechnology and Biomedicine, 2022, 05, 1-19.	0.1	4
2694	Industrial object and defect recognition utilizing multilevel feature extraction from industrial scenes with Deep Learning approach. Journal of Ambient Intelligence and Humanized Computing, 2023, 14, 10263-10276.	3.3	11
2695	Multiâ€label hybrid radar signal recognition based on a feature pyramid network and class activation mapping. IET Radar, Sonar and Navigation, 2022, 16, 786-798.	0.9	2
2696	Al-aided general clinical diagnoses verified by third-parties with dynamic uncertain causality graph extended to also include classification. Artificial Intelligence Review, 2022, , 1-37.	9.7	3
2698	Surveillance of pine wilt disease by high resolution satellite. Journal of Forestry Research, 2022, 33, 1401-1408.	1.7	12
2700	Guiding Labelling Effort for Efficient Learning With Georeferenced Images. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2023, 45, 593-607.	9.7	3
2701	Classifying central serous chorioretinopathy subtypes with a deep neural network using optical coherence tomography images: a cross-sectional study. Scientific Reports, 2022, 12, 422.	1.6	3
2702	A Pseudo-Siamese Feature Fusion Generative Adversarial Network for Synthesizing High-Quality Fetal Four-Chamber Views. IEEE Journal of Biomedical and Health Informatics, 2023, 27, 1193-1204.	3.9	9
2703	Chemotherapy response prediction with diffuser elapser network. Scientific Reports, 2022, 12, 1628.	1.6	4
2704	The NMT Scalp EEG Dataset: An Open-Source Annotated Dataset of Healthy and Pathological EEG Recordings for Predictive Modeling. Frontiers in Neuroscience, 2021, 15, 755817.	1.4	9
2705	An ensemble of deep learning algorithms for popularity prediction of flickr images. Multimedia Tools and Applications, 2022, 81, 3253-3274.	2.6	5
2706	Estimating adsorption isotherm parameters in chromatography via a virtual injection promoting double feed-forward neural network. Journal of Inverse and Ill-Posed Problems, 2020, .	0.5	3
2707	Detection and diagnosis of <scp>COVID</scp> â€19 infection in lungs images using deep learning techniques. International Journal of Imaging Systems and Technology, 2022, 32, 462-475.	2.7	8
2708	Detection of Left Atrial Myopathy Using Artificial Intelligence–Enabled Electrocardiography. Circulation: Heart Failure, 2022, 15, CIRCHEARTFAILURE120008176.	1.6	10
2709	FCP-Net: A Feature-Compression-Pyramid Network Guided by Game-Theoretic Interactions for Medical Image Segmentation. IEEE Transactions on Medical Imaging, 2022, 41, 1482-1496.	5.4	14

#	Article	IF	CITATIONS
2710	Deep Learning Analysis of Cardiac MRI in Legacy Datasets: Multi-Ethnic Study of Atherosclerosis. Frontiers in Cardiovascular Medicine, 2021, 8, 807728.	1.1	8
2711	Deep Learning in Large and Multi-Site Structural Brain MR Imaging Datasets. Frontiers in Neuroinformatics, 2021, 15, 805669.	1.3	19
2712	BACS: blockchain and AutoML-based technology for efficient credit scoring classification. Annals of Operations Research, 2022, , 1-21.	2.6	12
2713	Diagnostic Value of Artificial Intelligence-Assisted Endoscopic Ultrasound for Pancreatic Cancer: A Systematic Review and Meta-Analysis. Diagnostics, 2022, 12, 309.	1.3	19
2714	Improved Diagnostic Accuracy of Ameloblastoma and Odontogenic Keratocyst on Cone-Beam CT by Artificial Intelligence. Frontiers in Oncology, 2021, 11, 793417.	1.3	11
2715	DermoExpert: Skin lesion classification using a hybrid convolutional neural network through segmentation, transfer learning, and augmentation. Informatics in Medicine Unlocked, 2022, 28, 100819.	1.9	57
2716	Gastrointestinal stromal tumors diagnosis on multi-center endoscopic ultrasound images using multi-scale image normalization and transfer learning. Technology and Health Care, 2022, 30, 47-59.	0.5	2
2717	Hyperspectral terahertz imaging and optical clearance for cancer classification in breast tumor surgical specimen. Journal of Medical Imaging, 2022, 9, 014002.	0.8	3
2718	Investigation of biases in convolutional neural networks for semantic segmentation using performance sensitivity analysis. Zeitschrift Fur Medizinische Physik, 2022, 32, 346-360.	0.6	2
2719	CovNet: A Transfer Learning Framework for Automatic COVID-19 Detection From Crowd-Sourced Cough Sounds. Frontiers in Digital Health, 2021, 3, 799067.	1.5	8
2720	Analysis of Urban Visual Memes Based on Dictionary Learning: An Example with Urban Image Data. Symmetry, 2022, 14, 175.	1.1	0
2721	Optimal Hybrid Feature Extraction with Deep Learning for COVID-19 Classifications. Computers, Materials and Continua, 2022, 71, 6257-6273.	1.5	1
2722	Two-Stage Deep Neural Network via Ensemble Learning for Melanoma Classification. Frontiers in Bioengineering and Biotechnology, 2021, 9, 758495.	2.0	12
2723	A holistic overview of deep learning approach in medical imaging. Multimedia Systems, 2022, 28, 881-914.	3.0	37
2724	Probing transfer learning with a model of synthetic correlated datasets. Machine Learning: Science and Technology, 2022, 3, 015030.	2.4	5
2725	Abnormality classification in small datasets of capsule endoscopy images. Procedia Computer Science, 2022, 196, 469-476.	1.2	6
2726	End-to-end diabetic retinopathy grading based on fundus fluorescein angiography images using deep learning. Graefe's Archive for Clinical and Experimental Ophthalmology, 2022, 260, 1663-1673.	1.0	15
2727	Prospects of Surface-Enhanced Raman Spectroscopy for Biomarker Monitoring toward Precision Medicine. ACS Photonics, 2022, 9, 333-350.	3.2	53

#	Article	IF	CITATIONS
2728	Literature review: efficient deep neural networks techniques for medical image analysis. Neural Computing and Applications, 2022, 34, 5791-5812.	3.2	63
2730	Transfer Learning of the ResNet-18 and DenseNet-121 Model Used to Diagnose Intracranial Hemorrhage in CT Scanning. Current Pharmaceutical Design, 2022, 28, 287-295.	0.9	26
2731	AutoCellANLS: An Automated Analysis System for Mycobacteria-Infected Cells Based on Unstained Micrograph. Biomolecules, 2022, 12, 240.	1.8	0
2732	Highly Cited Publications in WoS, Biomedical Engineering in Science Citation Index Expanded A Bibliometric Analysis., 2022, 1, 24-34.		1
2733	A Portable Biometrics System Based on Forehead Subcutaneous Vein Pattern and Periocular Biometric Pattern. IEEE Sensors Journal, 2022, 22, 7022-7033.	2.4	3
2734	Towards an Interpretable Autoencoder: A Decision-Tree-Based Autoencoder and its Application in Anomaly Detection. IEEE Transactions on Dependable and Secure Computing, 2023, 20, 1048-1059.	3.7	15
2735	A New Approach of Fatigue Classification Based on Data of Tongue and Pulse With Machine Learning. Frontiers in Physiology, 2021, 12, 708742.	1.3	8
2737	Fused feature signatures to probe tumour radiogenomics relationships. Scientific Reports, 2022, 12, 2173.	1.6	3
2738	Faster R-CNN based Traffic Sign Detection and Classification. WSEAS Transactions on Signal Processing, 2022, 18, 1-10.	0.3	1
2739	Automated instrument-tracking for 4D video-rate imaging of ophthalmic surgical maneuvers. Biomedical Optics Express, 2022, 13, 1471-1484.	1.5	5
2740	Machine Learning-Based Automated Diagnostic Systems Developed for Heart Failure Prediction Using Different Types of Data Modalities: A Systematic Review and Future Directions. Computational and Mathematical Methods in Medicine, 2022, 2022, 1-30.	0.7	40
2741	Medical thermograms' classification using deep transfer learning models and methods. Multimedia Tools and Applications, 2022, 81, 9367-9384.	2.6	2
2742	FTAP: Feature transferring autonomous machine learning pipeline. Information Sciences, 2022, 593, 385-397.	4.0	12
2743	Noise Immunity and Robustness Study of Image Recognition Using a Convolutional Neural Network. Sensors, 2022, 22, 1241.	2.1	10
2744	Highly Efficient and Accurate Deep Learning–Based Classification of MRI Contrast on a CPU and GPU. Journal of Digital Imaging, 2022, , 1.	1.6	2
2745	Prognosticating outcome using magnetic resonance imaging in patients with moderate to severe traumatic brain injury: a machine learning approach. Brain Injury, 2022, 36, 353-358.	0.6	7
2746	Wheat-Net: An Automatic Dense Wheat Spike Segmentation Method Based on an Optimized Hybrid Task Cascade Model. Frontiers in Plant Science, 2022, 13, 834938.	1.7	5
2747	Multitarget Detection in Depth-Perception Traffic Scenarios. Mathematical Problems in Engineering, 2022, 2022, 1-7.	0.6	2

#	Article	IF	CITATIONS
2748	Classifying neovascular age-related macular degeneration with a deep convolutional neural network based on optical coherence tomography images. Scientific Reports, 2022, 12, 2232.	1.6	15
2749	A transfer learning-based CNN and LSTM hybrid deep learning model to classify motor imagery EEG signals. Computers in Biology and Medicine, 2022, 143, 105288.	3.9	60
2752	Adversarial training for prostate cancer classification using magnetic resonance imaging. Quantitative Imaging in Medicine and Surgery, 2022, 12, 3276-3287.	1.1	7
2753	Understanding the Research Landscape of Deep Learning in Biomedical Science: Scientometric Analysis. Journal of Medical Internet Research, 2022, 24, e28114.	2.1	3
2754	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
2755	Advanced pattern recognition tools for disease diagnosis. , 2022, , 195-229.		0
2757	Pneumonia Detection Using Data Mining Techniques. , 2022, , .		0
2759	Exploring Deep Learning Applications for COVID-19 Using X-Ray. SSRN Electronic Journal, 0, , .	0.4	0
2760	AIM in Osteoporosis. , 2022, , 785-801.		0
2761	A Deep Learning Framework for Enhancer Prediction Using Word Embedding and Sequence Generation. SSRN Electronic Journal, 0, , .	0.4	0
2763	Emergence of Deep Machine Learning in Medicine. , 2022, , 449-457.		0
2764	Transfer learning with fine-tuned deep CNN ResNet50 model for classifying COVID-19 from chest X-ray images. Informatics in Medicine Unlocked, 2022, 30, 100916.	1.9	33
2765	Robust multi-modal prostate cancer classification via feature autoencoder and dual attention. Informatics in Medicine Unlocked, 2022, 30, 100923.	1.9	6
2766	Impact of quality, type and volume of data used by deep learning models in the analysis of medical images. Informatics in Medicine Unlocked, 2022, 29, 100911.	1.9	15
2767	Activity Classification Based on Feature Fusion of FMCW Radar Human Motion Micro-Doppler Signatures. IEEE Sensors Journal, 2022, 22, 8648-8662.	2.4	29
2768	Region Proposal based Convolutional Neural Network for missing child detection. International Journal of Sociotechnology and Knowledge Development, 2022, 14, 0-0.	0.4	0
2769	ECG-Based Driver's Stress Detection Using Deep Transfer Learning and Fuzzy Logic Approaches. IEEE Access, 2022, 10, 29788-29809.	2.6	9
2770	Lower-Limb Joint Torque Prediction Using LSTM Neural Networks and Transfer Learning. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2022, 30, 600-609.	2.7	24

#	Article	IF	CITATIONS
2771	Artificial Intelligence for Colonoscopy: Past, Present, and Future. IEEE Journal of Biomedical and Health Informatics, 2022, 26, 3950-3965.	3.9	11
2772	Robust <i>H_{âîž} </i> Observer-Based Reference Tracking Control Design of Nonlinear Stochastic Systems: HJIE-Embedded Deep Learning Approach. IEEE Access, 2022, 10, 39889-39911.	2.6	1
2773	Machine Learning in Real-Time Internet of Things (IoT) Systems: A Survey. IEEE Internet of Things Journal, 2022, 9, 8364-8386.	5 . 5	15
2774	A 3d Feature Extraction-Based Method for Coal Cleat Characterization Using X-Ray Μct and its Application to a Bowen Basin Coal Specimen. SSRN Electronic Journal, 0, , .	0.4	0
2775	Diabetic Retinopathy: Detection and Classification Using AlexNet, GoogleNet and ResNet50 Convolutional Neural Networks. Communications in Computer and Information Science, 2022, , 259-271.	0.4	6
2776	CASSANN-v2: A high-performance CNN accelerator architecture with on-chip memory self-adaptive tuning. IEICE Electronics Express, 2022, 19, 20220124-20220124.	0.3	7
2777	A Portable Sign Language Collection and Translation Platform with Smart Watches Using a BLSTM-Based Multi-Feature Framework. Micromachines, 2022, 13, 333.	1.4	8
2778	Multiparametric Oncologic Hybrid Imaging: Machine Learning Challenges and Opportunities. RoFo Fortschritte Auf Dem Gebiet Der Rontgenstrahlen Und Der Bildgebenden Verfahren, 2022, 194, 605-612.	0.7	1
2779	Automatic Screening of Bolts with Anti-Loosening Coating Using Grad-CAM and Transfer Learning with Deep Convolutional Neural Networks. Applied Sciences (Switzerland), 2022, 12, 2029.	1.3	0
2780	PreRBP-TL: prediction of species-specific RNA-binding proteins based on transfer learning. Bioinformatics, 2022, 38, 2135-2143.	1.8	17
2781	Artificial intelligence enabled automated diagnosis and grading of ulcerative colitis endoscopy images. Scientific Reports, 2022, 12, 2748.	1.6	38
2782	Recent Applications of Artificial Intelligence in Early Cancer Detection. Current Medicinal Chemistry, 2022, 29, 4410-4435.	1.2	6
2783	A COMPREHENSIVE QRS DETECTION METHOD BASED ON EXCLUSIVE MOTHER WAVELET AND ARTIFICIAL NEURAL NETWORK. Biomedical Engineering - Applications, Basis and Communications, 2022, 34, .	0.3	2
2784	Convolutional neural network based hurricane damage detection using satellite images. Soft Computing, 2022, 26, 7831-7845.	2.1	11
2785	Classification of Diabetic Foot Ulcers Using Class Knowledge Banks. Frontiers in Bioengineering and Biotechnology, 2021, 9, 811028.	2.0	16
2786	Grayscale medical image segmentation method based on 2D&3D object detection with deep learning. BMC Medical Imaging, 2022, 22, 33.	1.4	5
2787	Potential Applications of Artificial Intelligence in Clinical Trials for Alzheimer's Disease. Life, 2022, 12, 275.	1.1	9
2788	The Detection of Blastocyst Embryo In Vitro Fertilization (IVF). , 2022, , .		0

#	Article	IF	CITATIONS
2789	Radiological Analysis of COVID-19 Using Computational Intelligence: A Broad Gauge Study. Journal of Healthcare Engineering, 2022, 2022, 1-25.	1.1	9
2790	Incorporating Radiomics into Machine Learning Models to Predict Outcomes of Neuroblastoma. Journal of Digital Imaging, 2022, 35, 605-612.	1.6	12
2791	Unsupervised machine learning for identifying important visual features through bag-of-words using histopathology data from chronic kidney disease. Scientific Reports, 2022, 12, 4832.	1.6	14
2792	An Assessment of Electric Power Consumption Using Random Forest and Transferable Deep Model with Multi-Source Data. Remote Sensing, 2022, 14, 1469.	1.8	1
2793	The need for and conceptual design of an Al model-based Integrated Flight Advisory System. Proceedings of the Institution of Mechanical Engineers, Part O: Journal of Risk and Reliability, 0, , 1748006X2210833.	0.6	3
2794	Mammogram breast cancer CAD systems for mass detection and classification: a review. Multimedia Tools and Applications, 2022, 81, 20043-20075.	2.6	36
2795	Defect Detection of Subway Tunnels Using Advanced U-Net Network. Sensors, 2022, 22, 2330.	2.1	10
2796	Deep Learning–Based Brain Computed Tomography Image Classification with Hyperparameter Optimization through Transfer Learning for Stroke. Diagnostics, 2022, 12, 807.	1.3	15
2797	UnCNN: A New Directed CNN Model for Isolated Arabic Handwritten Characters Recognition. Arabian Journal for Science and Engineering, 2022, 47, 10667-10688.	1.7	6
2798	Segmentation and detection of brain tumor through optimal selection of integrated features using transfer learning. Multimedia Tools and Applications, 2022, 81, 27363-27395.	2.6	8
2799	Siamese Network-Based All-Purpose-Tracker, a Model-Free Deep Learning Tool for Animal Behavioral Tracking. Frontiers in Behavioral Neuroscience, 2022, 16, 759943.	1.0	1
2800	On the Reliability of CNNs in Clinical Practice: A Computer-Aided Diagnosis System Case Study. Applied Sciences (Switzerland), 2022, 12, 3269.	1.3	6
2801	Deep-fake video detection approaches using convolutional $\hat{a} \in \text{``recurrent neural networks.}$ Journal of Control and Decision, 2023, 10, 198-214.	0.7	5
2802	ICA-Unet: An improved U-net network for brown adipose tissue segmentation. Journal of Innovative Optical Health Sciences, 2022, 15, .	0.5	5
2803	Application of Artificial Intelligence Combined with Three-Dimensional Digital Technology in the Design of Complex Works of Art. Wireless Communications and Mobile Computing, 2022, 2022, 1-9.	0.8	3
2804	An improved YOLOv5 model based on visual attention mechanism: Application to recognition of tomato virus disease. Computers and Electronics in Agriculture, 2022, 194, 106780.	3.7	128
2805	Self-Supervised Deep Learning for Improved Image-Based Wave-Front Sensing. Photonics, 2022, 9, 165.	0.9	1
2806	A coaxial excitation, <scp>dualâ€redâ€greenâ€blue/nearâ€infrared</scp> paired imaging system toward computerâ€aided detection of parathyroid glands in situ <i>and</i> ex vivo. Journal of Biophotonics, 2022, 15, e202200008.	1.1	6

