A survey on Image Data Augmentation for Deep Learnin

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#	Article	IF	Citations
1	Label-Free Estimation of Therapeutic Efficacy on 3D Cancer Spheres Using Convolutional Neural Network Image Analysis. Analytical Chemistry, 2019, 91, 14093-14100.	3.2	29
2	Machine Learning in Electric Motor Production - Potentials, Challenges and Exemplary Applications. , 2019, , .		5
3	Avocado: Photometric Classification of Astronomical Transients with Gaussian Process Augmentation. Astronomical Journal, 2019, 158, 257.	1.9	65
4	Emotion Analysis in Arabic Language Applying Transfer Learning. , 2019, , .		9
5	Sport Teams Logo Detection Based On Deep Local Features. , 2019, , .		4
6	An Efficient Automated Corneal Ulcer Detection Method using Convolutional Neural Network. , 2019, , .		5
7	A Deep Learning Semantic Segmentation-Based Approach for Field-Level Sorghum Panicle Counting. Remote Sensing, $2019,11,2939.$	1.8	34
8	Generalization Approach for CNN-based Object Detection in Unconstrained Outdoor Environments. , 2019, , .		2
9	Lightweight Convolutional Neural Network and Its Application in Rolling Bearing Fault Diagnosis under Variable Working Conditions. Sensors, 2019, 19, 4827.	2.1	40
10	Data Augmentation for Brain-Tumor Segmentation: A Review. Frontiers in Computational Neuroscience, 2019, 13, 83.	1.2	195
11	Classification of Fish Species with Augmented Data using Deep Convolutional Neural Network. , 2019, , .		15
12	Boosting of Deep Convolutional Architectures for Arabic Handwriting Recognition. International Journal of Multimedia Data Engineering and Management, 2019, 10, 26-45.	0.3	12
13	Simulated perfusion MRI data to boost training of convolutional neural networks for lesion fate prediction in acute stroke. Computers in Biology and Medicine, 2020, 116, 103579.	3.9	10
14	Spatio-temporal DenseNet for real-time intent prediction of pedestrians in urban traffic environments. Neurocomputing, 2020, 386, 317-324.	3.5	11
15	An enhanced deep learning approach for brain cancer MRI images classification using residual networks. Artificial Intelligence in Medicine, 2020, 102, 101779.	3.8	192
16	Deep learning tools for the measurement of animal behavior in neuroscience. Current Opinion in Neurobiology, 2020, $60, 1-11$.	2.0	271
17	Full body pose estimation of construction equipment using computer vision and deep learning techniques. Automation in Construction, 2020, 110, 103016.	4.8	98
18	Optimization of deep learning methods for visualization of tumor heterogeneity and brain tumor grading through digital pathology. Neuro-Oncology Advances, 2020, 2, vdaa110.	0.4	17

#	ARTICLE	IF	CITATIONS
19	Analysis of Classifier Training on Synthetic Data for Cross-Domain Datasets. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 190-199.	4.7	3
20	Remote Sensing Scene Classification and Explanation Using RSSCNet and LIME. Applied Sciences (Switzerland), 2020, 10, 6151.	1.3	22
21	A deep learning model and machine learning methods for the classification of potential coronavirus treatments on a single human cell. Journal of Nanoparticle Research, 2020, 22, 313.	0.8	14
22	DeePore: A deep learning workflow for rapid and comprehensive characterization of porous materials. Advances in Water Resources, 2020, 146, 103787.	1.7	47
23	A weak supervision machine vision detection method based on artificial defect simulation. Knowledge-Based Systems, 2020, 208, 106466.	4.0	17
24	Sea Ice Classification via Deep Neural Network Semantic Segmentation. IEEE Sensors Journal, 2021, 21, 11879-11888.	2.4	22
25	Artificial Intelligence-Based Classification of Chest X-Ray Images into COVID-19 and Other Infectious Diseases. International Journal of Biomedical Imaging, 2020, 2020, 1-10.	3.0	87
26	A survey of public datasets for computer vision tasks in precision agriculture. Computers and Electronics in Agriculture, 2020, 178, 105760.	3.7	134
27	A review on computer vision systems in monitoring of poultry: A welfare perspective. Artificial Intelligence in Agriculture, 2020, 4, 184-208.	4.4	46
28	Automated landmarking for insects morphometric analysis using deep neural networks. Ecological Informatics, 2020, 60, 101175.	2.3	10
29	When Autonomous Systems Meet Accuracy and Transferability through Al: A Survey. Patterns, 2020, 1, 100050.	3.1	15
30	A Study of Defect Detection Techniques for Metallographic Images. Sensors, 2020, 20, 5593.	2.1	10
31	Damage Analysis in Dual-Phase Steel Using Deep Learning: Transfer from Uniaxial to Biaxial Straining Conditions by Image Data Augmentation. Jom, 2020, 72, 4420-4430.	0.9	13
32	A comprehensive study on classification of COVID-19 on computed tomography with pretrained convolutional neural networks. Scientific Reports, 2020, 10, 16942.	1.6	109
33	Dual-input convolutional neural network for glaucoma diagnosis using spectral-domain optical coherence tomography. British Journal of Ophthalmology, 2020, 105, bjophthalmol-2020-316274.	2.1	7
34	Integrating Machine Learning with Human Knowledge. IScience, 2020, 23, 101656.	1.9	95
35	Fully synthetic neuroimaging data for replication and exploration. NeuroImage, 2020, 223, 117284.	2.1	8
36	Stabilizing hidden room-temperature ferroelectricity via a metastable atomic distortion pattern. Nature Communications, 2020, 11 , 4944.	5.8	25

#	Article	IF	Citations
37	A Survey on Deep Learning for Neuroimaging-Based Brain Disorder Analysis. Frontiers in Neuroscience, 2020, 14, 779.	1.4	111
38	Crop pest classification with a genetic algorithm-based weighted ensemble of deep convolutional neural networks. Computers and Electronics in Agriculture, 2020, 179, 105809.	3.7	93
39	Transparency and reproducibility in artificial intelligence. Nature, 2020, 586, E14-E16.	13.7	233
40	Insect classification and detection in field crops using modern machine learning techniques. Information Processing in Agriculture, 2021, 8, 446-457.	2.9	87
41	Investigations on Performances of Pre-trained U-Net Models for 2D Ultrasound Kidney Image Segmentation. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2020, , 185-195.	0.2	7
42	Graph-based non-maximal suppression for detecting products on the rack. Pattern Recognition Letters, 2020, 140, 73-80.	2.6	8
43	Classification of tectonic and non-tectonic seismicity based on convolutional neural network. Geophysical Journal International, 2020, 224, 191-198.	1.0	7
44	Digital image processing with deep learning for automated cutting tool wear detection. Procedia Manufacturing, 2020, 48, 947-958.	1.9	77
45	Assisted deep learning framework for multi-class skin lesion classification considering a binary classification support. Biomedical Signal Processing and Control, 2020, 62, 102041.	3.5	39
46	Modeling and interpreting road geometry from a driver's perspective using variational autoencoders. Computer-Aided Civil and Infrastructure Engineering, 2020, 35, 1148-1159.	6.3	2
47	Fast Deep Stacked Networks based on Extreme Learning Machine applied to regression problems. Neural Networks, 2020, 131, 14-28.	3.3	14
48	State-of-the-art augmented NLP transformer models for direct and single-step retrosynthesis. Nature Communications, 2020, 11, 5575.	5.8	171
49	Towards image-based cancer cell lines authentication using deep neural networks. Scientific Reports, 2020, 10, 19857.	1.6	14
50	Explainable Artificial Intelligence for Developing Smart Cities Solutions. Smart Cities, 2020, 3, 1353-1382.	5.5	35
51	Power System Event Classification and Localization Using a Convolutional Neural Network. Frontiers in Energy Research, 2020, 8, .	1.2	20
52	Telescope performance real-time monitoring based on machine learning. Monthly Notices of the Royal Astronomical Society, 2020, 500, 388-396.	1.6	5
53	Data augmentation for automated pest classification in Mango farms. Computers and Electronics in Agriculture, 2020, 179, 105842.	3.7	46
54	A machine learning-based clinical tool for diagnosing myopathy using multi-cohort microarray expression profiles. Journal of Translational Medicine, 2020, 18, 454.	1.8	7

#	ARTICLE	IF	CITATIONS
55	An Efficient Lightweight CNN and Ensemble Machine Learning Classification of Prostate Tissue Using Multilevel Feature Analysis. Applied Sciences (Switzerland), 2020, 10, 8013.	1.3	13
56	Evaluation of Data Augmentation Techniques for Facial Expression Recognition Systems. Electronics (Switzerland), 2020, 9, 1892.	1.8	32
57	Automating Jellyfish Species Recognition through Faster Region-Based Convolution Neural Networks. Applied Sciences (Switzerland), 2020, 10, 8257.	1.3	6
58	Deep-Learning-Based Computer-Aided Systems for Breast Cancer Imaging: A Critical Review. Applied Sciences (Switzerland), 2020, 10, 8298.	1.3	44
59	Dental Caries Diagnosis and Detection Using Neural Networks: A Systematic Review. Journal of Clinical Medicine, 2020, 9, 3579.	1.0	53
60	A Data Augmentation Method for Deep Learning Based on Multi-Degree of Freedom (DOF) Automatic Image Acquisition. Applied Sciences (Switzerland), 2020, 10, 7755.	1.3	6
61	Hybrid Malware Classification Method Using Segmentation-Based Fractal Texture Analysis and Deep Convolution Neural Network Features. Applied Sciences (Switzerland), 2020, 10, 4966.	1.3	86
62	SmoothMix: a Simple Yet Effective Data Augmentation to Train Robust Classifiers. , 2020, , .		19
63	MA ³ : Model Agnostic Adversarial Augmentation for Few Shot learning., 2020,,.		2
64	Handling imbalanced medical image data: A deep-learning-based one-class classification approach. Artificial Intelligence in Medicine, 2020, 108, 101935.	3.8	59
65	Time-Series Data Augmentation based on Interpolation. Procedia Computer Science, 2020, 175, 64-71.	1.2	46
66	Automated Nuclei Segmentation on Dysplastic Oral Tissues Using CNN. , 2020, , .		7
67	Focal Liver Lesion Detection in Ultrasound Image Using Deep Feature Fusions and Super Resolution. Machine Learning and Knowledge Extraction, 2020, 2, 172-191.	3.2	18
68	An Unsupervised Generative Neural Approach for InSAR Phase Filtering and Coherence Estimation. IEEE Geoscience and Remote Sensing Letters, 2021, 18, 1971-1975.	1.4	23
69	Data augmentation for deep-learning-based electroencephalography. Journal of Neuroscience Methods, 2020, 346, 108885.	1.3	201
70	Cardiac MRI Segmentation With a Dilated CNN Incorporating Domain-Specific Constraints. IEEE Journal on Selected Topics in Signal Processing, 2020, 14, 1235-1243.	7.3	39
71	Diagram Image Retrieval using Sketch-Based Deep Learning and Transfer Learning. , 2020, , .		5
72	Neonatal Seizures Detection using Stationary Wavelet Transform and Deep Neural Networks: Preliminary Results., 2020,,.		13

#	ARTICLE	IF	Citations
73	Offline Hand Written Urdu Word Spotting Using Random Data Generation. IEEE Access, 2020, 8, 131119-131136.	2.6	6
74	Deep Learning of Protein Structural Classes: Any Evidence for an â€~Urfold'?. , 2020, , .		2
75	Machine Learning-based Weather Support for the 2022 Winter Olympics. Advances in Atmospheric Sciences, 2020, 37, 927-932.	1.9	17
76	On Isometry Robustness of Deep 3D Point Cloud Models Under Adversarial Attacks. , 2020, , .		37
77	Deblurring by Realistic Blurring. , 2020, , .		192
78	Enhancing Performance of Deep Learning Models with different Data Augmentation Techniques: A Survey., 2020,,.		59
79	Unravelling the effect of data augmentation transformations in polyp segmentation. International Journal of Computer Assisted Radiology and Surgery, 2020, 15, 1975-1988.	1.7	23
80	Overview: Computer Vision and Machine Learning for Microstructural Characterization and Analysis. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2020, 51, 5985-5999.	1.1	102
81	Pneumonia Detection Using Convolutional Neural Networks. , 2020, , .		16
82	Research on Data Augmentation for Object Detection Based on X- ray Security Inspection Picture. , 2020, , .		9
83	Soft Rotation Equivariant Convolutional Neural Networks. , 2020, , .		2
84	Embedded object detection applying Deep Neural Networks in railway domain. , 2020, , .		2
85	Detection and Classification of Aircraft Fixation Elements during Manufacturing Processes Using a Convolutional Neural Network. Applied Sciences (Switzerland), 2020, 10, 6856.	1.3	18
86	Mimicry Embedding Facilitates Advanced Neural Network Training for Image-Based Pathogen Detection. MSphere, 2020, 5, .	1.3	5
87	EPYNET: Efficient Pyramidal Network for Clothing Segmentation. IEEE Access, 2020, 8, 187882-187892.	2.6	9
88	An Enhanced Framework of Generative Adversarial Networks (EF-GANs) for Environmental Microorganism Image Augmentation With Limited Rotation-Invariant Training Data. IEEE Access, 2020, 8, 187455-187469.	2.6	24
89	Evaluating the Effect of User-Given Guiding Attention on the Learning Process. , 2020, , .		2
90	Data Augmentation for Deep Learning based Cattle Segmentation in Precision Livestock Farming. , 2020,		11

#	Article	IF	Citations
91	A Framework for Land Use Scenes Classification Based on Landscape Photos. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2020, 13, 6124-6141.	2.3	9
92	Fast body part segmentation and tracking of neonatal video data using deep learning. Medical and Biological Engineering and Computing, 2020, 58, 3049-3061.	1.6	14
93	A Multi-Label Deep Learning Model with Interpretable Grad-CAM for Diabetic Retinopathy Classification., 2020, 2020, 1560-1563.		34
94	Data Augmentation for Automatic Identification of Spatiotemporal Dispersion Electrograms in Persistent Atrial Fibrillation Ablation Using Machine Learning., 2020, 2020, 406-409.		4
95	Data Augmentation of Surface Electromyography for Hand Gesture Recognition. Sensors, 2020, 20, 4892.	2.1	24
96	Recent advances of deep learning in psychiatric disorders. Precision Clinical Medicine, 2020, 3, 202-213.	1.3	16
97	Deep Learning Applied to Phenotyping of Biomass in Forages with UAV-Based RGB Imagery. Sensors, 2020, 20, 4802.	2.1	49
99	Approach for Image-Based Semantic Segmentation of Canopy Cover in Pea–Oat Intercropping. Agriculture (Switzerland), 2020, 10, 354.	1.4	6
100	Multi-Channel Transfer Learning of Chest X-ray Images for Screening of COVID-19. Electronics (Switzerland), 2020, 9, 1388.	1.8	65
101	Transfer Learning as Tool to Enhance Predictions of Molecular Properties Based on 2D Projections. Advanced Theory and Simulations, 2020, 3, 2000148.	1.3	7
102	Combining deep learning with 3D stereophotogrammetry for craniosynostosis diagnosis. Scientific Reports, 2020, 10, 15346.	1.6	30
103	Dual-Branch Structured De-Striping Convolution Network Using Parametric Noise Model. IEEE Access, 2020, 8, 155519-155528.	2.6	5
104	Effect of sequence padding on the performance of deep learning models in archaeal protein functional prediction. Scientific Reports, 2020, 10, 14634.	1.6	21
105	Unsupervised Pre-trained Models from Healthy ADLs Improve Parkinson's Disease Classification of Gait Patterns. , 2020, 2020, 784-788.		9
106	Aerial Scene Classification through Fine-Tuning with Adaptive Learning Rates and Label Smoothing. Applied Sciences (Switzerland), 2020, 10, 5792.	1.3	29
107	A Survey of Image Synthesis Methods for Visual Machine Learning. Computer Graphics Forum, 2020, 39, 426-451.	1.8	22
108	Data Augmentation for Human Keypoint Estimation Deep Learning based Sign Language Translation. Electronics (Switzerland), 2020, 9, 1257.	1.8	8
109	Automated System for Chromosome Karyotyping to Recognize the Most Common Numerical Abnormalities Using Deep Learning. IEEE Access, 2020, 8, 157727-157747.	2.6	27

#	Article	IF	CITATIONS
110	Dashcam based wildlife detection and classification using fused data sets of digital photographic and simulated imagery. , 2020, , .		0
111	Impact of data smoothing on semantic segmentation. Neural Computing and Applications, 2020, , 1.	3.2	2
112	Augmentation Techniques for Sequential Clinical Data to Improve Deep Learning Prediction Techniques. , 2020, , .		2
113	Individual tree species identification using Dense Convolutional Network (DenseNet) on multitemporal RGB images from UAV. Journal of Unmanned Vehicle Systems, 2020, 8, 310-333.	0.6	31
114	Spatial locations of certain enzymes and transporters within preinvasive ductal epithelial cells predict human breast cancer recurrences. American Journal of Physiology - Cell Physiology, 2020, 319, C910-C921.	2.1	7
115	Using Data Augmentation Based Reinforcement Learning for Daily Stock Trading. Electronics (Switzerland), 2020, 9, 1384.	1.8	14
116	Convolution Neural Network Models for Acute Leukemia Diagnosis. , 2020, , .		10
117	DCSegNet: Deep Learning Framework Based on Divide-and-Conquer Method for Liver Segmentation. IEEE Access, 2020, 8, 146838-146846.	2.6	8
118	Data Augmentation for Motor Imagery Signal Classification Based on a Hybrid Neural Network. Sensors, 2020, 20, 4485.	2.1	61
119	DeepSIP: A System for Predicting Service Impact of Network Failure by Temporal Multimodal CNN. , 2020, , .		1
120	Automated Quantitative Analyses of Fatigue-Induced Surface Damage by Deep Learning. Materials, 2020, 13, 3298.	1.3	13
121	Application of Systems Engineering Principles and Techniques in Biological Big Data Analytics: A Review. Processes, 2020, 8, 951.	1.3	10
122	Variability and reproducibility in deep learning for medical image segmentation. Scientific Reports, 2020, 10, 13724.	1.6	107
123	Point-Based Deep Neural Network for 3D Facial Expression Recognition. , 2020, , .		2
124	IDA: Improved Data Augmentation Applied to Salient Object Detection. , 2020, , .		7
125	A comparison of graph-based semi-supervised learning for data augmentation. , 2020, , .		2
126	Adversarial Learning for Invertible Steganography. IEEE Access, 2020, 8, 198425-198435.	2.6	38
127	FinSNet: End-to-End Separation of Overlapped Fingerprints Using Deep Learning. IEEE Access, 2020, 8, 209020-209029.	2.6	5

#	Article	IF	Citations
128	A Lightweight CNN Model for Refining Moving Vehicle Detection From Satellite Videos. IEEE Access, 2020, 8, 221897-221917.	2.6	14
129	BAT Algorithm With fuzzy C-Ordered Means (BAFCOM) Clustering Segmentation and Enhanced Capsule Networks (ECN) for Brain Cancer MRI Images Classification. IEEE Access, 2020, 8, 201741-201751.	2.6	36
130	On Segmentation of Pectoral Muscle in Digital Mammograms by Means of Deep Learning. IEEE Access, 2020, 8, 204173-204182.	2.6	14
131	A Gentle Introduction to Reinforcement Learning and its Application in Different Fields. IEEE Access, 2020, 8, 209320-209344.	2.6	73
132	A New Backbone Network for Instance Segmentation: Application on a Semiconductor Process Inspection. IEEE Access, 2020, 8, 218110-218121.	2.6	1
133	Exploring Faster RCNN for Fabric Defect Detection. , 2020, , .		14
134	Evaluation of the Skeleton Avatar Technique for Assessment of Mobility and Balance Among Older Adults. Frontiers in Computer Science, 2020, 2, .	1.7	3
135	On the combination of data augmentation method and gated convolution model for building effective and robust intrusion detection. Cybersecurity, 2020, 3, .	3.1	2
136	Dual-Window Superpixel Data Augmentation for Hyperspectral Image Classification. Applied Sciences (Switzerland), 2020, 10, 8833.	1.3	19
137	Symmetry prediction and knowledge discovery from X-ray diffraction patterns using an interpretable machine learning approach. Scientific Reports, 2020, 10, 21790.	1.6	61
138	Accurate machine learning-based germination detection, prediction and quality assessment of three grain crops. Plant Methods, 2020, 16, 157.	1.9	41
139	Poribohon-BD: Bangladeshi local vehicle image dataset with annotation for classification. Data in Brief, 2020, 33, 106465.	0.5	12
140	Dataset of sodium chloride sterile liquid in bottles for intravenous administration and fill level monitoring. Data in Brief, 2020, 33, 106472.	0.5	2
141	Implicit pairs for boosting unpaired image-to-image translation. Visual Informatics, 2020, 4, 50-58.	2.5	0
142	A Survey of Deep Learning for Lung Disease Detection on Medical Images: State-of-the-Art, Taxonomy, Issues and Future Directions. Journal of Imaging, 2020, 6, 131.	1.7	55
143	Automatic Concrete Damage Recognition Using Multi-Level Attention Convolutional Neural Network. Materials, 2020, 13, 5549.	1.3	16
144	Hybrid-COVID: a novel hybrid 2D/3D CNN based on cross-domain adaptation approach for COVID-19 screening from chest X-ray images. Physical and Engineering Sciences in Medicine, 2020, 43, 1415-1431.	1.3	29
145	Bucket of Deep Transfer Learning Features and Classification Models for Melanoma Detection. Journal of Imaging, 2020, 6, 129.	1.7	17

#	Article	IF	CITATIONS
146	Interactive Knowledge-Guided Learning. , 2020, , .		1
147	Advances in neural networks and potential for their application to steel metallurgy. Materials Science and Technology, 2020, 36, 1805-1819.	0.8	15
148	GPU Parallel Computing for Detection and Classification Object in Robot Soccer ERSOW., 2020,,.		1
149	A Feasibility Study on Metallurgical Slag Classification by Microstructure Recognition. Materials Science Forum, 2020, 1009, 107-113.	0.3	0
150	SatlmNet: Structured and Harmonised Training Data for Enhanced Satellite Imagery Classification. Remote Sensing, 2020, 12, 3358.	1.8	5
151	Detection of Invasive Species in Wetlands: Practical DL with Heavily Imbalanced Data. Remote Sensing, 2020, 12, 3431.	1.8	12
152	Data Augmentation vs. Domain Adaptationâ€"A Case Study in Human Activity Recognition. Technologies, 2020, 8, 55.	3.0	3
153	Data Augmentation Using Artificial Immune Systems For Noise-Robust CNN Models. , 2020, , .		1
154	Early Prediction of Single-Cell Derived Sphere Formation Rate Using Convolutional Neural Network Image Analysis. Analytical Chemistry, 2020, 92, 7717-7724.	3.2	14
155	Deep Learning Hybrid Method to Automatically Diagnose Periodontal Bone Loss and Stage Periodontitis. Scientific Reports, 2020, 10, 7531.	1.6	111
156	Fashion Landmark Detection and Category Classification for Robotics. , 2020, , .		7
157	Nom document digitalization by deep convolution neural networks. Pattern Recognition Letters, 2020, 133, 8-16.	2.6	11
158	A machine learning model for detecting invasive ductal carcinoma with Google Cloud AutoML Vision. Computers in Biology and Medicine, 2020, 122, 103861.	3.9	46
159	Deep learning-based CAD schemes for the detection and classification of lung nodules from CT images: A survey. Journal of X-Ray Science and Technology, 2020, 28, 591-617.	0.7	16
160	Breast Lesion Segmentation in Ultrasound Images Using Deep Convolutional Neural Networks. , 2020, , .		4
161	Automatic detection of the meningioma tumor firmness in MRI images. Journal of X-Ray Science and Technology, 2020, 28, 659-682.	0.7	7
162	Deep learning analysis on microscopic imaging in materials science. Materials Today Nano, 2020, 11, 100087.	2.3	82
163	WatchPose: A View-Aware Approach for Camera Pose Data Collection in Industrial Environments. Sensors, 2020, 20, 3045.	2.1	4

#	Article	IF	CITATIONS
164	Leveraging Advances in Artificial Intelligence to Improve the Quality and Timing of Palliative Care. Cancers, 2020, 12, 1149.	1.7	6
165	SpeckleGAN: a generative adversarial network with an adaptive speckle layer to augment limited training data for ultrasound image processing. International Journal of Computer Assisted Radiology and Surgery, 2020, 15, 1427-1436.	1.7	35
166	Automatic Detection of Arrhythmia Based on Multi-Resolution Representation of ECG Signal. Sensors, 2020, 20, 1579.	2.1	16
167	Mechanical MNIST: A benchmark dataset for mechanical metamodels. Extreme Mechanics Letters, 2020, 36, 100659.	2.0	34
168	Deep learning a boon for biophotonics?. Journal of Biophotonics, 2020, 13, e201960186.	1.1	61
169	Alzheimer's disease diagnosis from diffusion tensor images using convolutional neural networks. PLoS ONE, 2020, 15, e0230409.	1.1	46
170	Statistical and machine learning models in credit scoring: A systematic literature survey. Applied Soft Computing Journal, 2020, 91, 106263.	4.1	154
171	Sequence-Dropout Block for Reducing Overfitting Problem in Image Classification. IEEE Access, 2020, 8, 62830-62840.	2.6	26
172	Modified DenseNet for Automatic Fabric Defect Detection With Edge Computing for Minimizing Latency. IEEE Internet of Things Journal, 2020, 7, 9623-9636.	5.5	48
173	Optimizing the Performance of Breast Cancer Classification by Employing the Same Domain Transfer Learning from Hybrid Deep Convolutional Neural Network Model. Electronics (Switzerland), 2020, 9, 445.	1.8	96
174	Deep Neural Networks and Transfer Learning for Food Crop Identification in UAV Images. Drones, 2020, 4, 7.	2.7	54
175	Semi-supervised learning with deep convolutional generative adversarial networks for canine red blood cells morphology classification. Multimedia Tools and Applications, 2020, 79, 34209-34226.	2.6	20
176	When Texture Matters: Texture-Focused Cnns Outperform General Data Augmentation and Pretraining in Oral Cancer Detection. , 2020, , .		4
177	Data Augmentation Method by Applying Color Perturbation of Inverse PSNR and Geometric Transformations for Object Recognition Based on Deep Learning. Applied Sciences (Switzerland), 2020, 10, 3755.	1.3	16
178	Exploring the Potential of Deep Learning Segmentation for Mountain Roads Generalisation. ISPRS International Journal of Geo-Information, 2020, 9, 338.	1.4	38
179	Quantifying drug-induced structural toxicity in hepatocytes and cardiomyocytes derived from hiPSCs using a deep learning method. Journal of Pharmacological and Toxicological Methods, 2020, 105, 106895.	0.3	22
180	Automatic diagnosis for cysts and tumors of both jaws on panoramic radiographs using a deep convolution neural network. Dentomaxillofacial Radiology, 2020, 49, 20200185.	1.3	83
181	Nested AdaBoost procedure for classification and multi-class nonlinear discriminant analysis. Soft Computing, 2020, 24, 17969-17990.	2.1	0

#	Article	IF	CITATIONS
182	Artificial intelligence for medical imaging. , 2020, , 143-162.		3
183	Data augmentation using improved cDCGAN for plant vigor rating. Computers and Electronics in Agriculture, 2020, 175, 105603.	3.7	20
184	Towards a Better Understanding of Transfer Learning for Medical Imaging: A Case Study. Applied Sciences (Switzerland), 2020, 10, 4523.	1.3	133
185	Image-based Classification of Variable Stars: First Results from Optical Gravitational Lensing Experiment Data. Astrophysical Journal Letters, 2020, 897, L12.	3.0	11
186	Albumentations: Fast and Flexible Image Augmentations. Information (Switzerland), 2020, 11, 125.	1.7	1,025
187	Regional Patch-Based Feature Interpolation Method for Effective Regularization. IEEE Access, 2020, 8, 33658-33665.	2.6	2
188	A Content-Based Method for Sybil Detection in Online Social Networks via Deep Learning. IEEE Access, 2020, 8, 38753-38766.	2.6	16
189	A Method for Vehicle Detection in High-Resolution Satellite Images that Uses a Region-Based Object Detector and Unsupervised Domain Adaptation. Remote Sensing, 2020, 12, 575.	1.8	51
190	Deep learning-based method for vision-guided robotic grasping of unknown objects. Advanced Engineering Informatics, 2020, 44, 101052.	4.0	34
191	An Intelligent Microwave Oven with Thermal Imaging and Temperature Recommendation Using Deep Learning. Applied System Innovation, 2020, 3, 13.	2.7	9
192	Deformation modeling and classification using deep convolutional neural networks for computerized analysis of neuropsychological drawings. Neural Computing and Applications, 2020, 32, 12909-12933.	3.2	13
193	A Novel Transfer Learning Based Approach for Pneumonia Detection in Chest X-ray Images. Applied Sciences (Switzerland), 2020, 10, 559.	1.3	431
194	Data Augmentation for Inertial Sensor-Based Gait Deep Neural Network. IEEE Access, 2020, 8, 12364-12378.	2.6	26
195	Video Image Enhancement and Machine Learning Pipeline for Underwater Animal Detection and Classification at Cabled Observatories. Sensors, 2020, 20, 726.	2.1	40
196	Comparative Study of Deep Learning Models for Segmentation of Corpus Callosum., 2020,,.		5
197	A Novel Architecture to Classify Histopathology Images Using Convolutional Neural Networks. Applied Sciences (Switzerland), 2020, 10, 2929.	1.3	9
198	Development of an Artificial Intelligence Powered TIG Welding Algorithm for the Prediction of Bead Geometry for TIG Welding Processes using Hybrid Deep Learning. Metals, 2020, 10, 451.	1.0	18
199	Embracing imperfect datasets: A review of deep learning solutions for medical image segmentation. Medical Image Analysis, 2020, 63, 101693.	7.0	473

#	Article	IF	CITATIONS
200	Detection of Flaws in Concrete Using Ultrasonic Tomography and Convolutional Neural Networks. Materials, 2020, 13, 1557.	1.3	37
201	Incorporating Noise Robustness in Speech Command Recognition by Noise Augmentation of Training Data. Sensors, 2020, 20, 2326.	2.1	31
202	Decoding Imagined and Spoken Phrases From Non-invasive Neural (MEG) Signals. Frontiers in Neuroscience, 2020, 14, 290.	1.4	66
203	Automatic Windthrow Detection Using Very-High-Resolution Satellite Imagery and Deep Learning. Remote Sensing, 2020, 12, 1145.	1.8	30
204	Brain experiments imply adaptation mechanisms which outperform common AI learning algorithms. Scientific Reports, 2020, 10, 6923.	1.6	6
205	Hand vein-based biometric authentication using two-channel similarity measure networks. , 2020, , .		1
206	Deep Neural Networks approaches for detecting and classifying colorectal polyps. Neurocomputing, 2021, 423, 721-734.	3.5	65
207	Efficient Medical Instrument Detection in 3D Volumetric Ultrasound Data. IEEE Transactions on Biomedical Engineering, 2021, 68, 1034-1043.	2.5	4
208	Deep semantic segmentation of natural and medical images: a review. Artificial Intelligence Review, 2021, 54, 137-178.	9.7	398
209	Intelligent fault prediction of rolling bearing based on gate recurrent unit and hybrid autoencoder. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2021, 235, 1106-1114.	1.1	13
210	Automatic recognition of handwritten Arabic characters: a comprehensive review. Neural Computing and Applications, 2021, 33, 3011-3034.	3.2	32
211	Sanders classification of calcaneal fractures in CT images with deep learning and differential data augmentation techniques. Injury, 2021, 52, 616-624.	0.7	32
212	COVID-19 open source data sets: a comprehensive survey. Applied Intelligence, 2021, 51, 1296-1325.	3.3	145
213	Fast and accurate detection of kiwifruit in orchard using improved YOLOv3-tiny model. Precision Agriculture, 2021, 22, 754-776.	3.1	110
214	Augmenting organizational decision-making with deep learning algorithms: Principles, promises, and challenges. Journal of Business Research, 2021, 123, 588-603.	5.8	82
215	A transfer learning approach for improved classification of carbon nanomaterials from TEM images. Nanoscale Advances, 2021, 3, 206-213.	2.2	25
216	Classification of fatigue crack damage in polycrystalline alloy structures using convolutional neural networks. Engineering Failure Analysis, 2021, 119, 104908.	1.8	27
217	Training an artificial neural network for recognizing electron collision patterns. Physics Letters, Section A: General, Atomic and Solid State Physics, 2021, 387, 127005.	0.9	4

#	Article	IF	Citations
218	Advances and opportunities in image analysis of bacterial cells and communities. FEMS Microbiology Reviews, $2021,45,.$	3.9	52
220	Research on the recurrent neural network-based fatigue damage model of asphalt binder and the finite element analysis development. Construction and Building Materials, 2021, 267, 121761.	3.2	11
221	A generative flow-based model for volumetric data augmentation in 3D deep learning for computed tomographic colonography. International Journal of Computer Assisted Radiology and Surgery, 2021, 16, 81-89.	1.7	11
222	Artificial intelligence-based pathology for gastrointestinal and hepatobiliary cancers. Gut, 2021, 70, 1183-1193.	6.1	63
223	Casting defect detection in X-ray images using convolutional neural networks and attention-guided data augmentation. Measurement: Journal of the International Measurement Confederation, 2021, 170, 108736.	2.5	33
224	CNN-based transfer learning–BiLSTM network: A novel approach for COVID-19 infection detection. Applied Soft Computing Journal, 2021, 98, 106912.	4.1	233
225	A scoping review of transfer learning research on medical image analysis using ImageNet. Computers in Biology and Medicine, 2021, 128, 104115.	3.9	230
226	Detection of threat objects in baggage inspection with X-ray images using deep learning. Neural Computing and Applications, 2021, 33, 7803-7819.	3.2	25
227	Joint space representation and recognition of sign language fingerspelling using Gabor filter and convolutional neural network. Multimedia Tools and Applications, 2021, 80, 10213-10234.	2.6	16
228	Models Genesis. Medical Image Analysis, 2021, 67, 101840.	7.0	132
229	A generic deep learning framework to classify thyroid and breast lesions in ultrasound images. Ultrasonics, 2021, 110, 106300.	2.1	64
230	DRNet: Segmentation and localization of optic disc and Fovea from diabetic retinopathy image. Artificial Intelligence in Medicine, $2021, 111, 102001$.	3.8	58
231	Automatic recognition of bladder tumours using deep learning technology and its clinical application. International Journal of Medical Robotics and Computer Assisted Surgery, 2021, 17, e2194.	1.2	15
232	Molecular image-convolutional neural network (CNN) assisted QSAR models for predicting contaminant reactivity toward OH radicals: Transfer learning, data augmentation and model interpretation. Chemical Engineering Journal, 2021, 408, 127998.	6.6	52
233	Detecting cells in intravital video microscopy using a deep convolutional neural network. Computers in Biology and Medicine, 2021, 129, 104133.	3.9	7
234	Using Deep Learning Artificial Intelligence Algorithms to Verify N-Nitroso-N-Methylurea and Urethane Positive Control Proliferative Changes in Tg-RasH2 Mouse Carcinogenicity Studies. Toxicologic Pathology, 2021, 49, 938-949.	0.9	7
235	Visible fingerprint of X-ray images of epoxy resins using singular value decomposition of deep learning features. Computational Materials Science, 2021, 186, 109996.	1.4	1
236	Decoding Optical Data with Machine Learning. Laser and Photonics Reviews, 2021, 15, 2000422.	4.4	18

#	Article	IF	CITATIONS
237	Deep learning for processing electromyographic signals: A taxonomy-based survey. Neurocomputing, 2021, 452, 549-565.	3.5	34
238	Data augmentation using image-to-image translation for detecting forest strip roads based on deep learning. International Journal of Forest Engineering, 2021, 32, 57-66.	0.4	4
239	Improved automatic detection of herpesvirus secondary envelopment stages in electron microscopy by augmenting training data with synthetic labelled images generated by a generative adversarial network. Cellular Microbiology, 2021, 23, e13280.	1.1	10
240	Deep learning to diagnose Peripapillary Atrophy in retinal images along with statistical features. Biomedical Signal Processing and Control, 2021, 64, 102254.	3.5	7
241	Reconstructing Undersampled Photoacoustic Microscopy Images Using Deep Learning. IEEE Transactions on Medical Imaging, 2021, 40, 562-570.	5.4	71
242	Spectral images based environmental sound classification using CNN with meaningful data augmentation. Applied Acoustics, 2021, 172, 107581.	1.7	81
243	Semantic segmentation with deep learning: detection of cracks at the cut edge of glass. Glass Structures and Engineering, 2021, 6, 21-37.	0.8	4
244	Leveraging Small Sample Learning for Business Process Management. Information and Software Technology, 2021, 132, 106472.	3.0	6
245	CAVA: A Visual Analytics System for Exploratory Columnar Data Augmentation Using Knowledge Graphs. IEEE Transactions on Visualization and Computer Graphics, 2021, 27, 1731-1741.	2.9	11
246	A Multimodality Fusion Deep Neural Network and Safety Test Strategy for Intelligent Vehicles. IEEE Transactions on Intelligent Vehicles, 2021, 6, 310-322.	9.4	60
247	Application and Construction of Deep Learning Networks in Medical Imaging. IEEE Transactions on Radiation and Plasma Medical Sciences, 2021, 5, 137-159.	2.7	29
248	Sensorineural hearing loss classification via deep-HLNet and few-shot learning. Multimedia Tools and Applications, 2021, 80, 2109-2122.	2.6	4
249	A Systematic Review of the Techniques for the Automatic Segmentation of Organs-at-Risk in Thoracic Computed Tomography Images. Archives of Computational Methods in Engineering, 2021, 28, 3245-3267.	6.0	20
250	An optimized deep learning architecture for the diagnosis of COVID-19 disease based on gravitational search optimization. Applied Soft Computing Journal, 2021, 98, 106742.	4.1	118
251	Transfer learning in deep neural network based under-sampled MR image reconstruction. Magnetic Resonance Imaging, 2021, 76, 96-107.	1.0	13
252	Authente-Kente: enabling authentication for artisanal economies with deep learning. Al and Society, 2021, 36, 369-379.	3.1	7
253	COVID-19 detection and disease progression visualization: Deep learning on chest X-rays for classification and coarse localization. Applied Intelligence, 2021, 51, 1010-1021.	3.3	127
254	Methodology adopted for designing of computer-aided classification systems for chest radiographs. , 2021, , 59-115.		0

#	ARTICLE	IF	CITATIONS
255	Spacecraft Relative Trajectory Planning Based on Meta-Learning. IEEE Transactions on Aerospace and Electronic Systems, 2021, 57, 3118-3131.	2.6	6
256	An Efficient Pneumonia Detection from the Chest X-Ray Images. Algorithms for Intelligent Systems, 2021, , 779-789.	0.5	4
257	Transfer Learning for Instance Segmentation of Waste Bottles Using Mask R-CNN Algorithm. Advances in Intelligent Systems and Computing, 2021, , 140-149.	0.5	3
258	Flood Extent Mapping: An Integrated Method Using Deep Learning and Region Growing Using UAV Optical Data. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 2127-2135.	2.3	43
260	Improved Classification for Pneumonia Detection using Transfer Learning with GAN based Synthetic Image Augmentation. , 2021, , .		17
261	RU-Net for Heart Segmentation from CXR. Journal of Physics: Conference Series, 2021, 1769, 012015.	0.3	3
262	Explainable Model Selection of a Convolutional Neural Network for Driver's Facial Emotion Identification. Lecture Notes in Computer Science, 2021, , 699-713.	1.0	6
263	Evolutionary Neural Architecture Search Supporting Approximate Multipliers. Lecture Notes in Computer Science, 2021, , 82-97.	1.0	6
264	Identification of Spatiotemporal Dispersion Electrograms in Persistent Atrial Fibrillation Ablation Using Maximal Voltage Absolute Values., 2021,,.		2
265	Learning to autofocus in whole slide imaging via physics-guided deep cascade networks. Optics Express, 2022, 30, 14319.	1.7	5
266	Prediction of pneumonia COVID19 using a custom convolutional neural network with data augmentation. AIP Conference Proceedings, 2021, , .	0.3	0
267	A Bayesian Framework for Integrated Deep Metric Learning and Tracking of Vulnerable Road Users Using Automotive Radars. IEEE Access, 2021, 9, 68758-68777.	2.6	16
268	Automatic Personality Traits Perception Using Asymmetric Auto-Encoder. IEEE Access, 2021, 9, 68595-68608.	2.6	3
269	Extending deep learning approaches for forest disturbance segmentation on very highâ€resolution satellite images. Remote Sensing in Ecology and Conservation, 2021, 7, 355-368.	2.2	33
270	Rethinking Ultrasound Augmentation: A Physics-Inspired Approach. Lecture Notes in Computer Science, 2021, , 690-700.	1.0	11
271	TumorCP: A Simple but Effective Object-Level Data Augmentation for Tumor Segmentation. Lecture Notes in Computer Science, 2021, , 579-588.	1.0	7
272	Synthetic Data for Deep Learning. Springer Optimization and Its Applications, 2021, , .	0.6	98
273	CMNN: Coupled Modular Neural Network. IEEE Access, 2021, 9, 93871-93891.	2.6	2

#	Article	IF	CITATIONS
274	Skeleton avatar technology as a way to measure physical activity in healthy older adults. Informatics in Medicine Unlocked, 2021, 24, 100609.	1.9	2
276	Artificial Data Generation with Language Models for Imbalanced Classification in Maintenance. Studies in Computational Intelligence, 2021, , 57-68.	0.7	1
277	Nondestructive Phenolic Compounds Measurement and Origin Discrimination of Peated Barley Malt Using Near-Infrared Hyperspectral Imagery and Machine Learning. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-15.	2.4	16
278	Remote Sensing Data Augmentation Through Adversarial Training. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 9318-9333.	2.3	21
279	Time Series Data Augmentation for Neural Networks by Time Warping with a Discriminative Teacher. , 2021, , .		29
280	CovFrameNet: An Enhanced Deep Learning Framework for COVID-19 Detection. IEEE Access, 2021, 9, 77905-77919.	2.6	36
281	A survey on generative adversarial networks for imbalance problems in computer vision tasks. Journal of Big Data, 2021, 8, 27.	6.9	105
282	Regularization of Deep Neural Network With Batch Contrastive Loss. IEEE Access, 2021, 9, 124409-124418.	2.6	8
283	Mechanistically Informed Machine Learning and Artificial Intelligence in Fire Engineering and Sciences. Fire Technology, 2021, 57, 2741-2784.	1.5	57
284	Deep Learning and Its Application to Function Approximation for MR in Medicine: An Overview. Magnetic Resonance in Medical Sciences, 2022, 21, 553-568.	1.1	2
285	Accuracy improvement for Fully Convolutional Networks via selective augmentation with applications to electrocardiogram data. Informatics in Medicine Unlocked, 2021, 26, 100729.	1.9	5
286	Recent Advances in Variational Autoencoders With Representation Learning for Biomedical Informatics: A Survey. IEEE Access, 2021, 9, 4939-4956.	2.6	35
287	Identification of Fruit Tree Pests With Deep Learning on Embedded Drone to Achieve Accurate Pesticide Spraying. IEEE Access, 2021, 9, 21986-21997.	2.6	81
288	Intrapersonal Parameter Optimization for Offline Handwritten Signature Augmentation. IEEE Transactions on Information Forensics and Security, 2021, 16, 1335-1350.	4.5	16
289	Image Synthesisation and Data Augmentation for Safe Object Detection in Aircraft Auto-landing System. , 2021, , .		1
290	Augmented semantic segmentation for the digitization of grinding tools based on deep learning. CIRP Annals - Manufacturing Technology, 2021, 70, 297-300.	1.7	8
291	A Neural Network Estimation of Ankle Torques From Electromyography and Accelerometry. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2021, 29, 1624-1633.	2.7	12
292	Data Augmentation for Text Generation Without Any Augmented Data. , 2021, , .		0

#	ARTICLE	IF	CITATIONS
293	Glaucoma Detection Using Inception Convolutional Neural Network V3. Communications in Computer and Information Science, 2021, , 17-28.	0.4	10
294	Deep Learning for LiDAR-Based Autonomous Vehicles in Smart Cities. , 2021, , 957-980.		O
296	Automatic Deep Neural Network Hyper-Parameter Optimization for Maize Disease Detection. IOP Conference Series: Materials Science and Engineering, 2021, 1022, 012089.	0.3	3
298	Quality-Aware Semi-supervised Learning for CMR Segmentation. Lecture Notes in Computer Science, 2021, 2020, 97-107.	1.0	6
299	Deep Learning for LiDAR-Based Autonomous Vehicles in Smart Cities. , 2021, , 1-24.		1
300	Octave Mix: Data Augmentation Using Frequency Decomposition for Activity Recognition. IEEE Access, 2021, 9, 53679-53686.	2.6	2
301	Randomized Transferable Machine. , 2021, , .		0
303	Automatic MEP Component Detection with Deep Learning. Lecture Notes in Computer Science, 2021, , 373-388.	1.0	4
304	ICU Survival Prediction Incorporating Test-Time Augmentation to Improve the Accuracy of Ensemble-Based Models. IEEE Access, 2021, 9, 91584-91592.	2.6	18
305	A Deep Reinforcement Learning-Based Framework for PolSAR Imagery Classification. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-15.	2.7	9
306	Hybrid-Learning-Based Operational Visual Quality Inspection for Edge-Computing-Enabled IoT System. IEEE Internet of Things Journal, 2022, 9, 4958-4972.	5.5	7
307	Facial Expression Recognition: A Review of Trends and Techniques. IEEE Access, 2021, 9, 136944-136973.	2.6	18
308	Pattern recognition in distributed fiber-optic acoustic sensor using an intensity and phase stacked convolutional neural network with data augmentation. Optics Express, 2021, 29, 3269.	1.7	40
309	Deep CNN Based Automatic Detection and Identification of Bengal Tigers. Communications in Computer and Information Science, 2021, , 189-198.	0.4	2
310	Mapping Seasonal Agricultural Land Use Types Using Deep Learning on Sentinel-2 Image Time Series. Remote Sensing, 2021, 13, 289.	1.8	28
311	Comparison of two convolutional neural network models for automated classification of brain cancer types. AIP Conference Proceedings, 2021, , .	0.3	6
312	BSUV-Net 2.0: Spatio-Temporal Data Augmentations for Video-Agnostic Supervised Background Subtraction. IEEE Access, 2021, 9, 53849-53860.	2.6	57
313	A deep learning based framework for the registration of three dimensional multi-modal medical images of the head. Scientific Reports, 2021, 11, 1860.	1.6	19

#	Article	IF	CITATIONS
314	Robust Human Face Authentication Leveraging Acoustic Sensing on Smartphones. IEEE Transactions on Mobile Computing, 2022, 21, 3009-3023.	3.9	5
315	Improved accuracy of pest detection using augmentation approach with Faster R-CNN. IOP Conference Series: Materials Science and Engineering, 2021, 1042, 012020.	0.3	9
316	Discriminating cognitive motor dissociation from disorders of consciousness using structural MRI. NeuroImage: Clinical, 2021, 30, 102651.	1.4	6
317	An Invariance-guided Stability Criterion for Time Series Clustering Validation. , 2021, , .		1
318	Super Resolution Reconstruction Algorithm of UAV Image Based on Residual Neural Network. IEEE Access, 2021, 9, 140372-140382.	2.6	1
319	Novel Robust Augmentation Approach Based on Sensing Features for Data Classification. IEEE Access, 2021, 9, 127559-127564.	2.6	1
320	Toward Text Data Augmentation for Sentiment Analysis. IEEE Transactions on Artificial Intelligence, 2022, 3, 657-668.	3.4	14
321	On-Site Colonoscopy Autodiagnosis Using Smart Internet of Medical Things. IEEE Internet of Things Journal, 2022, 9, 8657-8668.	5.5	3
322	Automatic Detection and Segmentation of Barchan Dunes on Mars and Earth Using a Convolutional Neural Network. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 9364-9371.	2.3	13
323	Detection-Based Object Tracking Applied to Remote Ship Inspection. Sensors, 2021, 21, 761.	2.1	13
324	MoRe: A Large-Scale Motorcycle Re-Identification Dataset. , 2021, , .		3
325	Automatic Object Removal With Obstructed Façades Completion Using Semantic Segmentation and Generative Adversarial Inpainting. IEEE Access, 2021, 9, 117486-117495.	2.6	16
326	Fruit Ripeness Prediction Based on DNN Feature Induction from Sparse Dataset. Computers, Materials and Continua, 2021, 69, 4003-4024.	1.5	5
327	CNN Based Analysis of the Luria's Alternating Series Test for Parkinson's Disease Diagnostics. Communications in Computer and Information Science, 2021, , 3-13.	0.4	3
329	Impact of Deep Learning on Arts andÂArchaeology: An Image Classification Point of View. Algorithms for Intelligent Systems, 2021, , 801-810.	0.5	1
330	Bridging a Gap in SAR-ATR: Training on Fully Synthetic and Testing on Measured Data. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 2942-2955.	2.3	39
331	YOLOv4 for Urban Object Detection: Case of Electronic Inventory in St. Petersburg., 2021,,.		5
332	Breast Cancer Detection from Histopathological Biopsy Images Using Transfer Learning. , 2021, , .		5

#	Article	IF	CITATIONS
333	Analysis and best parameters selection for person recognition based on gait model using CNN algorithm and image augmentation. Journal of Big Data, 2021, 8, 1.	6.9	297
334	A Cloud Approach for Melanoma Detection Based on Deep Learning Networks. IEEE Journal of Biomedical and Health Informatics, 2022, 26, 962-972.	3.9	12
335	Advanced Meta-Heuristics, Convolutional Neural Networks, and Feature Selectors for Efficient COVID-19 X-Ray Chest Image Classification. IEEE Access, 2021, 9, 36019-36037.	2.6	88
336	Driver Eye Location and State Estimation Based on a Robust Model and Data Augmentation. IEEE Access, 2021, 9, 67219-67231.	2.6	6
337	Ensemble Learning Approach to Retinal Thickness Assessment in Optical Coherence Tomography. IEEE Access, 2021, 9, 67349-67363.	2.6	13
338	Audio-Visual Deep Neural Network for Robust Person Verification. IEEE/ACM Transactions on Audio Speech and Language Processing, 2021, 29, 1079-1092.	4.0	31
339	Deep Learning in Smart Applications: Approaches and Challenges. EAI/Springer Innovations in Communication and Computing, 2021, , 49-73.	0.9	0
340	CondenseNeXt: An Ultra-Efficient Deep Neural Network for Embedded Systems. , 2021, , .		6
341	Baseline Model Training in Sensor-Based Human Activity Recognition: An Incremental Learning Approach. IEEE Access, 2021, 9, 70261-70272.	2.6	5
342	Convolutional Neural Network-Based Approach for Potholes Detection on Indian Roads. Advances in Intelligent Systems and Computing, 2021, , 231-244.	0.5	1
343	EfficientDet for fabric defect detection based on edge computing. Journal of Engineered Fibers and Fabrics, 2021, 16, 155892502110083.	0.5	17
344	Semantic Segmentation Based on Temporal Features: Learning of Temporal–Spatial Information From Time-Series SAR Images for Paddy Rice Mapping. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-16.	2.7	11
345	Design of Piezoelectric MEMS Accelerometer Module and its Application in Surface Roughness Prediction of Fused Silica Substrate. IEEE Sensors Journal, 2021, 21, 21979-21988.	2.4	8
346	End-To-End Computerized Diagnosis of Spondylolisthesis Using Only Lumbar X-rays. Journal of Digital Imaging, 2021, 34, 85-95.	1.6	9
347	Implementation of CNN based COVID-19 classification model from CT images. , 2021, , .		5
348	Plane-Wave Image Reconstruction via Generative Adversarial Network and Attention Mechanism. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-15.	2.4	13
349	Improving Model Accuracy for Imbalanced Image Classification Tasks by Adding a Final Batch Normalization Layer: An Empirical Study. , 2021, , .		3
350	Point Adversarial Self-Mining: A Simple Method for Facial Expression Recognition. IEEE Transactions on Cybernetics, 2022, 52, 12649-12660.	6.2	16