#	Article	IF	CITATIONS
2807	U-Net feature fusion for multi-class semantic segmentation of urban fabrics from Sentinel-2 imagery: an application on Grand Est Region, France. International Journal of Remote Sensing, 2022, 43, 1983-2011.	1.3	6
2808	An Empirical Evaluation of Convolutional Networks for Malaria Diagnosis. Journal of Imaging, 2022, 8, 66.	1.7	13
2809	SVseg: Stacked Sparse Autoencoder-Based Patch Classification Modeling for Vertebrae Segmentation. Mathematics, 2022, 10, 796.	1.1	32
2810	Deep learning framework for component identification. International Journal of Information Technology (Singapore), 2022, 14, 3301-3309.	1.8	3
2811	A new pairwise deep learning feature for environmental microorganism image analysis. Environmental Science and Pollution Research, 2022, 29, 51909-51926.	2.7	30
2812	Prediction of the Fundus Tessellation Severity With Machine Learning Methods. Frontiers in Medicine, 2022, 9, 817114.	1.2	5
2813	Identification of the left ventricle endocardial border on two-dimensional ultrasound images using deep layer aggregation for residual dense networks. Applied Intelligence, 0, , 1.	3.3	0
2814	Transfer learning model for false positive reduction in lymph node detection via sparse coding and deep learning. Journal of Intelligent and Fuzzy Systems, 2022, 43, 2121-2133.	0.8	2
2815	Reporting on the Value of Artificial Intelligence in Predicting the Optimal Embryo for Transfer: A Systematic Review including Data Synthesis. Biomedicines, 2022, 10, 697.	1.4	12
2816	Radiology Imaging Scans for Early Diagnosis of Kidney Tumors: A Review of Data Analytics-Based Machine Learning and Deep Learning Approaches. Big Data and Cognitive Computing, 2022, 6, 29.	2.9	29
2817	Identification of Diffracted Vortex Beams at Different Propagation Distances Using Deep Learning. Frontiers in Physics, 2022, 10, .	1.0	3
2818	Medical image diagnosis of prostate tumor based on PSP-Net+VGG16 deep learning network. Computer Methods and Programs in Biomedicine, 2022, 221, 106770.	2.6	16
2819	On the domain aided performance boosting technique for deep predictive networks: A COVID-19 scenario. Intelligent Decision Technologies, 2022, , 1-15.	0.6	0
2820	The Global Research of Artificial Intelligence on Prostate Cancer: A 22-Year Bibliometric Analysis. Frontiers in Oncology, 2022, 12, 843735.	1.3	45
2821	WaSP-ECG: A Wave Segmentation Pretraining Toolkit for Electrocardiogram Analysis. Frontiers in Physiology, 2022, 13, 760000.	1.3	1
2822	<scp>MRI</scp> â€Based Computerâ€Aided Diagnostic Model to Predict Tumor Grading and Clinical Outcomes in Patients With Soft Tissue Sarcoma. Journal of Magnetic Resonance Imaging, 2022, 56, 1733-1745.	1.9	7
2823	Diagnosis of Cubital Tunnel Syndrome Using Deep Learning on Ultrasonographic Images. Diagnostics, 2022, 12, 632.	1.3	7
2824	Multi-network fusion algorithm with transfer learning for green cucumber segmentation and recognition under complex natural environment. Computers and Electronics in Agriculture, 2022, 194, 106789.	3.7	20

#	Article	IF	CITATIONS
2825	The Role of Knowledge Creation-Oriented Convolutional Neural Network in Learning Interaction. Computational Intelligence and Neuroscience, 2022, 2022, 1-12.	1.1	1
2826	Face Recognition Based on Deep Learning and FPGA for Ethnicity Identification. Applied Sciences (Switzerland), 2022, 12, 2605.	1.3	15
2827	Novel technical and privacy-preserving technology for artificial intelligence in ophthalmology. Current Opinion in Ophthalmology, 2022, Publish Ahead of Print, .	1.3	9
2828	A Novel Social Interaction Assistive Device for Arab Deaf People. ACM Transactions on Asian and Low-Resource Language Information Processing, 2022, 21, 1-19.	1.3	1
2829	Novel computer aided diagnostic models on multimodality medical images to differentiate well differentiated liposarcomas from lipomas approached by deep learning methods. Orphanet Journal of Rare Diseases, 2022, 17, 158.	1.2	19
2830	Predicting the Proliferation of Tongue Cancer With Artificial Intelligence in Contrast-Enhanced CT. Frontiers in Oncology, 2022, 12, 841262.	1.3	2
2831	Bruise Detection and Classification of Strawberries Based on Thermal Images. Food and Bioprocess Technology, 2022, 15, 1133-1141.	2.6	12
2832	Pulmonary nodules recognition based on parallel cross-convolution. Multimedia Tools and Applications, 0, , .	2.6	1
2833	Accurate auto-labeling of chest X-ray images based on quantitative similarity to an explainable Al model. Nature Communications, 2022, 13, 1867.	5.8	20
2834	A transfer learning CNN-LSTM network-based production progress prediction approach in IIoT-enabled manufacturing. International Journal of Production Research, 2023, 61, 4045-4068.	4.9	8
2835	Rapid assessment of mine rehabilitation areas with airborne LiDAR and deep learning: bauxite strip mining in Queensland, Australia. Geocarto International, 2022, 37, 11223-11252.	1.7	9
2836	Adapting the residual dense network for seismic data denoising and upscaling. Geophysics, 2022, 87, V321-V340.	1.4	4
2837	Advances in Machine Learning Approaches to Heart Failure with Preserved Ejection Fraction. Heart Failure Clinics, 2022, 18, 287-300.	1.0	9
2838	Recent advances and clinical applications of deep learning in medical image analysis. Medical Image Analysis, 2022, 79, 102444.	7.0	215
2839	Image-based microstructure classification of mortar and paste using convolutional neural networks and transfer learning. Cement and Concrete Composites, 2022, 129, 104496.	4.6	15
2840	Automated knee cartilage segmentation for heterogeneous clinical MRI using generative adversarial networks with transfer learning. Quantitative Imaging in Medicine and Surgery, 2022, 12, 2620-2633.	1.1	14
2841	Improved identification of cotton cultivated areas by applying instance-based transfer learning on the time series of MODIS NDVI. Catena, 2022, 213, 106130.	2.2	13
2842	PS-Tree: A piecewise symbolic regression tree. Swarm and Evolutionary Computation, 2022, 71, 101061.	4.5	8

#	Article	IF	CITATIONS
2843	Guaranteed approximation error estimation of neural networks and model modification. Neural Networks, 2022, 151, 61-69.	3.3	13
2844	Adversarial attacks and defenses on Al in medical imaging informatics: A survey. Expert Systems With Applications, 2022, 198, 116815.	4.4	31
2845	Automatic construction of filter tree by genetic programming for ultrasound guidance image segmentation. Biomedical Signal Processing and Control, 2022, 76, 103641.	3.5	3
2846	SAR Ship Detection Based on Attention Pyramids Network for Complex Scenes. , 2021, , .		0
2847	Digital Solution to Combat Bribery and Justice Restoration System. , 2021, , .		1
2848	Combining Image Features and Patient Metadata to Enhance Transfer Learning., 2021, 2021, 2660-2663.		3
2849	DCV: A Taxonomy on Deep Learning Based Lung Cancer Classification. , 2021, , .		0
2850	Best Performance Comparative Analysis of Architecture Deep Learning on CT Images for Lung Nodules Classification., 2021,,.		2
2851	Performance Comparison of Deep Learning Approach for Automatic CT Image Segmentation by Using Window Leveling. , 2021, , .		2
2852	Utility of Inter-subject Transfer Learning for Wearable-Sensor-Based Joint Torque Prediction Models. , 2021, 2021, 4901-4907.		1
2853	4-Character Captcha Recognition Based on the CNN., 2021,,.		0
2854	Traffic and road sign recognition using deep convolutional neural network. , 2021, , .		4
2855	Two and multiple categorization of breast pathological images by transfer learning. , 2021, , .		3
2856	Fall Detection from Smart Wearable Sensors using Deep Convolutional Neural Network with Squeeze-and-Excitation Module. , 2021, , .		15
2857	Wheat Head Detection and Crop Health Classification System. , 2021, , .		2
2858	<scp>Multiâ€scaled</scp> feature fusion enabled convolutional neural network for predicting fibrous dysplasia bone disorder. Expert Systems, 2023, 40, .	2.9	4
2859	Classification of Medical Images Using Deep Learning to Aid in Adaptive Big Data Crowdsourcing Platforms. Smart Innovation, Systems and Technologies, 2022, , 69-77.	0.5	4
2860	A Study on an Evaluation of the Managed Residential Environment Improvement Project Using Deep-Learning Model. Journal of Korea Planning Association, 2021, 56, 26-38.	0.2	0

#	Article	IF	CITATIONS
2861	A Survey on Exploring Deep Learning in Medical Image Processing. , 2021, , .		0
2862	Deep convolutional autoencoders as generic feature extractors in seismological applications. Artificial Intelligence in Geosciences, 2021, 2, 96-106.	0.9	4
2863	Mango Leaf Disease Recognition and Classification Using Novel Segmentation and Vein Pattern Technique. Applied Sciences (Switzerland), 2021, 11, 11901.	1.3	24
2864	Explainable Deep Learning Models on the Diagnosis of Pneumonia. , 2021, , .		2
2865	Predicting fault slip via transfer learning. Nature Communications, 2021, 12, 7319.	5.8	29
2866	Noise Filtering Mobile Application for Speech Enhancement using a Redundant Convolutional Encoder-Decoder., 2021,,.		2
2867	CNN-GRU-AM for Shared Bicycles Demand Forecasting. Computational Intelligence and Neuroscience, 2021, 2021, 1-14.	1.1	8
2868	Breast Pathological Image Classification Based on VGG16 Feature Concatenation. Journal of Shanghai Jiaotong University (Science), 2022, 27, 473-484.	0.5	3
2870	CT Image Harmonization for Enhancing Radiomics Studies. , 2021, , .		5
2871	Few-Shot Wideband Tympanometry Classification in Otosclerosis via Domain Adaptation with Gaussian Processes. Applied Sciences (Switzerland), 2021, 11, 11839.	1.3	1
2872	BreastNet18: A High Accuracy Fine-Tuned VGG16 Model Evaluated Using Ablation Study for Diagnosing Breast Cancer from Enhanced Mammography Images. Biology, 2021, 10, 1347.	1.3	43
2873	Deep Radiotranscriptomics of Non-Small Cell Lung Carcinoma for Assessing Molecular and Histology Subtypes with a Data-Driven Analysis. Diagnostics, 2021, 11, 2383.	1.3	14
2874	Wavelet Transform and Convolutional Neural Network Based Techniques in Combating Sudden Cardiac Death. Emitter: International Journal of Engineering Technology, 2021, 9, 377-389.	0.7	1
2875	Transfer learning for automatic joint segmentation of thyroid and breast lesions from ultrasound images. International Journal of Computer Assisted Radiology and Surgery, 2022, 17, 363-372.	1.7	6
2876	Novel Multi-Modal Throat Inflammation and Chest Radiography based Early-Diagnosis and Mass-Screening of COVID-19. Open Biomedical Engineering Journal, 2021, 15, 226-235.	0.7	2
2877	Fully Convolutional Networks for Automatically Generating Image Masks to Train Mask R-CNN. , 2021, , .		0
2878	Automatic classification method of liver ultrasound standard plane images using pre-trained convolutional neural network. Connection Science, 2022, 34, 975-989.	1.8	10
2879	Semi-Automated X-ray Transmission Image Annotation Using Data-efficient Convolutional Neural Networks and Cooperative Machine Learning. , 2021, , .		1

#	Article	IF	CITATIONS
2880	A convolutional deep learning model for improving mammographic breast-microcalcification diagnosis. Scientific Reports, 2021, 11, 23925.	1.6	12
2881	Facial Recognition based on Deep Learning. , 2021, , .		O
2882	Beet seedling and weed recognition based on convolutional neural network and multi-modality images. Multimedia Tools and Applications, 2022, 81, 5239-5258.	2.6	2
2883	ACP-MHCNN: an accurate multi-headed deep-convolutional neural network to predict anticancer peptides. Scientific Reports, 2021, 11, 23676.	1.6	31
2884	Convolutional neural network and its pretrained models for image classification and object detection: A survey. Concurrency Computation Practice and Experience, 2022, 34, .	1.4	13
2885	Dimension fusion: Dimension-level dynamically composable accelerator for convolutional neural networks. IEICE Electronics Express, 2021, 18, 20210491-20210491.	0.3	2
2886	Forecasting adverse surgical events using self-supervised transfer learning for physiological signals. Npj Digital Medicine, 2021, 4, 167.	5.7	25
2887	Synthesizing Disparate LiDAR and Satellite Datasets through Deep Learning to Generate Wall-to-Wall Regional Inventories for the Complex, Mixed-Species Forests of the Eastern United States. Remote Sensing, 2021, 13, 5113.	1.8	5
2888	An ensemble artificial intelligence <scp>â€enabled MIoT</scp> for automated diagnosis of malaria parasite. Expert Systems, 2022, 39, .	2.9	1
2889	Machine Learning for Early Detection of Hypoxic-Ischemic Brain Injury After Cardiac Arrest. Neurocritical Care, 2022, 36, 974-982.	1.2	14
2890	Improving Classification Accuracy of Pulmonary Nodules using Simplified Deep Neural Network. Open Biomedical Engineering Journal, 2021, 15, 180-189.	0.7	2
2891	A novel ResNet101 model based on dense dilated convolution for image classification. SN Applied Sciences, 2022, 4, 1.	1.5	31
2892	Computer-Aided Diagnostics of Heart Disease Risk Prediction Using Boosting Support Vector Machine. Computational Intelligence and Neuroscience, 2021, 2021, 1-12.	1.1	7
2893	Al-Based Prediction and Prevention of Psychological and Behavioral Changes in Ex-COVID-19 Patients. Frontiers in Psychology, 2021, 12, 782866.	1.1	7
2894	Weakly-supervised deep learning for ultrasound diagnosis of breast cancer. Scientific Reports, 2021, 11, 24382.	1.6	19
2895	Few-Shot Learning For Auromatic Intracranial Hematoma Segmentation. , 2021, , .		1
2898	Valence/Arousal Estimation of Occluded Faces from VR Headsets. , 2021, , .		1
2899	Advances in Visualization of Neural Network Models. Computer Science and Application, 2022, 12, 988-1004.	0.0	0

#	Article	IF	CITATIONS
2901	Multi-Class Voice Disorder Classification Using OpenL3-SVM. SSRN Electronic Journal, 0, , .	0.4	1
2902	A Spatiotemporal-Based Intrusion Detection Model. , 2022, , .		0
2903	Violent activity classification with transferred deep features and 3d-Cnn. Signal, Image and Video Processing, 2023, 17, 139-146.	1.7	3
2904	Development of a Novel CNN Architecture for Improved Diagnosis from Liver Ultrasound Tumor Images. International Journal of Uncertainty, Fuzziness and Knowlege-Based Systems, 2022, 30, 189-210.	0.9	0
2905	Transfer Learning-Based Autosegmentation of Primary Tumor Volumes of Glioblastomas Using Preoperative MRI for Radiotherapy Treatment. Frontiers in Oncology, 2022, 12, 856346.	1.3	5
2906	Development and Validation of a Visually Explainable Deep Learning Model for Classification of C-shaped Canals of the Mandibular SecondAMolars in Periapical and Panoramic Dental Radiographs. Journal of Endodontics, 2022, 48, 914-921.	1.4	19
2907	Deep Learning Assisted Stratification of Amyloid Beta Mutants Using Drying Droplet Patterns. Advanced Materials, 2022, , 2110404.	11.1	3
2908	A gated convolutional neural network for classification of breast lesions in ultrasound images. Soft Computing, 2022, 26, 5241-5250.	2.1	4
2909	Deep Learning Based Detection Tool for Impacted Mandibular Third Molar Teeth. Diagnostics, 2022, 12, 942.	1.3	24
2910	Transfer learning for medical image classification: a literature review. BMC Medical Imaging, 2022, 22, 69.	1.4	181
2911	A novel image representation of GNSS correlation for deep learning multipath detection. Array, 2022, 14, 100167.	2.5	3
2912	Automated deep learning approach for classification of malignant melanoma and benign skin lesions. Multimedia Tools and Applications, 2022, 81, 32643-32660.	2.6	17
2913	Evaluation of landslide susceptibility of the Ya'an–Linzhi section of the Sichuan–Tibet Railway based on deep learning. Environmental Earth Sciences, 2022, 81, 1.	1.3	13
2914	Deepfake Video Detection Based on EfficientNet-V2 Network. Computational Intelligence and Neuroscience, 2022, 2022, 1-13.	1.1	11
2915	Measuring Embedded Human-Like Biases in Face Recognition Models. , 2022, 3, .		3
2916	A Deep Learning Model for the Automatic Recognition of Aplastic Anemia, Myelodysplastic Syndromes, and Acute Myeloid Leukemia Based on Bone Marrow Smear. Frontiers in Oncology, 2022, 12, 844978.	1.3	6
2917	Deep Learning Prediction of Ovarian Malignancy at US Compared with O-RADS and Expert Assessment. Radiology, 2022, 304, 106-113.	3.6	23
2918	Challenges of deep learning methods for COVID-19 detection using public datasets. Informatics in Medicine Unlocked, 2022, 30, 100945.	1.9	17

#	Article	IF	CITATIONS
2919	Ultrasound With Artificial Intelligence Models Predicted Palmer 1B Triangular Fibrocartilage Complex Injuries. Arthroscopy - Journal of Arthroscopic and Related Surgery, 2022, 38, 2417-2424.	1.3	10
2928	Data-Driven Framework for Understanding and Predicting Air Quality in Urban Areas. Frontiers in Big Data, 2022, 5, 822573.	1.8	6
2929	Comparative Study of Deep Learning Models for Detection and Classification of Intracranial Hemorrhage. Lecture Notes in Business Information Processing, 2022, , 122-131.	0.8	3
2930	Optimization of CNN in Capsule Networks for Alzheimer's Disease Prediction Using CT Images. Advances in Intelligent Systems and Computing, 2022, , 551-560.	0.5	2
2931	<i>WSAN</i> : An Effective Model of Weakly Supervised Similarity Analysis Network for the Lung CT Images. IEEE Access, 2022, 10, 53777-53787.	2.6	0
2932	Towards Accelerated and Robust Rreinforcement Learning with Transfer Learning. , 2022, , .		3
2933	Image Infringement Judgement with CNN-based Face Recognition. , 2022, , .		0
2934	LJDA-Net: A Low-Rank Joint Domain Adaptation Network for Industrial Sample Enhancement. IEEE Sensors Journal, 2022, 22, 11881-11891.	2.4	1
2935	Deep Learning Hybrid Models for COVID-19 Prediction. Journal of Global Information Management, 2022, 30, 1-20.	1.4	4
2936	Plant Disease Identification from Leaf Images using Deep CNN's EfficientNet. , 2022, , .		9
2937	Multi-Class Medical Image Classification Based on Feature Ensembling using DeepNets., 2022,,.		0
2938	EMT-NET: Efficient Multitask Network for Computer-Aided Diagnosis of Breast Cancer. , 2022, 2022, .		7
2939	Efficient Framework for Detection of COVID-19 Omicron and Delta Variants Based on Two Intelligent Phases of CNN Models. Computational and Mathematical Methods in Medicine, 2022, 2022, 1-10.	0.7	17
2940	Learning to transfer knowledge from RDF Graphs with gated recurrent units. Intelligent Data Analysis, 2022, 26, 679-694.	0.4	0
2941	Advancement of machine learning in materials science. Materials Today: Proceedings, 2022, 62, 5503-5507.	0.9	11
2942	Deep Learning for Ocular Disease Recognition: An Inner-Class Balance. Computational Intelligence and Neuroscience, 2022, 2022, 1-12.	1.1	23
2943	Improved Deep Convolutional Neural Networks via Boosting for Predicting the Quality of In Vitro Bovine Embryos. Electronics (Switzerland), 2022, 11, 1363.	1.8	6
2944	Deep learning algorithms for detection of diabetic macular edema in OCT images: A systematic review and meta-analysis. European Journal of Ophthalmology, 2023, 33, 278-290.	0.7	2