#	Article	IF	CITATIONS
351	Data Augmentation for Sentiment Analysis Using Sentence Compression-Based SeqGAN With Data Screening. IEEE Access, 2021, 9, 99922-99931.	2.6	15
352	An artificial intelligence-based algorithm for predicting pregnancy success using static images captured by optical light microscopy during intracytoplasmic sperm injection. Journal of Human Reproductive Sciences, 2021, 14, 288.	0.4	2
353	A survey on dataâ€efficient algorithms in big data era. Journal of Big Data, 2021, 8, .	6.9	109
354	Real-Time Sea Cucumber Detection Based on YOLOv4-Tiny and Transfer Learning Using Data Augmentation. Lecture Notes in Computer Science, 2021, , 119-128.	1.0	4
355	On Physical-Layer Authentication via Online Transfer Learning. IEEE Internet of Things Journal, 2022, 9, 1374-1385.	5. 5	14
356	GAN-Based Synthetic FDG PET Images from T1 Brain MRI Can Serve to Improve Performance of Deep Unsupervised Anomaly Detection Models. Lecture Notes in Computer Science, 2021, , 142-152.	1.0	2
357	Are We Hungry for 3D LiDAR Data for Semantic Segmentation? A Survey of Datasets and Methods. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 6063-6081.	4.7	35
358	Deep Learning applications for COVID-19. Journal of Big Data, 2021, 8, 18.	6.9	195
359	SCSS-Net: solar corona structures segmentation by deep learning. Monthly Notices of the Royal Astronomical Society, 2021, 508, 3111-3124.	1.6	5
360	Statistical Histogram Decision Based Contrast Categorization of Skin Lesion Datasets Dermoscopic Images. Computers, Materials and Continua, 2021, 67, 2337-2352.	1.5	9
361	Data Augmentation with Variational Autoencoders and Manifold Sampling. Lecture Notes in Computer Science, 2021, , 184-192.	1.0	5
362	Insulator Breakage Detection Utilizing a Convolutional Neural Network Ensemble Implemented With Small Sample Data Augmentation and Transfer Learning. IEEE Transactions on Power Delivery, 2022, 37, 2787-2796.	2.9	16
363	Pragmatic Augmentation Algorithms for Deep Learning-Based Cloud and Cloud Shadow Detection in Remote Sensing Imagery. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	1.4	1
364	PMED-Net: Pyramid Based Multi-Scale Encoder-Decoder Network for Medical Image Segmentation. IEEE Access, 2021, 9, 55988-55998.	2.6	16
365	Research on Spider Sex Recognition From Images Based on Deep Learning. IEEE Access, 2021, 9, 120985-120995.	2.6	3
366	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
367	Multispectral Object Detection with Deep Learning. Communications in Computer and Information Science, 2021, , 105-117.	0.4	7
368	Wireless Capsule Endoscopy Bleeding Images Classification Using CNN Based Model. IEEE Access, 2021, 9, 33675-33688.	2.6	55

#	Article	IF	CITATIONS
370	Using Generative Adversarial Networks and Parameter Optimization of Convolutional Neural Networks for Lung Tumor Classification. Applied Sciences (Switzerland), 2021, 11, 480.	1.3	14
371	Augmented Multidimensional Convolutional Neural Network for Industrial Soft Sensing. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-10.	2.4	33
372	Classification of UrbanSound8k: A Study Using Convolutional Neural Network and Multiple Data Augmentation Techniques. Communications in Computer and Information Science, 2021, , 52-64.	0.4	1
373	Seismic Dip Estimation With a Domain Knowledge Constrained Transfer Learning Approach. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-16.	2.7	13
374	A Novel Approach for Increased Convolutional Neural Network Performance in Gastric-Cancer Classification Using Endoscopic Images. IEEE Access, 2021, 9, 51847-51854.	2.6	11
375	Cost-Sensitive Awareness-Based SAR Automatic Target Recognition for Imbalanced Data. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-16.	2.7	4
376	BlendTorch: A Real-Time, Adaptive Domain Randomization Library. Lecture Notes in Computer Science, 2021, , 538-551.	1.0	7
377	Detection of Malfunctioning Photovoltaic Modules Based on Machine Learning Algorithms. IEEE Access, 2021, 9, 37210-37219.	2.6	30
378	Machine Learning for Supplementing Behavioral Assessment. Perspectives on Behavior Science, 2021, 44, 605-619.	1.1	4
379	Parallel/Distributed Generative Adversarial Neural Networks for Data Augmentation of COVID-19 Training Images. Communications in Computer and Information Science, 2021, , 162-177.	0.4	12
380	A Close Look at Deep Learning with Small Data. , 2021, , .		42
381	COVINet: a convolutional neural network approach for predicting COVID-19 from chest X-ray images. Journal of Ambient Intelligence and Humanized Computing, 2022, 13, 535-547.	3.3	67
382	Well Control Space Out: A Deep-Learning Approach for the Optimization of Drilling Safety Operations. IEEE Access, 2021, 9, 76479-76492.	2.6	9
383	uTHCD: A New Benchmarking for Tamil Handwritten OCR. IEEE Access, 2021, 9, 101469-101493.	2.6	13
384	Stroke Risk Prediction With Hybrid Deep Transfer Learning Framework. IEEE Journal of Biomedical and Health Informatics, 2022, 26, 411-422.	3.9	15
385	Vehicle Detection From UAV Imagery With Deep Learning: A Review. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 6047-6067.	7.2	44
386	COVID-19 identification from volumetric chest CT scans using a progressively resized 3D-CNN incorporating segmentation, augmentation, and class-rebalancing. Informatics in Medicine Unlocked, 2021, 26, 100709.	1.9	12
387	Generating Physically Sound Training Data for Image Recognition of Additively Manufactured Parts., 2021,,.		2

#	Article	IF	CITATIONS
388	Deep learning based one-shot optically-sectioned structured illumination microscopy for surface measurement. Optics Express, 2021, 29, 4010.	1.7	24
389	Building a Two-Dimensional Two-Layers Linear Site Response Solver with Machine Learning Model. Journal of Japan Association for Earthquake Engineering, 2021, 21, 4_1-4_20.	0.0	0
390	Cooperative Training and Latent Space Data Augmentation for Robust Medical Image Segmentation. Lecture Notes in Computer Science, 2021, , 149-159.	1.0	12
391	Recent use of deep learning techniques in clinical applications based on gait: a survey. Journal of Computational Design and Engineering, 2021, 8, 1499-1532.	1.5	14
392	Designing deep learning studies in cancer diagnostics. Nature Reviews Cancer, 2021, 21, 199-211.	12.8	175
393	PST-NET: Point Cloud Sampling via Point-Based Transformer. Lecture Notes in Computer Science, 2021, , 57-69.	1.0	7
394	Deep Learning for 3-D Inversion of Gravity Data. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-18.	2.7	8
395	A Convolution Residual Network for Heating-Invariant Defect Segmentation in Composite Materials Inspected by Lock-in Thermography. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-14.	2.4	8
396	Geometric Surface Image Prediction forÂlmage Recognition Enhancement. Lecture Notes in Computer Science, 2021, , 259-268.	1.0	0
397	CAGEN - Context-Action Generation for Testing Self-learning Functions. Advances in Intelligent Systems and Computing, 2021, , 12-19.	0.5	2
398	Classification of Fruit Ripeness Grades using a Convolutional Neural Network and Data Augmentation., 2021,,.		11
399	Comparison of Combinations of Data Augmentation Methods and Transfer Learning Strategies in Image Classification Used in Convolution Deep Neural Networks., 2021,,.		4
400	A deep learning-based model for screening and staging pneumoconiosis. Scientific Reports, 2021, 11, 2201.	1.6	24
401	Detection and Correspondence Matching of Corneal Reflections for Eye Tracking Using Deep Learning. , 2021, , .		4
402	BDANet: Multiscale Convolutional Neural Network With Cross-Directional Attention for Building Damage Assessment From Satellite Images. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-14.	2.7	25
403	Deep Residual Network in Network. Computational Intelligence and Neuroscience, 2021, 2021, 1-9.	1.1	17
405	Practices and Applications of Convolutional Neural Network-Based Computer Vision Systems in Animal Farming: A Review. Sensors, 2021, 21, 1492.	2.1	64
406	Effectiveness of using computer aided detection based on convolutional neural network for screening microcalcification On USG Mammae. Journal of Physics: Conference Series, 2021, 1816, 012097.	0.3	0

#	Article	IF	CITATIONS
407	Transfer Learning with Convolutional Neural Networks for Rainfall Detection in Single Images. Water (Switzerland), 2021, 13, 588.	1.2	13
408	Application of Deep Convolutional Neural Networks and IR Spectroscopy for the Detection of Drugs and Toxins. International Journal of Engineering and Advanced Technology, 2021, 10, 123-128.	0.2	O
409	Steel bridge corrosion inspection with combined vision and thermographic images. Structural Health Monitoring, 2021, 20, 3424-3435.	4.3	15
410	Novel Dataset Generation for Indian Brinjal Plant Using Image Data Augmentation. IOP Conference Series: Materials Science and Engineering, 2021, 1065, 012041.	0.3	3
411	Data augmentation using a variational autoencoder for estimating property prices. Property Management, 2021, 39, 408-418.	0.4	1
412	Training deepâ€learning segmentation models from severely limited data. Medical Physics, 2021, 48, 1697-1706.	1.6	10
415	Automatic Detection and Classification of Steel Surface Defect Using Deep Convolutional Neural Networks. Metals, 2021, 11, 388.	1.0	76
417	An aggregate method for thorax diseases classification. Scientific Reports, 2021, 11, 3242.	1.6	4
418	MR Images, Brain Lesions, and Deep Learning. Applied Sciences (Switzerland), 2021, 11, 1675.	1.3	14
419	A minimal model for classification of rotated objects with prediction of the angle of rotation. Journal of Visual Communication and Image Representation, 2021, 75, 103054.	1.7	2
420	Deep neural networks for active wave breaking classification. Scientific Reports, 2021, 11, 3604.	1.6	14
421	A survey on deep learning in medicine: Why, how and when?. Information Fusion, 2021, 66, 111-137.	11.7	188
422	Köpeklerdeki Uzun Kemiklerin Evrişimsel Sinir Ağları Kullanılarak Sınıflandırılması. Fırat Üni Mühendislik Bilimleri Dergisi, 2021, 33, 125-132.	versitesi 0.2	2
423	4D Building Reconstruction with Machine Learning and Historical Maps. Applied Sciences (Switzerland), 2021, 11, 1445.	1.3	13
424	Synthetic image data augmentation for fibre layup inspection processes: Techniques to enhance the data set. Journal of Intelligent Manufacturing, 2021, 32, 1767-1789.	4.4	31
425	Image-Based Surface Defect Detection Using Deep Learning: A Review. Journal of Computing and Information Science in Engineering, 2021, 21, .	1.7	95
426	Combined Spiral Transformation and Model-Driven Multi-Modal Deep Learning Scheme for Automatic Prediction of TP53 Mutation in Pancreatic Cancer. IEEE Transactions on Medical Imaging, 2021, 40, 735-747.	5.4	26
427	Estimation of kinematics from inertial measurement units using a combined deep learning and optimization framework. Journal of Biomechanics, 2021, 116, 110229.	0.9	42

#	Article	IF	CITATIONS
428	Lung cancer classification with Convolutional Neural Network Architectures. Qubahan Academic Journal, $2021,1,33-39$.	2.6	5
429	COVID-19: a new deep learning computer-aided model for classification. PeerJ Computer Science, 2021, 7, e358.	2.7	33
430	Evaluation of the Use of Single- and Multi-Magnification Convolutional Neural Networks for the Determination and Quantitation of Lesions in Nonclinical Pathology Studies. Toxicologic Pathology, 2021, 49, 815-842.	0.9	10
431	Combined Detection and Segmentation of Archeological Structures from LiDAR Data Using a Deep Learning Approach. Journal of Computer Applications in Archaeology, 2021, 4, 1.	0.8	19
432	Transfer Learning in Breast Cancer Diagnoses via Ultrasound Imaging. Cancers, 2021, 13, 738.	1.7	79
433	Interpretation and visualization techniques for deep learning models in medical imaging. Physics in Medicine and Biology, 2021, 66, 04TR01.	1.6	59
434	Artificial intelligence in cancer research: learning at different levels of data granularity. Molecular Oncology, 2021, 15, 817-829.	2.1	15
435	Robust unsupervised small area change detection from SAR imagery using deep learning. ISPRS Journal of Photogrammetry and Remote Sensing, 2021, 173, 79-94.	4.9	41
436	Automatic Detection of Rotor Faults in Induction Motors by Convolutional Neural Networks applied to Stray Flux Signals. , 2021, , .		7
437	EvoSplit: An Evolutionary Approach to Split a Multi-Label Data Set into Disjoint Subsets. Applied Sciences (Switzerland), 2021, 11, 2823.	1.3	3
438	Evolving a Multi-Classifier System for Multi-Pitch Estimation of Piano Music and Beyond: An Application of Cartesian Genetic Programming. Applied Sciences (Switzerland), 2021, 11, 2902.	1.3	4
439	Small sample parts recognition and localization from unfocused images in precision assembly systems using relative entropy. Precision Engineering, 2021, 68, 206-217.	1.8	1
440	Generative adversarial networks for data augmentation and transfer in credit card fraud detection. Journal of the Operational Research Society, 0, , 1-28.	2.1	5
441	Automatic detection of seafloor marine litter using towed camera images and deep learning. Marine Pollution Bulletin, 2021, 164, 111974.	2.3	38
442	Lesion-Based Bone Metastasis Detection in Chest Bone Scintigraphy Images of Prostate Cancer Patients Using Pre-Train, Negative Mining, and Deep Learning. Diagnostics, 2021, 11, 518.	1.3	27
443	Wheat Head Detection using Deep, Semi-Supervised and Ensemble Learning. Canadian Journal of Remote Sensing, 2021, 47, 198-208.	1.1	19
444	Nanoporous Material Recognition via 3D Convolutional Neural Networks: Prediction of Adsorption Properties. Journal of Physical Chemistry Letters, 2021, 12, 2279-2285.	2,1	22
445	Data Augmentation Enhanced Speaker Enrollment for Text-dependent Speaker Verification. , 2021, , .		0

#	Article	IF	Citations
446	Association between different scale bars in dermoscopic images and diagnostic performance of a market-approved deep learning convolutional neural network for melanoma recognition. European Journal of Cancer, 2021, 145, 146-154.	1.3	18
447	A Deep Learning Model for Classification of Endoscopic Gastroesophageal Reflux Disease. International Journal of Environmental Research and Public Health, 2021, 18, 2428.	1.2	20
449	Deep-Feature-Based Autoencoder Network for Few-Shot Malicious Traffic Detection. Security and Communication Networks, 2021, 2021, 1-13.	1.0	16
450	Deep learning approaches for automated classification and segmentation of head and neck cancers and brain tumors in magnetic resonance images: a meta-analysis study. International Journal of Computer Assisted Radiology and Surgery, 2021, 16, 529-542.	1.7	14
451	Data Augmentation Using Generative Adversarial Network for Automatic Machine Fault Detection Based on Vibration Signals. Applied Sciences (Switzerland), 2021, 11, 2166.	1.3	7
452	Data preparation for artificial intelligence in medical imaging: A comprehensive guide to open-access platforms and tools. Physica Medica, 2021, 83, 25-37.	0.4	63
453	COVID-19 salivary Raman fingerprint: innovative approach for the detection of current and past SARS-CoV-2 infections. Scientific Reports, 2021, 11, 4943.	1.6	96
454	Deep learning in electron microscopy. Machine Learning: Science and Technology, 2021, 2, 011004.	2.4	50
455	The Effectiveness of Image Augmentation in Deep Learning Networks for Detecting COVID-19: A Geometric Transformation Perspective. Frontiers in Medicine, 2021, 8, 629134.	1.2	45
456	Various Generative Adversarial Networks Model for Synthetic Prohibitory Sign Image Generation. Applied Sciences (Switzerland), 2021, 11, 2913.	1.3	27
458	SlideAugment: A Simple Data Processing Method to Enhance Human Activity Recognition Accuracy Based on WiFi. Sensors, 2021, 21, 2181.	2.1	3
459	IMU Based Deep Stride Length Estimation With Self-Supervised Learning. IEEE Sensors Journal, 2021, 21, 7380-7387.	2.4	9
460	Deep Neural Networks and Transfer Learning on a Multivariate Physiological Signal Dataset. Bioengineering, 2021, 8, 35.	1.6	16
461	Annotated Video Footage for Automated Identification and Counting of Fish in Unconstrained Seagrass Habitats. Frontiers in Marine Science, 2021, 8, .	1.2	21
462	A Deep Learning Approach to Diagnostic Classification of Prostate Cancer Using Pathology–Radiology Fusion. Journal of Magnetic Resonance Imaging, 2021, 54, 462-471.	1.9	41
463	A Comparative Study of Deep Transfer Learning Techniques for Cultural (Aeta) Dance Classification utilizing Skeleton-Based Choreographic Motion Capture Data. , 2021, , .		4
465	Al applications to medical images: From machine learning to deep learning. Physica Medica, 2021, 83, 9-24.	0.4	253
466	Review on Convolutional Neural Networks (CNN) in vegetation remote sensing. ISPRS Journal of Photogrammetry and Remote Sensing, 2021, 173, 24-49.	4.9	653

#	Article	IF	Citations
468	Target Classification Using Spiking Neural Networks for SAR Images., 2021, , .		1
469	Analysis of Potential for User Errors in Mobile Deployment of Radiology Deep Learning for Cardiac Rhythm Device Detection. Journal of Digital Imaging, 2021, 34, 572-580.	1.6	2
470	Explainable AI for domain experts: a post Hoc analysis of deep learning for defect classification of TFT–LCD panels. Journal of Intelligent Manufacturing, 2022, 33, 1747-1759.	4.4	15
471	Convolutional neural network model based on radiological images to support COVID-19 diagnosis: Evaluating database biases. PLoS ONE, 2021, 16, e0247839.	1.1	22
472	Towards practical 2D grapevine bud detection with fully convolutional networks. Computers and Electronics in Agriculture, 2021, 182, 105947.	3.7	6
473	Aliasing layers for processing parallel imaging and EPI ghost artifacts efficiently in convolutional neural networks. Magnetic Resonance in Medicine, 2021, 86, 820-834.	1.9	4
474	PSSPNN: PatchShuffle Stochastic Pooling Neural Network for an Explainable Diagnosis of COVID-19 with Multiple-Way Data Augmentation. Computational and Mathematical Methods in Medicine, 2021, 2021, 1-18.	0.7	44
475	Artificial intelligence: Deep learning in oncological radiomics and challenges of interpretability and data harmonization. Physica Medica, 2021, 83, 108-121.	0.4	85
476	Review of deep learning: concepts, CNN architectures, challenges, applications, future directions. Journal of Big Data, 2021, 8, 53.	6.9	2,200
477	Deep-learning source localization using autocorrelation functions from a single hydrophone in deep ocean. JASA Express Letters, 2021, 1, .	0.5	15
478	Extracting Biomedical Entity Relations using Biological Interaction Knowledge. Interdisciplinary Sciences, Computational Life Sciences, 2021, 13, 312-320.	2.2	5
479	Application of a Simple, Spiking, Locally Competitive Algorithm to Radionuclide Identification. IEEE Transactions on Nuclear Science, 2021, 68, 292-304.	1.2	2
480	Can You Fake It Until You Make It?., 2021,,.		15
481	Convolutional Neural Network for Diabetic Retinopathy Detection. , 2021, , .		14
482	High-resolution global map of smallholder and industrial closed-canopy oil palm plantations. Earth System Science Data, 2021, 13, 1211-1231.	3.7	71
483	Long shortâ€ŧerm memory networks for proton dose calculation in highly heterogeneous tissues. Medical Physics, 2021, 48, 1893-1908.	1.6	10
484	Artificial intelligence in OCT angiography. Progress in Retinal and Eye Research, 2021, 85, 100965.	7.3	54
485	Transfer learning–based ensemble support vector machine model for automated COVID-19 detection using lung computerized tomography scan data. Medical and Biological Engineering and Computing, 2021, 59, 825-839.	1.6	66

#	Article	IF	CITATIONS
488	An Interpretable DL-Based Method for Diagnosis of H. Pylori Infection Using Gastric X-Ray Images. , 2021, , .		1
489	Gait recognition using a few gait frames. PeerJ Computer Science, 2021, 7, e382.	2.7	2
490	InstantDL: an easy-to-use deep learning pipeline for image segmentation and classification. BMC Bioinformatics, 2021, 22, 103.	1.2	10
491	A Data Augmentation-Based Evaluation System for Regional Direct Economic Losses of Storm Surge Disasters. International Journal of Environmental Research and Public Health, 2021, 18, 2918.	1.2	7
492	Plant disease detection based on lightweight CNN model. , 2021, , .		3
493	Artificial intelligence and machine learning for medical imaging: A technology review. Physica Medica, 2021, 83, 242-256.	0.4	135
494	Deep Transfer Learning for Signal Detection in Ambient Backscatter Communications. IEEE Transactions on Wireless Communications, 2021, 20, 1624-1638.	6.1	76
495	SoMin.ai., 2021,,.		6
496	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
498	An Enhanced Histopathology Analysis: An Al-Based System for Multiclass Grading of Oral Squamous Cell Carcinoma and Segmenting of Epithelial and Stromal Tissue. Cancers, 2021, 13, 1784.	1.7	32
499	"Deep Learning based diagnosis of sickle cell anemia in human RBC― , 2021, , .		4
500	Intelligent Agricultural Machinery Using Deep Learning. IEEE Instrumentation and Measurement Magazine, 2021, 24, 93-100.	1.2	6
501	Uncertainty-Based Adaptive Data Augmentation For Ultrasound Imaging Anatomical Variations. , 2021, , .		2
502	Deep learning-based model for breast cancer histopathology image classification., 2021,,.		3
503	Data augmentation for the classification of North Atlantic right whales upcalls. Journal of the Acoustical Society of America, 2021, 149, 2520-2530.	0.5	14
504	A Practical Method for High-Resolution Burned Area Monitoring Using Sentinel-2 and VIIRS. Remote Sensing, 2021, 13, 1608.	1.8	14
505	Automatic image annotation for fluorescent cell nuclei segmentation. PLoS ONE, 2021, 16, e0250093.	1.1	13
506	Filtered BERT: Similarity Filter-Based Augmentation with Bidirectional Transfer Learning for Protected Health Information Prediction in Clinical Documents. Applied Sciences (Switzerland), 2021, 11, 3668.	1.3	7

#	ARTICLE	IF	Citations
508	Automatic and accurate abnormality detection from brain MR images using a novel hybrid UnetResNext-50 deep CNN model. Biomedical Signal Processing and Control, 2021, 66, 102477.	3.5	21
509	Anatomical landmark localization via convolutional neural networks for limb-length discrepancy measurements. Pediatric Radiology, 2021, 51, 1431-1447.	1.1	8
510	Semantic segmentation sample augmentation based on simulated scene generationâ€"case study on dock extraction from high spatial resolution imagery. International Journal of Remote Sensing, 2021, 42, 4961-4984.	1.3	3
511	The Additive Input-Doubling Method Based on the SVR with Nonlinear Kernels: Small Data Approach. Symmetry, 2021, 13, 612.	1.1	35
512	Low data regimes in extreme climates: Foliage penetration personnel detection using a wireless network-based device-free sensing approach. Ad Hoc Networks, 2021, 114, 102438.	3 . 4	7
513	Deep Learning Techniques for Fatty Liver Using Multi-View Ultrasound Images Scanned by Different Scanners: Development and Validation Study. JMIR Medical Informatics, 2021, 9, e30066.	1.3	7
514	Instance Segmentation Based on Deep Convolutional Neural Networks and Transfer Learning for Unconstrained Psoriasis Skin Images. Applied Sciences (Switzerland), 2021, 11, 3155.	1.3	6
515	Adaptive Fingerprinting., 2021,,.		17
516	Deep learning for x-ray or neutron scattering under grazing-incidence: extraction of distributions. Materials Research Express, 2021, 8, 045015.	0.8	5
517	Deep CNN models for predicting COVID-19 in CT and x-ray images. Journal of Medical Imaging, 2021, 8, 014502.	0.8	32
518	Deep Convolutional Neural Network–Based Computer-Aided Detection System for COVID-19 Using Multiple Lung Scans: Design and Implementation Study. Journal of Medical Internet Research, 2021, 23, e27468.	2.1	58
519	COVID-19 Identification in CLAHE Enhanced CT Scans with Class Imbalance using Ensembled ResNets., 2021,,.		7
520	A grapevine leaves dataset for early detection and classification of esca disease in vineyards through machine learning. Data in Brief, 2021, 35, 106809.	0.5	21
521	Federated Learning Meets Human Emotions: A Decentralized Framework for Human–Computer Interaction for IoT Applications. IEEE Internet of Things Journal, 2021, 8, 6949-6962.	5 . 5	47
522	DeepShadows: Separating low surface brightness galaxies from artifacts using deep learning. Astronomy and Computing, 2021, 35, 100469.	0.8	17
523	Labeling lateral prefrontal sulci using spherical data augmentation and context-aware training. Neurolmage, 2021, 229, 117758.	2.1	19
524	Exploiting ultrasound tongue imaging for the automatic detection of speech articulation errors. Speech Communication, 2021, 128, 24-34.	1.6	6
525	Co-Training for Visual Object Recognition Based on Self-Supervised Models Using a Cross-Entropy Regularization. Entropy, 2021, 23, 423.	1.1	5

#	Article	IF	CITATIONS
526	Character Recognition of Components Mounted on Printed Circuit Board Using Deep Learning. Sensors, 2021, 21, 2921.	2.1	16
527	Multimodal News Feed Evaluation System with Deep Reinforcement Learning Approaches. ACM Transactions on Asian and Low-Resource Language Information Processing, 2021, 20, 1-12.	1.3	2
528	Image Classification with CondenseNeXt for ARM-Based Computing Platforms. , 2021, , .		1
529	Forest Fire Detection Using Combined Architecture of Separable Convolution and Image Processing. , 2021, , .		5
530	Vec2UAge: Enhancing underage age estimation performance through facial embeddings. Forensic Science International: Digital Investigation, 2021, 36, 301119.	1.2	0
531	Prediction of Crime in Neighbourhoods of New York City using Spatial Data Analysis. , 2021, , .		7
532	Deep CNN and Deep GAN in Computational Visual Perception-Driven Image Analysis. Complexity, 2021, 2021, 1-30.	0.9	36
533	Current and emerging artificial intelligence applications for pediatric abdominal imaging. Pediatric Radiology, 2021, , 1.	1.1	7
534	A novel multiple instance learning framework for COVID-19 severity assessment via data augmentation and self-supervised learning. Medical Image Analysis, 2021, 69, 101978.	7.0	40
535	Open-source deep-learning software for bioimage segmentation. Molecular Biology of the Cell, 2021, 32, 823-829.	0.9	50
536	Semantic segmentation of human oocyte images using deep neural networks. BioMedical Engineering OnLine, 2021, 20, 40.	1.3	16
537	Fast and accurate robotic optical detection of exfoliated graphene and hexagonal boron nitride by deep neural networks. 2D Materials, 2021, 8, 035017.	2.0	7
538	Domain adversarial networks and intensity-based data augmentation for male pelvic organ segmentation in cone beam CT. Computers in Biology and Medicine, 2021, 131, 104269.	3.9	27
539	A UAV Open Dataset of Rice Paddies for Deep Learning Practice. Remote Sensing, 2021, 13, 1358.	1.8	20
540	Improving protein domain classification for third-generation sequencing reads using deep learning. BMC Genomics, 2021, 22, 251.	1.2	5
541	A 3D image segmentation for lung cancer using V.Net architecture based deep convolutional networks. Journal of Medical Engineering and Technology, 2021, 45, 337-343.	0.8	8
542	Boosting Breast Cancer Detection Using Convolutional Neural Network. Journal of Healthcare Engineering, 2021, 2021, 1-11.	1.1	87
543	Multi-Lane Capsule Network Architecture for Detection of COVID-19., 2021, , .		3

#	Article	IF	CITATIONS
544	Deep Learning Prediction of Metastasis in Locally Advanced Colon Cancer Using Binary Histologic Tumor Images. Cancers, 2021, 13, 2074.	1.7	9
545	Diagnosis of Leukaemia in Blood Slides Based on a Fine-Tuned and Highly Generalisable Deep Learning Model. Sensors, 2021, 21, 2989.	2.1	22
546	Time-Efficient Convolutional Neural Network-Assisted Brillouin Optical Frequency Domain Analysis. Sensors, 2021, 21, 2724.	2.1	10
547	Integrating Feedforward Design into a Generative Network to Synthesize Supplementary Training Data for Object Classification. , 2021, , .		1
548	Automatic Site-Specific Multiple Level Gum Disease Detection Based on Deep Neural Network., 2021,,.		5
549	COVID-19 in the Age of Artificial Intelligence: A Comprehensive Review. Interdisciplinary Sciences, Computational Life Sciences, 2021, 13, 153-175.	2.2	34
550	An Augmentation Strategy to Mimic Multi-Scanner Variability in MRI., 2021, , .		1
551	Three Dimensional Synthetic Non-Ellipsoidal Nuclei Volume Generation Using Bézier Curves. , 2021, , .		11
552	SeismoGen: Seismic Waveform Synthesis Using GAN With Application to Seismic Data Augmentation. Journal of Geophysical Research: Solid Earth, 2021, 126, e2020JB020077.	1.4	30
553	Detection of new coronavirus disease from chest x-ray images using pre-trained convolutional neural networks. Journal of the Faculty of Engineering and Architecture of Gazi University, 2021, 36, 2095-2108.	0.3	4
554	Review on Deep Neural Networks Applied to Low-Frequency NILM. Energies, 2021, 14, 2390.	1.6	62
555	Computer Vision, Machine Learning, and the Promise of Phenomics in Ecology and Evolutionary Biology. Frontiers in Ecology and Evolution, 2021, 9, .	1.1	55
556	Deep Learning Can Differentiate IDH-Mutant from IDH-Wild GBM. Journal of Personalized Medicine, 2021, 11, 290.	1.1	30
557	A Bisection Reinforcement Learning Approach to 3-D Indoor Localization. IEEE Internet of Things Journal, 2021, 8, 6519-6535.	5.5	17
558	Visual Diagnosis of the Varroa Destructor Parasitic Mite in Honeybees Using Object Detector Techniques. Sensors, 2021, 21, 2764.	2.1	26
559	Data augmentation and transfer learning to classify malware images in a deep learning context. Journal of Computer Virology and Hacking Techniques, 2021, 17, 279-297.	1.6	27
560	Person re-identification: Implicitly defining the receptive fields of deep learning classification frameworks. Pattern Recognition Letters, 2021, 145, 23-29.	2.6	4
561	Deep learning for white cabbage seedling prediction. Computers and Electronics in Agriculture, 2021, 184, 106059.	3.7	17

#	Article	IF	CITATIONS
562	Developing an Artificial Intelligence (A.I)â€based descriptor of facial appearance that fits with the assessments of makeup experts. Skin Research and Technology, 2021, 27, 1081-1091.	0.8	7
563	Mitigating Demographic Bias in Facial Datasets with Style-Based Multi-attribute Transfer. International Journal of Computer Vision, 2021, 129, 2288-2307.	10.9	25
564	Morphological classification of compact and extended radio galaxies using convolutional neural networks and data augmentation techniques. Monthly Notices of the Royal Astronomical Society, 2021, 505, 1464-1475.	1.6	13
565	Classification of Sunflower Foliar Diseases Using Convolutional Neural Network., 2021,,.		3
566	<scp>HRMAn</scp> 2.0: Nextâ€generation artificial intelligence–driven analysis for broad host–pathogen interactions. Cellular Microbiology, 2021, 23, e13349.	1.1	14
567	A Time Series Data Augmentation Method Based on Dynamic Time Warping. , 2021, , .		5
568	Construction of Apple Leaf Diseases Identification Networks Based on Xception Fused by SE Module. Applied Sciences (Switzerland), 2021, 11, 4614.	1.3	23
569	Fighting Together against the Pandemic: Learning Multiple Models on Tomography Images for COVID-19 Diagnosis. Al, 2021, 2, 261-273.	2.1	15
570	An Efficient CNN Model for COVID-19 Disease Detection Based on X-Ray Image Classification. Complexity, 2021, 2021, 1-12.	0.9	88
571	A new strategy to map landslides with a generalized convolutional neural network. Scientific Reports, 2021, 11, 9722.	1.6	51
572	Artificial Intelligence in Cornea, Refractive Surgery, and Cataract: Basic Principles, Clinical Applications, and Future Directions. Asia-Pacific Journal of Ophthalmology, 2021, 10, 268-281.	1.3	30
573	Considering breast density for the classification of benign and malignant mammograms. Biomedical Signal Processing and Control, 2021, 67, 102564.	3.5	15
574	Detection of Face Mask in Real-time using Convolutional Neural Networks and Open-CV., 2021,,.		4
575	Automated delineation of orbital abscess depicted on CT scan using deep learning. Medical Physics, 2021, 48, 3721-3729.	1.6	12
576	Arabic Handwritten Characters Recognition Using Convolutional Neural Network., 2021,,.		8
577	Deep learning smartphone application for realâ€time detection of defects in buildings. Structural Control and Health Monitoring, 2021, 28, e2751.	1.9	19
578	Random sampling neural network for quantum many-body problems. Physical Review B, 2021, 103, .	1.1	2
579	Spectra Recognition Model for O-type Stars Based on Data Augmentation. Frontiers in Astronomy and Space Sciences, 2021, 8, .	1.1	1

#	Article	IF	CITATIONS
580	Multiscale Image Segmentation using Cascade MultiResUNet Proposal Masking Convolutional Network. , $2021, \ldots$		0
581	Evaluating the Single-Shot MultiBox Detector and YOLO Deep Learning Models for the Detection of Tomatoes in a Greenhouse. Sensors, 2021, 21, 3569.	2.1	72
582	Augmentation on CNNs for Handwritten Digit Classification in a Small Training Sample Size Situation. Journal of Physics: Conference Series, 2021, 1922, 012007.	0.3	1
583	Quantification of Osteoclasts in Culture, Powered by Machine Learning. Frontiers in Cell and Developmental Biology, 2021, 9, 674710.	1.8	7
584	Pragmatic generative optimization of novel structural lattice metamaterials with machine learning. Materials and Design, 2021, 203, 109632.	3.3	53
585	Non-invasive technique for real-time myocardial infarction detection using faster R-CNN. Multimedia Tools and Applications, 2021, 80, 26939-26967.	2.6	8
586	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
587	Deep learning for diagnosis of precancerous lesions in upper gastrointestinal endoscopy: A review. World Journal of Gastroenterology, 2021, 27, 2531-2544.	1.4	13
588	A Deep Learning Using DenseNet201 to Detect Masked or Non-masked Face. Jurnal Informatika, 2021, 9, 115.	0.3	12
589	Recyclable Waste Classification Using Computer Vision And Deep Learning. , 2021, , .		13
591	A survey of deep learning techniques for weed detection from images. Computers and Electronics in Agriculture, 2021, 184, 106067.	3.7	202
592	End-to-end deep learning for recognition of ploidy status using time-lapse videos. Journal of Assisted Reproduction and Genetics, 2021, 38, 1655-1663.	1.2	17
593	Artificial Intelligence-Based Recognition of Different Types of Shoulder Implants in X-ray Scans Based on Dense Residual Ensemble-Network for Personalized Medicine. Journal of Personalized Medicine, 2021, 11, 482.	1.1	22
594	Enabling Edge-Cloud Video Analytics for Robotics Applications. , 2021, , .		20
595	SAR Oil Spill Detection System through Random Forest Classifiers. Remote Sensing, 2021, 13, 2044.	1.8	22
596	Rotational multipyramid network with boundingâ€box transformation for object detection. International Journal of Intelligent Systems, 2021, 36, 5307-5338.	3.3	11
597	Design of Deep Learning Architecture for Classification of Orchid Diseases. , 2021, , .		2
598	Deep Learning and Transfer Learning for Automatic Cell Counting in Microscope Images of Human Cancer Cell Lines. Applied Sciences (Switzerland), 2021, 11, 4912.	1.3	21

#	Article	IF	CITATIONS
599	Evaluation of Visible Infrared Imaging Radiometer Suite (VIIRS) neural network cloud detection against current operational cloud masks. Atmospheric Measurement Techniques, 2021, 14, 3371-3394.	1.2	6
600	CoMB-Deep: Composite Deep Learning-Based Pipeline for Classifying Childhood Medulloblastoma and Its Classes. Frontiers in Neuroinformatics, 2021, 15, 663592.	1.3	30
601	Taxonomy, state-of-the-art, challenges and applications of visual understanding: A review. Computer Science Review, 2021, 40, 100374.	10.2	13
602	DeepSweep: An Evaluation Framework for Mitigating DNN Backdoor Attacks using Data Augmentation. , 2021, , .		95
603	Robust Deep Neural Object Detection and Segmentation for Automotive Driving Scenario with Compressed Image Data. , 2021, , .		4
604	Ajalon: Simplifying the authoring of wearable cognitive assistants. Software - Practice and Experience, 2021, 51, 1773-1797.	2.5	2
605	A LUNG IMAGE CLASSIFICATION METHOD: A CLASSIFIER CONSTRUCTED BY COMBINING IMPROVED VGG16 AND GRADIENT BOOSTING DECISION TREE. Journal of Mechanics in Medicine and Biology, 2021, 21, 2150042.	0.3	1
606	Al-based Detection of Pest Infected Crop and Leaf. , 2021, , .		2
607	Automated Identification of Referable Retinal Pathology in Teleophthalmology Setting. Translational Vision Science and Technology, 2021, 10, 30.	1.1	4
608	Generative adversarial network for glioblastoma ensures morphologic variations and improves diagnostic model for isocitrate dehydrogenase mutant type. Scientific Reports, 2021, 11, 9912.	1.6	7
609	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
610	DeepEBV: a deep learning model to predict Epstein–Barr virus (EBV) integration sites. Bioinformatics, 2021, 37, 3405-3411.	1.8	6
611	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
612	A novel approach to generating high-resolution adversarial examples. Applied Intelligence, 2022, 52, 1289-1305.	3.3	7
613	Distribution-preserving data augmentation. PeerJ Computer Science, 2021, 7, e571.	2.7	2
614	Automatic defect detection for fabric printing using a deep convolutional neural network. International Journal of Fashion Design, Technology and Education, 2022, 15, 142-157.	0.9	8
615	M3GPSpectra: A novel approach integrating variable selection/construction and MLR modeling for quantitative spectral analysis. Analytica Chimica Acta, 2021, 1160, 338453.	2.6	8
616	Machine learning to determine the main factors affecting creep rates in laser powder bed fusion. Journal of Intelligent Manufacturing, 2021, 32, 2353-2373.	4.4	13

#	Article	IF	CITATIONS
617	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
618	Collective view: mapping <i>Sargassum</i> distribution along beaches. PeerJ Computer Science, 2021, 7, e528.	2.7	15
619	Cost-optimized hybrid convolutional neural networks for detection of plant leaf diseases. Journal of Ambient Intelligence and Humanized Computing, 2021, 12, 8625-8636.	3.3	16
620	UISketch: A Large-Scale Dataset of UI Element Sketches. , 2021, , .		6
621	Developments in data science solutions for carnivore tooth pit classification. Scientific Reports, 2021, 11, 10209.	1.6	30
622	Cognitive data augmentation for adversarial defense via pixel masking. Pattern Recognition Letters, 2021, 146, 244-251.	2.6	25
623	Research and Development of the Convolutional Neural Network for Pneumonia Recognition in Radiographs. , 2021, , .		0
624	A machine learning algorithm for retrieving the geometrical characteristic parameters of soot fractal aggregates from polarized light signal. Optik, 2021, 236, 166473.	1.4	4
625	Occlusion Robust Wheat Ear Counting Algorithm Based on Deep Learning. Frontiers in Plant Science, 2021, 12, 645899.	1.7	24
626	Intelligent Fruit Yield Estimation for Orchards Using Deep Learning Based Semantic Segmentation Techniques—A Review. Frontiers in Plant Science, 2021, 12, 684328.	1.7	53
627	Deep Learning in Image Analysis for COVID-19 Diagnosis: a Survey. IEEE Latin America Transactions, 2021, 19, 925-936.	1.2	6
628	ST-V-Net: incorporating shape prior into convolutional neural networks for proximal femur segmentation. Complex & Intelligent Systems, 2023, 9, 2747-2758.	4.0	8
629	Using Deep Learning Neural Network in Artificial Intelligence Technology to Classify Beef Cuts. Frontiers in Sensors, 2021, 2, .	1.7	11
630	Follow-up Test Cases are Better Than Source Test Cases in Metamorphic Testing: A Preliminary Study. , 2021, , .		0
631	FlipReID: Closing the Gap Between Training and Inference in Person Re-Identification. , 2021, , .		14
632	Identification of nodal micrometastasis in colorectal cancer using deep learning on annotation-free whole-slide images. Modern Pathology, 2021, 34, 1901-1911.	2.9	30
633	Banknote Object Detection for the Visually Impaired using a CNN., 2021,,.		2
634	CNN Architectures for Geometric Transformation-Invariant Feature Representation in Computer Vision: A Review. SN Computer Science, $2021, 2, 1$.	2.3	24

#	Article	IF	CITATIONS
635	Deep learning for semi-automated unidirectional measurement of lung tumor size in CT. Cancer lmaging, 2021, 21, 43.	1.2	4
636	Radiomics side experiments and DAFIT approach in identifying pulmonary hypertension using Cardiac MRI derived radiomics based machine learning models. Scientific Reports, 2021, 11, 12686.	1.6	13
637	Morphology of three-body quantum states from machine learning. New Journal of Physics, 2021, 23, 065009.	1.2	5
639	A YOLO-Based Pest Detection System for Precision Agriculture. , 2021, , .		32
640	Deep Neural Networks with Transfer Learning for Forest Variable Estimation Using Sentinel-2 Imagery in Boreal Forest. Remote Sensing, 2021, 13, 2392.	1.8	25
641	Neural network strategies for plasma membrane selection in fluorescence microscopy images. Biophysical Journal, 2021, 120, 2374-2385.	0.2	1
642	Radar Voxel Fusion for 3D Object Detection. Applied Sciences (Switzerland), 2021, 11, 5598.	1.3	26
643	Enhanced balancing GAN: minority-class image generation. Neural Computing and Applications, 2023, 35, 5145-5154.	3.2	28
644	YOLO-based Network Fusion for Riverine Floating Debris Monitoring System., 2021, , .		2
645	Image Classification for Silkworm using Deep Neural Network-Keras. International Journal of Scientific Research in Computer Science Engineering and Information Technology, 2021, , 658-663.	0.2	2
646	Use of Generative Adversarial Networks (GAN) for Taphonomic Image Augmentation and Model Protocol for the Deep Learning Analysis of Bone Surface Modifications. Applied Sciences (Switzerland), 2021, 11, 5237.	1.3	5
647	8. Multi species weed detection with Retinanet one-step network in a maize field., 2021,,.		3
648	Detecting Fissures in Concrete Structures using CNNs and Transfer Learning. , 2021, , .		2
649	Deep learningâ€based synthetic CT generation for MRâ€only radiotherapy of prostate cancer patients with 0.35T MRI linear accelerator. Journal of Applied Clinical Medical Physics, 2021, 22, 93-104.	0.8	12
650	Pyramid Ensemble Convolutional Neural Network for Virtual Computed Tomography Image Prediction in a Selective Laser Melting Process. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2021, 143, .	1.3	7
652	A ReLU Dense Layer to Improve the Performance of Neural Networks. , 2021, , .		15
653	Automated left and right ventricular chamber segmentation in cardiac magnetic resonance images using dense fully convolutional neural network. Computer Methods and Programs in Biomedicine, 2021, 204, 106059.	2.6	31
654	A Scalable, Supervised Classification of Seabed Sediment Waves Using an Object-Based Image Analysis Approach. Remote Sensing, 2021, 13, 2317.	1.8	12

#	Article	IF	CITATIONS
655	Densely Connected Convolutional Networks (DenseNet) for Diagnosing Coronavirus Disease (COVID-19) from Chest X-ray Imaging. , 2021 , , .		10
656	Combining Magnification and Measurement for Non-Contact Cardiac Monitoring., 2021, , .		3
657	Fusion loss and inter-class data augmentation for deep finger vein feature learning. Expert Systems With Applications, 2021, 171, 114584.	4.4	14
658	Plant diseases recognition on images using convolutional neural networks: A systematic review. Computers and Electronics in Agriculture, 2021, 185, 106125.	3.7	114
659	Going deep into schizophrenia with artificial intelligence. Schizophrenia Research, 2022, 245, 122-140.	1.1	39
660	In-Field Automatic Detection of Grape Bunches under a Totally Uncontrolled Environment. Sensors, 2021, 21, 3908.	2.1	17
661	Do Humans and Deep Convolutional Neural Networks Use Visual Information Similarly for the Categorization of Natural Scenes?. Cognitive Science, 2021, 45, e13009.	0.8	7
663	CeCILE - An Artificial Intelligence Based Cell-Detection for the Evaluation of Radiation Effects in Eucaryotic Cells. Frontiers in Oncology, 2021, 11, 688333.	1.3	3
664	An Equivariant Neural Network with Hyperbolic Embedding for Robust Doppler Signal Classification. , 2021, , .		1
665	Low-Resource Expressive Text-To-Speech Using Data Augmentation. , 2021, , .		24
666	Tympanic Membrane Generation with Generative Adversarial Networks. , 2021, , .		0
667	Diagnosis of interproximal caries lesions with deep convolutional neural network in digital bitewing radiographs. Clinical Oral Investigations, 2022, 26, 623-632.	1.4	50
668	BERT-based ensemble methods with data augmentation for legal textual entailment in COLIEE statute law task. , 2021 , , .		12
669	Practical segmentation of nuclei in brightfield cell images with neural networks trained on fluorescently labelled samples. Journal of Microscopy, 2021, 284, 12-24.	0.8	6
670	Artificial MRI Image Generation using Deep Convolutional GAN and its Comparison with other Augmentation Methods. , 2021, , .		6
671	Derin Öğrenme Tabanlı Mermer Yüzeylerinin Otomatik Sınıflandırılması. European Journal of Scie Technology, 0, , .	ence and	1
674	EXPLORING CROSS-CITY SEMANTIC SEGMENTATION OF ALS POINT CLOUDS. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLIII-B2-2021, 247-254.	0.2	4
675	An ensemble of region-based CNN models combined by sum rule for tuna classification. , 2021, , .		1

#	Article	IF	CITATIONS
676	A comparison on the use of Perlin-noise and Gaussian noise based augmentation on X-ray classification of lung cancer patient. Journal of Physics: Conference Series, 2021, 1951, 012064.	0.3	5
677	Improved Supervised Training of Physics-Guided Deep Learning Image Reconstruction with Multi-Masking. , 2021, , .		2
678	CovidXrayNet: Optimizing data augmentation and CNN hyperparameters for improved COVID-19 detection from CXR. Computers in Biology and Medicine, 2021, 133, 104375.	3.9	77
679	PPGTempStitch: A MATLAB Toolbox for Augmenting Annotated Photoplethsmogram Signals. Sensors, 2021, 21, 4007.	2.1	3
680	Hierarchical Recurrent Neural Network for Handwritten Strokes Classification., 2021,,.		11
682	Cassava disease recognition from <scp>lowâ€quality</scp> images using enhanced data augmentation model and deep learning. Expert Systems, 2021, 38, e12746.	2.9	84
683	Unsupervised data-preprocessing for Long Short-Term Memory based battery model under electric vehicle operation. Journal of Energy Storage, 2021, 38, 102598.	3.9	13
684	Data Augmentation using Geometric, Frequency, and Beta Modeling approaches for Improving Multi-lingual Online Handwriting Recognition. International Journal on Document Analysis and Recognition, 2021, 24, 283-298.	2.7	13
685	Boundary Extraction Based on Dual Stream Deep Learning Model in High Resolution Remote Sensing Images. Acta Mathematica Spalatensia, 0, , .	0.1	1
686	Expand your Training Limits! Generating Training Data for ML-based Data Management. , 2021, , .		6
687	REDS: Rule Extraction for Discovering Scenarios. , 2021, , .		0
688	Convolutional Neural Networks for Automated Detection and Classification of Bone Tumors in Magnetic Resonance Imaging. , 2021, , .		8
689	A Review of Computer-Aided Expert Systems for Breast Cancer Diagnosis. Cancers, 2021, 13, 2764.	1.7	14
690	A voting-based ensemble deep learning method focusing on image augmentation and preprocessing variations for tuberculosis detection. Neural Computing and Applications, 2021, 33, 15541-15555.	3.2	40
691	A convolutional neural network for estimating synaptic connectivity from spike trains. Scientific Reports, 2021, 11, 12087.	1.6	7
692	Automatic Microscopy Analysis with Transfer Learning for Classification of Human Sperm. Applied Sciences (Switzerland), 2021, 11, 5369.	1.3	4
693	Adaptive Data Augmentation to Achieve Noise Robustness and Overcome Data Deficiency for Deep Learning. Applied Sciences (Switzerland), 2021, 11, 5586.	1.3	9
695	16. Fine-tuning and testing of a deep learning algorithm for pruning regions detection in spur-pruned grapevines., 2021,,.		4

#	Article	IF	CITATIONS
696	A 4F optical diffuser system with spatial light modulators for image data augmentation. Optics Communications, 2021, 488, 126859.	1.0	5
697	A review of medical image data augmentation techniques for deep learning applications. Journal of Medical Imaging and Radiation Oncology, 2021, 65, 545-563.	0.9	297
698	Perlin Random Erasing for Data Augmentation. , 2021, , .		10
701	Cartesian message passing neural networks for directional properties: Fast and transferable atomic multipoles. Journal of Chemical Physics, 2021, 154, 224103.	1.2	12
702	Classification of Microglial Morphological Phenotypes Using Machine Learning. Frontiers in Cellular Neuroscience, 2021, 15, 701673.	1.8	75
703	Knowledgeâ€based radiation treatment planning: A dataâ€driven method survey. Journal of Applied Clinical Medical Physics, 2021, 22, 16-44.	0.8	43
704	DenseNet Convolutional Neural Networks Application for Predicting COVID-19 Using CT Image. SN Computer Science, 2021, 2, 389.	2.3	63
705	Text Data Augmentation for Deep Learning. Journal of Big Data, 2021, 8, 101.	6.9	594
706	Expertise Classification of Soccer Goalkeepers in Highly Dynamic Decision Tasks: A Deep Learning Approach for Temporal and Spatial Feature Recognition of Fixation Image Patch Sequences. Frontiers in Sports and Active Living, 2021, 3, 692526.	0.9	6
707	Blind sidewalk segmentation based on the lightweight semantic segmentation network. Journal of Physics: Conference Series, 2021, 1976, 012004.	0.3	2
708	A new data augmentation method of remote sensing dataset based on Class Activation Map. Journal of Physics: Conference Series, 2021, 1961, 012023.	0.3	4
709	Improved YOLOv3 model based on ResNeXt for target detection. , 2021, , .		2
711	A deep learning approach to automatically quantify lower extremity alignment in children. Skeletal Radiology, 2022, 51, 381-390.	1.2	4
712	Towards Feature-free TSP Solver Selection: A Deep Learning Approach. , 2021, , .		3
713	Jitter: Random Jittering Loss Function. , 2021, , .		2
714	Do Affective Cues Validate Behavioural Metrics for Search?. , 2021, , .		5
715	Generative Adversarial Networks (GANs) in networking: A comprehensive survey & Computer Networks, 2021, 194, 108149.	3.2	40
716	Machine Vision Automated Chiral Molecule Detection and Classification in Molecular Imaging. Journal of the American Chemical Society, 2021, 143, 10177-10188.	6.6	30