#	Article	IF	CITATIONS
2945	Analysis of Deep Transfer Learning Methods for Early Diagnosis of the Covid-19 Disease with Chest X-ray Images. Dýzce Üniversitesi Bilim Ve Teknoloji Dergisi, 2022, 10, 628-640.	0.2	1
2946	Cross-vender, cross-tracer, and cross-protocol deep transfer learning for attenuation map generation of cardiac SPECT. Journal of Nuclear Cardiology, 2022, 29, 3379-3391.	1.4	13
2947	Big Data Seismology. Reviews of Geophysics, 2022, 60, .	9.0	24
2948	Sequential Hierarchical Learning with Distribution Transformation for Image Super-Resolution. ACM Transactions on Multimedia Computing, Communications and Applications, 2023, 19, 1-21.	3.0	3
2949	Multi-class classification of breast tissue using optical coherence tomography and attenuation imaging combined via deep learning. Biomedical Optics Express, 2022, 13, 3380.	1.5	9
2950	A deep learning framework for enhancer prediction using word embedding and sequence generation. Biophysical Chemistry, 2022, 286, 106822.	1.5	6
2951	Early severity prediction of BPD for premature infants from chest X-ray images using deep learning: A study at the 28th day of oxygen inhalation. Computer Methods and Programs in Biomedicine, 2022, 221, 106869.	2.6	7
2952	DSSEMFF: A Depthwise Separable Squeeze-and-excitation Based on Multi-featureÂFusion for Image Classification. Sensing and Imaging, 2022, 23, .	1.0	2
2953	Classification of mastoid air cells by CT scan images using deep learning method. Journal of Big Data, 2022, 9, .	6.9	3
2954	Model Establishment of Cross-Disease Course Prediction Using Transfer Learning. Applied Sciences (Switzerland), 2022, 12, 4907.	1.3	1
2955	A Comprehensive Survey on Brain Tumor Diagnosis Using Deep Learning and Emerging Hybrid Techniques with Multi-modal MR Image. Archives of Computational Methods in Engineering, 2022, 29, 4871-4896.	6.0	16
2956	Hyperspectral evaluation of vasculature in induced peritonitis mouse models. Biomedical Optics Express, 2022, 13, 3461.	1.5	3
2957	Improved linear regression prediction by transfer learning. Computational Statistics and Data Analysis, 2022, 174, 107499.	0.7	4
2958	Tourism Demand Forecasting Considering Environmental Factors: A Case Study for Chengdu Research Base of Giant Panda Breeding. Frontiers in Ecology and Evolution, 2022, 10, .	1.1	1
2959	A novel bi-modal extended Huber loss function based refined mask RCNN approach for automatic multi instance detection and localization of breast cancer. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2022, 236, 1036-1053.	1.0	3
2960	Reprint of: Few-shot learning for cardiac arrhythmia detection based on electrocardiogram data from wearable devices., 2022, 125, 103574.		3
2961	Benign-malignant classification of pulmonary nodule with deep feature optimization framework. Biomedical Signal Processing and Control, 2022, 76, 103701.	3.5	8
2962	Deep discriminative learning model with calibrated attention map for the automated diagnosis of diffuse large B-cell lymphoma. Biomedical Signal Processing and Control, 2022, 76, 103728.	3.5	2

#	Article	IF	CITATIONS
2963	Deep-learning-based workflow for boundary and small target segmentation in digital rock images using UNet++ and IK-EBM. Journal of Petroleum Science and Engineering, 2022, 215, 110596.	2.1	16
2964	Exploiting exercise electrocardiography to improve early diagnosis of atrial fibrillation with deep learning neural networks. Computers in Biology and Medicine, 2022, 146, 105584.	3.9	5
2965	MOJ-DB: A new database of Arabic historical handwriting and a novel approach for subwords extraction. Pattern Recognition Letters, 2022, 159, 54-60.	2.6	4
2966	Building and training a deep spiking neural network for ECG classification. Biomedical Signal Processing and Control, 2022, 77, 103749.	3.5	8
2967	New Optimized Deep Learning Application for COVID-19 Detection in Chest X-ray Images. Symmetry, 2022, 14, 1003.	1.1	9
2968	A Deep Learning Based Framework forÂMalaria Diagnosis onÂHigh Variation Data Set. Lecture Notes in Computer Science, 2022, , 358-370.	1.0	4
2969	Image Analysis and Diagnosis of Skin Diseases - A Review. Current Medical Imaging, 2023, 19, 199-242.	0.4	1
2970	Probing 1D convolutional neural network adapted to near-infrared spectroscopy for efficient classification of mixed fish. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2022, 279, 121350.	2.0	14
2971	Deep Learning Algorithms Improve the Detection of Subtle Lisfranc Malalignments on Weightbearing Radiographs. Foot and Ankle International, 2022, , 107110072210935.	1.1	7
2972	Fatigue Driving Vigilance Detection Using Convolutional Neural Networks and Scalp EEG Signals. , 2022, , .		0
2973	Semantic Pneumonia Segmentation and Classification for Covid-19 Using Deep Learning Network. Computers, Materials and Continua, 2022, 73, 1141-1158.	1.5	2
2974	Emerging Technologies for Next Generation Remote Health Care and Assisted Living. IEEE Access, 2022, 10, 56094-56132.	2.6	17
2975	Multimodal Classification of Onion Services for Proactive Cyber Threat Intelligence Using Explainable Deep Learning. IEEE Access, 2022, 10, 56044-56056.	2.6	7
2976	Automated Dataset Generation with Blender for Deep Learning-based Object Segmentation., 2022,,.		4
2977	Prediction of Autism Spectrum Disorder using Convolution Neural Network. , 2022, , .		3
2978	Cardiovascular/Stroke Risk Assessment in Patients with Erectile Dysfunctionâ€"A Role of Carotid Wall Arterial Imaging and Plaque Tissue Characterization Using Artificial Intelligence Paradigm: A Narrative Review. Diagnostics, 2022, 12, 1249.	1.3	5
2979	Detection of ankle fractures using deep learning algorithms. Foot and Ankle Surgery, 2022, 28, 1259-1265.	0.8	13
2980	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

#	Article	IF	CITATIONS
2981	A Novel Outlier Detection Model for Vibration Signals Using Transformer Networks. IEEE Access, 2022, 10, 57234-57241.	2.6	3
2982	Performance Evaluation of Convolutional Neural Network for Lung Cancer Detection. , 2022, , .		0
2983	Corrosion Modelling Using Convolutional Neural Networks: A Brief Overview. Journal of Bio- and Tribo-Corrosion, 2022, 8, .	1.2	2
2984	Transfer learning from citizen science photographs enables plant species identification in UAV imagery. ISPRS Open Journal of Photogrammetry and Remote Sensing, 2022, 5, 100016.	1.3	2
2985	WBC image classification and generative models based on convolutional neural network. BMC Medical Imaging, 2022, 22, .	1.4	20
2986	Pretreatment Computed Tomography-Based Machine Learning Models to Predict Outcomes in Hepatocellular Carcinoma Patients who Received Combined Treatment of Trans-Arterial Chemoembolization and Tyrosine Kinase Inhibitor. Frontiers in Bioengineering and Biotechnology, 2022. 10	2.0	5
2987	An efficient hybrid methodology for an early detection of breast cancer in digital mammograms. Journal of Ambient Intelligence and Humanized Computing, 2024, 15, 337-360.	3. 3	9
2988	A New Generation Communication System Based on Deep Learning Methods for the Process of Modulation and Demodulation from the Modulated Images. Mathematical Problems in Engineering, 2022, 2022, 1-13.	0.6	1
2989	COVID-19 Isolation Control Proposal via UAV and UGV for Crowded Indoor Environments: Assistive Robots in the Shopping Malls. Frontiers in Public Health, 2022, 10, .	1.3	3
2990	RPV Sealing Reliability Estimating Using a New Inconsistent Knowledge Fused Bayesian Network and Weighted Loss Function. Processes, 2022, 10, 1099.	1.3	1
2991	Brain tumor image generation using an aggregation of GAN models with style transfer. Scientific Reports, 2022, 12, .	1.6	24
2992	Modeling and optimization of nanovector drug delivery systems: exploring the most efficient algorithms. Journal of Nanoparticle Research, 2022, 24, .	0.8	1
2993	An on-chip photonic deep neural network for image classification. Nature, 2022, 606, 501-506.	13.7	160
2994	Diagnosis of dengue virus infection using spectroscopic images and deep learning. PeerJ Computer Science, 0, 8, e985.	2.7	4
2995	EfficientNet embedded with spatial attention for recognition of multi-label fundus disease from color fundus photographs. Biomedical Signal Processing and Control, 2022, 77, 103768.	3.5	6
2996	Improved swarm optimization of deep features for glaucoma classification using SEGSO and VGGNet. Biomedical Signal Processing and Control, 2022, 77, 103845.	3.5	3
2997	Membrane fouling diagnosis of membrane components based on multi-feature information fusion. Journal of Membrane Science, 2022, 657, 120670.	4.1	10
2999	IMAGE DETECTION OF DENTAL DISEASES BASED ON DEEP TRANSFER LEARNING. , 2021, , .		1

#	Article	IF	CITATIONS
3000	Organs-At-Risk Segmentation in Medical Imaging Based on the U-Net with Residual and Attention Mechanisms. , $2021, \ldots$		1
3001	Toward Robust Histology-Prior Embedding for Endomicroscopy Image Classification. IEEE Transactions on Medical Imaging, 2022, 41, 3242-3252.	5.4	0
3002	Development of the Osteosarcoma Lung Nodules Detection Model Based on SSD-VGG16 and Competency Comparing With Traditional Method. IEEE Access, 2022, 10, 65496-65506.	2.6	4
3003	Computational Biology in the Lens of CNN. Studies in Big Data, 2022, , 65-85.	0.8	1
3004	CX-DaGAN: Domain Adaptation for Pneumonia Diagnosis on a Small Chest X-Ray Dataset. IEEE Transactions on Medical Imaging, 2022, 41, 3278-3288.	5.4	11
3006	Multiclass-Classification of Algae using Dc-GAN and Transfer Learning. , 2022, , .		0
3007	IMPACT OF PENETRATION AND IMAGE ANALYSIS IN OPTICAL COHERENCE TOMOGRAPHY ON THE MEASUREMENT OF CHOROIDAL VASCULARITY PARAMETERS. Retina, 2022, 42, 1965-1974.	1.0	7
3008	Deep Learning: Convolutional Neural Networks for Medical Image Analysis - A Quick Review. , 2022, , .		7
3009	Deep Framework for Predicting COVID-19 and Related Lung diseases using CXR Images. , 2022, , .		2
3010	<scp>CoviDetNet</scp> : A new <scp>COVID</scp> â€19 diagnostic system based on deep features of chest xâ€ray. International Journal of Imaging Systems and Technology, 2022, 32, 1447-1463.	2.7	3
3011	Affordable artificial intelligence-based digital pathology for neglected tropical diseases: A proof-of-concept for the detection of soil-transmitted helminths and Schistosoma mansoni eggs in Kato-Katz stool thick smears. PLoS Neglected Tropical Diseases, 2022, 16, e0010500.	1.3	16
3012	Deep-learning-based methods of attenuation correction for SPECT and PET. Journal of Nuclear Cardiology, 2023, 30, 1859-1878.	1.4	9
3013	SVF-Net: spatial and visual feature enhancement network for brain structure segmentation. Applied Intelligence, 0, , .	3.3	1
3014	Live-cell microscopy or fluorescence anisotropy with budded baculovirusesâ€"which way to go with measuring ligand binding to M ⟨sub⟩4⟨ sub⟩ muscarinic receptors?. Open Biology, 2022, 12, .	1.5	6
3015	Enhancing PM2.5 Prediction Using NARX-Based Combined CNN and LSTM Hybrid Model. Sensors, 2022, 22, 4418.	2.1	11
3016	A Prediction Method of Seedling Transplanting Time with DCNN-LSTM Based on the Attention Mechanism. Agronomy, 2022, 12, 1504.	1.3	0
3017	A comprehensible machine learning tool to differentially diagnose idiopathic pulmonary fibrosis from other chronic interstitial lung diseases. Respirology, 2022, 27, 739-746.	1.3	18
3018	Breast Cancer Prediction Empowered with Fine-Tuning. Computational Intelligence and Neuroscience, 2022, 2022, 1-9.	1.1	17

#	Article	IF	CITATIONS
3019	A Deep Learning-Based Approach to Detect Correct Suryanamaskara Pose. SN Computer Science, 2022, 3, .	2.3	2
3020	Early detection of COPD based on graph convolutional network and small and weakly labeled data. Medical and Biological Engineering and Computing, 2022, 60, 2321-2333.	1.6	7
3021	Identification of metastatic primary cutaneous squamous cell carcinoma utilizing artificial intelligence analysis of whole slide images. Scientific Reports, 2022, 12 , .	1.6	11
3022	Automated Dimension Estimation of Steel Pipes Stacked at Construction Sites Using Euclidean Distances Calculated by Overlapping Segmentation. Sensors, 2022, 22, 4517.	2.1	0
3023	Tinyâ€Crackâ€Net: A multiscale feature fusion network with attention mechanisms for segmentation of tiny cracks. Computer-Aided Civil and Infrastructure Engineering, 2022, 37, 1914-1931.	6.3	44
3024	Virtual computed-tomography system for deep-learning-based material decomposition. Physics in Medicine and Biology, 2022, 67, 155008.	1.6	4
3025	Deep Learning-Based Prediction of Hematoma Expansion Using a Single Brain Computed Tomographic Slice in Patients With Spontaneous Intracerebral Hemorrhages. World Neurosurgery, 2022, 165, e128-e136.	0.7	6
3026	Detection of Corona Virus Infection using Convolutional Neural Network., 2022,,.		0
3027	Evaluation and Prediction of Landslide Susceptibility in Yichang Section of Yangtze River Basin Based on Integrated Deep Learning Algorithm. Remote Sensing, 2022, 14, 2717.	1.8	4
3028	Development, Validation, and Comparison of Image-Based, Clinical Feature-Based and Fusion Artificial Intelligence Diagnostic Models in Differentiating Benign and Malignant Pulmonary Ground-Glass Nodules. Frontiers in Oncology, 0, 12, .	1.3	3
3029	Deep convolutional neural networks for automated scoring of pentagon copying test results. Scientific Reports, 2022, 12, .	1.6	8
3030	Greengage Grading Method Based on Dynamic Feature and Ensemble Networks. Electronics (Switzerland), 2022, 11, 1832.	1.8	0
3031	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
3032	A modified convolutional neural network architecture for diabetic retinopathy screening using SVDD. Applied Soft Computing Journal, 2022, 125, 109102.	4.1	3
3033	Fusion of optical and SAR images based on deep learning to reconstruct vegetation NDVI time series in cloud-prone regions. International Journal of Applied Earth Observation and Geoinformation, 2022, 112, 102818.	0.9	4
3034	Deep convolutional neural networks for construction and demolition waste classification: VGGNet structures, cyclical learning rate, and knowledge transfer. Journal of Environmental Management, 2022, 318, 115501.	3.8	22
3035	A novel compound-based loss function for glioma segmentation with deep learning. Optik, 2022, 265, 169443.	1.4	2
3038	A deep learning approach to permanent tooth germ detection on pediatric panoramic radiographs. Imaging Science in Dentistry, 2022, 52, 275.	0.6	7

#	Article	IF	CITATIONS
3039	Defect Identification Method of Carbon Fiber Sucker Rod Based on Multi-Sensor Information Fusion And Googlenet-Based Deep Learning Model. SSRN Electronic Journal, 0, , .	0.4	1
3040	Prediction of the Number of Solitons for the Nonlinear Schrödinger Equation Based on the Deep Learning Method. SSRN Electronic Journal, 0, , .	0.4	O
3041	Artificial intelligence-based rapid on-site cytopathological evaluation for bronchoscopy examinations. Intelligence-based Medicine, 2022, 6, 100069.	1.4	2
3042	An Automated Detection Approach of Protective Equipment Donning for Medical Staff under COVID-19 Using Deep Learning. CMES - Computer Modeling in Engineering and Sciences, 2022, 132, 845-863.	0.8	1
3044	Review on Deep Learning Techniques for the Diagnosis of Corona Virus Using CT & Camp; amp; X-Ray Images. SSRN Electronic Journal, 0, , .	0.4	1
3045	Deep Neural Network Optimization for Skin Disease Classification Forecast Analysis., 2022,,.		O
3046	Insulator Aiming Using Multi-Feature Fusion-Based Visual Servo Control for Washing Drone., 2022,,.		1
3048	Intelligence based Accurate Medium and Long Term Load Forecasting System. Applied Artificial Intelligence, 2022, 36, .	2.0	7
3049	Landslide susceptibility mapping using deep learning models in Ardabil province, Iran. Stochastic Environmental Research and Risk Assessment, 2022, 36, 4287-4310.	1.9	8
3050	Classifying Minerals using Deep Learning Algorithms. IOP Conference Series: Earth and Environmental Science, 2022, 1032, 012046.	0.2	3
3051	An Efficient Retinal Segmentation-Based Deep Learning Framework for Disease Prediction. Wireless Communications and Mobile Computing, 2022, 2022, 1-10.	0.8	5
3052	Interpretable ensemble deep learning model for early detection of Alzheimer's disease using local interpretable modelâ€agnostic explanations. International Journal of Imaging Systems and Technology, 2022, 32, 1889-1902.	2.7	6
3053	Rotating machinery fault diagnosis based on transfer learning and an improved convolutional neural network. Measurement Science and Technology, 2022, 33, 105012.	1.4	8
3054	Igneous rock classification using Convolutional neural networks (CNN). IOP Conference Series: Earth and Environmental Science, 2022, 1032, 012045.	0.2	1
3055	New classes inference, fewâ€shot learning and continual learning for radar signal recognition. IET Radar, Sonar and Navigation, 0, , .	0.9	5
3056	Diagnosing COVID-19 in Chest X-ray Images based on Deep Learning: Transfer Learning versus Deep Features Extraction., 2022,,.		1
3057	A convolutional neural network model for survival prediction based on prognosis-related cascaded Wx feature selection. Laboratory Investigation, 2022, 102, 1064-1074.	1.7	16
3058	RBFA-Net: A Rotated Balanced Feature-Aligned Network for Rotated SAR Ship Detection and Classification. Remote Sensing, 2022, 14, 3345.	1.8	20