#	Article	IF	CITATIONS
717	Effect of Data Augmentation on the Accuracy of Convolutional Neural Networks. Lecture Notes in Networks and Systems, 2022, , 337-348.	0.5	1
718	Bangladeshi Indigenous Fish Classification using Convolutional Neural Networks. , 2021, , .		7
719	Computer Aided Skin Disease (CASD) Classification Using Machine Learning Techniques for iOS Platform. Intelligent Systems Reference Library, 2022, , 201-216.	1.0	1
720	Large-scale machine-learning-based phenotyping significantly improves genomic discovery for optic nerve head morphology. American Journal of Human Genetics, 2021, 108, 1217-1230.	2.6	35
721	Anomaly Detection in Scientific Workflows using End-to-End Execution Gantt Charts and Convolutional Neural Networks., 2021,,.		4
722	Improving convolutional neural networks performance for image classification using test time augmentation: a case study using MURA dataset. Health Information Science and Systems, 2021, 9, 33.	3.4	14
723	Are Coverage Criteria Meaningful Metrics for DNNs?., 2021,,.		5
724	Local Style Preservation in Improved GAN-Driven Synthetic Image Generation for Endoscopic Tool Segmentation. Sensors, 2021, 21, 5163.	2.1	11
725	Fast hierarchical tucker decomposition with single-mode preservation and tensor subspace analysis for feature extraction from augmented multimodal data. Neurocomputing, 2021, 445, 231-243.	3 . 5	5
726	Automated Adenoid Hypertrophy Assessment with Lateral Cephalometry in Children Based on Artificial Intelligence. Diagnostics, 2021, 11, 1386.	1.3	8
727	Generalizability Improvement of Deep Learning-Based Non-Intrusive Load Monitoring System Using Data Augmentation. IEEE Transactions on Smart Grid, 2021, 12, 3265-3277.	6.2	45
728	Detection of Tomato Leaf Diseases Using Transfer Learning Architectures: A Comparative Analysis. , 2021, , .		13
730	Deep-learning framework and computer assisted fatty infiltration analysis for the supraspinatus muscle in MRI. Scientific Reports, 2021, 11, 15065.	1.6	25
731	Product Inspection Methodology via Deep Learning: An Overview. Sensors, 2021, 21, 5039.	2.1	8
732	Volumetric modulated arc therapy dose prediction and deliverable treatment plan generation for prostate cancer patients using a densely connected deep learning model. Physics and Imaging in Radiation Oncology, 2021, 19, 112-119.	1.2	10
733	Quantifying Non-parametric Structure of High-redshift Galaxies with Deep Learning. Astrophysical Journal, 2021, 916, 4.	1.6	17
735	Artificial Intelligence and COVID-19: A Systematic umbrella review and roads ahead. Journal of King Saud University - Computer and Information Sciences, 2022, 34, 5898-5920.	2.7	17
736	The Tags Are Alright. , 2021, , .		10

#	Article	IF	CITATIONS
737	Artificial intelligence in the creative industries: a review. Artificial Intelligence Review, 2022, 55, 589-656.	9.7	82
738	A BERT model generates diagnostically relevant semantic embeddings from pathology synopses with active learning. Communications Medicine, 2021, 1 , .	1.9	6
739	Multiclass Brain Tumor Classification Using Convolutional Neural Network and Support Vector Machine. , $2021, \ldots$		16
740	A Little Data Goes a Long Way: Automating Seismic Phase Arrival Picking at Nabro Volcano With Transfer Learning. Journal of Geophysical Research: Solid Earth, 2021, 126, e2021JB021910.	1.4	27
741	Multiclass semantic segmentation for digitisation of movable heritage using deep learning techniques. Virtual Archaeology Review, 2021, 12, 85.	0.8	1
742	Intelligent Recognition Method of Low-Altitude Squint Optical Ship Target Fused with Simulation Samples. Remote Sensing, 2021, 13, 2697.	1.8	4
744	A Deep Learning Approach in Optical Inspection to Detect Hidden Hardware Trojans and Secure Cybersecurity in Electronics Manufacturing Supply Chains. Frontiers in Mechanical Engineering, 2021, 7, .	0.8	4
745	A Comprehensive Survey on Handwritten Gujarati Character and Its Modifier Recognition Methods. Lecture Notes in Networks and Systems, 2022, , 841-850.	0.5	1
746	LDL-AURIS: a computational model, grounded in error-driven learning, for the comprehension of single spoken words. Language, Cognition and Neuroscience, 2023, 38, 509-536.	0.7	7
747	Development of a Deep-Learning Pipeline to Recognize and Characterize Macrophages in Colo-Rectal Liver Metastasis. Cancers, 2021, 13, 3313.	1.7	8
748	A Study on Intrarenal Porous Segmentation of Endoscopic Images. , 2021, , .		0
749	Improving effectiveness of different deep learning-based models for detecting COVID-19 from computed tomography (CT) images. Neural Computing and Applications, 2021, 33, 17589-17609.	3.2	17
750	From Weakly Supervised Learning to Biquality Learning: an Introduction. , 2021, , .		7
751	Social Influence Prediction with Train and Test Time Augmentation for Graph Neural Networks. , 2021, , .		6
752	Learning-based local quality assessment of reflectance confocal microscopy images for dermatology applications. Biocybernetics and Biomedical Engineering, 2021, 41, 880-890.	3.3	3
7 53	ToF 3D Vision Detection and Localization of Soft Packaging Bags Based on Deep Learning. , 2021, , .		0
754	A Comprehensive Qualitative and Quantitative Review of Current Research in GANs., 2021,,.		1
755	Application of deep learning for semantic segmentation of sandstone thin sections. Computers and Geosciences, 2021, 152, 104778.	2.0	25

#	Article	IF	CITATIONS
756	Convolutional neural networks ensemble model for neonatal seizure detection. Journal of Neuroscience Methods, 2021, 358, 109197.	1.3	22
757	Automated Fish Bone Detection in Xâ€Ray Images with Convolutional NeuralÂNetwork and Synthetic Image Generation. IEEJ Transactions on Electrical and Electronic Engineering, 2021, 16, 1510-1517.	0.8	7
758	Application of Deep Learning Techniques for COVID-19 Management. Studies in Computational Intelligence, 2022, , 165-197.	0.7	0
759	Data augmentation using generative adversarial neural networks on brain structural connectivity in multiple sclerosis. Computer Methods and Programs in Biomedicine, 2021, 206, 106113.	2.6	36
760	Classification of microcalcification clusters in digital breast tomosynthesis using ensemble convolutional neural network. BioMedical Engineering OnLine, 2021, 20, 71.	1.3	9
761	ECGAug: A novel method of generating augmented annotated electrocardiogram QRST complexes and rhythm strips. Computers in Biology and Medicine, 2021, 134, 104408.	3.9	7
762	Systemic retinal biomarkers. Current Opinion in Ophthalmology, 2021, 32, 439-444.	1.3	6
763	Deep Learning for Identification of Acute Illness and Facial Cues of Illness. Frontiers in Medicine, 2021, 8, 661309.	1.2	7
764	Object recognition for robotics from tactile time series data utilising different neural network architectures. , 2021, , .		6
765	Geometric rectificationâ€based neural network architecture for image manipulation detection. International Journal of Intelligent Systems, 2021, 36, 6993-7016.	3.3	6
766	Real Time Pear Fruit Detection and Counting Using YOLOv4 Models and Deep SORT. Sensors, 2021, 21, 4803.	2.1	86
767	Probabilistic Machine Learning for Healthcare. Annual Review of Biomedical Data Science, 2021, 4, 393-415.	2.8	22
768	An empirical survey of data augmentation for time series classification with neural networks. PLoS ONE, 2021, 16, e0254841.	1.1	248
769	Fine-Grained Tidal Flat Waterbody Extraction Method (FYOLOv3) for High-Resolution Remote Sensing Images. Remote Sensing, 2021, 13, 2594.	1.8	7
770	Early lessons in deploying cameras and artificial intelligence technology for fisheries catch monitoring: where machine learning meets commercial fishing. Canadian Journal of Fisheries and Aquatic Sciences, 2022, 79, 257-266.	0.7	7
771	Time–Frequency Decomposition of Scalp Electroencephalograms Improves Deep Learning-Based Epilepsy Diagnosis. International Journal of Neural Systems, 2021, 31, 2150032.	3.2	20
772	Using deep learning to value free-form text data for predictive maintenance. International Journal of Production Research, 2022, 60, 4548-4575.	4.9	27
773	Prediction of Molecular Properties Using Molecular Topographic Map. Molecules, 2021, 26, 4475.	1.7	10

#	Article	IF	CITATIONS
774	Data Augmentation for FPCB Picking in Heavy Clutter via Image Blending., 2021,,.		0
775	Rice grain disease identification using dual phase convolutional neural network based system aimed at small dataset, 2021, 2021, .		11
776	An Improved Aggregated-Mosaic Method for the Sparse Object Detection of Remote Sensing Imagery. Remote Sensing, 2021, 13, 2602.	1.8	13
777	TSA-GAN: A Robust Generative Adversarial Networks for Time Series Augmentation. , 2021, , .		7
778	Identification of spatial intensity profiles from femtosecond laser machined depth profiles via neural networks. Optics Express, 2021, 29, 36469.	1.7	3
779	Automated Gland Detection in Colorectal Histopathological Images. Lecture Notes in Electrical Engineering, 2022, , 153-162.	0.3	0
780	Handwriting Recognition using Deep Learning with Effective Data Augmentation Techniques., 2021,,.		0
781	VAMDLE: Visitor and Asset Management Using Deep Learning and ElasticSearch. Lecture Notes in Networks and Systems, 2022, , 318-329.	0.5	0
782	Copula-based synthetic data augmentation for machine-learning emulators. Geoscientific Model Development, 2021, 14, 5205-5215.	1.3	8
783	Deep learning strategies for automatic fault diagnosis in photovoltaic systems by thermographic images. Energy Conversion and Management, 2021, 241, 114315.	4.4	52
784	Synthesising Facial Macro- and Micro-Expressions Using Reference Guided Style Transfer. Journal of Imaging, 2021, 7, 142.	1.7	3
785	Deep learning–based remote sensing estimation of water transparency in shallow lakes by combining Landsat 8 and Sentinel 2 images. Environmental Science and Pollution Research, 2022, 29, 4401-4413.	2.7	11
787	Deep Contrast Learning Approach for Address Semantic Matching. Applied Sciences (Switzerland), 2021, 11, 7608.	1.3	6
788	Connecting Images through Sources: Exploring Low-Data, Heterogeneous Instance Retrieval. Remote Sensing, 2021, 13, 3080.	1.8	3
789	X-Ray Equipped with Artificial Intelligence: Changing the COVID-19 Diagnostic Paradigm during the Pandemic. BioMed Research International, 2021, 2021, 1-16.	0.9	25
790	Automated detection of tumor regions from oral histological whole slide images using fully convolutional neural networks. Biomedical Signal Processing and Control, 2021, 69, 102921.	3.5	8
791	Source apportionment of environmental combustion sources using excitation emission matrix fluorescence spectroscopy and machine learning. Atmospheric Environment, 2021, 259, 118501.	1.9	6
792	Investigating Semantic Augmentation in Virtual Environments for Image Segmentation Using Convolutional Neural Networks. Journal of Imaging, 2021, 7, 146.	1.7	0

#	Article	IF	CITATIONS
793	Data Augmentation for Breast Cancer Mass Segmentation. Lecture Notes in Electrical Engineering, 2022, , 228-237.	0.3	2
794	Development of CNN Transfer Learning for Dyslexia Handwriting Recognition., 2021,,.		4
795	A generic intelligent tomato classification system for practical applications using DenseNet-201 with transfer learning. Scientific Reports, 2021, 11, 15824.	1.6	17
796	Efficient Collaborative Filtering via Data Augmentation and Step-size Optimization. , 2021, , .		0
797	Classification of Diseases in Citrus Fruits using SqueezeNet. , 2021, , .		6
798	Hyperspectral monitor of soil chromium contaminant based on deep learning network model in the Eastern Junggar coalfield. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2021, 257, 119739.	2.0	14
799	Improvement of megavoltage computed tomography image quality for adaptive helical tomotherapy using cycleGANâ€based image synthesis with small datasets. Medical Physics, 2021, 48, 5593-5610.	1.6	5
800	Termite Pest Identification Method Based on Deep Convolution Neural Networks. Journal of Economic Entomology, 2021, 114, 2452-2459.	0.8	2
801	Enhanced Magnetic Resonance Image Synthesis with Contrast-Aware Generative Adversarial Networks. Journal of Imaging, 2021, 7, 133.	1.7	5
802	Leveraging Convolutional Neural Network and Transfer Learning for Cotton Plant and Leaf Disease Recognition. International Journal of Image Graphics and Signal Processing, 2021, 13, 47-62.	0.8	9
803	Pairwise Difference Regression: A Machine Learning Meta-algorithm for Improved Prediction and Uncertainty Quantification in Chemical Search. Journal of Chemical Information and Modeling, 2021, 61, 3846-3857.	2.5	17
804	Automatic segmentation of brain metastases using T1 magnetic resonance and computed tomography images. Physics in Medicine and Biology, 2021, 66, 175014.	1.6	21
805	Improvement of One-Shot-Learning by Integrating a Convolutional Neural Network and an Image Descriptor into a Siamese Neural Network. Applied Sciences (Switzerland), 2021, 11, 7839.	1.3	5
806	Coastal Ocean Observing and Modeling Systems in Brazil: Initiatives and Future Perspectives. Frontiers in Marine Science, 2021, 8, .	1.2	11
807	Support vector machine and deep-learning object detection for localisation of hard exudates. Scientific Reports, 2021, 11, 16045.	1.6	14
808	Learning Transferable Features for Diagnosis of Breast Cancer from Histopathological Images. Lecture Notes in Electrical Engineering, 2022, , 124-133.	0.3	3
811	End-to-End Control Chart Pattern Classification Using a 1D Convolutional Neural Network and Transfer Learning. Processes, 2021, 9, 1484.	1.3	7
812	Deep Learning for Clinical Image Analyses in Oral Squamous Cell Carcinoma. JAMA Otolaryngology - Head and Neck Surgery, 2021, 147, 893.	1.2	18

#	Article	IF	CITATIONS
813	Medical imaging and computational image analysis in COVID-19 diagnosis: A review. Computers in Biology and Medicine, 2021, 135, 104605.	3.9	26
814	Development of pixel-wise U-Net model to assess performance of cereal sowing. Biosystems Engineering, 2021, 208, 260-271.	1.9	8
815	Flower growth status recognition method based on feature fusion convolutional neural network. Journal of Computational Methods in Sciences and Engineering, 2021, 21, 1935-1946.	0.1	0
816	Reply. Gastroenterology, 2021, 161, 2066-2067.	0.6	0
817	Data Augmentation for Object Detection: A Review., 2021,,.		30
818	Resampling and data augmentation for short-term PV output prediction based on an imbalanced sky images dataset using convolutional neural networks. Solar Energy, 2021, 224, 341-354.	2.9	37
819	Comparison of augmentation and pre-processing for deep learning and chemometric classification of infrared spectra. Chemometrics and Intelligent Laboratory Systems, 2021, 215, 104367.	1.8	35
820	IoT and Interpretable Machine Learning Based Framework for Disease Prediction in Pearl Millet. Sensors, 2021, 21, 5386.	2.1	118
821	Best Practices for the Deployment of Edge Inference: The Conclusions to Start Designing. Electronics (Switzerland), 2021, 10, 1912.	1.8	5
822	Segmentation of experimental datasets via convolutional neural networks trained on phase field simulations. Acta Materialia, 2021, 214, 116990.	3.8	13
823	RMU-Net: A Novel Residual Mobile U-Net Model for Brain Tumor Segmentation from MR Images. Electronics (Switzerland), 2021, 10, 1962.	1.8	27
824	Neural Style Transfer as Data Augmentation for Improving COVID-19 Diagnosis Classification. SN Computer Science, 2021, 2, 410.	2.3	5
825	Deep Fusion of Brain Structure-Function in Mild Cognitive Impairment. Medical Image Analysis, 2021, 72, 102082.	7.0	37
826	Automatic classification and detection of oral cancer in photographic images using deep learning algorithms. Journal of Oral Pathology and Medicine, 2021, 50, 911-918.	1.4	49
827	Photovoltaic Panels Classification Using Isolated and Transfer Learned Deep Neural Models Using Infrared Thermographic Images. Sensors, 2021, 21, 5668.	2.1	28
828	Chebyshev Pooling: An Alternative Layer for the Pooling of CNNs-Based Classifier. , 2021, , .		8
829	Deep YOLO-Based Detection of Breast Cancer Mitotic-Cells in Histopathological Images. Lecture Notes in Electrical Engineering, 2022, , 335-342.	0.3	4
830	Deep insight: Convolutional neural network and its applications for COVID-19 prognosis. Biomedical Signal Processing and Control, 2021, 69, 102814.	3.5	21

#	Article	IF	CITATIONS
831	A selfâ€sparse generative adversarial network for autonomous earlyâ€stage design of architectural sketches. Computer-Aided Civil and Infrastructure Engineering, 2022, 37, 612-628.	6.3	25
832	Interlayer Augmentation in a Classification Task. , 2021, , .		1
833	COVID-CGAN: Efficient Deep Learning Approach for COVID-19 Detection Based on CXR Images Using Conditional GANs. Applied Sciences (Switzerland), 2021, 11, 7174.	1.3	17
834	Computerized assisted evaluation system for canine cardiomegaly via key points detection with deep learning. Preventive Veterinary Medicine, 2021, 193, 105399.	0.7	8
835	Treatment initiation prediction by EHR mapped PPD tensor based convolutional neural networks boosting algorithm. Journal of Biomedical Informatics, 2021, 120, 103840.	2.5	5
836	Deep Learning Analysis of CT Images Reveals High-Grade Pathological Features to Predict Survival in Lung Adenocarcinoma. Cancers, 2021, 13, 4077.	1.7	10
837	Lumbar Disc Herniation Automatic Detection in Magnetic Resonance Imaging Based on Deep Learning. Frontiers in Bioengineering and Biotechnology, 2021, 9, 708137.	2.0	25
838	StyleGANs and Transfer Learning for Generating Synthetic Images in Industrial Applications. Symmetry, 2021, 13, 1497.	1.1	9
839	Machine Learning: New Ideas and Tools in Environmental Science and Engineering. Environmental Science & Environmental	4.6	140
840	Automatic detection of impact craters on Al foils from the Stardust interstellar dust collector using convolutional neural networks. Meteoritics and Planetary Science, 2021, 56, 1890-1904.	0.7	1
841	An enhanced technique of skin cancer classification using deep convolutional neural network with transfer learning models. Machine Learning With Applications, 2021, 5, 100036.	3.0	142
842	A new data augmentation technique for the CNN-based classification of hyperspectral imagery. , 2021, , .		0
843	Key Technology Considerations in Developing and Deploying Machine Learning Models in Clinical Radiology Practice. JMIR Medical Informatics, 2021, 9, e28776.	1.3	10
844	Oil palm fresh fruit bunch ripeness classification on mobile devices using deep learning approaches. Computers and Electronics in Agriculture, 2021, 188, 106359.	3.7	31
845	Multiple classifier for concatenate-designed neural network. Neural Computing and Applications, 2022, 34, 1359-1372.	3.2	12
846	A literature review on one-class classification and its potential applications in big data. Journal of Big Data, 2021, 8, .	6.9	61
847	Detecting hip osteoarthritis on clinical CT: a deep learning application based on 2-D summation images derived from CT. Osteoporosis International, 2022, 33, 355-365.	1.3	9
848	Approaching the Real-World. , 2021, 5, 1-32.		16

#	Article	IF	CITATIONS
849	Last Advances on Automatic Carotid Artery Analysis in Ultrasound Images: Towards Deep Learning. Intelligent Systems Reference Library, 2022, , 215-247.	1.0	1
850	Analysis of the Fuzziness of Image Caption Generation Models due to Data Augmentation Techniques. International Journal of Recent Technology and Engineering, 2021, 10, 131-139.	0.2	0
851	ENHANCED PIXEL BASED URBAN AREA CLASSIFICATION OF SATELLITE IMAGES USING CONVOLUTIONAL NEURAL NETWORK. International Journal of Intelligent Computing and Information Sciences, 2021, .	0.3	3
852	Linking Human And Machine Behavior: A New Approach to Evaluate Training Data Quality for Beneficial Machine Learning. Minds and Machines, 2021, 31, 563-593.	2.7	14
853	Effects of Data Augmentation on the Identification of Cough Sound Using Convolutional Neural Networks. Smart Innovation, Systems and Technologies, 2022, , 285-295.	0.5	2
854	A cloud-based cognitive computing solution with interoperable applications to counteract illegal dumping in smart cities. Multimedia Tools and Applications, 2022, 81, 95-113.	2.6	8
855	Seismic Structural Curvature Volume Extraction With Convolutional Neural Networks. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 7370-7384.	2.7	18
856	Deep Learning of Histopathology Images at the Single Cell Level. Frontiers in Artificial Intelligence, 2021, 4, 754641.	2.0	26
857	Canopy recognition of cherry fruit tree based on SegNet network model. , 2021, , .		0
858	Segmentation of <i>Tuta Absoluta</i> \$\frac{1}{i}\$\$\text{om}\$\$ Damage on Tomato Plants: A Computer Vision Approach. Applied Artificial Intelligence, 2021, 35, 1107-1127.	2.0	13
859	High-Efficiency Classification of White Blood Cells Based on Object Detection. Journal of Healthcare Engineering, 2021, 2021, 1-11.	1.1	8
860	Non-invasive diagnosis of deep vein thrombosis from ultrasound imaging with machine learning. Npj Digital Medicine, 2021, 4, 137.	5.7	32
861	Barley Variety Identification by iPhone Images and Deep Learning. Journal of the American Society of Brewing Chemists, 2022, 80, 215-224.	0.8	2
862	Real-time polyp detection model using convolutional neural networks. Neural Computing and Applications, 2022, 34, 10375-10396.	3.2	29
863	Performance of deep convolutional neural network for classification and detection of oral potentially malignant disorders in photographic images. International Journal of Oral and Maxillofacial Surgery, 2022, 51, 699-704.	0.7	23
864	Demystifying machine learning: a primer for physicians. Internal Medicine Journal, 2021, 51, 1388-1400.	0.5	16
865	Vector mosquito image classification using novel RIFS feature selection and machine learning models for disease epidemiology. Saudi Journal of Biological Sciences, 2022, 29, 583-594.	1.8	15
866	Multi-class imbalanced image classification using conditioned GANs. International Journal of Multimedia Information Retrieval, 2021, 10, 143-153.	3.6	4

#	ARTICLE	IF	Citations
867	Soil organic matter prediction using smartphone-captured digital images: Use of reflectance image and image perturbation. Biosystems Engineering, 2021, 209, 154-169.	1.9	18
868	Development of a yoga posture coaching system using an interactive display based on transfer learning. Journal of Supercomputing, 2022, 78, 5269-5284.	2.4	25
869	A Novel Luminance-Based Algorithm for Classification of Semi-Dark Images. Applied Sciences (Switzerland), 2021, 11, 8694.	1.3	4
870	High-Performance Scaphoid Fracture Recognition via Effectiveness Assessment of Artificial Neural Networks. Applied Sciences (Switzerland), 2021, 11, 8485.	1.3	4
871	Parkinson's disease diagnosis using convolutional neural networks and figure-copying tasks. Neural Computing and Applications, 2022, 34, 1433-1453.	3.2	19
872	Smooth Soft-Balance Discriminative Analysis for imbalanced data. Knowledge-Based Systems, 2021, 228, 106604.	4.0	3
873	What is The Best Data Augmentation For 3D Brain Tumor Segmentation?., 2021,,.		17
874	Online defect detection and automatic grading of carrots using computer vision combined with deep learning methods. LWT - Food Science and Technology, 2021, 149, 111832.	2.5	35
875	Defect segmentation for multi-illumination quality control systems. Machine Vision and Applications, 2021, 32, 1.	1.7	4
876	Comprehensive Survey of Recent Drug Discovery Using Deep Learning. International Journal of Molecular Sciences, 2021, 22, 9983.	1.8	55
877	Development and use of a convolutional neural network for hierarchical appearance-based localization. Artificial Intelligence Review, 2022, 55, 2847-2874.	9.7	5
878	PIWIMS: Physics Informed Warehouse Inventory Monitory via Synthetic Data Generation., 2021,,.		1
879	Convolutional neural networks for decoding electroencephalography responses and visualizing trial by trial changes in discriminant features. Journal of Neuroscience Methods, 2021, 364, 109367.	1.3	7
880	Using back-and-forth translation to create artificial augmented textual data for sentiment analysis models. Expert Systems With Applications, 2021, 178, 115033.	4.4	15
881	Deep learning and lung ultrasound for Covid-19 pneumonia detection and severity classification. Computers in Biology and Medicine, 2021, 136, 104742.	3.9	43
882	Ensembles of Convolutional Neural Network models for pediatric pneumonia diagnosis. Future Generation Computer Systems, 2021, 122, 220-233.	4.9	34
883	Defect recognition in line-space patterns aided by deep learning with data augmentation. Journal of Micro-nanopatterning, Materials, and Metrology, 2021, 20, .	0.4	0
884	Machine learning guided automatic recognition of crystal boundaries in bainitic/martensitic alloy and relationship between boundary types and ductile-to-brittle transition behavior. Journal of Materials Science and Technology, 2021, 84, 49-58.	5.6	19

#	Article	IF	Citations
885	Deep learning based syntheticâ€CT generation in radiotherapy and PET: A review. Medical Physics, 2021, 48, 6537-6566.	1.6	90
887	Plastic Gasket Defect Detection Based on Transfer Learning. Scientific Programming, 2021, 2021, 1-11.	0.5	0
888	Semantic segmentation of mouse jaws using convolutional neural networks. , 2021, , .		0
889	Deep Learning Algorithms Correctly Classify Brassica rapa Varieties Using Digital Images. Frontiers in Plant Science, 2021, 12, 738685.	1.7	7
890	Few-Shot Website Fingerprinting Attack with Data Augmentation. Security and Communication Networks, 2021, 2021, 1-13.	1.0	10
891	Retinal image quality assessment using transfer learning: Spatial images vs. wavelet detail subbands. Ain Shams Engineering Journal, 2021, 12, 2799-2807.	3 . 5	9
892	Emulation of wildland fire spread simulation using deep learning. Neural Networks, 2021, 141, 184-198.	3.3	22
893	Learning-to-augment strategy using noisy and denoised data: Improving generalizability of deep CNN for the detection of COVID-19 in X-ray images. Computers in Biology and Medicine, 2021, 136, 104704.	3.9	33
894	Enhancing data-driven seismic inversion using physics-guided spatiotemporal data augmentation. , 2021, , .		1
895	Identification of Ultra High Frequency Acoustic Coda Waves Using Deep Neural Networks. IEEE Sensors Journal, 2021, 21, 20640-20647.	2.4	2
896	A comprehensive survey of recent trends in deep learning for digital images augmentation. Artificial Intelligence Review, 2022, 55, 2351-2377.	9.7	91
897	A survey on the application of deep learning for code injection detection. Array, 2021, 11, 100077.	2.5	6
898	Synthetic Data Augmentation and Deep Learning for the Fault Diagnosis of Rotating Machines. Mathematics, 2021, 9, 2336.	1.1	19
899	A Joint Multitask Learning Model for Cross-sectional and Longitudinal Predictions of Visual Field Using OCT. Ophthalmology Science, 2021, 1, 100055.	1.0	7
900	A Novel Handwritten Digit Classification System Based on Convolutional Neural Network Approach. Sensors, 2021, 21, 6273.	2.1	6
901	Patterns of Pretreatment Reward Task Brain Activation Predict Individual Antidepressant Response: Key Results From the EMBARC Randomized Clinical Trial. Biological Psychiatry, 2022, 91, 550-560.	0.7	9
902	Coronavirus disease analysis using chest X-ray images and a novel deep convolutional neural network. Photodiagnosis and Photodynamic Therapy, 2021, 35, 102473.	1.3	36
903	Epsilon Consistent Mixup: Structural regularization with an adaptive consistencyâ€interpolation tradeâ€off. Stat, 2022, 11, e425.	0.3	0

#	Article	IF	CITATIONS
904	Acoustic detection of regionally rare bird species through deep convolutional neural networks. Ecological Informatics, 2021, 64, 101333.	2.3	21
905	BlockFITS: A Federated Data Augmentation Modelling for Blockchain-Based IoVT Systems. Advances in Intelligent Systems and Computing, 2022, , 253-262.	0.5	2
906	Hybrid COVID-19 segmentation and recognition framework (HMB-HCF) using deep learning and genetic algorithms. Artificial Intelligence in Medicine, 2021, 119, 102156.	3.8	20
907	Generative Adversarial Networks for Anonymized Healthcare of Lung Cancer Patients. Electronics (Switzerland), 2021, 10, 2220.	1.8	15
908	Transfer learning based ship classification in Sentinel-1 images incorporating scale variant features. Advances in Space Research, 2021, , .	1.2	6
909	Three-dimensional map of Descemet membrane endothelial keratoplasty detachment: development and application of a deep learning model. Ophthalmology Science, 2021, , 100067.	1.0	4
910	SenseCollect., 2021, 5, 1-27.		15
911	Data Augmentation Through Monte Carlo Arithmetic Leads to More Generalizable Classification in Connectomics. Neurons, Behavior, Data Analysis, and Theory, $0,1,.$	1.8	1
912	Review of Data Science Trends and Issues in Porous Media Research With a Focus on Imageâ€Based Techniques. Water Resources Research, 2021, 57, e2020WR029472.	1.7	19
913	Diagnosis of Pediatric Pneumonia with Ensemble of Deep Convolutional Neural Networks in Chest X-Ray Images. Arabian Journal for Science and Engineering, 2022, 47, 2123-2139.	1.7	37
914	An optimized deep learning model using Mutation-based Atom Search Optimization algorithm for cervical cancer detection. Soft Computing, 2021, 25, 15363-15376.	2.1	10
915	Automatic segmentation of whole-body adipose tissue from magnetic resonance fat fraction images based on machine learning. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2022, 35, 193-203.	1.1	5
916	Deep Learning Approach to Classify Road Traffic Sign Images. Lecture Notes in Networks and Systems, 2022, , 146-155.	0.5	0
917	A comparative analysis of eleven neural networks architectures for small datasets of lung images of COVID-19 patients toward improved clinical decisions. Computers in Biology and Medicine, 2021, 139, 104887.	3.9	25
919	A tutorial on the segmentation of metallographic images: Taxonomy, new MetalDAM dataset, deep learning-based ensemble model, experimental analysis and challenges. Information Fusion, 2022, 78, 232-253.	11.7	24
920	Multi-model CNN fusion for sperm morphology analysis. Computers in Biology and Medicine, 2021, 137, 104790.	3.9	20
921	Defect detection of injection molding products on small datasets using transfer learning. Journal of Manufacturing Processes, 2021, 70, 400-413.	2.8	35
922	Contactless Fall Detection Using Time-Frequency Analysis and Convolutional Neural Networks. IEEE Transactions on Industrial Informatics, 2021, 17, 6842-6851.	7.2	47

#	Article	IF	CITATIONS
923	Towards Reading Beyond Faces for Sparsity-aware 3D/4D Affect Recognition. Neurocomputing, 2021, 458, 297-307.	3.5	10
924	Mapping sugarcane in Thailand using transfer learning, a lightweight convolutional neural network, NICFI high resolution satellite imagery and Google Earth Engine. ISPRS Open Journal of Photogrammetry and Remote Sensing, 2021, 1, 100003.	1.3	9
925	Generative adversarial network with object detector discriminator for enhanced defect detection on ultrasonic B-scans. Neurocomputing, 2021, 459, 361-369.	3.5	11
926	A dataset of fortunella margarita images for object detection of deep learning based methods. Data in Brief, 2021, 38, 107293.	0.5	2
927	Deep building footprint update network: A semi-supervised method for updating existing building footprint from bi-temporal remote sensing images. Remote Sensing of Environment, 2021, 264, 112589.	4.6	101
928	Welding Defect Inspection Using Deep Learning. Advances in Intelligent Systems and Computing, 2022, , 77-88.	0.5	0
929	Incorporating the hybrid deformable model for improving the performance of abdominal CT segmentation via multi-scale feature fusion network. Medical Image Analysis, 2021, 73, 102156.	7.0	25
930	Bias Busters: Robustifying DL-Based Lithographic Hotspot Detectors Against Backdooring Attacks. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2021, 40, 2077-2089.	1.9	2
931	Fast and accurate detection of lactating sow nursing behavior with CNN-based optical flow and features. Computers and Electronics in Agriculture, 2021, 189, 106384.	3.7	12
932	A deep learning method for building height estimation using high-resolution multi-view imagery over urban areas: A case study of 42 Chinese cities. Remote Sensing of Environment, 2021, 264, 112590.	4.6	62
933	Automating fish age estimation combining otolith images and deep learning: The role of multitask learning. Fisheries Research, 2021, 242, 106033.	0.9	16
934	Visual question answering in the medical domain based on deep learning approaches: A comprehensive study. Pattern Recognition Letters, 2021, 150, 57-75.	2.6	10
935	Characterization of microscopic deformation of materials using deep learning algorithms. Materials and Design, 2021, 208, 109926.	3.3	2
936	COVID-19 detection in chest X-ray images using deep boosted hybrid learning. Computers in Biology and Medicine, 2021, 137, 104816.	3.9	52
937	Model-based data augmentation for user-independent fatigue estimation. Computers in Biology and Medicine, 2021, 137, 104839.	3.9	10
938	Classification of Melanoma Using Efficient Nets with Multiple Ensembles and Metadata. Algorithms for Intelligent Systems, 2022, , 101-111.	0.5	1
939	Monitoring offshore oil pollution using multi-class convolutional neural networks. Environmental Pollution, 2021, 289, 117884.	3.7	20
940	Skin disease diagnosis with deep learning: A review. Neurocomputing, 2021, 464, 364-393.	3.5	54

#	ARTICLE	IF	CITATIONS
941	Multi defect detection and analysis of electron microscopy images with deep learning. Computational Materials Science, 2021, 199, 110576.	1.4	24
942	From time series to image analysis: A transfer learning approach for night setback identification of district heating substations. Journal of Building Engineering, 2021, 43, 102537.	1.6	5
943	A deep fusion framework for unlabeled data-driven tumor recognition. Pattern Recognition, 2021, 119, 108066.	5.1	1
944	Waste management using an automatic sorting system for carrot fruit based on image processing technique and improved deep neural networks. Energy Reports, 2021, 7, 5248-5256.	2.5	34
945	Fast mesh data augmentation via Chebyshev polynomial of spectral filtering. Neural Networks, 2021, 143, 198-208.	3.3	8
946	Towards a dynamic soil survey: Identifying and delineating soil horizons in-situ using deep learning. Geoderma, 2021, 401, 115341.	2.3	10
947	WBA-DNN: A hybrid weight bat algorithm with deep neural network for classification of poisonous and harmful wild plants. Computers and Electronics in Agriculture, 2021, 190, 106478.	3.7	9
948	Data-augmented sequential deep learning for wind power forecasting. Energy Conversion and Management, 2021, 248, 114790.	4.4	31
949	On the pitfalls of learning with limited data: A facial expression recognition case study. Expert Systems With Applications, 2021, 183, 114991.	4.4	1
950	Efficient federated convolutional neural network with information fusion for rolling bearing fault diagnosis. Control Engineering Practice, 2021, 116, 104913.	3.2	36
951	Predicting residential electricity consumption using aerial and street view images. Applied Energy, 2021, 301, 117407.	5.1	10
952	Predictive maintenance enabled by machine learning: Use cases and challenges in the automotive industry. Reliability Engineering and System Safety, 2021, 215, 107864.	5.1	142
953	Machine learning for early stage building energy prediction: Increment and enrichment. Applied Energy, 2021, 304, 117787.	5.1	13
954	Automatic fault classification in photovoltaic modules using Convolutional Neural Networks. Renewable Energy, 2021, 179, 502-516.	4.3	58
955	Real-time human pose estimation on a smart walker using convolutional neural networks. Expert Systems With Applications, 2021, 184, 115498.	4.4	14
956	Comparison of domain adaptation techniques for white matter hyperintensity segmentation in brain MR images. Medical Image Analysis, 2021, 74, 102215.	7.0	9
957	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
958	CovH2SD: A COVID-19 detection approach based on Harris Hawks Optimization and stacked deep learning. Expert Systems With Applications, 2021, 186, 115805.	4.4	41

#	Article	IF	CITATIONS
959	Behavioral spatial-temporal characteristics-based appetite assessment for fish school in recirculating aquaculture systems. Aquaculture, 2021, 545, 737215.	1.7	9
960	An investigation of XGBoost-based algorithm for breast cancer classification. Machine Learning With Applications, 2021, 6, 100154.	3.0	34
961	Deep_CNN_LSTM_GO: Protein function prediction from amino-acid sequences. Computational Biology and Chemistry, 2021, 95, 107584.	1.1	6
962	CNN-Based Intelligent Method for Identifying GSD of Granular Soils. International Journal of Geomechanics, 2021, 21, .	1.3	3
963	Machine-learning based vulnerability analysis of existing buildings. Automation in Construction, 2021, 132, 103936.	4.8	69
964	Advances in Data Preprocessing for Biomedical Data Fusion: An Overview of the Methods, Challenges, and Prospects. Information Fusion, 2021, 76, 376-421.	11.7	106
965	Artificial intelligence-driven phenotyping of zebrafish psychoactive drug responses. Progress in Neuro-Psychopharmacology and Biological Psychiatry, 2022, 112, 110405.	2.5	14
966	Classification of Citrus Plant Diseases Using Deep Transfer Learning. Computers, Materials and Continua, 2022, 70, 1401-1417.	1.5	37
967	Vision-Based Productivity Analysis of Cable Crane Transportation Using Augmented Reality–Based Synthetic Image. Journal of Computing in Civil Engineering, 2022, 36, .	2.5	14
968	Cytology image analysis. , 2022, , 99-123.		4
969	Deep learning models. , 2022, , 65-97.		8
970	Unimodal regularisation based on beta distribution for deep ordinal regression. Pattern Recognition, 2022, 122, 108310.	5.1	8
971	AFM image analysis of porous structures by means of neural networks. Biomedical Signal Processing and Control, 2022, 71, 103097.	3.5	8
972	Eggshell crack detection using deep convolutional neural networks. Journal of Food Engineering, 2022, 315, 110798.	2.7	21
973	Robustness enhancement of machine fault diagnostic models for railway applications through data augmentation. Mechanical Systems and Signal Processing, 2022, 164, 108217.	4.4	15
974	A probabilistic approximate logic for neuro-symbolic learning and reasoning. Journal of Logical and Algebraic Methods in Programming, 2022, 124, 100719.	0.4	1
975	Application Method of Deep Learning Model Trained with CG Images to Real Images. Procedia Computer Science, 2021, 192, 1484-1493.	1.2	0
976	FA-GAN: Face Augmentation GAN for Deformation-Invariant Face Recognition. IEEE Transactions on Information Forensics and Security, 2021, 16, 2341-2355.	4.5	33

#	ARTICLE	IF	CITATIONS
977	Artificial Vision by Deep CNN Neocognitron. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 76-90.	5.9	8
979	A Deep Learning Approach to Ancient Egyptian Hieroglyphs Classification. IEEE Access, 2021, 9, 123438-123447.	2.6	22
980	WaSR—A Water Segmentation and Refinement Maritime Obstacle Detection Network. IEEE Transactions on Cybernetics, 2022, 52, 12661-12674.	6.2	31
981	A Causal Framework for Distribution Generalization. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, 44, 6614-6630.	9.7	11
982	Deep neural networks architecture driven by problem-specific information. Neural Computing and Applications, 2021, 33, 9403-9423.	3.2	3
983	Proof-of-Concept Techniques for Generating Synthetic Thermal Facial Data for Training of Deep Learning Models. , 2021, , .		1
984	Text Augmentation Techniques in Drug Adverse Effect Detection Task., 2021,,.		1
985	Spectrum prediction based on GAN and deep transfer learning: A cross-band data augmentation framework. China Communications, 2021, 18, 18-32.	2.0	8
986	Differentiating Small-Cell Lung Cancer From Non-Small-Cell Lung Cancer Brain Metastases Based on MRI Using Efficientnet and Transfer Learning Approach. Technology in Cancer Research and Treatment, 2021, 20, 153303382110049.	0.8	17
987	Classification of Cervical Intraepithelial Neoplasia (CIN) using fine-tuned Convolutional Neural Networks. Intelligence-based Medicine, 2021, 5, 100031.	1.4	5
988	Classification of breast cancer histopathological image with deep residual learning. International Journal of Imaging Systems and Technology, 2021, 31, 1583-1594.	2.7	16
989	Data Augmentation for End-to-End Optical Music Recognition. Lecture Notes in Computer Science, 2021, , 59-73.	1.0	3
990	ASAR 2021 Competition on Online Arabic Character Recognition: ACRC. Lecture Notes in Computer Science, 2021, , 379-389.	1.0	4
991	Towards Indian Sign Language Sentence Recognition using INSIGNVID: Indian Sign Language Video Dataset. International Journal of Advanced Computer Science and Applications, 2021, 12, .	0.5	4
992	TAR: Generalized Forensic Framework toÂDetect Deepfakes Using Weakly Supervised Learning. IFIP Advances in Information and Communication Technology, 2021, , 351-366.	0.5	19
993	A Survey of Data Augmentation Approaches for NLP. , 2021, , .		175
994	Using U-Net-Like Deep Convolutional Neural Networks for Precise Tree Recognition in Very High Resolution RGB (Red, Green, Blue) Satellite Images. Forests, 2021, 12, 66.	0.9	27
995	Learning-Based Cancer Treatment Outcome Prognosis Using Multimodal Biomarkers. IEEE Transactions on Radiation and Plasma Medical Sciences, 2022, 6, 231-244.	2.7	1

#	Article	IF	CITATIONS
996	Quality Control of PET Bottles Caps with Dedicated Image Calibration and Deep Neural Networks. Sensors, 2021, 21, 501.	2.1	12
997	Deep Transfer Learning for Interpretable Chest X-Ray Diagnosis. Lecture Notes in Computer Science, 2021, , 524-537.	1.0	1
998	Ensemble of Convolution Neural Networks for Automatic Tuberculosis Classification. Lecture Notes in Computer Science, 2021, , 549-559.	1.0	1
1000	Robust chest CT image segmentation of COVID-19 lung infection based on limited data. Informatics in Medicine Unlocked, 2021, 25, 100681.	1.9	60
1001	Efficient Detection of Knee Anterior Cruciate Ligament from Magnetic Resonance Imaging Using Deep Learning Approach. Diagnostics, 2021, 11, 105.	1.3	84
1002	SAISAR-Net: A Robust Sequential Adjustment ISAR Image Classification Network. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-15.	2.7	5
1003	A Thresholded Gabor-CNN Based Writer Identification System for Indic Scripts. IEEE Access, 2021, 9, 132329-132341.	2.6	5
1004	Recognition of Plasma Discharge Patterns Based on CNN and Visible Images. IEEE Access, 2021, 9, 67232-67240.	2.6	1
1005	Iterative Paraphrastic Augmentation with Discriminative Span Alignment. Transactions of the Association for Computational Linguistics, 2021, 9, 494-509.	3.2	1
1006	Augmented Audio Data in Improving Speech Emotion Classification Tasks. Lecture Notes in Computer Science, 2021, , 360-365.	1.0	3
1007	Improving Human Emotion Recognition from Emotive Videos Using Geometric Data Augmentation. Lecture Notes in Computer Science, 2021, , 149-161.	1.0	0
1008	Dual-Tree Genetic Programming for Few-Shot Image Classification. IEEE Transactions on Evolutionary Computation, 2022, 26, 555-569.	7.5	11
1009	ADGAS: An Advanced Data Generation for Anomalous Signals. Lecture Notes in Networks and Systems, 2021, , 137-147.	0.5	2
1010	Classification of Pediatric Posterior Fossa Tumors Using Convolutional Neural Network and Tabular Data. IEEE Access, 2021, 9, 91966-91973.	2.6	6
1011	Learning With Fewer Images via Image Clustering: Application to Intravascular OCT Image Segmentation. IEEE Access, 2021, 9, 37273-37280.	2.6	21
1012	Multiscale Convolutional Neural Network With Feature Alignment for Bearing Fault Diagnosis. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-10.	2.4	25
1013	Demonstration of background rejection using deep convolutional neural networks in the NEXT experiment. Journal of High Energy Physics, 2021, 2021, 1.	1.6	13
1014	Machine-learning Applications to Membrane Active Peptides. , 2021, , 198-207.		1

#	Article	IF	CITATIONS
1015	Tuna classification using super learner ensemble of region-based CNN-grouped 2D-LBP models. Information Processing in Agriculture, 2022, 9, 68-79.	2.9	7
1016	Deidentifying MRI Data Domain by Iterative Backpropagation. Lecture Notes in Computer Science, 2021, , 277-286.	1.0	2
1017	On the Generalization Ability of Data-Driven Models in the Problem of Total Cloud Cover Retrieval. Remote Sensing, $2021, 13, 326$.	1.8	12
1018	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
1019	A Survey on the Development of Image Data Augmentation. Computer Science and Application, 2021, 11, 370-382.	0.0	5
1020	Advanced Non-linear Generative Model with a Deep Classifier for Immunotherapy Outcome Prediction: A Bladder Cancer Case Study. Lecture Notes in Computer Science, 2021, , 227-242.	1.0	3
1021	An Efficient Data Augmentation Network for Out-of-Distribution Image Detection. IEEE Access, 2021, 9, 35313-35323.	2.6	6
1022	Deep Learning Approach to Classify Parkinson's Disease from MRI Samples. Lecture Notes in Computer Science, 2021, , 536-547.	1.0	14
1023	Aging Assessment of Oil–Paper Insulation Based on Visional Recognition of the Dimensional Expanded Raman Spectra. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-10.	2.4	25
1024	Image analysis and data processing for COVID-19. , 2021, , 413-427.		2
1025	How to construct low-altitude aerial image datasets for deep learning. Mathematical Biosciences and Engineering, 2021, 18, 986-999.	1.0	1
1026	The Application of Using Convolutional Neural Network to Classify MRI Brain Tumor., 2021,,.		0
1027	Data Augmentation and Layered Deformable Mask R-CNN-Based Detection of Wood Defects. IEEE Access, 2021, 9, 108162-108174.	2.6	13
1028	Multimodal Feature Fusion and Knowledge-Driven Learning via Experts Consult for Thyroid Nodule Classification. IEEE Transactions on Circuits and Systems for Video Technology, 2022, 32, 2527-2534.	5.6	26
1029	Multi-Scale Binary Pattern Encoding Network for Cancer Classification in Pathology Images. IEEE Journal of Biomedical and Health Informatics, 2022, 26, 1152-1163.	3.9	13
1030	Can vectors read minds better than experts? Comparing data augmentation strategies for the automated scoring of childrenâ \in [™] s mindreading ability., 2021,,.		2
1031	Artificial Intelligence for Intraoperative Guidance: Using an Object Detection Model in Conjunction With Data Augmentation to Detect Parathyroid Glands During Thyroidectomy. SSRN Electronic Journal, 0, , .	0.4	0
1032	A New Data Augmentation Method for Time Series Wearable Sensor Data Using a Learning Mode Switching-Based DCGAN. IEEE Robotics and Automation Letters, 2021, 6, 8671-8677.	3.3	6

#	ARTICLE	IF	CITATIONS
1033	Smart Inference for Multidigit Convolutional Neural Network based Barcode Decoding., 2021,,.		2
1034	Tilting at windmills: Data augmentation for deep pose estimation does not help with occlusions. , 2021, , .		3
1035	Explainable AI for Multimodal Credibility Analysis: Case Study of Online Beauty Health (Mis)-Information. IEEE Access, 2021, 9, 127985-128022.	2.6	5
1036	DeepGRAI (Deep Gray Rating via Artificial Intelligence): Fast, feasible, and clinically relevant thalamic atrophy measurement on clinical quality T2-FLAIR MRI in multiple sclerosis. NeuroImage: Clinical, 2021, 30, 102652.	1.4	10
1037	Deep Sentiment Analysis: A Case Study on Stemmed Turkish Twitter Data. IEEE Access, 2021, 9, 56836-56854.	2.6	15
1039	Automated Iterative Label Transfer Improves Segmentation of Noisy Cells inÂAdaptive Optics Retinal Images. Lecture Notes in Computer Science, 2021, 13003, 201-208.	1.0	0
1040	Video Action Understanding. IEEE Access, 2021, 9, 134611-134637.	2.6	16
1041	Rail Transit Obstacle Detection Based on Improved CNN. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-14.	2.4	17
1042	Learning-Based Image Synthesis for Hazardous Object Detection in X-Ray Security Applications. IEEE Access, 2021, 9, 135256-135265.	2.6	4
1043	Multi-Scale Conditional Generative Adversarial Network for Small-Sized Lung Nodules Using Class Activation Region Influence Maximization. IEEE Access, 2021, 9, 139426-139437.	2.6	4
1044	An Enhanced Randomly Initialized Convolutional Neural Network for Columnar Cactus Recognition in Unmanned Aerial Vehicle imagery. Procedia Computer Science, 2021, 192, 573-581.	1.2	3
1045	Deep Learning for LiDAR-Based Autonomous Vehicles in Smart Cities. , 2020, , 1-25.		6
1046	Diagnosing Tuberculosis Using Deep Convolutional Neural Network. Lecture Notes in Computer Science, 2020, , 151-161.	1.0	9
1047	The Potential for the Use of Deep Neural Networks in e-Learning Student Evaluation with New Data Augmentation Method. Lecture Notes in Computer Science, 2020, , 37-42.	1.0	8
1048	Semantic Equivalent Adversarial Data Augmentation for Visual Question Answering. Lecture Notes in Computer Science, 2020, , 437-453.	1.0	19
1049	Engine Labels Detection for Vehicle Quality Verification in the Assembly Line: A Machine Vision Approach. Lecture Notes in Electrical Engineering, 2021, , 740-751.	0.3	3
1051	Extracting and Leveraging Nodule Features with Lung Inpainting for Local Feature Augmentation. Lecture Notes in Computer Science, 2020, , 504-512.	1.0	2
1052	Automatic Detection of Cervical Cells Using Dense-Cascade R-CNN. Lecture Notes in Computer Science, 2020, , 602-613.	1.0	8

#	Article	IF	CITATIONS
1053	Data Augmentation Using Principal Component Resampling for Image Recognition by Deep Learning. Lecture Notes in Computer Science, 2020, , 39-48.	1.0	4
1054	Data Augmentation for Industrial Prognosis Using Generative Adversarial Networks. Lecture Notes in Computer Science, 2020, , 113-122.	1.0	3
1055	Lung Cancer Tumor Region Segmentation Using Recurrent 3D-DenseUNet. Lecture Notes in Computer Science, 2020, , 36-47.	1.0	13
1056	Borno: Bangla Handwritten Character Recognition Using a Multiclass Convolutional Neural Network. Advances in Intelligent Systems and Computing, 2021, , 457-472.	0.5	3
1057	DenoiSeg: Joint Denoising and Segmentation. Lecture Notes in Computer Science, 2020, , 324-337.	1.0	26
1058	Understanding Abstraction in Deep CNN: An Application on Facial Emotion Recognition. Smart Innovation, Systems and Technologies, 2021, , 281-290.	0.5	5
1059	Prediction of Biotic Stress in Paddy Crop Using Deep Convolutional Neural Networks. Lecture Notes on Data Engineering and Communications Technologies, 2021, , 337-346.	0.5	4
1060	Deep network in network. Neural Computing and Applications, 2021, 33, 1453-1465.	3.2	17
1061	Exploring optimal control of epidemic spread using reinforcement learning. Scientific Reports, 2020, 10, 22106.	1.6	19
1062	Classifying functional nuclear images with convolutional neural networks: a survey. IET Image Processing, 2020, 14, 3300-3313.	1.4	13
1063	Supervised machine learning tools: a tutorial for clinicians. Journal of Neural Engineering, 2020, 17, 062001.	1.8	75
1064	Machine learning for aquatic plastic litter detection, classification and quantification (APLASTIC-Q). Environmental Research Letters, 2020, 15, 114042.	2.2	56
1072	Multi-detection and Segmentation of Breast Lesions Based on Mask RCNN-FPN. , 2020, , .		10
1073	A Progressive Weighted Average Weight Optimisation Ensemble Technique for Fruit and Vegetable Classification. , 2020, , .		5
1074	Control The COVID-19 Pandemic: Face Mask Detection Using Transfer Learning. , 2020, , .		58
1075	Technological Review on Integrating Image Processing, Augmented Reality and Speech Recognition for Enhancing Visual Representations. , 2020, , .		2
1076	Data Augmentation on Defect Detection of Sanitary Ceramics. , 2020, , .		10
1077	A Survey of Transfer Learning in Breast Cancer Image Classification. , 2020, , .		4