#	Article	IF	Citations
3059	A hybrid transfer learning-based architecture for recognition of medical imaging modalities for healthcare experts. Journal of Intelligent and Fuzzy Systems, 2022, 43, 5471-5486.	0.8	4
3060	Design of deep learning reaction–diffusion level set segmentation approach for health care related to automatic kidney stone detection analysis. Multimedia Tools and Applications, 2022, 81, 41807-41849.	2.6	2
3061	Deep Learning-Based Detection and Identification Method for Sports Health Video Dissemination. Discrete Dynamics in Nature and Society, 2022, 2022, 1-9.	0.5	1
3062	Evaluation of Epidermal Growth Factor Receptor 2 Status in Gastric Cancer by CT-Based Deep Learning Radiomics Nomogram. Frontiers in Oncology, 0, 12, .	1.3	2
3063	AMD NN: Android malware detection via feature graph and convolutional neural networks. Concurrency Computation Practice and Experience, 2022, 34, .	1.4	6
3064	A new framework for object detection using fastcnn- Na \tilde{A}^- ve Bayes classifier for remote sensing image extraction. Earth Science Informatics, 2022, 15, 1779-1787.	1.6	1
3065	Moving closer to experimental level materials property prediction using Al. Scientific Reports, 2022, 12, .	1.6	14
3066	Diabetic Retinopathy Detection from Fundus Images of the Eye Using Hybrid Deep Learning Features. Diagnostics, 2022, 12, 1607.	1.3	36
3067	Singleâ€Shot Recognition of 3D Phase Images With Deep Learning. Laser and Photonics Reviews, 2022, 16, .	4.4	7
3068	Deep learning in veterinary medicine, an approach based on CNN to detect pulmonary abnormalities from lateral thoracic radiographs in cats. Scientific Reports, 2022, 12, .	1.6	8
3069	Deep learning-based on-line image analysis for continuous industrial crystallization processes. Particuology, 2023, 74, 173-183.	2.0	5
3070	Gene-related Parkinson's disease diagnosis via feature-based multi-branch octave convolution network. Computers in Biology and Medicine, 2022, 148, 105859.	3.9	3
3071	Segmentation of laser induced retinal lesions using deep learning (December 2021). Lasers in Surgery and Medicine, 0, , .	1.1	0
3073	Fault analysis of photovoltaic based DC microgrid using deep learning randomized neural network. Applied Soft Computing Journal, 2022, 126, 109314.	4.1	9
3074	Fast Convolutional Neural Network with iterative and non-iterative learning. Applied Soft Computing Journal, 2022, 125, 109197.	4.1	1
3075	LRFNet: A deep learning model for the assessment of liver reserve function based on Childâ€Pugh score and CT image. Computer Methods and Programs in Biomedicine, 2022, 223, 106993.	2.6	2
3078	Automatic atrial fibrillation detection from short ECG signals: A hybrid deep learning approach. IISE Transactions on Healthcare Systems Engineering, 2022, 12, 1-19.	1.2	1
3079	Design of Smart Production Scheduling Using Computational Heuristic Intelligence., 2022,,.		0

#	Article	IF	CITATIONS
3080	Segmentation for regions of interest in radiotherapy by self-supervised learning. Knowledge-Based Systems, 2022, 256, 109370.	4.0	2
3081	PSO driven designing of robust and computation efficient 1D-CNN architecture for transmission line fault detection. Expert Systems With Applications, 2022, 210, 118178.	4.4	11
3082	Using deep learning for ultrasound images to diagnose carpal tunnel syndrome with high accuracy. Ultrasound in Medicine and Biology, 2022, 48, 2052-2059.	0.7	12
3084	Design and implementation of transfer learned deep CNN with feature fusion for automated mammogram classification. International Journal of Health Sciences, 0, , 3033-3047.	0.0	0
3085	Deep Learning-Based Prediction of Fabrication-Process-Induced Structural Variations in Nanophotonic Devices. ACS Photonics, 2022, 9, 2623-2633.	3.2	9
3086	Artificial Intelligence Accurately Detects Traumatic Thoracolumbar Fractures on Sagittal Radiographs. Medicina (Lithuania), 2022, 58, 998.	0.8	7
3087	LiMS-Net: A Lightweight Multi-Scale CNN for COVID-19 Detection from Chest CT Scans. ACM Transactions on Management Information Systems, 2023, 14, 1-17.	2.1	5
3088	One-step algorithm for fast-track localization and multi-category classification of histological subtypes in lung cancer. European Journal of Radiology, 2022, 154, 110443.	1.2	3
3089	Artificial intelligence model on chest imaging to diagnose COVID-19 and other pneumonias: A systematic review and meta-analysis. European Journal of Radiology Open, 2022, 9, 100438.	0.7	14
3090	Synthesizing MR Image Contrast Enhancement Using 3D High-Resolution ConvNets. IEEE Transactions on Biomedical Engineering, 2023, 70, 401-412.	2.5	15
3091	Emphasize of Deep CNN for Chest Radiology Images in the detection of COVID., 2022,,.		3
3092	Trans-Inf-Net: COVID-19 Lung Infection Segmentation Based on Transformer. , 2022, , .		2
3093	A Multi-Classifier for DDoS Attacks Using Stacking Ensemble Deep Neural Network. , 2022, , .		3
3094	Hyper Spectral Fruit Image Classification for Deep Learning Approaches and Neural Network Techniques. International Journal of Uncertainty, Fuzziness and Knowlege-Based Systems, 2022, 30, 357-383.	0.9	3
3095	ALLNet: Acute Lymphoblastic Leukemia Detection Using Lightweight Convolutional Networks. , 2022, , .		5
3096	A Review on Forensic Science and Criminal Investigation Through a Deep Learning Framework. Advances in Digital Crime, Forensics, and Cyber Terrorism, 2022, , 1-72.	0.4	2
3097	Face Mask and Temperature Detection for Covid Safety using IoT and Deep Learning. , 2022, , .		0
3098	Efficient Conditional Pre-training for Transfer Learning. , 2022, , .		2

#	Article	IF	CITATIONS
3099	An optimized hybrid deep neural network architecture for intrusion detection in realâ€time IoT networks. Transactions on Emerging Telecommunications Technologies, 2022, 33, .	2.6	3
3100	Detection of $\langle scp \rangle COVID \langle scp \rangle \hat{a} \in 19$ from chest $X\hat{a} \in P$ ay images: Boosting the performance with convolutional neural network and transfer learning. Expert Systems, 2023, 40, .	2.9	10
3101	Design, analysis and implementation of efficient deep learning frameworks for brain tumor classification. Multimedia Tools and Applications, 2022, 81, 37541-37567.	2.6	8
3102	Deep Learning in Urological Images Using Convolutional Neural Networks: An Artificial Intelligence Study. , 2022, 48, 299-302.		1
3103	Computer vision models for comparing spatial patterns: understanding spatial scale. International Journal of Geographical Information Science, 2023, 37, 1-35.	2.2	4
3104	Multi Class Skin Diseases Classification Based On Dermoscopic Skin Images Using Deep Learning. International Journal of Next-generation Computing, 0, , .	1.1	1
3105	Hybrid Features and Deep Learning Model for Facial Expression Recognition From Videos. International Journal of Image and Graphics, 0, , .	1.2	0
3106	An integrated approach based earthquake risk assessment of a seismically active and rapidly urbanizing area in Northern Pakistan. Geocarto International, 2024, 37, 16043-16073.	1.7	1
3107	Emerging Applications of Deep Learning in Bone Tumors: Current Advances and Challenges. Frontiers in Oncology, 0, 12, .	1.3	12
3108	Automated Computer Vision-Based Construction Progress Monitoring: A Systematic Review. Buildings, 2022, 12, 1037.	1.4	17
3109	Jayaâ€ŧunicate swarm algorithm based generative adversarial network for COVIDâ€19 prediction with chest computed tomography images. Concurrency Computation Practice and Experience, 2022, 34, .	1.4	4
3110	Leveraging Deep Features Enhance and Semantic-Preserving Hashing for Image Retrieval. Electronics (Switzerland), 2022, 11, 2391.	1.8	1
3111	Computed Tomography-Based Deep Learning Nomogram Can Accurately Predict Lymph Node Metastasis in Gastric Cancer. Digestive Diseases and Sciences, 2023, 68, 1473-1481.	1.1	7
3112	Diabetic retinopathy screening using improved support vector domain description: a clinical study. Soft Computing, 0, , .	2.1	0
3113	Interstitial lung disease detection using template matching combined sparse coding and blended multi class support vector machine. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2022, 236, 1492-1501.	1.0	2
3114	A State-of-the-Art Review on Machine Learning-Based Multiscale Modeling, Simulation, Homogenization and Design of Materials. Archives of Computational Methods in Engineering, 2023, 30, 191-222.	6.0	30
3115	Online diagnosis for rolling bearings based on multi-channel convolution and transfer learning. Measurement Science and Technology, 2022, 33, 115116.	1.4	5
3116	Stage-independent biomarkers for Alzheimer's disease from the living retina: an animal study. Scientific Reports, 2022, 12, .	1.6	7

#	Article	IF	Citations
3117	An automated solid waste detection using the optimized YOLO model for riverine management. Frontiers in Public Health, 0, 10 , .	1.3	5
3118	Vascular Implications of COVID-19: Role of Radiological Imaging, Artificial Intelligence, and Tissue Characterization: A Special Report. Journal of Cardiovascular Development and Disease, 2022, 9, 268.	0.8	8
3119	Minimum Sample Size Estimate for Classifying Invasive Lung Adenocarcinoma. Applied Sciences (Switzerland), 2022, 12, 8469.	1.3	0
3120	Investigating the power of eyes open resting state EEG for assisting in dementia diagnosis. Alzheimer's Research and Therapy, 2022, 14, .	3.0	6
3121	Classification of diabetic macular edema severity using deep learning technique. Research on Biomedical Engineering, 2022, 38, 977-987.	1.5	6
3122	CNN Based on Transfer Learning Models Using Data Augmentation and Transformation for Detection of Concrete Crack. Algorithms, 2022, 15, 287.	1.2	33
3123	Tear film breakup time-based dry eye disease detection using convolutional neural network. Neural Computing and Applications, 2024, 36, 143-161.	3.2	10
3124	Assessing the robustness of radiomics/deep learning approach in the identification of efficacy of anti–PD-1 treatment in advanced or metastatic non-small cell lung carcinoma patients. Frontiers in Oncology, 0, 12, .	1.3	6
3125	Efficient and accurate diagnosis of otomycosis using an ensemble deep-learning model. Frontiers in Molecular Biosciences, 0, 9, .	1.6	5
3126	An Improved Matting-SfM Algorithm for 3D Reconstruction of Self-Rotating Objects. Mathematics, 2022, 10, 2892.	1.1	3
3127	Evolution of Machine Learning in Tuberculosis Diagnosis: A Review of Deep Learning-Based Medical Applications. Electronics (Switzerland), 2022, 11, 2634.	1.8	27
3128	Computerâ€nided diagnostic models to classify lymph node metastasis and lymphoma involvement in enlarged cervical lymph nodes using PET/CT. Medical Physics, 2023, 50, 152-162.	1.6	9
3130	A 3DCNN-LSTM Multi-Class Temporal Segmentation for Hand Gesture Recognition. Electronics (Switzerland), 2022, 11, 2427.	1.8	3
3131	Estimation of Soluble Solids for Stone Fruit Varieties Based on Near-Infrared Spectra Using Machine Learning Techniques. Sensors, 2022, 22, 6081.	2.1	4
3133	A deep transfer regression method based on seed replacement considering balanced domain adaptation. Engineering Applications of Artificial Intelligence, 2022, 115, 105238.	4.3	4
3134	Classification of lungs infected COVID-19 images based on inception-ResNet. Computer Methods and Programs in Biomedicine, 2022, 225, 107053.	2.6	19
3135	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
3136	Diabetic retinopathy screening using deep learning for multi-class imbalanced datasets. Computers in Biology and Medicine, 2022, 149, 105989.	3.9	25

#	Article	IF	Citations
3137	Defect identification method of carbon fiber sucker rod based on GoogLeNet-based deep learning model and transfer learning. Materials Today Communications, 2022, 33, 104228.	0.9	4
3138	Stacked Gated Recurrent Unit Classifier with CT Images for Liver Cancer Classification. Computer Systems Science and Engineering, 2023, 44, 2309-2322.	1.9	1
3139	Deep Learning for Bone Mineral Density and T-Score Prediction from Chest X-rays: A Multicenter Study. Biomedicines, 2022, 10, 2323.	1.4	15
3140	An efficient stacked ensemble model for the detection of COVID-19 and skin cancer using fused feature of transfer learning and handcrafted methods. Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization, 2023, 11, 878-894.	1.3	1
3141	Derin öğrenme mimarilerini kullanarak göğüs BT görüntülerinden otomatik Covid-19 tahmini. Güı Üniversitesi Fen Bilimleri Enstitüsü Dergisi, 0, , .	nýşha	ne ₁
3142	PPsNet: An improved deep learning model for microsatellite instability high prediction in colorectal cancer from whole slide images. Computer Methods and Programs in Biomedicine, 2022, 225, 107095.	2.6	10
3143	Breast cancer detection using deep learning: Datasets, methods, and challenges ahead. Computers in Biology and Medicine, 2022, 149, 106073.	3.9	57
3144	Semantic segmentation of explosive volcanic plumes through deep learning. Computers and Geosciences, 2022, 168, 105216.	2.0	7
3145	Prediction of PM2.5 concentration in urban agglomeration of China by hybrid network model. Journal of Cleaner Production, 2022, 374, 133968.	4.6	10
3146	Segmentation of weakly visible environmental microorganism images using pair-wise deep learning features. Biomedical Signal Processing and Control, 2023, 79, 104168.	3 . 5	7
3147	MShNet: Multi-scale feature combined with h-network for medical image segmentation. Biomedical Signal Processing and Control, 2023, 79, 104167.	3 . 5	3
3148	A deep learning approach for automatic detection, segmentation and classification of breast lesions from thermal images. Expert Systems With Applications, 2023, 212, 118774.	4.4	19
3149	Research on Self-driving Lane and Traffic Marker Recognition Based on Deep Learning. Communications in Computer and Information Science, 2022, , 112-123.	0.4	0
3150	Accurate brain tumor detection using deep convolutional neural network. Computational and Structural Biotechnology Journal, 2022, 20, 4733-4745.	1.9	45
3151	Differentiation of carcinosarcoma from endometrial carcinoma on magnetic resonance imaging using deep learning. Polish Journal of Radiology, 2022, 87, 521-529.	0.5	1
3152	MFL-Net: An Efficient Lightweight Multi-Scale Feature Learning CNN for COVID-19 Diagnosis From CT Images. IEEE Journal of Biomedical and Health Informatics, 2022, 26, 5355-5363.	3.9	13
3153	ResNet-Based Parkinson's Disease Classification. IEEE Transactions on Artificial Intelligence, 2023, 4, 1258-1268.	3.4	1
3154	Hybrid Architecture for 3D Brain Tumor Image Segmentation Based on Graph Neural Network Pooling. Communications in Computer and Information Science, 2022, , 337-351.	0.4	O

#	Article	IF	CITATIONS
3155	Self-Supervised Learning for Invariant Representations From Multi-Spectral and SAR Images. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2022, 15, 7797-7808.	2.3	12
3156	Data-driven, Image-based Flow Regime Classification for Stirred Aerated Tanks. Computer Aided Chemical Engineering, 2022, , 1363-1368.	0.3	1
3157	Analysis of COVID-19 Detection Algorithms Based on Convolutional Neural Network Models Using Chest X-ray Images. Communications in Computer and Information Science, 2022, , 52-63.	0.4	0
3158	Semi-Supervised Learning of MRI Synthesis Without Fully-Sampled Ground Truths. IEEE Transactions on Medical Imaging, 2022, 41, 3895-3906.	5 . 4	9
3159	A Single-Stage Arbitrary-Oriented Detector Based on Multiscale Feature Fusion and Calibration for SAR Ship Detection. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2022, 15, 8179-8198.	2.3	6
3160	Micro calcification detection in digital mammograms using deep learning approaches. AIP Conference Proceedings, 2022, , .	0.3	0
3161	Methods to Recognize Depth of Hard Inclusions in Soft Tissue Using Ordinal Classification for Robotic Palpation. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-12.	2.4	12
3162	EEMD and GUCNN-XGBoost Joint Recognition Algorithm for Detection of Precursor Chemicals Based on Semiconductor Gas Sensor. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-12.	2.4	2
3163	BERTHop: An Effective Vision-and-Language Model forÂChest X-ray Disease Diagnosis. Lecture Notes in Computer Science, 2022, , 725-734.	1.0	5
3164	Data-Driven Deep Supervision forÂSkin Lesion Classification. Lecture Notes in Computer Science, 2022, , 721-731.	1.0	3
3165	Local and Global Feature Learning With Kernel Scale-Adaptive Attention Network for VHR Remote Sensing Change Detection. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2022, 15, 7308-7322.	2.3	10
3166	A Comparative Study of Machine Learning and Deep Learning Techniques on X-ray Images for Pneumonia. Lecture Notes in Electrical Engineering, 2022, , 415-426.	0.3	0
3167	Multiple Instance Learning Using 3D Features for Melanoma Detection. IEEE Access, 2022, 10, 76296-76309.	2.6	6
3168	Deep Learning on Big Data. , 2022, , 1-10.		0
3169	Pedestrian Detection in Thermal Images by Enhancing the Brightness of Pedestrians., 2022,,.		0
3170	ZeroWaste Dataset: Towards Deformable Object Segmentation in Cluttered Scenes. , 2022, , .		11
3171	A mulberry detection method in the complex background based on improved D-YOLOv3., 2022,,.		0
3172	Hurricane Damage Detection From Satellite Imagery Using Convolutional Neural Networks. International Journal of Information System Modeling and Design, 2022, 13, 1-15.	0.9	0

#	Article	IF	CITATIONS
3173	Survey or Review on the Deep Learning Techniques for Retinal Image Segmentation in Predicting/Diagnosing Diabetic Retinopathy. Advances in Medical Technologies and Clinical Practice Book Series, 2022, , 181-203.	0.3	2
3174	Knowledge Graph of Artificial Intelligence in Medicine: A Scientometric Analysis. , 2022, , .		0
3175	GDenseMNet: Global Dense Multiscale Feature Learning Network for Efficient COVID-19 Detection in CT Images. , 2022, , .		0
3176	Segmentation Mask Resampling for MRI Prostate Localization Improvement. , 2022, , .		O
3177	Automatic Dense Tissue Segmentation in Digital Mammography Images Based on Fully Convolutional Network and Intensity-Based Clustering. , 2022, , .		0
3178	A deep learning-based automatic staging method for early endometrial cancer on MRI images. Frontiers in Physiology, 0, 13 , .	1.3	6
3179	Attentional Fusion TDNN for Spoof Speech Detection. , 2022, , .		0
3180	Applying artificial intelligence technology to assist with breast cancer diagnosis and prognosis prediction. Frontiers in Oncology, $0,12,.$	1.3	9
3181	Development of a Hybrid-Imaging-Based Prognostic Index for Metastasized-Melanoma Patients in Whole-Body 18F-FDG PET/CT and PET/MRI Data. Diagnostics, 2022, 12, 2102.	1.3	3
3182	Leveraging Neural-Networks, Boosting and Domain-Knowledge to Discover Physiological Indicators with Minimal Sensitivity to Data Resolution. , 2022, , .		0
3183	A deep learning-based distracted driving detection solution implemented on embedded system. Multimedia Tools and Applications, 2023, 82, 11697-11720.	2.6	6
3184	Comparative analysis of multiple conventional neural networks for landslide susceptibility mapping. Natural Hazards, 2023, 115, 673-707.	1.6	22
3185	Graph-Based Segmentation and Markov Random Field for Covid-19 Infection in Lung CT Volumes. Lecture Notes in Networks and Systems, 2023, , 43-52.	0.5	0
3186	Automated detection of dental restorations using deep learning on panoramic radiographs. Dentomaxillofacial Radiology, 2022, 51, .	1.3	9
3187	MCNN: a multi-level CNN model for the classification of brain tumors in IoT-healthcare system. Journal of Ambient Intelligence and Humanized Computing, 2023, 14, 4695-4706.	3.3	15
3188	On the reliability of deep learning-based classification for Alzheimer's disease: Multi-cohorts, multi-vendors, multi-protocols, and head-to-head validation. Frontiers in Neuroscience, 0, 16, .	1.4	3
3189	License Plate Detection and Location for Fast Character Segmentation. Advances in Computational Intelligence and Robotics Book Series, 2022, , 372-386.	0.4	0
3190	VFLF: A verifiable federated learning framework against malicious aggregators in Industrial Internet of Things. Concurrency Computation Practice and Experience, 0, , .	1.4	1

#	Article	IF	CITATIONS
3191	A contrastive learningâ€based attention generative adversarial network for defect detection in colourâ€patterned fabric. Coloration Technology, 2023, 139, 248-264.	0.7	2
3192	Automated particle recognition for engine soot nanoparticles. Journal of Microscopy, 2022, 288, 28-39.	0.8	4
3193	Multi-Scale MLP-Mixer for image classification. Knowledge-Based Systems, 2022, 258, 109792.	4.0	7
3194	The Progress on Lung Computed Tomography Imaging Signs: A Review. Applied Sciences (Switzerland), 2022, 12, 9367.	1.3	0
3195	An Energy Data-Driven Approach for Operating Status Recognition of Machine Tools Based on Deep Learning. Sensors, 2022, 22, 6628.	2.1	1
3196	Semi-synthetic data generation to fine-tune a convolutional neural network for retrieving Raman signals from CARS spectra., 2022, 1, 2360.		4
3197	A deep learning approach for anterior cruciate ligament rupture localization on knee MR images. Frontiers in Bioengineering and Biotechnology, 0, 10 , .	2.0	3
3198	Demonstration of Neural Networks to Reconstruct Temperatures from Simulated Fluorescent Data Toward Use in Bio-microfluidics. International Journal of Thermophysics, 2022, 43, .	1.0	3
3199	Comparative Study for Patch-Level and Pixel-Level Segmentation of Deep Learning Methods on Transparent Images of Environmental Microorganisms: From Convolutional Neural Networks to Visual Transformers. Applied Sciences (Switzerland), 2022, 12, 9321.	1.3	7
3200	Created era estimation of old Korean documents via deep neural network. Heritage Science, 2022, 10, .	1.0	1
3201	COVID-19 Semantic Pneumonia Segmentation and Classification Using Artificial Intelligence. Contrast Media and Molecular Imaging, 2022, 2022, 1-13.	0.4	0
3202	Research progress and hotspot of the artificial intelligence application in the ultrasound during 2011–2021: A bibliometric analysis. Frontiers in Public Health, 0, 10, .	1.3	6
3203	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
3204	Taylor-IIWO: Taylor Improved Invasive Weed Optimization enabled Deep Quantum Neural Network for brain tumor segmentation and classification. Biomedical Engineering - Applications, Basis and Communications, 0, , .	0.3	0
3205	Diagnosis of COVID-19 from X-ray images using deep learning techniques. Cogent Engineering, 2022, 9, .	1.1	1
3206	Near-Infrared Spectroscopy for Bladder Monitoring: A Machine Learning Approach. ACM Transactions on Management Information Systems, 2023, 14, 1-23.	2.1	2
3207	Computed tomography-based deep-learning prediction of lymph node metastasis risk in locally advanced gastric cancer. Frontiers in Oncology, 0, 12, .	1.3	5
3208	DACBT: deep learning approach for classification of brain tumors using MRI data in IoT healthcare environment. Scientific Reports, 2022, 12, .	1.6	33

#	ARTICLE	IF	Citations
3209	Electrospray mode discrimination with current signal using deep convolutional neural network and class activation map. Scientific Reports, 2022, 12 , .	1.6	2
3210	Saliency Transfer Learning and Central-Cropping Network for Prostate Cancer Classification. Neural Processing Letters, 0, , .	2.0	O
3211	CT-based transformer model for non-invasively predicting the Fuhrman nuclear grade of clear cell renal cell carcinoma. Frontiers in Oncology, 0, 12, .	1.3	4
3212	Placenta segmentation in ultrasound imaging: Addressing sources of uncertainty and limited field-of-view. Medical Image Analysis, 2023, 83, 102639.	7.0	5
3213	Hibrit bir Derin Ã-ÄŸrenme Yöntemi Kullanarak Türkçe Cümlelerdeki Anlatım Bozukluklarının Tespiti. Muhendislik Fakultesi Fen Ve Muhendislik, 2022, 24, 825-834.	Deu O:1	0
3214	Fineâ€grained classification of intracranial haemorrhage subtypes in head CT scans. IET Computer Vision, 0, , .	1.3	0
3215	Ensemble method using real images, metadata and synthetic images for control of class imbalance in classification. Artificial Life and Robotics, 0, , .	0.7	1
3216	More than a whistle: Automated detection of marine sound sources with a convolutional neural network. Frontiers in Marine Science, 0, 9, .	1.2	7
3217	A Study onÂEfficient Reinforcement Learning Through Knowledge Transfer. Adaptation, Learning, and Optimization, 2023, , 329-356.	0.5	0
3218	Potential of Deep Learning in Quantitative Magnetic Resonance Imaging for Personalized Radiotherapy. Seminars in Radiation Oncology, 2022, 32, 377-388.	1.0	5
3219	A Review of Computational Phantoms for Quality Assurance in Radiology and Radiotherapy in the Deep-Learning Era. Journal of Radiation Protection and Research, 2022, 47, 111-133.	0.3	3
3220	A transfer learning approach based on gradient boosting machine for diagnosis of Alzheimer's disease. Frontiers in Aging Neuroscience, 0, 14, .	1.7	5
3221	Classification of Keratoconus Using Corneal Topography Pattern with Transfer Learning Approach. Smart Innovation, Systems and Technologies, 2023, , 165-178.	0.5	2
3222	Prediction approach of larch wood density from visible $\hat{a} \in ``near-infrared spectroscopy based on parameter calibrating and transfer learning. Frontiers in Plant Science, 0, 13, .$	1.7	3
3223	On cropped versus uncropped training sets in tabular structure detection. Neurocomputing, 2022, 513, 114-126.	3.5	O
3224	Skin lesion classification using CNNs with grouping of multi-scale attention and class-specific loss weighting. Computer Methods and Programs in Biomedicine, 2022, 226, 107166.	2.6	16
3226	An Image Feature Mapping Model forÂContinuous Longitudinal Data Completion andÂGeneration ofÂSynthetic Patient Trajectories. Lecture Notes in Computer Science, 2022, , 55-64.	1.0	0
3227	A Dual-Size Convolutional Kernel CNN-Based Approach to EEG Signal Classification. Communications in Computer and Information Science, 2022, , 52-65.	0.4	1

#	Article	IF	CITATIONS
3228	Hybrid Unsupervised Clustering for Pretext Distribution Learning in IC Image Analysis., 2022,,.		1
3229	A Survey of Convolutional Neural Network and Its Variants. , 2022, , .		0
3230	Customs import and export commodity specification declaration review model that integrating VAE and BERT. , 2022, , .		1
3231	Analysis of Weights and Feature Patterns in Popular 2D Deep Neural Networks Models for MRI Image Classification. Journal of Multimedia Information System, 2022, 9, 177-182.	0.4	0
3232	Revaluating Pretraining in Small Size Training Sample Regime. International Journal of Electrical & Electronics Research, 2022, 10, 694-704.	1.0	1
3233	Application of radiomics in adrenal incidentaloma: a literature review. Discover Oncology, 2022, 13, .	0.8	0
3234	Diabetic Retinopathy Detection Using Deep Learning. Lecture Notes in Networks and Systems, 2023, , 234-246.	0.5	1
3235	Deep reinforcement learning and its applications in medical imaging and radiation therapy: a survey. Physics in Medicine and Biology, 0, , .	1.6	5
3236	Transfer learning driven design optimization for inertial confinement fusion. Physics of Plasmas, 2022, 29, .	0.7	1
3237	Defense against adversarial malware using robust classifier: DAM-ROC. Sadhana - Academy Proceedings in Engineering Sciences, 2022, 47, .	0.8	2
3238	A data-driven analysis of global research trends in medical image: A survey. Neurocomputing, 2023, 518, 308-320.	3.5	3
3239	Building Change Detection in Remote Sensing Images Based on Dual Multi-Scale Attention. Remote Sensing, 2022, 14, 5405.	1.8	7
3240	Artificial intelligence models for clinical usage in dentistry with a focus on dentomaxillofacial CBCT: a systematic review. Oral Radiology, 2023, 39, 18-40.	0.9	13
3241	Computer Vision and Machine Learning-Based Gait Pattern Recognition for Flat Fall Prediction. Sensors, 2022, 22, 7960.	2.1	12
3242	Classification of Multiclass Histopathological Breast Images Using Residual Deep Learning. Computational Intelligence and Neuroscience, 2022, 2022, 1-10.	1.1	3
3243	Highâ€content video flow cytometry with digital cell filtering for labelâ€free cell classification by machine learning. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2023, 103, 325-334.	1.1	6
3244	A brain-like classification method for computed tomography images based on adaptive feature matching dual-source domain heterogeneous transfer learning. Frontiers in Human Neuroscience, 0, 16, .	1.0	1
3245	Editorial on Special Issue "Artificial Intelligence in Image-Based Screening, Diagnostics, and Clinical Care of Cardiopulmonary Diseases― Diagnostics, 2022, 12, 2615.	1.3	1

#	Article	IF	CITATIONS
3246	Systematic deep transfer learning method based on a small image dataset for spaghetti-shape defect monitoring of fused deposition modeling. Journal of Manufacturing Systems, 2022, 65, 439-451.	7.6	11
3247	A review of critical challenges in MI-BCI: From conventional to deep learning methods. Journal of Neuroscience Methods, 2023, 383, 109736.	1.3	19
3248	Learning rate of students detecting and annotating pediatric wrist fractures in supervised artificial intelligence dataset preparations. PLoS ONE, 2022, 17, e0276503.	1.1	0
3249	Multi-perspective region-based CNNs for vertebrae labeling in intraoperative long-length images. Computer Methods and Programs in Biomedicine, 2022, 227, 107222.	2.6	2
3250	A mask-guided attention deep learning model for COVID-19 diagnosis based on an integrated CT scan images database. IISE Transactions on Healthcare Systems Engineering, 2023, 13, 132-149.	1.2	2
3251	Compressed gastric image generation based on soft-label dataset distillation for medical data sharing. Computer Methods and Programs in Biomedicine, 2022, 227, 107189.	2.6	10
3252	Soybean disease identification using original field images and transfer learning with convolutional neural networks. Computers and Electronics in Agriculture, 2022, 203, 107449.	3.7	14
3253	An attention-based deep convolutional neural network for classification and grading of interferents in serum specimens. Chemometrics and Intelligent Laboratory Systems, 2022, 231, 104688.	1.8	0
3254	Contrastive domain adaptation with consistency match for automated pneumonia diagnosis. Medical Image Analysis, 2023, 83, 102664.	7.0	8
3255	How regularly do people visit service places?. Computers, Environment and Urban Systems, 2023, 99, 101896.	3.3	2
3256	Human-Computer Interaction Using Deep Fusion Model-Based Facial Expression Recognition System. CMES - Computer Modeling in Engineering and Sciences, 2023, 135, 1165-1185.	0.8	0
3257	A Hybrid Deep Fused Learning Approach to Segregate Infectious Diseases. Computers, Materials and Continua, 2023, 74, 4239-4259.	1.5	5
3258	A coarse-to-fine segmentation frame for polyp segmentation via deep and classification features. Expert Systems With Applications, 2023, 214, 118975.	4.4	7
3259	Wearable Fall Detection Based onÂMotion Signals Using Hybrid Deep Residual Neural Network. Lecture Notes in Computer Science, 2022, , 216-224.	1.0	2
3260	Echocardiographic Image Segmentation for Diagnosing Fetal Cardiac Rhabdomyoma During Pregnancy Using Deep Learning. IEEE Access, 2022, 10, 114077-114091.	2.6	2
3261	Interpreting Medical Images. , 2022, , 343-371.		4
3262	Knowledge Sharing for Pulmonary Nodule Detection in Medical Cyber-Physical Systems. IEEE Journal of Biomedical and Health Informatics, 2022, , 1-12.	3.9	0
3263	Detecting Atrial Fibrillation in Real Time Based on PPG via Two CNNs for Quality Assessment and Detection. IEEE Sensors Journal, 2022, 22, 24102-24111.	2.4	5

#	Article	IF	Citations
3264	Transfer Learning for the Behavior Prediction of Microwave Structures. IEEE Microwave and Wireless Components Letters, 2023, 33, 126-129.	2.0	2
3265	Introducing Al in Medicine., 2022,, 3-20.		0
3266	Strong semantic segmentation for Covid-19 detection: Evaluating the use of deep learning models as a performant tool in radiography. Radiography, 2023, 29, 109-118.	1.1	3
3267	A Comparative Analysis of Deep Learning Models for Detection of Knee Osteoarthritis Disease through Mobile Apps. , 2022, , .		2
3268	Recognition of Brain Tumor by Means of Deep Learning Neural Networks. , 2022, , .		0
3269	In-Memory Multi-Bit Multiplication and Accumulation (MAC) Using FeFET for Energy Efficient IoT. , 2022, , .		0
3270	EfficientNet-BO Model for Face Mask Detection Based on Social Information Retrieval. International Journal of Information System Modeling and Design, 2022, 13, 1-15.	0.9	1
3271	Breast Cancer Screening Using Deep Learning. , 2022, , .		0
3272	Building and evaluation of an Algerian Cultural Heritage dataset using convolutional neural networks. , 2022, , .		2
3273	Quantifying developmental and individual differences in spontaneous drawing completion among children. Frontiers in Psychology, 0, 13, .	1.1	1
3274	1DCNN-BiGRU network for surface roughness level detection. Surface Topography: Metrology and Properties, 2022, 10, 044005.	0.9	2
3275	Machine learning-based predictions of gamma passing rates for virtual specific-plan verification based on modulation maps, monitor unit profiles, and composite dose images. Physics in Medicine and Biology, 2022, 67, 245001.	1.6	2
3276	Reconstructing the Semiconductor Band Structure by Deep Learning. Mathematics, 2022, 10, 4268.	1.1	0
3277	Advances and challenges in automated malaria diagnosis using digital microscopy imaging with artificial intelligence tools: A review. Frontiers in Microbiology, 0, 13, .	1.5	9
3278	Predict Diabetic Retinopathy in Early-Stages: A Novel Ensemble Model using Efficient nets and an Automated System to Detect the Disease. International Journal of Innovative Technology and Exploring Engineering, 2022, 11, 38-48.	0.2	0
3280	Impact of Image Preprocessing Methods and Deep Learning Models for Classifying Histopathological Breast Cancer Images. Applied Sciences (Switzerland), 2022, 12, 11375.	1.3	6
3281	Basic Ensembles of Vanilla-Style Deep Learning Models Improve Liver Segmentation From CT Images. , 2022, , 52-74.		7
3282	Two-stage single image Deblurring network based on deblur kernel estimation. Multimedia Tools and Applications, 2023, 82, 17055-17074.	2.6	1

#	Article	IF	CITATIONS
3283	COVID-19 classification using chest X-ray images based on fusion-assisted deep Bayesian optimization and Grad-CAM visualization. Frontiers in Public Health, $0,10,10$	1.3	13
3284	EvoPruneDeepTL: An evolutionary pruning model for transfer learning based deep neural networks. Neural Networks, 2023, 158, 59-82.	3.3	10
3285	Comparison of Traditional Radiomics, Deep Learning Radiomics and Fusion Methods for Axillary Lymph Node Metastasis Prediction in Breast Cancer. Academic Radiology, 2023, 30, 1281-1287.	1.3	10
3287	A convolutional neural network (<scp>CNN</scp>)â€based direct method to detect stiction in control valves. Canadian Journal of Chemical Engineering, 2023, 101, 3963-3981.	0.9	1
3288	Explainable machine learning in cybersecurity: A survey. International Journal of Intelligent Systems, 2022, 37, 12305-12334.	3.3	7
3289	DFD-SS: Document Forgery Detection using Spectral – Spatial Features for Hyperspectral Images. Journal of Visual Communication and Image Representation, 2022, 89, 103690.	1.7	5
3290	Prediction of the number of solitons for initial value of Nonlinear SchrĶdinger equation based on the deep learning method. Physics Letters, Section A: General, Atomic and Solid State Physics, 2022, 456, 128536.	0.9	1
3291	Comparison of Gray-scale Inversion to Improve Detection of Pulmonary Nodules on Chest X-rays Between Radiologists and a Deep Convolutional Neural Network. Current Problems in Diagnostic Radiology, 2023, 52, 180-186.	0.6	1
3292	Deep multiple instance learning for predicting chemotherapy response in non-small cell lung cancer using pretreatment CT images. Scientific Reports, 2022, 12, .	1.6	3
3293	Expandable-Convolutional-Block Neural Inference withÂSpatial-Fused Multi-resolution Features andÂTerse Convolution forÂloT-Based Intelligent Automated Systems. Communications in Computer and Information Science, 2022, , 276-286.	0.4	0
3294	DeepClean: A Robust Deep Learning Technique for Autonomous Vehicle Camera Data Privacy. IEEE Access, 2022, 10, 124534-124544.	2.6	5
3295	A general deep transfer learning framework for predicting the flow field of airfoils with small data. Computers and Fluids, 2023, 251, 105738.	1.3	7
3296	Data and knowledge co-driving for cancer subtype classification on multi-scale histopathological slides. Knowledge-Based Systems, 2023, 260, 110168.	4.0	1
3297	HD2A-Net: A novel dual gated attention network using comprehensive hybrid dilated convolutions for medical image segmentation. Computers in Biology and Medicine, 2023, 152, 106384.	3.9	4
3298	Automatic diagnosis of COVID-19 with MCA-inspired TQWT-based classification of chest X-ray images. Computers in Biology and Medicine, 2023, 152, 106331.	3.9	15
3299	Identification of adaptor proteins by incorporating deep learning and PSSM profiles. Methods, 2023, 209, 10-17.	1.9	3
3300	Impact of dataset size and convolutional neural network architecture on transfer learning for carbonate rock classification. Computers and Geosciences, 2023, 171, 105284.	2.0	21
3301	Classification of precancerous lesions based on fusion of multiple hierarchical features. Computer Methods and Programs in Biomedicine, 2023, 229, 107301.	2.6	6