#	Article	IF	CITATIONS
1078	Reducing Overfitting and Improving Generalization in Training Convolutional Neural Network (CNN) under Limited Sample Sizes in Image Recognition. , 2020, , .		22
1079	Exploiting Multi-Layer Grid Maps for Surround-View Semantic Segmentation of Sparse LiDAR Data. , 2020, , .		10
1080	Estimation of Water Coverage Ratio in Low Temperature PEM-Fuel Cell Using Deep Neural Network. IEEE Sensors Journal, 2020, 20, 10679-10686.	2.4	13
1081	More Is Better: Data Augmentation for Channel-Resilient RF Fingerprinting. IEEE Communications Magazine, 2020, 58, 66-72.	4.9	51
1082	Automatic Segmentation of Pneumothorax in Chest Radiographs Based on a Two-Stage Deep Learning Method. IEEE Transactions on Cognitive and Developmental Systems, 2022, 14, 205-218.	2.6	15
1083	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
1084	RF Fingerprinting Unmanned Aerial Vehicles With Non-Standard Transmitter Waveforms. IEEE Transactions on Vehicular Technology, 2020, 69, 15518-15531.	3.9	44
1085	Automatic detection and characterization of quantitative phase images of thalassemic red blood cells using a mask region-based convolutional neural network. Journal of Biomedical Optics, 2020, 25, .	1.4	16
1086	Automated classification of coronary plaque calcification in OCT pullbacks with 3D deep neural networks. Journal of Biomedical Optics, 2020, 25, .	1.4	11
1087	FiDo: Ubiquitous Fine-Grained WiFi-based Localization for Unlabelled Users via Domain Adaptation. , 2020, , .		38
1088	Balancing Reinforcement Learning Training Experiences in Interactive Information Retrieval., 2020,,.		6
1089	Research challenges in deep reinforcement learning-based join query optimization. , 2020, , .		10
1090	Car Damage Detection and Classification. , 2020, , .		24
1091	Computer Vision-based Methodology to Improve Interaction for People with Motor and Speech Impairment. ACM Transactions on Accessible Computing, 2020, 13, 1-33.	1.9	11
1092	IMUTube. , 2020, 4, 1-29.		74
1093	Detection of Epileptic Seizure Using Pretrained Deep Convolutional Neural Network and Transfer Learning. European Neurology, 2020, 83, 602-614.	0.6	107
1094	Data augmentation using CycleGAN for overcoming the imbalance problem in petrophysical facies classification. , 2020, , .		12
1095	Delimiting cryptic morphological variation among human malaria vector species using convolutional neural networks. PLoS Neglected Tropical Diseases, 2020, 14, e0008904.	1.3	19

#	Article	IF	CITATIONS
1096	Automated classification of bacterial cell sub-populations with convolutional neural networks. PLoS ONE, 2020, 15, e0241200.	1.1	12
1097	Real-time plant health assessment via implementing cloud-based scalable transfer learning on AWS DeepLens. PLoS ONE, 2020, 15, e0243243.	1.1	21
1098	Data Augmentation using Adversarial Networks for Tea Diseases Detection. Jurnal Elektronika Dan Telekomunikasi, 2020, 20, 29.	0.6	5
1099	Deep Learning in Medical Imaging. Neurospine, 2019, 16, 657-668.	1.1	186
1100	Spatial Pyramid Pooling in Deep Convolutional Networks for Automatic Tuberculosis Diagnosis. Traitement Du Signal, 2020, 37, 1075-1084.	0.8	25
1101	HateGAN: Adversarial Generative-Based Data Augmentation for Hate Speech Detection. , 2020, , .		18
1102	Linking ADHD and Behavioral Assessment Through Identification of Shared Diagnostic Task-Based Functional Connections. Frontiers in Physiology, 2020, $11,583005$.	1.3	11
1103	Geometric Morphometric Data Augmentation Using Generative Computational Learning Algorithms. Applied Sciences (Switzerland), 2020, 10, 9133.	1.3	7
1104	Evaluating GAN-Based Image Augmentation for Threat Detection in Large-Scale Xray Security Images. Applied Sciences (Switzerland), 2021, 11, 36.	1.3	18
1105	Evaluation of Deep Convolutional Generative Adversarial Networks for Data Augmentation of Chest X-ray Images. Future Internet, 2021, 13, 8.	2.4	35
1106	Data Augmentation Using Adversarial Image-to-Image Translation for the Segmentation of Mobile-Acquired Dermatological Images. Journal of Imaging, 2021, 7, 2.	1.7	6
1107	Open-Source Federated Learning Frameworks for IoT: A Comparative Review and Analysis. Sensors, 2021, 21, 167.	2.1	64
1108	TasselGAN: An Application of the Generative Adversarial Model for Creating Field-Based Maize Tassel Data. Plant Phenomics, 2020, 2020, 8309605.	2.5	13
1109	An Evaluation of VGG16 Binary Classifier Deep Neural Network for Noise and Blur Corrupted Images. Sakarya University Journal of Computer and Information Sciences, 0, , .	0.6	2
1110	Detection and annotation of plant organs from digitised herbarium scans using deep learning. Biodiversity Data Journal, 2020, 8, e57090.	0.4	20
1111	Brain tumor classification in MRI image using convolutional neural network. Mathematical Biosciences and Engineering, 2020, 17, 6203-6216.	1.0	179
1112	Deep Learning-Based Models for Porosity Measurement in Thermal Barrier Coating Images. International Journal of Multimedia Data Engineering and Management, 2020, 11, 20-35.	0.3	5
1113	CoronaNet: A Novel Deep Learning Model for COVID-19 Detection in CT Scans. Journal of Student Research, 2020, 9, .	0.0	7

#	Article	IF	CITATIONS
1114	COVID-19 Detection from X-ray Images Using Different Artificial Intelligence Hybrid Models. Jordan Journal of Electrical Engineering, 2020, 6, 168.	0.2	47
1115	Convolutional Neural Network Technology in Endoscopic Imaging: Artificial Intelligence for Endoscopy. Clinical Endoscopy, 2020, 53, 117-126.	0.6	41
1116	Flexible Data Augmentation in Off-Policy Reinforcement Learning. Lecture Notes in Computer Science, 2021, , 224-235.	1.0	0
1117	A Review on Modern Computational Optimal Transport Methods with Applications in Biomedical Research. Emerging Topics in Statistics and Biostatistics, 2021, , 279-300.	0.1	7
1118	Distribution-Preserving-Based Automatic Data Augmentation for Deep Image Steganalysis. IEEE Transactions on Multimedia, 2022, 24, 4538-4550.	5.2	6
1119	A Survey on Automatic Inspections of Overhead Contact Lines by Computer Vision. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 10104-10125.	4.7	12
1120	Bi-Modal Transfer Learning for Classifying Breast Cancers via Combined B-Mode and Ultrasound Strain Imaging. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2022, 69, 222-232.	1.7	22
1121	ProbRobScene: A Probabilistic Specification Language for 3D Robotic Manipulation Environments., 2021,,.		4
1122	Automatic Hyper-Parameter Tuning for Black-box LiDAR Odometry. , 2021, , .		2
1123	Using depth information and colour space variations for improving outdoor robustness for instance segmentation of cabbage. , 2021, , .		6
1124	Grasping with Chopsticks: Combating Covariate Shift in Model-free Imitation Learning for Fine Manipulation. , 2021, , .		8
1125	Fundus images classification for Diabetic Retinopathy using Deep Learning. , 2021, , .		4
1126	Improving EEG-based Alzheimer's Disease Identification with Generative Adversarial Learning. , 2021, , .		2
1127	Building Footprint Extraction Using Deep Learning Semantic Segmentation Techniques: Experiments and Results., 2021,,.		4
1128	LULC Image Classification with Convolutional Neural Network., 2021,,.		2
1129	In-Sat: A Novel Land Cover Classification Dataset for Indian Subcontinent., 2021,,.		0
1130	Deep Neural Networks for Semantic Segmentation of Lung Nodules. , 2021, , .		1
1131	A Multi-Model Fusion of Convolution Neural Network and Random Forest for Detecting Settlements Without Electricity., 2021,,.		4

#	Article	IF	CITATIONS
1132	A Review and Analysis of the Bot-IoT Dataset. , 2021, , .		25
1133	Improved Transfer Learning Architecture to Classify Covid-19 Affected Chest X-Rays using Noisy Student Pre-training., 2021,,.		O
1134	Soft Sensing Methods for the Generation of Plausible Traffic Data in Sensor-less Locations. , 2021, , .		1
1135	Application of AlexNet convolutional neural network architecture-based transfer learning for automated recognition of casting surface defects., 2021,,.		9
1136	Harflerden OluÅŸan GeniÅŸletilmiÅŸ MNİST Veri KÃ⅓mesinin Derin Öğrenme Tabanlı Tasarlanmış Sinir Æ Sınıflandırılması. Northwestern Medical Journal, 2021, 36, 681-690.	√ğı Mo	deli ile
1137	Dikkat ModÃ⅓lleri ile OluÅŸturulmuÅŸ Derin Öğrenme Modelini Kullanarak Pamuk Hastalığının Tespiti. Northwestern Medical Journal, 2021, 36, 659-668.	0.0	0
1138	Automating the Process of Distinguishing Marketable Apples. , 2021, , .		1
1139	A Study of Semi Supervised based approaches for Motor Imagery Signal Generation., 2021,,.		1
1140	An Instance Segmentation Model for Strawberry Diseases Based on Mask R-CNN. Sensors, 2021, 21, 6565.	2.1	37
1141	DAuGAN: An Approach for Augmenting Time Series Imbalanced Datasets via Latent Space Sampling Using Adversarial Techniques. Scientific Programming, 2021, 2021, 1-13.	0.5	0
1142	Using a two-stage convolutional neural network to rapidly identify tiny herbivorous beetles in the field. Ecological Informatics, 2021, 66, 101466.	2.3	14
1143	Improving accuracy of automatic optical inspection with machine learning. Frontiers of Computer Science, 2022, $16,1.$	1.6	4
1144	Multi-Mineral Segmentation of SEM Images Using Deep Learning Techniques. , 2021, , .		1
1145	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
1146	Microstructure property classification of nickel-based superalloys using deep learning. Modelling and Simulation in Materials Science and Engineering, 2022, 30, 025009.	0.8	2
1147	Towards ML-Based Diagnostics of Laser–Plasma Interactions. Sensors, 2021, 21, 6982.	2.1	3
1148	Deep learning-based segmentation of lithium-ion battery microstructures enhanced by artificially generated electrodes. Nature Communications, 2021, 12, 6205.	5.8	44
1149	A Comparative Study on Augmented Analytics Using Deep Learning Techniques. Smart Innovation, Systems and Technologies, 2022, , 135-142.	0.5	2

#	Article	IF	CITATIONS
1150	Differentiable biology: using deep learning for biophysics-based and data-driven modeling of molecular mechanisms. Nature Methods, 2021, 18, 1169-1180.	9.0	44
1151	Optimizing Few-Shot Learning Based on Variational Autoencoders. Entropy, 2021, 23, 1390.	1.1	4
1152	A Proposed Framework for Machine Learning-Aided Triage in Public Specialty Ophthalmology Clinics in Hong Kong. Ophthalmology and Therapy, 2021, 10, 703-713.	1.0	2
1153	Object Detection Method for Grasping Robot Based on Improved YOLOv5. Micromachines, 2021, 12, 1273.	1.4	45
1154	Machine Learning Data Augmentation as a Tool to Enhance Quantitative Composition–Activity Relationships of Complex Mixtures. A New Application to Dissect the Role of Main Chemical Components in Bioactive Essential Oils. Molecules, 2021, 26, 6279.	1.7	3
1155	Confidence Prediction Driven Iterative Data Annotation. Lecture Notes in Networks and Systems, 2022, , 859-868.	0.5	0
1156	Full-view in vivo skin and blood vessels profile segmentation in photoacoustic imaging based on deep learning. Photoacoustics, 2022, 25, 100310.	4.4	15
1157	Deep Learning-Based Classification of Pancreatic Adenocarcinoma from Fine Needle Aspiration/Biopsy Microscopic Images. Lecture Notes in Networks and Systems, 2022, , 457-464.	0.5	0
1158	From Fully Physical to Virtual Sensing for Water Quality Assessment: A Comprehensive Review of the Relevant State-of-the-Art. Sensors, 2021, 21, 6971.	2.1	35
1159	Model Specialization for the Use of ESRGAN on Satellite and Airborne Imagery. Remote Sensing, 2021, 13, 4044.	1.8	4
1160	A versatile approach based on convolutional neural networks for early identification of diseases in tomato plants. International Journal of Wavelets, Multiresolution and Information Processing, 2022, 20, .	0.9	1
1161	A deep learning training method of water identification based on the Third National Land Survey data. , 2021, , .		0
1162	High-Occupancy Vehicle Lane Enforcement System. Open Transportation Journal, 2021, 15, 194-200.	0.4	0
1163	Empirical Analysis of Deep Convolutional Generative Adversarial Network for Ultrasound Image Synthesis. Open Biomedical Engineering Journal, 2021, 15, 71-77.	0.7	2
1164	The Prediction of Chlorophyll Content in African Leaves (Vernonia amygdalina Del.) Using Flatbed Scanner and Optimised Artificial Neural Network. Pertanika Journal of Science and Technology, 2021, 29, .	0.3	4
1165	Deep Learning-Based Computer-Aided Detection System for Automated Treatment Response Assessment of Brain Metastases on 3D MRI. Frontiers in Oncology, 2021, 11, 739639.	1.3	11
1166	Imageâ€based shading correction for narrowâ€FOV truncated pelvic CBCT with deep convolutional neural networks and transfer learning. Medical Physics, 2021, 48, 7112-7126.	1.6	13
1167	Coupling complementary strategy to flexible graph neural network for quick discovery of coformer in diverse co-crystal materials. Nature Communications, 2021, 12, 5950.	5.8	37

#	Article	IF	CITATIONS
1168	Rbot: development of a robot-driven radio base station maintenance system. International Journal of Intelligent Robotics and Applications, 2022, 6, 270-287.	1.6	1
1169	Training Strategies for Radiology Deep Learning Models in Data-limited Scenarios. Radiology: Artificial Intelligence, 2021, 3, e210014.	3.0	35
1170	Deep Learning Enables Discovery of a Short Nuclear Targeting Peptide for Efficient Delivery of Antisense Oligomers. Jacs Au, 2021, 1, 2009-2020.	3.6	17
1171	Medical Augmentation (Med-Aug) for Optimal Data Augmentation in Medical Deep Learning Networks. Sensors, 2021, 21, 7018.	2.1	5
1172	DisasterGAN: Generative Adversarial Networks for Remote Sensing Disaster Image Generation. Remote Sensing, 2021, 13, 4284.	1.8	13
1173	Lineâ€field confocal optical coherence tomography as a tool for threeâ€dimensional in vivo quantification of healthy epidermis: A pilot study. Journal of Biophotonics, 2022, 15, e202100236.	1.1	15
1174	Mitigating Generation Shifts for Generalized Zero-Shot Learning. , 2021, , .		12
1175	Avoiding a replication crisis in deep-learning-based bioimage analysis. Nature Methods, 2021, 18, 1136-1144.	9.0	56
1176	Programming with neural surrogates of programs. , 2021, , .		1
1177	Keyword Detection Based on RetinaNet and Transfer Learning for Personal Information Protection in Document Images. Applied Sciences (Switzerland), 2021, 11, 9528.	1.3	4
1178	Novel Application of Long Short-Term Memory Network for 3D to 2D Retinal Vessel Segmentation in Adaptive Opticsâ€"Optical Coherence Tomography Volumes. Applied Sciences (Switzerland), 2021, 11, 9475.	1.3	4
1179	Visual classification of apple bud-types via attention-guided data enrichment network. Computers and Electronics in Agriculture, 2021, 191, 106504.	3.7	9
1180	Classification and detection of insects from field images using deep learning for smart pest management: A systematic review. Ecological Informatics, 2021, 66, 101460.	2.3	55
1181	DeepCapture: Image Spam Detection Using Deep Learning and Data Augmentation. Lecture Notes in Computer Science, 2020, , 461-475.	1.0	7
1183	Divide to Better Classify. Lecture Notes in Computer Science, 2020, , 89-99.	1.0	1
1184	A Survey of End-to-End Driving: Architectures and Training Methods. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 1364-1384.	7.2	70
1185	Self-Competitive Neural Networks. Lecture Notes in Computer Science, 2020, , 15-26.	1.0	0
1186	Deep CNN Based Classification of the Archimedes Spiral Drawing Tests to Support Diagnostics of the Parkinson's Disease. IFAC-PapersOnLine, 2020, 53, 260-264.	0.5	11

#	Article	IF	CITATIONS
1187	Variational Hierarchical Dialog Autoencoder for Dialog State Tracking Data Augmentation. , 2020, , .		8
1188	Feature Preserving Smoothing Provides Simple and Effective Data Augmentation for Medical Image Segmentation. Lecture Notes in Computer Science, 2020, , 116-126.	1.0	4
1189	The Detection of COVID-19 in CT Medical Images: A Deep Learning Approach. Studies in Big Data, 2020, , 73-90.	0.8	12
1190	Fast and Robust Building Extraction Based on HSV Color Analysis Using Color Segmentation and GrabCut. SICE Journal of Control Measurement and System Integration, 2020, 13, 97-106.	0.4	2
1191	Empirical Evaluation of the Effectiveness of Variational Autoencoders on Data Augmentation for the Image Classification Problem. International Journal of Intelligent Systems and Applications in Engineering, 2020, 8, 116-120.	1.0	O
1192	Deblurring of Images and Barcode Extraction of PV Modules using Supervised Machine learning for Plant Operation and Maintenance. , 2020, , .		0
1193	Identificação de ComposiçÃμes da Paisagem Urbana. Revista De Morfologia Urbana, 2020, 8, e00140.	0.1	0
1194	RGB Images Driven Recognition of Grapevine Varieties. Advances in Intelligent Systems and Computing, 2021, , 216-225.	0.5	1
1195	Chest Pathology Detection in X-Ray Scans Using Social Spider Optimization Algorithm with Generalization Deep Learning. , 2020, , .		2
1196	DEEP DOMAIN ADAPTATION BY WEIGHTED ENTROPY MINIMIZATION FOR THE CLASSIFICATION OF AERIAL IMAGES. ISPRS Annals of the Photogrammetry, Remote Sensing and Spatial Information Sciences, 0, V-2-2020, 591-598.	0.0	2
1197	SIMULATION-BASED DATA AUGMENTATION USING PHYSICAL PRIORS FOR NOISE FILTERING DEEP NEURAL NETWORK. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLIII-B2-2020, 247-254.	0.2	0
1198	Image-Enhancement-Based Data Augmentation for Improving Deep Learning in Image Classification Problem. , 2020, , .		5
1199	Brain Tumor Detection in MRI Images Using Image Processing Techniques., 2021,,.		6
1200	Impact of Lung Segmentation on the Diagnosis and Explanation of COVID-19 in Chest X-ray Images. Sensors, 2021, 21, 7116.	2.1	89
1201	An Analysis of One-Shot Augmented Learning: A Face Recognition Case Study. Advances in Intelligent Systems and Computing, 2022, , 55-65.	0.5	1
1202	A CNN-based methodology for cow heat analysis from endoscopic images. Applied Intelligence, 2022, 52, 8372-8385.	3.3	1
1203	2D MRI image analysis and brain tumor detection using deep learning CNN model LeU-Net. Multimedia Tools and Applications, 2021, 80, 36111-36141.	2.6	31
1204	Improving forest detection with machine learning in remote sensing data. Remote Sensing Applications: Society and Environment, 2021, 24, 100654.	0.8	1

#	Article	IF	CITATIONS
1205	Influence-guided Data Augmentation for Neural Tensor Completion., 2021,,.		3
1206	Deep learning to detect built cultural heritage from satellite imageryÂSpatial distribution and size of vernacular houses in Sumba, Indonesia Journal of Cultural Heritage, 2021, 52, 171-183.	1.5	17
1207	Towards building robust DNN applications. , 2020, , .		4
1208	Detection of Cardiac Arrhythmias From Varied Length Multichannel Electrocardiogram Recordings Using Deep Convolutional Neural Networks. , 0, , .		0
1209	Evaluation of autoencoder for CBIR system in deep learning. , 2020, , .		1
1210	Steel Surface Defect Detection Using Transfer Learning and Image Segmentation. , 2020, , .		4
1211	Artificial Intelligence based identification of Total Knee Arthroplasty Implants. , 2020, , .		4
1212	TSV Extrusion Morphology Classification Using Deep Convolutional Neural Networks. , 2020, , .		1
1213	A Survey on Deep Convolutional Generative Adversarial Neural Network (DCGAN) for Detection of Covid-19 using Chest X-ray/CT-Scan., 2020,,.		5
1214	Multi-Stage CNN-Based Monocular 3D Vehicle Localization and Orientation Estimation. , 2020, , .		2
1215	Using Image Augmentation in Marketing. , 2020, , .		0
1216	Assessment of Data Augmentation Techniques for Firearm Detection in Surveillance Videos., 2020,,.		3
1217	A Dynamic Group Equivariant Convolutional Networks for Medical Image Analysis., 2020,,.		5
1218	Automatic annotation of pedestrians in thermal images using background/foreground segmentation for training deep neural networks. , 2020, , .		0
1219	Learning to detect the onset of slow activity after a generalized tonic–clonic seizure. BMC Medical Informatics and Decision Making, 2020, 20, 330.	1.5	2
1220	Data Augmentation with Generative Adversarial Networks for Grocery Product Image Recognition. , 2020, , .		0
1221	Deep Neural Networks for Automatic Classification of Knee Osteoarthritis Severity Based on X-ray Images. , 2020, , .		7
1222	Evaluation of CNN Models with Transfer Learning for Recognition of Sign Language Alphabets with Complex Background., 2020,,.		2

#	Article	IF	Citations
1223	Simplifying the Supervised Learning of Kerr Nonlinearity Compensation Algorithms by Data Augmentation. , 2020, , .		0
1224	An Efficient Deep Learning Model for Predicting Alzheimer's Disease Diagnosis by Using Pet., 2020, , .		0
1225	Cardiac Abnormality Detection in 12-lead ECGs with Deep Convolutional Neural Networks Using Data Augmentation. , 0, , .		2
1226	Development of Artificial Intelligence to Classify Quality of Transmission Shift Control Using Deep Convolutional Neural Networks. IEEE Transactions on Vehicular Technology, 2020, 69, 16168-16172.	3.9	4
1227	Convolutional Neural Network Based Image Classification And New Class Detection. , 2020, , .		7
1228	Mono is Enough: Instance Segmentation from Single Annotated Sample. , 2020, , .		0
1229	Brain Tumor Classification & Segmentation by Using Advanced DNN, CNN & ResNet-50 Neural Networks. International Journal of Circuits, Systems and Signal Processing, 2020, 14, 1011-1029.	0.2	0
1231	Microscopic Image Augmentation Using an Enhanced WGAN. , 2020, , .		1
1232	Evolutionary Algorithm Driven Explainable Adversarial Artificial Intelligence. , 2020, , .		2
1233	Evaluating Deep and Statistical Machine Learning Models in the Classification of Breast Cancer from Digital Mammograms. International Journal of Advanced Computer Science and Applications, 2021, 12, .	0.5	4
1234	Data Augmentation with 3DCG Models for Nuisance Wildlife Detection using a Convolutional Neural Network., 2021,,.		0
1235	Machine learning astrophysics from 21Âcm lightcones: impact of network architectures and signal contamination. Monthly Notices of the Royal Astronomical Society, 2021, 509, 3852-3867.	1.6	22
1236	A Sensitivity-Based Data Augmentation Framework for Model Predictive Control Policy Approximation. IEEE Transactions on Automatic Control, 2022, 67, 6090-6097.	3.6	3
1237	Using a multi-head, convolutional neural network with data augmentation to improve electropherogram classification performance. Forensic Science International: Genetics, 2022, 56, 102605.	1.6	5
1238	MudrockNet: Semantic segmentation of mudrock SEM images through deep learning. Computers and Geosciences, 2022, 158, 104952.	2.0	18
1239	C-Net: A reliable convolutional neural network for biomedical image classification. Expert Systems With Applications, 2022, 187, 116003.	4.4	26
1240	Robust Multi-User In-Hand Object Recognition in Human-Robot Collaboration Using a Wearable Force-Myography Device. IEEE Robotics and Automation Letters, 2022, 7, 104-111.	3.3	5
1241	Sperm morphology analysis by using the fusion of two-stage fine-tuned deep networks. Biomedical Signal Processing and Control, 2022, 71, 103246.	3.5	7

#	Article	IF	CITATIONS
1242	Efficient machine learning approach for volunteer eye-blink detection in real-time using webcam. Expert Systems With Applications, 2022, 188, 116073.	4.4	14
1243	Fruit quality and defect image classification with conditional GAN data augmentation. Scientia Horticulturae, 2022, 293, 110684.	1.7	53
1244	Semi-supervised Active Salient Object Detection. Pattern Recognition, 2022, 123, 108364.	5.1	13
1245	Low-Resource Language Discrimination toward Chinese Dialects with Transfer Learning and Data Augmentation. ACM Transactions on Asian and Low-Resource Language Information Processing, 2022, 21, 1-21.	1.3	1
1246	Weight-Sharing Neural Architecture Search: A Battle to Shrink the Optimization Gap. ACM Computing Surveys, 2022, 54, 1-37.	16.1	32
1247	Automated estimation of chronological age from panoramic dental X-ray images using deep learning. Expert Systems With Applications, 2022, 189, 116038.	4.4	35
1249	Poriferal Vision: Classifying Benthic Sponge Spicules to Assess Historical Impacts of Marine Climate Change. Lecture Notes in Computer Science, 2020, , 205-213.	1.0	0
1250	CSC-GAN: Cycle and Semantic Consistency for Dataset Augmentation. Lecture Notes in Computer Science, 2020, , 170-181.	1.0	2
1251	Deep Complementary Joint Model for Complex Scene Registration and Few-Shot Segmentation on Medical Images. Lecture Notes in Computer Science, 2020, , 770-786.	1.0	13
1252	Deep Learning Approach to Extract Geometric Features of Bacterial Cells in Biofilms. Transactions on Computational Science and Computational Intelligence, 2021, , 359-368.	0.3	2
1253	Complementary Systems for Off-Topic Spoken Response Detection. , 2020, , .		2
1254	Quantifying the Evaluation of Heuristic Methods for Textual Data Augmentation. , 2020, , .		5
1255	To Augment or Not to Augment? Data Augmentation in User Identification Based on Motion Sensors. Communications in Computer and Information Science, 2020, , 822-831.	0.4	2
1256	Data Augmentation Techniques for the Video Question Answering Task. Lecture Notes in Computer Science, 2020, , 511-525.	1.0	1
1257	AdaBoosted Deep Ensembles: Getting Maximum Performance Out of Small Training Datasets. Lecture Notes in Computer Science, 2020, , 572-582.	1.0	2
1258	Data Augmentation for Training Dialog Models Robust to Speech Recognition Errors. , 2020, , .		8
1259	Rice Leaf Diseases Recognition Using Convolutional Neural Networks. Lecture Notes in Computer Science, 2020, , 299-314.	1.0	11
1260	Textual Data Augmentation for Efficient Active Learning on Tiny Datasets. , 2020, , .		15