#	Article	IF	Citations
3302	A multi-model data-fusion based deep transfer learning for improved remaining useful life estimation for IIOT based systems. Engineering Applications of Artificial Intelligence, 2023, 119, 105712.	4.3	6
3303	Dual Windows Are Significant: Learning fromÂMediastinal Window andÂFocusing onÂLung Window. Lecture Notes in Computer Science, 2022, , 191-203.	1.0	0
3304	A Deep Neural Network for Cervical Cell Classification Based on Cytology Images. IEEE Access, 2022, 10, 130968-130980.	2.6	7
3305	Generating and Weighting Semantically Consistent Sample Pairs for Ultrasound Contrastive Learning. IEEE Transactions on Medical Imaging, 2023, 42, 1388-1400.	5.4	3
3306	Deep CNN Based Whale Optimization for Predicting the Rice Plant Disease in Real Time. Communications in Computer and Information Science, 2022, , 191-202.	0.4	0
3307	iBiopsy® for Precision Medicine. European Medical Journal (Chelmsford, England), 0, , 50-61.	3.0	0
3308	Dog Monitoring System Powered by Deep Learning., 2022,,.		0
3309	Various Convolutional Neural Networks for Predicting Types of Hurricane Damage Images., 2022,,.		0
3310	A Pyramidal CNN-Based Gleason Grading System Using Digitized Prostate Biopsy Specimens. , 2022, , .		0
3311	Weak-supervised Visual Geo-localization via Attention-based Knowledge Distillation., 2022,,.		0
3312	Patchwise Sparse Dictionary Learning from pre-trained Neural Network Activation Maps for Anomaly Detection in Images. , 2022, , .		0
3313	Attention-based Graph Neural Network for the Classification of Parkinson's Disease., 2022,,.		2
3314	Increase of the Navigation Landmark Detection Accuracy Based on the Computer Vision Methods in a Lack of Visibility. , 2022, , .		0
3315	Power Transformer Oil Temperature Prediction Based on Spark Deep Learning. , 2022, , .		0
3316	Artificial Intelligence and Reliability Metrics in Medical Image Analysis., 2022,, 92-106.		0
3317	Latent Semantic Indexing (LSI) and Hierarchical Dirichlet Process (HDP) Models on News Data., 2022,,.		4
3318	Deep Convolutional Neural Networks in Detecting Lung Mass From Chest X-Ray Images. , 2022, , 1415-1423.		0
3319	MRI Brain Tumor Classification and Uncertainty Estimation using Hybrid CNN-ELM Model. , 2022, , .		1

#	Article	IF	Citations
3320	Audio and ASR-based Filled Pause Detection., 2022,,.		1
3321	CIAO! A Contrastive Adaptation Mechanism for Non-Universal Facial Expression Recognition. , 2022, , .		2
3322	Application of Deep Learning models for Code Smell Prediction. , 2022, , .		2
3323	CXR Scan:X-Ray Image Scanning Application for Lung Cancer and Tuberculosis. , 2022, , .		О
3324	Deep Learning Untuk Klasifikasi Motif Batik Papua Menggunakan EfficientNet dan Trasnfer Learning. Insect, 2022, 8, 11-20.	0.0	0
3325	Lost-Found Item Net for Classification Based on Inception-Resnet. , 2022, , .		0
3326	Machine learning on MRI radiomic features: identification of molecular subtype alteration in breast cancer after neoadjuvant therapy. European Radiology, 2023, 33, 2965-2974.	2.3	6
3327	Survey on Fruit Classification Using Deep Learning Techniques. Lecture Notes in Networks and Systems, 2023, , 497-505.	0.5	0
3328	Raman Spectral Concentration Prediction of Naphthalene Based on Multi-CNN Model. , 2022, , .		0
3329	Al_deation: A Creative Knowledge Mining Method for Design Exploration. EAI Endorsed Transactions on Creative Technologies, 2022, 9, e5.	1.0	1
3330	Solid Waste Management Scenario in India and Illegal Dump Detection Using Deep Learning: An Al Approach towards the Sustainable Waste Management. Sustainability, 2022, 14, 15896.	1.6	12
3331	Comparison of Convolutional Neural Network for Classifying Lung Diseases from Chest CT Images. International Journal of Pattern Recognition and Artificial Intelligence, 0, , .	0.7	1
3333	Tackling the over-smoothing problem of CNN-based hyperspectral image classification. Journal of Applied Remote Sensing, 2022, 16, .	0.6	2
3334	Polyp Detection in Colonoscopy Images using Improved Deformable DETR. , 2022, , .		1
3335	Recurrent attention convolutional neural network optimise track foreign body detection. IET Communications, 0, , .	1.5	0
3336	Deep learning based radiomics for gastrointestinal cancer diagnosis and treatment: A minireview. World Journal of Gastroenterology, 0, 28, 6363-6379.	1.4	6
3337	Siamese transformer network-based similarity metric learning for cross-source remote sensing image retrieval. Neural Computing and Applications, 2023, 35, 8125-8142.	3.2	5
3338	Detection and Localisation of Abnormal Parathyroid Glands: An Explainable Deep Learning Approach. Algorithms, 2022, 15, 455.	1,2	5

#	Article	IF	CITATIONS
3339	Intelligent oncology: The convergence of artificial intelligence and oncology. Journal of the National Cancer Center, 2023, 3, 83-91.	3.0	3
3341	Convolutional Neural NetworkÂBased Intrusion Detection System and Predicting the DDoS Attack. Algorithms for Intelligent Systems, 2023, , 81-94.	0.5	1
3342	A capsule network-based method for identifying transcription factors. Frontiers in Microbiology, 0, 13, .	1.5	0
3343	A Comprehensive Survey on the Progress, Process, and Challenges of Lung Cancer Detection and Classification. Journal of Healthcare Engineering, 2022, 2022, 1-43.	1.1	3
3344	A hierarchical GAN method with ensemble CNN for accurate nodule detection. International Journal of Computer Assisted Radiology and Surgery, 2023, 18, 695-705.	1.7	0
3345	<scp>LLNet</scp> : Lightweight network with a channel and spatial attention mechanism for local climate zone classification from Sentinelâ€2 image. International Journal of Climatology, 0, , .	1.5	0
3346	AAPM task group report 273: Recommendations on best practices for AI and machine learning for computerâ€aided diagnosis in medical imaging. Medical Physics, 2023, 50, .	1.6	16
3348	DeepEOR: automated perioperative volumetric assessment of variable grade gliomas using deep learning. Acta Neurochirurgica, 2023, 165, 555-566.	0.9	1
3349	Double Double Descent: On Generalization Errors in Transfer Learning between Linear Regression Tasks. SIAM Journal on Mathematics of Data Science, 2022, 4, 1447-1472.	1.0	1
3350	Predicting Atomic Force Microscopy Topography from Optical Microscopes Using Deep Learning. Advanced Intelligent Systems, 0, , 2200317.	3.3	0
3351	Pediatric radius torus fractures in x-raysâ€"how computer vision could render lateral projections obsolete. Frontiers in Pediatrics, 0, 10, .	0.9	1
3352	Analysis of Deep Learning Architecture-Based Classifier for the Cervical Cancer Classification. Lecture Notes in Electrical Engineering, 2023, , 263-273.	0.3	0
3353	Convolutional neural network -based phantom image scoring for mammography quality control. BMC Medical Imaging, 2022, 22, .	1.4	1
3354	Expert-level aspiration and penetration detection during flexible endoscopic evaluation of swallowing with artificial intelligence-assisted diagnosis. Scientific Reports, 2022, 12, .	1.6	6
3355	Multi-Class Breast Cancer Histopathological Image Classification Using Multi-Scale Pooled Image Feature Representation (MPIFR) and One-Versus-One Support Vector Machines. Applied Sciences (Switzerland), 2023, 13, 156.	1.3	5
3356	Computer Vision-Based Kidney's (HK-2) Damaged Cells Classification with Reconfigurable Hardware Accelerator (FPGA). Electronics (Switzerland), 2022, 11, 4234.	1.8	3
3357	Pneumonia Prediction Using Deep Learning. Lecture Notes in Electrical Engineering, 2023, , 847-867.	0.3	0
3358	Computer-aided diagnosis through medical image retrieval in radiology. Scientific Reports, 2022, 12, .	1.6	7

#	Article	IF	Citations
3359	MSWNet: A visual deep machine learning method adopting transfer learning based upon ResNet 50 for municipal solid waste sorting. Frontiers of Environmental Science and Engineering, 2023, 17, .	3.3	6
3360	A Transfer Learning Based Cross-Subject Generic Model for Continuous Estimation of Finger Joint Angles From a New User. IEEE Journal of Biomedical and Health Informatics, 2023, 27, 1914-1925.	3.9	3
3361	An automatic gastric polyp detection technique using deep learning. International Journal of Imaging Systems and Technology, 2023, 33, 866-880.	2.7	5
3362	A Novel Computer-Aided Detection/Diagnosis System for Detection and Classification of Polyps in Colonoscopy. Diagnostics, 2023, 13, 170.	1.3	1
3363	Multiplexed Resistive Pulse Sensor Based on Geometry Modulation for High-throughput Microparticle Counting. Sensors and Actuators Reports, 2023, , 100140.	2.3	2
3364	Artificial Intelligence—A New Knowledge and Decision-Making Paradigm?. , 2023, , 175-201.		4
3365	An Intelligent Diagnostic Method for Multisource Coupling Faults of Complex Mechanical Systems. Shock and Vibration, 2023, 2023, 1-12.	0.3	2
3366	SSCLNet: A Self-Supervised Contrastive Loss-Based Pre-Trained Network for Brain MRI Classification. IEEE Access, 2023, 11, 6673-6681.	2.6	3
3367	Automated detection of glottic laryngeal carcinoma in laryngoscopic images from a multicentre database using a convolutional neural network. Clinical Otolaryngology, 2023, 48, 436-441.	0.6	3
3368	Non-invasive detection of cardiac allograft rejection among heart transplant recipients using an electrocardiogram based deep learning model. European Heart Journal Digital Health, 2023, 4, 71-80.	0.7	5
3369	White Blood Cells Classification Using Entropy-Controlled Deep Features Optimization. Diagnostics, 2023, 13, 352.	1.3	16
3370	NOx emission prediction using a lightweight convolutional neural network for cleaner production in a down-fired boiler. Journal of Cleaner Production, 2023, 389, 136060.	4.6	24
3371	Automatic dental biofilm detection based on deep learning. Journal of Clinical Periodontology, 2023, 50, 571-581.	2.3	4
3372	Automated identification of blastocyst regions at different development stages. Scientific Reports, 2023, 13, .	1.6	3
3373	Identification of Asymptomatic COVID-19 Patients on Chest CT Images Using Transformer-Based or Convolutional Neural Network–Based Deep Learning Models. Journal of Digital Imaging, 2023, 36, 827-836.	1.6	3
3374	Interpretable machine learning for automated left ventricular scar quantification in hypertrophic cardiomyopathy patients., 2023, 2, e0000159.		1
3375	Pressure Signal-Based Analysis of Anomalies in Switching Behavior of a Two-Way Directional Control Valve. , 2023, 2, .		1
3376	A Fire Source Localization Algorithm Based on Temperature and Smoke Sensor Data Fusion. Fire Technology, 0, , .	1.5	1

#	Article	IF	Citations
3377	Portable motorized telescope system for wind turbine blades damage detection. Engineering Reports, 0 , , .	0.9	4
3378	Apple Grading Method Design and Implementation for Automatic Grader Based on Improved YOLOv5. Agriculture (Switzerland), 2023, 13, 124.	1.4	33
3379	MultiScale-CNN-4mCPred: a multi-scale CNN and adaptive embedding-based method for mouse genome DNA N4-methylcytosine prediction. BMC Bioinformatics, 2023, 24, .	1.2	5
3380	Multi-scale lung tissue classification for interstitial lung diseases using learned Gabor filters. Microsystem Technologies, 2023, 29, 599-607.	1.2	2
3381	SRA System Design: Using Deep Learning to Analyse Experimental data for Speech Researchers. , 2022, , .		0
3382	Innovative and efficient CNN structure works for chest X-ray images classification. , 2022, , .		0
3383	Automated Transfer Learning Model for Counterfeit IC Detection. , 2022, , .		1
3384	Improved mine microseismic event recognition method combining neural network and transfer learning., 2022,,.		1
3385	Language Detection and Localization, for Pakistani languages, in Acoustic Channels. , 2022, , .		0
3386	Study and comparison of machine learning models for air PM 2.5 concentration prediction., 2022,,.		0
3387	ICKSC: An Efficient Methodology for Predicting Kidney Stone From CT Kidney Image Dataset using Conventional Neural Networks. International Journal on Recent and Innovation Trends in Computing and Communication, 2022, 10, 106-115.	0.4	0
3388	Task-Specific Grasp Planning for Robotic Assembly by Fine-Tuning GQCNNs on Automatically Generated Synthetic Data. Applied Sciences (Switzerland), 2023, 13, 525.	1.3	1
3389	Dual†and tripleâ€stream RESUNET/UNET architectures for multiâ€modal liver segmentation. IET Image Processing, 0, , .	1.4	0
3390	Cox-ResNet: A Survival Analysis Model Based on Residual Neural Networks for Gene Expression Data. , 2022, , .		1
3391	Multilayer vectorization to develop a deeper image feature learning model. Automatika, 2023, 64, 355-364.	1.2	7
3392	MSVF: Multi-task Structure Variation Filter with Transfer Learning in High-throughput Sequencing. , 2022, , .		0
3393	An Efficient Deep Learning Method for Detection of COVID-19 Infection Using Chest X-ray Images. Diagnostics, 2023, 13, 131.	1.3	17
3394	Diagnosis of cardiovascular disease using deep learning technique. Soft Computing, 2023, 27, 8971-8990.	2.1	5

#	Article	IF	CITATIONS
3395	Breast Cancer Classification from Mammogram Images Using Extreme Learning Machine-Based DenseNet121 Model. Journal of Sensors, 2022, 2022, 1-12.	0.6	5
3396	Modeling a Fine-Tuned Deep Convolutional Neural Network for Diagnosis of Kidney Diseases from CT Images. , 2022, , .		3
3397	Predicting the interactions between plant lncRNA-encoded peptide and protein using domain knowledge-based prototypical network. , 2022, , .		0
3399	CVD19-Net: An Automated Deep Learning Model for COVID-19 Screening using Chest CT Images. , 2022, , .		0
3400	Effectiveness of Semi-Supervised Active Learning in Automated Wound Image Segmentation. International Journal of Molecular Sciences, 2023, 24, 706.	1.8	5
3401	Convolutional Ensemble Network for Image Classification. , 2022, , .		0
3402	Skin cancer classification using deep learning. AIP Conference Proceedings, 2023, , .	0.3	0
3403	Detection of Aquatic Invasive Plants in Wetlands of the Upper Mississippi River from UAV Imagery Using Transfer Learning. Remote Sensing, 2023, 15, 734.	1.8	4
3404	Automatic and Efficient Framework for Identifying Multiple Neurological Disorders From EEG Signals. IEEE Transactions on Technology and Society, 2023, 4, 76-86.	2.4	14
3405	<scp>DBF‥OLO</scp> : <scp>UAV</scp> Small Targets Detection Based on Shallow Feature Fusion. IEEJ Transactions on Electrical and Electronic Engineering, 2023, 18, 605-612.	0.8	9
3406	Rapid highâ€fidelity T2* mapping using singleâ€shot overlappingâ€echo acquisition and deep learning reconstruction. Magnetic Resonance in Medicine, 2023, 89, 2157-2170.	1.9	2
3407	Reliable Mutual Distillation for Medical Image Segmentation Under Imperfect Annotations. IEEE Transactions on Medical Imaging, 2023, 42, 1720-1734.	5 . 4	8
3408	Landslide Susceptibility Mapping Based on Multitemporal Remote Sensing Image Change Detection and Multiexponential Band Math. Sustainability, 2023, 15, 2226.	1.6	4
3409	Deep Learning-Based Classification and Targeted Gene Alteration Prediction from Pleural Effusion Cell Block Whole-Slide Images. Cancers, 2023, 15, 752.	1.7	3
3410	Rapid Identification of Infectious Pathogens at the Single-Cell Level via Combining Hyperspectral Microscopic Images and Deep Learning. Cells, 2023, 12, 379.	1.8	3
3411	Marine Radar Small Target Classification Based on Block-Whitened Time–Frequency Spectrogram and Pre-Trained CNN. IEEE Transactions on Geoscience and Remote Sensing, 2023, 61, 1-11.	2.7	2
3412	Automation of Crop Disease Detection through Conventional Machine Learning and Deep Transfer Learning Approaches. Agriculture (Switzerland), 2023, 13, 352.	1.4	4
3413	Privacy Preserving byÂRemoving Sensitive Data fromÂDocuments withÂFully Convolutional Networks. Lecture Notes in Computer Science, 2023, , 277-285.	1.0	0

#	Article	IF	CITATIONS
3414	Research Progress of Respiratory Disease and Idiopathic Pulmonary Fibrosis Based on Artificial Intelligence. Diagnostics, 2023, 13, 357.	1.3	10
3415	Comparisons of Convolutional Neural Network and Other Machine Learning Methods in Landslide Susceptibility Assessment: A Case Study in Pingwu. Remote Sensing, 2023, 15, 798.	1.8	13
3416	A deep learning approach for COVID-19 detection from computed tomography scans. , 2023, , 223-240.		1
3417	Arabic Sentiment Classification on Twitter Using Deep Learning Techniques. Lecture Notes on Data Engineering and Communications Technologies, 2023, , 236-251.	0.5	0
3418	Deep learning for predicting epidermal growth factor receptor mutations of non-small cell lung cancer on PET/CT images. Quantitative Imaging in Medicine and Surgery, 2023, 13, 1286-1299.	1.1	3
3419	Crack Severity Classification from Timber Cross-Sectional Images Using Convolutional Neural Network. Applied Sciences (Switzerland), 2023, 13, 1280.	1.3	3
3420	Optimization Trading Strategy Model for Gold and Bitcoin Based on Market Fluctuation. Journal of Advanced Computational Intelligence and Intelligent Informatics, 2023, 27, 105-118.	0.5	1
3421	VerifyTL: Secure and Verifiable Collaborative Transfer Learning. IEEE Transactions on Dependable and Secure Computing, 2023, 20, 5087-5101.	3.7	O
3422	Region Segmentation of Whole-Slide Images for Analyzing Histological Differentiation of Prostate Adenocarcinoma Using Ensemble EfficientNetB2 U-Net with Transfer Learning Mechanism. Cancers, 2023, 15, 762.	1.7	3
3423	Diagnosis of Autism Spectrum Disorder Using Convolutional Neural Networks. Electronics (Switzerland), 2023, 12, 612.	1.8	6
3424	Siamese few-shot network: a novel and efficient network for medical image segmentation. Applied Intelligence, 2023, 53, 17952-17964.	3.3	3
3425	Machine learning for ARWs. , 2023, , 159-174.		O
3426	Deep Learning for Magnetic Flux Leakage Detection and Evaluation of Oil & Dil & Dipelines: A Review. Energies, 2023, 16, 1372.	1.6	9
3427	Transfer Learning on Small Datasets for Improved Fall Detection. Sensors, 2023, 23, 1105.	2.1	13
3429	High-speed Memory Signal Integrity Compliance using the CNN., 2022,,.		0
3430	TMV-NET: Regression approach for the quantification of Tympanic Membrane. , 2022, , .		O
3431	Transfer Learning for Human Activity Recognition Using Representational Analysis of Neural Networks. ACM Transactions on Computing for Healthcare, 2023, 4, 1-21.	3.3	10
3432	A Deep Learning Based Species Reciprocal System for Partridge. Communications in Computer and Information Science, 2023, , 148-163.	0.4	O

#	Article	IF	CITATIONS
3433	Automating mosquito taxonomy by compressing and enhancing a feature fused EfficientNet with knowledge distillation and a novel residual skip block. MethodsX, 2023, 10, 102072.	0.7	1
3434	Efficient breast cancer detection via cascade deep learning network. International Journal of Intelligent Networks, 2023, 4, 46-52.	5.8	8
3435	Robust multi-view approaches for retinal layer segmentation in glaucoma patients via transfer learning. Quantitative Imaging in Medicine and Surgery, 2023, 13, 2846-2859.	1.1	3
3436	A Comprehensive Regional Traffic Coordination Control Strategy Integrated the Short-Term Traffic Flow Identification and Prediction. IEEE Intelligent Transportation Systems Magazine, 2023, 15, 137-149.	2.6	1
3437	Pre-training in Medical Data: A Survey. , 2023, 20, 147-179.		3
3438	The role of Artificial intelligence in the assessment of the spine and spinal cord. European Journal of Radiology, 2023, 161, 110726.	1.2	8
3439	Machine learning and deep learning based on the small FT-MIR dataset for fine-grained sampling site recognition of boletus tomentipes. Food Research International, 2023, 167, 112679.	2.9	6
3440	Estimation of steady-state temperature field in Multichip Modules using deep convolutional neural network. Thermal Science and Engineering Progress, 2023, 40, 101755.	1.3	1
3441	A contrastive learning framework enhanced by unlabeled samples for remaining useful life prediction. Reliability Engineering and System Safety, 2023, 234, 109163.	5.1	7
3442	Machine learning algorithm optimization for intelligent prediction of rock thermal conductivity: A case study from a whole-cored scientific drilling borehole. Geothermics, 2023, 111, 102711.	1.5	0
3443	A black-box reversible adversarial example for authorizable recognition to shared images. Pattern Recognition, 2023, 140, 109549.	5.1	1
3444	Machine Learning for Small Data. leice Ess Fundamentals Review, 2023, 16, 247-256.	0.1	1
3445	Design and Development of Deep Learning Model For Predicting Skin Cancer and Deployed Using a Mobile App., 2023,, 144-158.		0
3446	Transfer learning for segmentation with hybrid classification to Detect Melanoma Skin Cancer. Heliyon, 2023, 9, e15416.	1.4	2
3447	Improved YOLOv5 infrared tank target detection method under ground background. Scientific Reports, 2023, 13 , .	1.6	0
3448	A generalized machine learning framework for brittle crack problems using transfer learning and graph neural networks. Mechanics of Materials, 2023, 181, 104639.	1.7	3
3449	A deep learning approach for abnormal pore pressure prediction based on multivariate time series of kick., 2023, 226, 211715.		4
3450	Real-time monitoring and prediction method of commercial building fire temperature field based on distributed optical fiber sensor temperature measurement system. Journal of Building Engineering, 2023, 70, 106403.	1.6	2

#	Article	IF	Citations
3453	TANet: Triple Attention Network for medical image segmentation. Biomedical Signal Processing and Control, 2023, 82, 104608.	3.5	3
3454	Customized EfficientNet for Histopathology Image Representation. , 2022, , .		O
3455	The Adaptive Wideband Beamforming using Convolutional Neural Network., 2022,,.		0
3456	An Advanced Decision Tree-Based Deep Neural Network in Nonlinear Data Classification. Technologies, 2023, 11, 24.	3.0	3
3459	Deep Transfer Learning Techniques-Based Automated Classification and Detection of Pulmonary Fibrosis from Chest CT Images. Processes, 2023, 11, 443.	1.3	3
3460	Time Series Anomaly Detection for Smart Grids via Multiple Self-Supervised Tasks Learning. , 2022, , .		0
3461	Monkeypox Detection Using CNN with Transfer Learning. Sensors, 2023, 23, 1783.	2.1	29
3462	S-Extension Patch: A Simple and Efficient Way to Extend an Object Detection Model. Lecture Notes in Electrical Engineering, 2023, , 231-242.	0.3	O
3463	Few-shot Medical Image Segmentation with Cycle-resemblance Attention., 2023,,.		11
3464	Classifying histopathological images of oral squamous cell carcinoma using deep transfer learning. Heliyon, 2023, 9, e13444.	1.4	9
3465	Skin lesion segmentation using two-phase cross-domain transfer learning framework. Computer Methods and Programs in Biomedicine, 2023, 231, 107408.	2.6	7
3466	Multi-level contour combination features for shape recognition. Computer Vision and Image Understanding, 2023, 229, 103650.	3.0	1
3467	Autonomous Surface Vehicle in Search and Rescue Process of Marine Casualty using Computer Vision Based Victims Detection., 2022,,.		0
3468	Enhancing the generalization ability of deep learning model for radio signal modulation recognition. Applied Intelligence, 0, , .	3.3	1
3469	High-precision multiclass classification of lung disease through customized MobileNetV2 from chest X-ray images. Computers in Biology and Medicine, 2023, 155, 106646.	3.9	37
3470	Efficient data-driven behavior identification based on vision transformers for human activity understanding. Neurocomputing, 2023, 530, 104-115.	3.5	11
3471	Prior knowledge-based precise diagnosis of blend sign from head computed tomography. Frontiers in Neuroscience, 0, 17, .	1.4	0
3472	Automatic segmentation of inferior alveolar canal with ambiguity classification in panoramic images using deep learning. Heliyon, 2023, 9, e13694.	1.4	2

#	Article	IF	CITATIONS
3474	Sustainable Analysis of Insulator Fault Detection Based on Fine-Grained Visual Optimization. Sustainability, 2023, 15, 3456.	1.6	3
3475	Improving training efficiency for scalable automated fault detection and diagnosis in chilled water plants by transfer learning. Energy and Buildings, 2023, 285, 112877.	3.1	2
3476	Quantitative analysis of artificial intelligence on liver cancer: A bibliometric analysis. Frontiers in Oncology, $0,13,.$	1.3	5
3477	Incorporating Transfer Learning in CNN Architecture. International Journal of Next-generation Computing, 0, , .	1.1	0
3478	Performance Analysis of Deep Convolutional Network Architectures for Classification of Over-Volume Vehicles. Applied Sciences (Switzerland), 2023, 13, 2549.	1.3	0
3479	Decentralized H _{â^ž} Observer-Based Attack-Tolerant Formation Tracking Network Control of Large-Scale LEO Satellites via HJIE-Reinforced Deep Learning Approach. IEEE Access, 2023, 11, 17165-17196.	2.6	2
3480	Deep learning nomogram based on Gd-EOB-DTPA MRI for predicting early recurrence in hepatocellular carcinoma after hepatectomy. European Radiology, 2023, 33, 4949-4961.	2.3	4
3481	A new dynamic security defense system based on TCP_REPAIR and deep learning. Journal of Cloud Computing: Advances, Systems and Applications, 2023, 12, .	2.1	1
3482	Quantitative evaluation of myometrial infiltration depth ratio for early endometrial cancer based on deep learning. Biomedical Signal Processing and Control, 2023, 84, 104685.	3.5	0
3483	Prediction of Osteosarcoma Using Machine Learning Techniques. Lecture Notes in Networks and Systems, 2023, , 469-480.	0.5	0
3484	Emotion Recognition Using Different Sensors, Emotion Models, Methods and Datasets: A Comprehensive Review. Sensors, 2023, 23, 2455.	2.1	17
3485	Efficient Error Detection for Matrix Multiplication With Systolic Arrays on FPGAs. IEEE Transactions on Computers, 2023, 72, 2390-2403.	2.4	2
3486	Evaluation of deep learning models for classification of asphalt pavement distresses. International Journal of Pavement Engineering, 2023, 24, .	2.2	4
3487	Multi-Class Classification Method with Feature Engineering for Predicting Hypertension with Diabetes. Journal of Mobile Multimedia, 0, , .	0.9	0
3488	Radiogenomic classification for MGMT promoter methylation status using multi-omics fused feature space for least invasive diagnosis through mpMRI scans. Scientific Reports, 2023, 13, .	1.6	16
3489	A combined deep CNN-lasso regression feature fusion and classification of MLO and CC view mammogram image. International Journal of Systems Assurance Engineering and Management, 2024, 15, 553-563.	1.5	1
3490	Skin Cancer Prediction using Deep Learning. International Journal of Advanced Research in Science, Communication and Technology, 0, , 570-574.	0.0	3
3491	Deep quaternion convolutional neural networks for breast Cancer classification. Multimedia Tools and Applications, 2023, 82, 31285-31308.	2.6	3

#	Article	IF	CITATIONS
3492	Transfer learning-based CNN diagnostic framework for diagnosis of COVID-19 from lung CT images. Imaging Science Journal, 2022, 70, 413-438.	0.2	0
3493	Classification of ocular diseases using transfer learning approaches and glaucoma severity grading. , 2023, , 1-15.		0
3494	Disease Classification Model Based on Multi-Modal Feature Fusion. IEEE Access, 2023, 11, 27536-27545.	2.6	0
3495	A novel deep transfer learning based computerized diagnostic Systems for Multi-class imbalanced diabetic retinopathy severity classification. Multimedia Tools and Applications, 2023, 82, 34847-34884.	2.6	9
3497	Multimodal biomedical image retrieval and indexing system using handcrafted with deep convolution neural network features. Journal of Ambient Intelligence and Humanized Computing, 2023, 14, 4551-4560.	3.3	1
3498	CT-Based Automatic Spine Segmentation Using Patch-Based Deep Learning. International Journal of Intelligent Systems, 2023, 2023, 1-14.	3.3	34
3499	Pan-Peptide Meta Learning for T-cell receptor–antigen binding recognition. Nature Machine Intelligence, 2023, 5, 236-249.	8.3	27
3500	Enhanced prediction using deep neural network-based image classification. Imaging Science Journal, 2023, 71, 472-483.	0.2	0
3501	The role of artificial intelligence based on PET/CT radiomics in NSCLC: Disease management, opportunities, and challenges. Frontiers in Oncology, 0, 13 , .	1.3	4
3502	Enhancing deep learning techniques for the diagnosis of the novel coronavirus (COVID-19) using X-ray images. Cogent Engineering, 2023, 10, .	1.1	3
3503	Deep Learning Radiomics for the Assessment of Telomerase Reverse Transcriptase Promoter Mutation Status in Patients With Glioblastoma Using Multiparametric <scp>MRI</scp> . Journal of Magnetic Resonance Imaging, 2023, 58, 1441-1451.	1.9	4
3504	Semi-universal geo-crack detection by machine learning. Frontiers in Earth Science, 0, 11, .	0.8	1
3506	Wavelet-like denoising of GNSS data through machine learning. Application to the time seriesÂof the Campi Flegrei volcanic area (Southern Italy). Geomatics, Natural Hazards and Risk, 2023, 14, .	2.0	1
3507	A Novel Image Classification Method Based on Residual Network, Inception, and Proposed Activation Function. Sensors, 2023, 23, 2976.	2.1	3
3508	Artificial Intelligence of Things for Smarter Healthcare: A Survey of Advancements, Challenges, and Opportunities. IEEE Communications Surveys and Tutorials, 2023, 25, 1261-1293.	24.8	20
3509	GUI Enabled Optimized Approach of CNN for Automatic Diagnosis of COVID-19 Using Radiograph Images. New Generation Computing, 2023, 41, 213-224.	2.5	0
3510	A New Method Based on Encoding Data Probability Density and Convolutional Neural Network for Rotating Machinery Fault Diagnosis. IEEE Access, 2023, 11, 26099-26113.	2.6	3
3511	Artificial intelligence CAD tools in trauma imaging: a scoping review from the American Society of Emergency Radiology (ASER) AI/ML Expert Panel. Emergency Radiology, 2023, 30, 251-265.	1.0	10

#	Article	IF	CITATIONS
3512	Deep convolutional neural networks accurately predict breast cancer using mammograms. Waves in Random and Complex Media, 0, , 1-24.	1.6	1
3513	Convolutional Neural Networks to Classify Alzheimer's Disease Severity Based on SPECT Images: A Comparative Study. Journal of Clinical Medicine, 2023, 12, 2218.	1.0	1
3514	Multi-source Inductive Knowledge Graph Transfer. Lecture Notes in Computer Science, 2023, , 155-171.	1.0	0
3515	Neural Network Based Classification of Breast Cancer Histopathological Image from Intraoperative Rapid Frozen Sections. Journal of Digital Imaging, 0, , .	1.6	O
3516	A survey of automated data augmentation algorithms for deep learning-based image classification tasks. Knowledge and Information Systems, 2023, 65, 2805-2861.	2.1	7
3517	A Study of Deep Learning Models in Diagnosis and Prediction of Chronic Diseases. , 2022, , .		0
3518	Self-Supervised Plant Phenotyping by Combining Domain Adaptation with 3D Plant Model Simulations: Application to Wheat Leaf Counting at Seedling Stage. Plant Phenomics, 2023, 5, .	2.5	8
3519	Attention fusion network with selfâ€supervised learning for staging of osteonecrosis of the femoral head (ONFH) using multiple MR protocols. Medical Physics, 2023, 50, 5528-5540.	1.6	1
3520	Fungus Classification Based on CNN Deep Learning Model. Bitlis Eren Üniversitesi Fen Bilimleri Dergisi, 2023, 12, 226-241.	0.1	0
3521	A Mobile Application for Obesity Early Diagnosis Using CNN-based Thermogram Classification. , 2023, , .		1
3522	Structural health and intelligent monitoring of wind turbine blades with a motorized telescope. , 2022, , .		0
3523	Ultrasound image-based deep learning to assist in diagnosing gross extrathyroidal extension thyroid cancer: a retrospective multicenter study. EClinicalMedicine, 2023, 58, 101905.	3.2	3
3524	Fine-Grained Battery-Swap Order Prediction Using Spatio-Temporal Data Via GAT Model., 2023,,.		0
3525	A Review of Deep Learning Methods in Cervical Cancer Detection. Lecture Notes in Networks and Systems, 2023, , 624-633.	0.5	0
3526	From Lab to Field: An Empirical Study on the Generalization of Convolutional Neural Networks towards Crop Disease Detection. European Journal of Education and Pedagogy, 2023, 8, 33-40.	0.2	1
3527	ConvXGDFU - Ensemble Learning Techniques for Diabetic Foot Ulcer Detection. , 2022, , .		1
3528	Research on defect detection of toy sets based on an improved U-Net. Visual Computer, 2024, 40, 1095-1109.	2.5	1
3529	Machine learning enables precise holographic characterization of colloidal materials in real time. Soft Matter, 2023, 19, 3002-3014.	1.2	2

#	Article	IF	CITATIONS
3530	Influence analysis of alloy elements on irradiation embrittlement of RPV steel based on deep neural network. International Journal of Advanced Nuclear Reactor Design and Technology, 2023, 5, 44-51.	0.5	2
3531	Deep Transfer Learning Strategy to Diagnose Eye-Related Conditions and Diseases: An Approach Based on Low-Quality Fundus Images. IEEE Access, 2023, 11, 37403-37411.	2.6	1
3532	"Quo Vadis Diagnosis― Application of Informatics in Early Detection of Pneumothorax. Diagnostics, 2023, 13, 1305.	1.3	1
3533	A Review on Breast Cancer Detection for Histopathology Images Using Deep Learning. , 2023, , .		0
3534	Liver PDFF estimation using a multi-decoder water-fat separation neural network with a reduced number of echoes. European Radiology, 2023, 33, 6557-6568.	2.3	1
3535	Quantitative Detection of Quartz Sandstone SiO2 Grade Using Polarized Infrared Absorption Spectroscopy with Convolutional Neural Network Model. Journal of Spectroscopy, 2023, 2023, 1-13.	0.6	0
3536	埰䰎深尦å¦ä¹çš"è§å‰æ~¾å¾®æ€§èƒ½æå‡ï¼^特é,€ï¼‰. Hongwai Yu Jiguang Gongcheng/Infrared a	andoLaser I	Engineering,
3537	Towards Diagnosis of Autoimmune Blistering Skin Diseases Using Deep Neural Network. Archives of Computational Methods in Engineering, 0, , .	6.0	0
3538	Multiclass classifier based on deep learning for detection of citrus disease using fluorescence imaging spectroscopy. Laser Physics, 2023, 33, 055602.	0.6	2
3539	Comparative Study between KNN and CNN's Techniques for Kidney Stone Detection., 2023,,.		0
3540	Artificial intelligence in vaccine development: Significance and challenges ahead., 2023,, 467-486.		0
3541	Applications of Deep Learning and Machine Learning in Computational Medicine. Journal of Biochemical Technology, 2023, 14, 1-6.	0.1	3
3542	Slice-Fusion: Reducing False Positives in Liver Tumor Detection for Mask R-CNN. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2023, , 1-11.	1.9	0
3543	DeepCOVNet Model for COVID-19 Detection Using Chest X-Ray Images. Wireless Personal Communications, 0, , .	1.8	0
3544	Automatic Clustering and Classification of Coffee Leaf Diseases Based on an Extended Kernel Density Estimation Approach. Plants, 2023, 12, 1603.	1.6	9
3545	Deep convolution neural network for screening carotid calcification in dental panoramic radiographs., 2023, 2, e0000081.		1
3546	A Cross-Scale and Illumination Invariance-Based Model for Robust Object Detection in Traffic Surveillance Scenarios. IEEE Transactions on Intelligent Transportation Systems, 2023, 24, 6989-6999.	4.7	2
3547	Detecting Major Depressive Disorder byÂGraph Neural Network Exploiting Resting-State Functional MRI. Communications in Computer and Information Science, 2023, , 255-266.	0.4	2

#	Article	IF	CITATIONS
3548	VulDistilBERT: A CPS Vulnerability Severity Prediction Method Based on Distillation Model. Security and Communication Networks, 2023, 2023, 1-14.	1.0	0
3549	HRC for dual-robot intelligent assembly system based on multimodal perception. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2024, 238, 562-576.	1.5	2
3550	Discernment of Paddy Crop Disease by Employing CNN and Transfer Learning Methods of Deep Learning. , 2023, , 240-254.		0
3551	Deep Learning Approaches to Osteosarcoma Diagnosis and Classification: A Comparative Methodological Approach. Cancers, 2023, 15, 2290.	1.7	4
3552	FSA-Net: Rethinking the attention mechanisms in medical image segmentation from releasing global suppressed information. Computers in Biology and Medicine, 2023, 161, 106932.	3.9	3
3553	Deep Learning-based Algorithm for Detecting Counterfeit Domain Names. , 2022, , .		0
3554	An embedded Hamiltonian dynamic evolutionary neural network model for high-dimensional data recognition. Applied Soft Computing Journal, 2023, , 110299.	4.1	2
3555	A Novel Fusion Model of Hand-Crafted Features With Deep Convolutional Neural Networks for Classification of Several Chest Diseases Using X-Ray Images. IEEE Access, 2023, 11, 39243-39268.	2.6	3
3556	Association of collagen deep learning classifier with prognosis and chemotherapy benefits in stage <scp>llâ€III</scp> colon cancer. Bioengineering and Translational Medicine, 2023, 8, .	3.9	3
3557	A Hybrid Deep Learning Method Based on CEEMDAN and Attention Mechanism for Network Traffic Prediction. IEEE Access, 2023, 11, 39651-39663.	2.6	3
3558	A new convolution neural network model "KR-NET―for retinal fundus glaucoma classification. Optik, 2023, 283, 170861.	1.4	2
3559	A novel method based on time series ensemble model for hourly photovoltaic power prediction. Energy, 2023, 276, 127542.	4.5	15
3560	DFCV: a framework for evaluation deep learning in early detection and classification of lung cancer. Multimedia Tools and Applications, 2023, 82, 44387-44430.	2.6	3
3561	A Convolution Neural Network-Based Approach for Metal Surface Roughness Evaluation. Current Materials Science, 2023, 16, .	0.2	0
3562	Rapsai: Accelerating Machine Learning Prototyping of Multimedia Applications through Visual Programming., 2023,,.		7
3563	Automated detection of myopic maculopathy using five-category models based on vision outlooker for visual recognition. Frontiers in Computational Neuroscience, 0, 17, .	1.2	0
3564	Classification of pulmonary sounds through deep learning for the diagnosis of interstitial lung diseases secondary to connective tissue diseases. Computers in Biology and Medicine, 2023, 160, 106928.	3.9	3
3565	Multi-Level Residual Feature Fusion Network for Thoracic Disease Classification in Chest X-Ray Images. IEEE Access, 2023, 11, 40988-41002.	2.6	2

#	Article	IF	CITATIONS
3566	From spectra to plant functional traits: Transferable multi-trait models from heterogeneous and sparse data. Remote Sensing of Environment, 2023, 292, 113580.	4.6	8
3567	Traffic Sign Board Detection and Voice Alert System. International Journal of Advanced Research in Science, Communication and Technology, 0, , 282-290.	0.0	0
3568	Text Detection Model for Historical Documents Using CNN and MSER. Journal of Database Management, 2023, 34, $1\text{-}23$.	1.0	3
3571	Analysis of a Novel Integrated Machine Learning Model for Yield and Weather Prediction: Punjab Versus Maharashtra. Lecture Notes in Electrical Engineering, 2023, , 83-93.	0.3	0
3577	An Automatic Detection of Pneumonia from Chest Ionizing Radiation Images Using Machine Learning Algorithm. , 2022, , .		0
3589	Improved Transfer Learning Approach for Diabetic Retinopathy Screening. , 2023, , .		0
3591	Intra-Oral Periapical Dental Classification using Convolution Neural Network., 2023,,.		0
3596	Machine learning in rare disease. Nature Methods, 2023, 20, 803-814.	9.0	10
3607	A CNN-based Image Reconstruction Scheme for Complex-valued Multi-frequency Electrical Capacitance Tomography., 2023,,.		0
3612	Traffic Sign Detection and Recognition Using Deep Learning Approach. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2023, , 331-343.	0.2	0
3613	Deep Convolutional Comparison Architecture for Breast Cancer Binary Classification. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2023, , 187-200.	0.2	1
3616	Applicative Analysis Of Activation Functions For Pneumonia Detection Using Convolutional Neural Networks. , 2023, , .		0
3617	Control Architecture for Automation. Springer Handbooks, 2023, , 357-378.	0.3	0
3620	Breast Microcalcification detection in digital mammograms using Deep Transfer learning approaches. , 2023, , .		2
3621	Inter vs. Intra Domain Study ofÂCOVID Chest X-Ray Classification withÂlmbalanced Datasets. Lecture Notes in Computer Science, 2023, , 507-519.	1.0	0
3624	CAD Model for Biomedical Image Processing for Digital Assistance. Lecture Notes in Networks and Systems, 2023, , 81-91.	0.5	0
3628	Deep Transfer Modeling for Classification and Identification of Tomato Plant Leaf Disease. Algorithms for Intelligent Systems, 2023, , 331-339.	0.5	0
3634	Artificial Neural Network Based Classification Of Motor Imagery EEG Signals For Efficient Brain Computer Interface System., 2023,,.		0

#	Article	IF	Citations
3635	Human Activity Recognition Using CTAL Model. Lecture Notes in Networks and Systems, 2023, , 347-356.	0.5	1
3636	Fusion of Features Extracted from Transfer Learning and Handcrafted Methods to Enhance Skin Cancer Classification Performance. Lecture Notes in Networks and Systems, 2023, , 243-257.	0.5	2
3640	Disease Diagnostic Model Using Fine-Tuned Intensive Learning for Medical Image. Lecture Notes in Electrical Engineering, 2023, , 79-90.	0.3	0
3642	Potato Leaf Disease Classification Using K-means Cluster Segmentation and Effective Deep Learning Networks. Lecture Notes in Networks and Systems, 2023, , 35-45.	0.5	0
3643	Experimenting Transfer Learning and Machine Learning on Endoscopy Database with Augmentation. Lecture Notes in Electrical Engineering, 2023, , 647-655.	0.3	0
3646	A Deep Learning-Based Approach for Automatic Detection of Hurricane Damage using Satellite Images. , 2023, , .		0
3647	A Hybrid Approach to Osteosarcoma Detection Using Densenet201-SVM Model. , 2023, , .		0
3650	A Review of Predictive and Contrastive Self-supervised Learning for Medical Images., 2023, 20, 483-513.		5
3664	Low-Power Convolutional Neural Network Accelerator on FPGA. , 2023, , .		0
3665	Various Approaches in Deep Learning for Medical Modality Image Segmentation. , 2023, , .		0
3666	Handwritten Character Recognition System using Deep Learning Models for Tamil Language. , 2023, , .		2
3668	Performance Change with the Ratio of Training Data A Case Study on the Binary Classification of COVID-19 Chest X-Ray by using Convolutional Neural Networks. , 2023, , .		0
3680	Optical recognition system and evaluation the transfer of Alex Net. AIP Conference Proceedings, 2023,	0.3	0
3685	Examination of bottle caps guided with image processing and deep neural networks. AIP Conference Proceedings, 2023, , .	0.3	0
3687	High Performance Cervical Cancer Detection Using Gradient Boosting Algorithm and Bayesian Optimization. , 2023, , .		0
3692	Synthetic medical image augmentation: a GAN-based approach for melanoma skin lesion classification with deep learning., 2023,, 69-80.		1
3694	PEA-U-Net: Parallel Embedded Attention for Liver and Tumor Segmentation in CT Volumes. Lecture Notes in Computer Science, 2023, , 41-54.	1.0	0
3695	Implementation of Few Deep Learning Models to Detect Alzheimer's Disease. Lecture Notes in Networks and Systems, 2023, , 435-448.	0.5	0

#	Article	IF	CITATIONS
3698	Covid Cough Identification using Machine Learning and Deep Learning Networks. , 2023, , .		1
3712	Selecting the optimal transfer learning model for precise breast cancer diagnosis utilizing pre-trained deep learning models and histopathology images. Health and Technology, 0, , .	2.1	0
3713	Enhancing Colorectal Cancer Histological Image Classification Using Transfer Learning and ResNet50 CNN Model., 2023,,.		1
3715	An Overview on Integration of Artificial Intelligence Tools to Predict the Nature of Chronic Obstructive Pulmonary Disease., 2023,,.		0
3732	A Critical Review of Machine Learning Methods Used in Metal Powder Bed Fusion Process to Predict Part Properties. International Journal of Precision Engineering and Manufacturing, 0, , .	1.1	0
3742	A Multi Stage Approach for Object and Face Detection using CNN. , 2023, , .		3
3745	Segmentation of fatigue cracks in ancillary steel structures using deep learning convolutional neural networks., 2023,,.		0
3746	Human Posture Detection on Lightweight DCNN and SVM in a Digitalized Healthcare System., 2023,,.		0
3749	FSD: Fully-Specialized Detector via Neural Architecture Search., 2023,,.		0
3750	Advances in QSAR through artificial intelligence and machine learning methods. , 2023, , 101-116.		1
3752	Rethinking Few-Shot Medical Segmentation: A Vector Quantization View., 2023,,.		1
3754	Object detection and facial recognition for the blind using deep learning and IoT. AIP Conference Proceedings, 2023, , .	0.3	0
3757	Early Stage Emphysema Detection in Chest X-ray Images: A Machine Learning based Approach., 2023,,.		2
3759	Early Diagnosis of Emphysema using Convolutional Neural Networks. , 2023, , .		1
3762	A PEEC-informed Deep Learning Approach for Inverse Electromagnetic Problem in Heterogeneous Integrations., 2023,,.		0
3764	Real-time embedded automotive dynamic framework using convolutional neural network. AIP Conference Proceedings, 2023, , .	0.3	0
3766	Non-verbal Facial Action Units-Based Automatic Depression Classification. , 2023, , .		0
3768	Deep Learning Fundamentals. Imaging Informatics for Healthcare Professionals, 2023, , 101-131.	0.4	0

#	Article	IF	CITATIONS
3770	Transfer Learning andÂEnsemble Learning. Texts in Computer Science, 2023, , 191-203.	0.5	0
3774	Improving Gossip Learning viaÂLimited Model Merging. Communications in Computer and Information Science, 2023, , 351-363.	0.4	0
3780	Size Matters: Exploring the Impact of Model Architecture and Dataset Size on Semantic Segmentation of Abdominal Wall Muscles in CT Scans. Lecture Notes in Networks and Systems, 2023, , 613-628.	0.5	0
3784	Real-time Fire Detection for Urban Tunnels Based on Multi-Source Data and Transfer Learning. , 2023, , .		O
3786	COPDNet: An Explainable ResNet50 Model for the Diagnosis of COPD from CXR Images. , 2023, , .		1
3790	Detection of LDoS System Based on Periodic Comparison and CNN., 2023,,.		0
3792	Research on End Face Defect Detection of Small Sample Workpiece Based on Meta Learning. , 2022, , .		0
3807	Malaria Detection Using Convolutional Neural Networks: A Comparative Study. , 2023, , .		0
3810	Evaluation of the Timber Internal Crack Using CNN. Lecture Notes on Data Engineering and Communications Technologies, 2024, , 263-273.	0.5	0
3813	Machine Learning and Deep Learning Techniques. Algorithms for Intelligent Systems, 2023, , 235-253.	0.5	0
3823	Automatic detection and classification of plant leaf diseases using image processing: A survey. AIP Conference Proceedings, 2023, , .	0.3	0
3825	Classification of skin cancer using convolutional neural network in comparison with decision tree classifier. AIP Conference Proceedings, 2023, , .	0.3	0
3827	Comparative Analysis of U-Net-Based Architectures for Medical Image Segmentation. Lecture Notes in Electrical Engineering, 2023, , 715-725.	0.3	0
3828	Implementation of WSN in the Smart Hanger to Facilitate MRO Operations on Aircraft Fuselage Using Machine Learning. Lecture Notes in Electrical Engineering, 2023, , 163-175.	0.3	O
3830	Deep Learning Model for Automated Detection and Classification of Brain Tumor Disorder., 2023,,.		0
3831	Study of Algorithms Based on YOLO Neural Network Architecture in the Problem of Polyp Detection on Colonoscopic Video Data., 2023,,.		1
3832	Contrastive Learning Embedded Siamese Neural Network for the Assessment of Fatty Liver., 2023,,.		0
3834	Transfer Learning-Based Classification of Radiation Induced Lung Injury in Breast Cancer Patients Using PET Images. , 2023, , .		0

#	Article	IF	CITATIONS
3836	OrthoSNet: A framework for Identifying and Verifying Tuberculosis in Chest Radio graph images using Discrete Orthonormal Stockwell transform. , 2023, , .		0
3838	Leaf Classification of Jackfruit (Artocarpus heterophyllus) and Cempedak (Radermachera integra) Using Deep Learning. , 2023, , .		3
3841	Bone Fracture Detection Using CNN. Lecture Notes in Networks and Systems, 2023, , 379-386.	0.5	0
3846	DMRBNet: Dilated Multi-Scale Residual Block-Based Deep Network for Detection of Breast Cancer from MRI Images. , 2023, , .		0
3852	Harnessing Artificial Intelligence for Precise Pulmonary Disease Diagnosis., 2023,,.		0
3857	A melanoma skin cancer detection and analysis using dermoscopy image processing. AIP Conference Proceedings, 2023, , .	0.3	0
3858	3-LbNets: Tri-Labeling Deep Convolutional Neural Network for the Automated Screening of Glaucoma, Glaucoma Suspect, and No Glaucoma in Fundus Images. , 2023, , .		0
3859	Measuring Ground Cover in Long Term Hill Country Photography using Weakly Supervised Convolutional Neural Networks. , 2023, , .		0
3860	Deep Learning Techniques forÂ3D-Volumetric Segmentation ofÂBiomedical Images. Studies in Computational Intelligence, 2023, , 1-41.	0.7	0
3862	Automated Early Detection of Parkinson's Disease Through Augmented Handwritten Patterns., 2023,,.		0
3872	Thorax Disease Classification Based on the Convolutional Network SqueezeNet., 2023,,.		1
3873	Long-Term Human State Monitoring Study. , 2023, , .		0
3874	Research on Big Data Intelligent Analysis Method and Key Technologies for the Management of Main Equipment in Power Grid Transmission and Transformation Based on Digital Twin Technology. , 2023, , .		0
3879	BTM: Black-Box Testing for DNN Based on Meta-Learning. , 2023, , .		0
3883	Analysis of Deep Learning Algorithms for Prawn Aquaculture in a Challenging Environment., 2023,,.		0
3891	Leukocytes Classification Methods: Effectiveness andÂRobustness inÂaÂReal Application Scenario. Lecture Notes in Computer Science, 2024, , 3-14.	1.0	0
3895	CEmb-SAM: Segment Anything Model withÂCondition Embedding forÂJoint Learning fromÂHeterogeneous Datasets. Lecture Notes in Computer Science, 2023, , 275-284.	1.0	0
3897	Classification of Sweet Potato Leaf Variants using Transfer Learning. , 2023, , .		2

#	Article	IF	CITATIONS
3898	A Novel Solution to Transportation Safety. , 2023, , .		0
3900	Intelligent Surveillance System Using Deep Learning. Lecture Notes in Networks and Systems, 2024, , 405-416.	0.5	0
3909	Efficient Multi-Scale Attention Residual Network for Breast Cancer Histopathology Image Classification., 2023,,.		0
3913	Al on Oral Mucosal Lesion Detection. , 2023, , 143-176.		0
3917	Steel Plate Fault Detection Using the Fitness-Dependent Optimizer and NeuralÂNetworks. , 2023, , 1-19.		6
3928	Foundations on transfer learning in machine fault diagnosis and prognosis. , 2024, , 15-42.		0
3930	Design of a Real-Time-Integrated System Based on Stereovision and YOLOv5 to Detect Objects. Advances in Systems Analysis, Software Engineering, and High Performance Computing Book Series, 2023, , 283-297.	0.5	0
3935	Enhancing Breast Cancer Diagnosis Through Segmentation-Driven Generative Adversarial Networks for Synthetic Mammogram Generation. , 2023, , .		0
3936	Applications of Deep Learning in Healthcare in the Framework of Industry 5.0. Advances in Web Technologies and Engineering Book Series, 2024, , 69-85.	0.4	0
3937	Plant Disease Detection Using Deep Learning and Machine Learning Algorithms. , 2023, , .		0
3938	Brain Tumor Detection using CNN., 2023,,.		0
3939	Neuro-Vascular Mapping of Junctions in Human Brain from MRI Scans using Image Segmentation. , 2023,		0
3941	Deep Convolutional Extreme Learning Machine with AlexNet-Based Bone Cancer Classification Using Whole-Body Scan Images., 2024,, 307-325.		0
3957	Deep Learning Methods for Seizure Prediction by Evaluating EEG Signals. , 2022, , .		0
3958	Human-interpretable features derived from breast cancer pathology slides detect BRCA1/2 gene mutations. , 2023, , .		0
3960	Enhancing Medical Image Recognition through Automated Neural Network Architecture Optimization using Neuroevolvenet., 2023,,.		0
3965	Heart Failure Prediction System Using Various Approaches: A review., 2023,,.		0
3967	Identification of Sukun (Artocarpus altilis) and Kluwih (Artocarpus camansi) Leaves using Transfer Learning. , 2023, , .		0

#	ARTICLE	IF	CITATIONS
3968	Browser Preference Prediction for Computer Users using Machine Learning., 2023,,.		0
3970	Skin Cancer Diagnosis and Detection Using Deep Learning. , 2023, , .		0
3971	Generator of Javanese Gamelan Musical Note Using 1D CNN Multi-Label Classification., 2023,,.		0
3973	Raw Coffee Bean Classification for Roasting Suitability Assessment Using Transfer Learning., 2023,,.		O
3974	Predicting Brain Tumor Survival Using MRI Images and Machine Learning Techniques. Lecture Notes in Networks and Systems, 2024, , 333-347.	0.5	0
3977	Leveraging Advanced Visual Recognition Classifier For Pneumonia Prediction., 2024,,.		0
3978	Palanam: A Deep Learning Based Childhood Defense System. , 2024, , .		0
3983	Kidney Abnormalities Prediction in Ultrasound Images using Transfer Learning Approach., 2023,,.		0
3988	Structural Image Classification. Synthesis Lectures on Mechanical Engineering, 2024, , 139-179.	0.1	0
3989	A Thorough Examination of Al Integration in Diagnostic Imaging. Advances in Medical Diagnosis, Treatment, and Care, 2024, , 156-177.	0.1	0
3990	Deep Learning for Breast Cancer Detection from Mammograms Images. Lecture Notes in Networks and Systems, 2024, , 265-276.	0.5	0
3991	MineralNet: A Composite Deep Learning Model for Accurate Classification and Identification of Minerals Using CNN-SVM Fusion. , 2023, , .		0
3992	An Effective Method for Detecting Tomato Leaf Disease Using Distributed Neural Networks., 2023,,.		0
3993	Person Adapted Emotion Recognition using Deep Learning. , 2023, , .		0
3994	Investigations on Deep Learning Pre-trained Model VGG-19 Using Transfer Learning for Remote Sensing Image Classification on Benchmark Datasets. Lecture Notes in Networks and Systems, 2024, , 127-139.	0.5	0
3995	Coffee Plant Disease Identification using Enhanced Short Learning EfficientNetV2. , 2023, , .		0
4004	Deep learning for multisource medical information processing. , 2024, , 45-76.		0
4018	Isolated Handwritten Arabic Character Recognition Using Convolutional Neural Networks: An Overview. Lecture Notes in Networks and Systems, 2024, , 134-144.	0.5	0

#	Article	IF	CITATIONS
4021	Computer-Aided Diagnosis in Ophthalmology. Advances in Healthcare Information Systems and	0.2	0