#	Article	IF	Citations
1261	Generation of geometric interpolations of building types with deep variational autoencoders. Design Science, 2020, 6, .	1.1	5
1262	Data Augmentation with Transformers for Text Classification. Lecture Notes in Computer Science, 2020, , 247-259.	1.0	1
1263	Melanoma Skin Cancer Classification Using Transfer Learning. Communications in Computer and Information Science, 2020, , 287-297.	0.4	4
1264	A little goes a long way: Improving toxic language classification despite data scarcity. , 2020, , .		4
1265	What Does CNN Shift Invariance Look Like? A Visualization Study. Lecture Notes in Computer Science, 2020, , 196-210.	1.0	4
1266	AlexU-BackTranslation-TL at SemEval-2020 Task 12: Improving Offensive Language Detection Using Data Augmentation and Transfer Learning. , 2020, , .		7
1268	A Convolutional Neural Network for Lentigo Diagnosis. Lecture Notes in Computer Science, 2020, , 89-99.	1.0	5
1269	BiAttnNet: Bilateral Attention for Improving Real-Time Semantic Segmentation. IEEE Signal Processing Letters, 2022, 29, 46-50.	2.1	10
1270	Humble Teachers Teach Better Students for Semi-Supervised Object Detection., 2021,,.		70
1271	SelfAugment: Automatic Augmentation Policies for Self-Supervised Learning. , 2021, , .		17
1272	Long-Tailed Multi-Label Visual Recognition by Collaborative Training on Uniform and Re-balanced Samplings. , 2021, , .		35
1273	3D Human Action Representation Learning via Cross-View Consistency Pursuit., 2021,,.		74
1274	CNN-based MRI Brain Tumor Detection Application. , 2021, , .		2
1275	LiDAR-Aug: A General Rendering-based Augmentation Framework for 3D Object Detection. , 2021, , .		22
1276	Simple Copy-Paste is a Strong Data Augmentation Method for Instance Segmentation. , 2021, , .		394
1277	Derin \tilde{A} 9ÄŸrenme y \tilde{A} 9ntemleri ile dokunsal parke y \tilde{A} 1/4zeyi tespiti. Journal of the Faculty of Engineering and Architecture of Gazi University, 2020, 35, 1685-1700.	0.3	16
1278	Impact of Mixup Hyperparameter Tunning on Deep Learning-based Systems for Acoustic Scene Classification. , 2021, , .		4
1279	Automated recognition of facial expressions and gender in humans implemented on mobile devices., 2021,,.		0

#	Article	IF	CITATIONS
1280	High Voltage Insulators Condition Analysis using Convolutional Neural Network., 2021,,.		3
1281	Learning the Use of Artificial Intelligence in Heterogeneous Catalysis. Frontiers in Chemical Engineering, 2021, 3, .	1.3	2
1282	Generalization techniques of neural networks for fluid flow estimation. Neural Computing and Applications, 2022, 34, 3647-3669.	3.2	36
1283	Fast-bonito: A faster deep learning based basecaller for nanopore sequencing. Artificial Intelligence in the Life Sciences, 2021, 1, 100011.	1.6	7
1284	Deep Neural Networks to Detect Weeds from Crops in Agricultural Environments in Real-Time: A Review. Remote Sensing, 2021, 13, 4486.	1.8	31
1285	A deep learning approach using effective preprocessing techniques to detect COVID-19 from chest CT-scan and X-ray images. Computers in Biology and Medicine, 2021, 139, 105014.	3.9	56
1286	Ten simple rules for reporting machine learning methods implementation and evaluation on biomedical data. International Journal of Imaging Systems and Technology, 2022, 32, 5-11.	2.7	10
1287	Cognitive name-face association through context-aware Graph Neural Network. Neural Computing and Applications, 0 , 0 , 1 .	3.2	1
1288	Deep learningâ€based ultrasonic dynamic video detection and segmentation of thyroid gland and its surrounding cervical soft tissues. Medical Physics, 2022, 49, 382-392.	1.6	8
1289	Application of Machine Learning to Detect Neuroticism in Individuals Using Handwriting Analysis. Lecture Notes in Electrical Engineering, 2022, , 521-531.	0.3	0
1290	Automated feature-specific tree species identification from natural images using deep semi-supervised learning. Ecological Informatics, 2021, 66, 101475.	2.3	6
1291	DIAROP: Automated Deep Learning-Based Diagnostic Tool for Retinopathy of Prematurity. Diagnostics, 2021, 11, 2034.	1.3	33
1292	Longitudinal Analysis of Brain-Predicted Age in Amnestic and Non-amnestic Sporadic Early-Onset Alzheimer's Disease. Frontiers in Aging Neuroscience, 2021, 13, 729635.	1.7	7
1293	CovidSORT: Detection of Novel COVID-19 in Chest X-ray Images by Leveraging Deep Transfer Learning Models. Lecture Notes in Electrical Engineering, 2022, , 431-447.	0.3	6
1295	Detection of Exceptional Malware Variants Using Deep Boosted Feature Spaces and Machine Learning. Applied Sciences (Switzerland), 2021, 11, 10464.	1.3	15
1296	Synthetic image dataset of shaft junctions inside wind turbines in presence or absence of oil leaks. Data in Brief, 2021, 39, 107538.	0.5	1
1297	Defect Classification of Cross-section of Additive Manufacturing Using Image-Labeling. Journal of the Korean Society of Manufacturing Process Engineers, 2020, 19, 7-15.	0.1	2
1298	A Study on the Parking Point Searching for Wireless Charging of Electric Vehicles. Transactions of the Korean Society of Automotive Engineers, 2020, 28, 483-489.	0.1	4

#	Article	IF	CITATIONS
1299	Two step convolutional neural network for automatic glottis localization and segmentation in stroboscopic videos. Biomedical Optics Express, 2020, 11, 4695.	1.5	3
1300	Compilation of training datasets for use of convolutional neural networks supporting automatic inspection processes in industry 4.0 based electronic manufacturing. Journal of Sensors and Sensor Systems, 2020, 9, 167-178.	0.6	9
1301	Inspector gadget. Proceedings of the VLDB Endowment, 2020, 14, 28-36.	2.1	5
1302	Medical Image Synthetic Data Augmentation Using GAN., 2020,,.		9
1303	Sanitizing Synthetic Training Data Generation for Question Answering over Knowledge Graphs. , 2020, , .		6
1304	SSNOMBACTER: A collection of scattering-type scanning near-field optical microscopy and atomic force microscopy images of bacterial cells. GigaScience, 2020, 9, .	3.3	11
1306	Convolutional Neural Network Strategy for Skin Cancer Lesions Classifications and Detections. , 2020, , .		6
1307	Adaptable and divergent synthetic benchmark generation for hardware security. , 2020, , .		5
1308	Data Augmentation for improving Hate Speech Detection on Social Networks. , 2020, , .		0
1309	COVID19 Chest X-Ray Classification with Simple Convolutional Neural Network. , 2020, , .		3
1310	Mixed Intrusion Events Recognition Based on Group Convolutional Neural Networks in DAS System. IEEE Sensors Journal, 2022, 22, 678-684.	2.4	11
1311	The Unreasonable Effectiveness of the Final Batch Normalization Layer. Lecture Notes in Computer Science, 2021, , 81-93.	1.0	0
1312	A 3-D Storm Motion Estimation Method Based on Point Cloud Learning and Doppler Weather Radar Data. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-15.	2.7	0
1313	Deep Neural Networks to Detect Weeds from Crops in Agricultural Environments in Real-Time: A Review. SSRN Electronic Journal, 0, , .	0.4	10
1315	The Outcome of the 2021 IEEE GRSS Data Fusion Contest - Track DSE: Detection of Settlements Without Electricity. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 12375-12385.	2.3	8
1316	Semi-automatic calculation of joint trace length from digital images based on deep learning and data structuring techniques. International Journal of Rock Mechanics and Minings Sciences, 2022, 149, 104981.	2.6	11
1317	Machine learning for metal additive manufacturing: Towards a physics-informed data-driven paradigm. Journal of Manufacturing Systems, 2022, 62, 145-163.	7.6	77
1318	Learning an augmentation strategy for sparse datasets. Image and Vision Computing, 2022, 117, 104338.	2.7	5

#	Article	IF	CITATIONS
1319	Identification of spatiotemporal dispersion electrograms in atrial fibrillation ablation using machine learning: A comparative study. Biomedical Signal Processing and Control, 2022, 72, 103269.	3.5	0
1320	A convolutional neural network-based diagnostic method using resting-state electroencephalograph signals for major depressive and bipolar disorders. Biomedical Signal Processing and Control, 2022, 72, 103370.	3.5	14
1321	Multi-sensor information fusion based on machine learning for real applications in human activity recognition: State-of-the-art and research challenges. Information Fusion, 2022, 80, 241-265.	11.7	264
1322	A comprehensive survey on regularization strategies in machine learning. Information Fusion, 2022, 80, 146-166.	11.7	56
1323	Hand Gesture Recognition in Complex Background Based on improved Deep Residual Learning network. , 2021, , .		0
1324	Improving the Generalization Capability of DNNs for Ultra-low Power Autonomous Nano-UAVs. , 2021, , .		1
1325	Plum: Exploration and Prioritization of Model Repair Strategies for Fixing Deep Learning Models â€. , 2021, , .		0
1326	Neural-based Visual Odometry Trained in a Virtual Enviroment for a Mobile Robot Navigation. , 2021, , .		1
1327	The Application of Data Imputation and Deep Learning Network in the Papillary Thyroid Carcinoma Classification., 2021,,.		0
1328	Anal Center Detection with Superpixel Segmentation. , 2021, , .		0
1329	Image Data Augmentation techniques for Deep Learning -A Mirror Review., 2021,,.		4
1330	Fault Detection in Soft-started Induction Motors using Convolutional Neural Network Enhanced by Data Augmentation Techniques. , 2021, , .		5
1331	Optimizing Convolutional Neural Network by Using Genetic Algorithm for COVID-19 Detection in Chest X - Ray Image. , 2021, , .		4
1332	CCTV based Enhanced Public Security Management System for Sri Lanka. International Journal of Computer Applications, 2021, 183, 44-49.	0.2	0
1333	Apple Ripeness Level Detection Based On Skin Color Features With Convolutional Neural Network Classification Method., 2021,,.		3
1334	Automated and Refined Application of Convolutional Neural Network Modeling to Metallic Powder Particle Satellite Detection. Integrating Materials and Manufacturing Innovation, 2021, 10, 661.	1.2	8
1335	Oil spill detection over ocean surface using deep learning: a comparative study. Marine Systems and Ocean Technology, 2021, 16, 213-220.	0.5	7
1336	Computer Vision-Based Detection for Delayed Fracture of Bolts in Steel Bridges. Journal of Sensors, 2021, 2021, 1-12.	0.6	5

#	Article	IF	CITATIONS
1337	Automated Image Segmentation of the Corneal Endothelium in Patients With Fuchs Dystrophy. Translational Vision Science and Technology, 2021, 10, 27.	1.1	14
1338	PneumoniaNet: Automated Detection and Classification of Pediatric Pneumonia Using Chest X-ray Images and CNN Approach. Electronics (Switzerland), 2021, 10, 2949.	1.8	19
1339	LIMU-BERT., 2021,,.		22
1340	Generating training images with different angles by GAN for improving grocery product image recognition. Neurocomputing, 2022, 488, 694-705.	3.5	4
1341	A screening assistance system for cervical cytology of squamous cell atypia based on a twoâ€step combined CNN algorithm with label smoothing. Cancer Medicine, 2022, 11, 520-529.	1.3	13
1342	Hybrid convolution neural network model for a quicker detection of infested maize plants with fall armyworms using UAV-based images. Ecological Informatics, 2022, 67, 101502.	2.3	17
1343	Symbolic DNN-Tuner. Machine Learning, 2022, 111, 625-650.	3.4	2
1344	Quantum-enhanced deep neural network architecture for image scene classification. Quantum Information Processing, 2021, 20, 1.	1.0	7
1345	Intentional deep overfit learning (IDOL): A novel deep learning strategy for adaptive radiation therapy. Medical Physics, 2022, 49, 488-496.	1.6	16
1347	Computer-aided COVID-19 diagnosis and a comparison of deep learners using augmented CXRs. Journal of X-Ray Science and Technology, 2022, 30, 89-109.	0.7	10
1348	Artificial intelligence-based diagnosis of upper gastrointestinal subepithelial lesions on endoscopic ultrasonography images. Gastric Cancer, 2022, 25, 382-391.	2.7	33
1349	Fusion-Based Semantic Segmentation Using Deep Learning Architecture in Case of Very Small Training Dataset. International Journal of Image and Graphics, 0, , .	1.2	0
1350	Enhancement of Multi-Class Structural Defect Recognition Using Generative Adversarial Network. Sustainability, 2021, 13, 12682.	1.6	9
1351	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
1352	Prior-guided GAN-based interactive airplane engine damage image augmentation method. Chinese Journal of Aeronautics, 2022, 35, 222-232.	2.8	1
1353	A Deep Learning Approach to Assist Sustainability of Demersal Trawling Operations. Sustainability, 2021, 13, 12362.	1.6	13
1354	Object detection for automatic cancer cell counting in zebrafish xenografts. PLoS ONE, 2021, 16, e0260609.	1.1	8
1355	A multi-modal personality prediction system. Knowledge-Based Systems, 2022, 236, 107715.	4.0	17

#	Article	IF	Citations
1356	Small facial image dataset augmentation using conditional GANs based on incomplete edge feature input. PeerJ Computer Science, 2021, 7, e760.	2.7	2
1357	Fus2Net: a novel Convolutional Neural Network for classification of benign and malignant breast tumor in ultrasound images. BioMedical Engineering OnLine, 2021, 20, 112.	1.3	13
1358	Comparison of Different Image Data Augmentation Approaches. Journal of Imaging, 2021, 7, 254.	1.7	30
1359	Medical image processing and COVID-19: A literature review and bibliometric analysis. Journal of Infection and Public Health, 2022, 15, 75-93.	1.9	28
1360	Deep learningâ€"a first meta-survey of selected reviews across scientific disciplines, their commonalities, challenges and research impact. PeerJ Computer Science, 2021, 7, e773.	2.7	18
1361	Accurate OSNR monitoring based on data-augmentation-assisted DNN with a small-scale dataset. Optics Letters, 2022, 47, 130.	1.7	6
1362	CCAFFMNet: Dual-spectral semantic segmentation network with channel-coordinate attention feature fusion module. Neurocomputing, 2022, 482, 236-251.	3.5	22
1363	Using a Neural Network Classifier to Select Galaxies with the Most Accurate Photometric Redshifts. Astrophysical Journal, 2021, 922, 153.	1.6	2
1364	Reinforcement Learning for Options Trading. Applied Sciences (Switzerland), 2021, 11, 11208.	1.3	4
1365	The overlapping effect and fusion protocols of data augmentation techniques in iris PAD. Machine Vision and Applications, 2022, 33, 1.	1.7	6
1366	A maChine and deep Learning Approach to predict pulmoNary hyperteNsIon in newbornS with congenital diaphragmatic Hernia (CLANNISH): Protocol for a retrospective study. PLoS ONE, 2021, 16, e0259724.	1.1	13
1367	Recognition of orbital-angular-momentum modes with different topological charges and their unknown superpositions via machine learning. Physical Review A, 2021, 104, .	1.0	12
1368	Multi-operator feature enhancement methods for industrial defect detection. Journal of Physics: Conference Series, 2021, 2078, 012030.	0.3	1
1369	The Machine Learning Life Cycle in Chemical Operations – Status and Open Challenges. Chemie-Ingenieur-Technik, 2021, 93, 2063-2080.	0.4	15
1370	TABAS: Text augmentation based on attention score for text classification model. ICT Express, 2022, 8, 549-554.	3.3	2
1371	Hierarchyâ€guided neural network for species classification. Methods in Ecology and Evolution, 2022, 13, 642-652.	2.2	3
1372	Seismic savanna: machine learning for classifying wildlife and behaviours using groundâ€based vibration field recordings. Remote Sensing in Ecology and Conservation, 2022, 8, 236-250.	2.2	8
1373	Evolving Deep Architecture Generation with Residual Connections for Image Classification Using Particle Swarm Optimization. Sensors, 2021, 21, 7936.	2.1	13

#	Article	IF	CITATIONS
1374	Artificial intelligence in the embryology laboratory: a review. Reproductive BioMedicine Online, 2022, 44, 435-448.	1.1	39
1375	Impact of data augmentation on supervised learning for a moving mid-frequency source. Journal of the Acoustical Society of America, 2021, 150, 3914-3928.	0.5	5
1376	An ultra-specific image dataset for automated insect identification. Multimedia Tools and Applications, 0 , 1 .	2.6	6
1377	Integrating deep learning with microfluidics for biophysical classification of sickle red blood cells adhered to laminin. PLoS Computational Biology, 2021, 17, e1008946.	1.5	14
1378	Maxsmi: Maximizing molecular property prediction performance with confidence estimation using SMILES augmentation and deep learning. Artificial Intelligence in the Life Sciences, 2021, 1, 100014.	1.6	6
1379	Image dataset on the Chinese medicinal blossoms for classification through convolutional neural network. Data in Brief, 2021, 39, 107655.	0.5	5
1380	Towards automatic field plant disease recognition. Computers and Electronics in Agriculture, 2021, 191, 106523.	3.7	25
1381	Compensating the cell-induced light scattering effect in light-based bioprinting using deep learning. Biofabrication, 2022, 14, 015011.	3.7	12
1382	Training data augmentation using generative models with statistical guarantees for materials informatics. Soft Computing, 2022, 26, 1181-1196.	2.1	3
1383	Liver segmentation from computed tomography images using cascade deep learning. Computers in Biology and Medicine, 2022, 140, 105095.	3.9	24
1384	Advancing diagnostic performance and clinical applicability of deep learning-driven generative adversarial networks for Alzheimer's disease. Psychoradiology, 2021, 1, 225-248.	1.0	4
1385	Deep Learning-Based Defect Detection From Sequences of Ultrasonic B-Scans. IEEE Sensors Journal, 2022, 22, 2456-2463.	2.4	10
1386	Neural Photometry-Guided Visual Attribute Transfer. IEEE Transactions on Visualization and Computer Graphics, 2023, 29, 1818-1830.	2.9	4
1387	Few-Sample Generation of Amount in Figures for Financial Multi-Bill Scene Based on GAN. IEEE Transactions on Computational Social Systems, 2023, 10, 1326-1334.	3.2	3
1388	RSSPN:Robust Semi-Supervised Prototypical Network for Fault Root Cause Classification in Power Distribution Systems. IEEE Transactions on Power Delivery, 2022, 37, 3282-3290.	2.9	2
1389	Comparison of RCF Scoring System to Clinical Decision for the Rey Complex Figure Using Machine-Learning Algorithm. Dementia and Neurocognitive Disorders, 2021, 20, 70.	0.4	7
1390	Hyperspectral Image Classification—Traditional to Deep Models: A Survey for Future Prospects. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2022, 15, 968-999.	2.3	123
1391	Understanding Test-Time Augmentation. Lecture Notes in Computer Science, 2021, , 558-569.	1.0	9

#	Article	IF	CITATIONS
1392	A neural network closure for the Euler-Poisson system based on kinetic simulations. Kinetic and Related Models, 2022, 15, 49.	0.5	4
1393	Causal Interventional Training for Image Recognition. IEEE Transactions on Multimedia, 2023, 25, 1033-1044.	5.2	6
1395	Learning Data Augmentation Schedules for Natural Language Processing. , 2021, , .		0
1396	A Survey of Al-Based Facial Emotion Recognition: Features, ML & DL Techniques, Age-Wise Datasets and Future Directions. IEEE Access, 2021, 9, 165806-165840.	2.6	27
1397	Weakly Supervised Semantic Parsing by Learning from Mistakes. , 2021, , .		2
1398	Artificial Intelligence-driven Image Analysis of Bacterial Cells and Biofilms. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2021, PP, 1-1.	1.9	10
1400	Multitask Semi-Supervised Learning for Class-Imbalanced Discourse Classification., 2021,,.		7
1401	A Demand-Driven SAR Target Sample Generation Method for Imbalanced Data Learning. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-15.	2.7	1
1402	Detecting Human Trafficking: Automated Classification of Online Customer Reviews of Massage Businesses. SSRN Electronic Journal, 0, , .	0.4	3
1403	Mask2Defect: A Prior Knowledge-Based Data Augmentation Method for Metal Surface Defect Inspection. IEEE Transactions on Industrial Informatics, 2022, 18, 6743-6755.	7.2	18
1404	Hierarchical Semantic Broadcasting Network for Real-Time Semantic Segmentation. IEEE Signal Processing Letters, 2022, 29, 309-313.	2.1	4
1405	Damage Classification of In-Service Steel Railway Bridges Using a Novel Convolutional Neural Network. SSRN Electronic Journal, 0, , .	0.4	0
1406	Mixpatch: A New Method for Training Histopathology Image Classifiers. SSRN Electronic Journal, 0, , .	0.4	0
1407	Al Enabled Bio Waste Contamination-Scanner. Lecture Notes in Computer Science, 2021, , 357-363.	1.0	1
1408	Technology for Cast Iron Microstructure Analysis in SIAMS Software Using Neural Networks., 2021,,		0
1409	Convolutional Neural Networks for Texture Feature Extraction. Applications to Leaf Disease Classification in Precision Agriculture. IEEE Access, 2021, 9, 160085-160103.	2.6	40
1410	OADA: AnÂOnline Data Augmentation Method forÂRaw Histopathology Images. Communications in Computer and Information Science, 2021, , 249-256.	0.4	2
1411	A Systematic Review on Data Scarcity Problem in Deep Learning: Solution and Applications. ACM Computing Surveys, 2022, 54, 1-29.	16.1	48

#	Article	IF	CITATIONS
1412	Effective Text Augmentation Strategy forÂNLP Models. Advances in Intelligent Systems and Computing, 2022, , 521-531.	0.5	4
1413	Deep learning for forest inventory and planning: a critical review on the remote sensing approaches so far and prospects for further applications. Forestry, 2022, 95, 451-465.	1.2	16
1414	Study on the winding quality for spiral HTS cables based on AI detection model. Superconductor Science and Technology, 2022, 35, 035006.	1.8	4
1415	Appearance generation for colored spun yarn fabric based on conditional imageâ€toâ€image translation. Color Research and Application, 2022, 47, 1023-1034.	0.8	2
1416	Confronting Deep-Learning and Biodiversity Challenges for Automatic Video-Monitoring of Marine Ecosystems. Sensors, 2022, 22, 497.	2.1	10
1417	Intelligent systems using triboelectric, piezoelectric, and pyroelectric nanogenerators. Materials Today, 2022, 52, 188-206.	8.3	38
1418	Automated Detection Model in Classification of B-Lymphoblast Cells from Normal B-Lymphoid Precursors in Blood Smear Microscopic Images Based on the Majority Voting Technique. Scientific Programming, 2022, 2022, 1-8.	0.5	8
1419	Ship Wake Detection Using Data Fusion in Multi-sensor Remote Sensing Applications. , 2022, , .		6
1420	An ultra-specific image dataset for automated insect identification. Multimedia Tools and Applications, 2022, 81, 3223.	2.6	3
1421	Combining computer vision and deep learning to classify varieties of <scp><i>Prunus dulcis</i></scp> for the nursery plant industry. Journal of Chemometrics, 2022, 36, e3388.	0.7	0
1422	Technique of Augmenting Molecular Graph Data by Perturbating Hidden Features. Molecular Informatics, 2022, 41, .	1.4	1
1423	Transfer learning techniques for medical image analysis: A review. Biocybernetics and Biomedical Engineering, 2022, 42, 79-107.	3.3	81
1424	Improved Arabic Alphabet Characters Classification Using Convolutional Neural Networks (CNN). Computational Intelligence and Neuroscience, 2022, 2022, 1-16.	1,1	9
1425	AVT: Multicenter aortic vessel tree CTA dataset collection with ground truth segmentation masks. Data in Brief, 2022, 40, 107801.	0.5	17
1426	Performance evaluation of segmentation methods for assessing the lens of the frog Thoropa miliaris from synchrotron-based phase-contrast micro-CT images. Physica Medica, 2022, 94, 43-52.	0.4	3
1427	Adversarial data-selection based work-hours estimation method on a small dataset in a logistics center. Computers and Industrial Engineering, 2022, 164, 107872.	3.4	1
1428	ECG-BiCoNet: An ECG-based pipeline for COVID-19 diagnosis using Bi-Layers of deep features integration. Computers in Biology and Medicine, 2022, 142, 105210.	3.9	55
1429	Eff2Net: An efficient channel attention-based convolutional neural network for skin disease classification. Biomedical Signal Processing and Control, 2022, 73, 103406.	3.5	39

#	Article	IF	Citations
1430	Semantic segmentation of pancreatic medical images by using convolutional neural network. Biomedical Signal Processing and Control, 2022, 73, 103458.	3.5	20
1431	Diagnosis of small-sample measured electromagnetic transients in power system using DRN-LSTM and data augmentation. International Journal of Electrical Power and Energy Systems, 2022, 137, 107820.	3.3	11
1432	SILIC: A cross database framework for automatically extracting robust biodiversity information from soundscape recordings based on object detection and a tiny training dataset. Ecological Informatics, 2022, 68, 101534.	2.3	12
1433	Kidney tumor segmentation from computed tomography images using DeepLabv3+ 2.5D model. Expert Systems With Applications, 2022, 192, 116270.	4.4	35
1434	The Effectiveness of Data Augmentation for Melanoma Skin Cancer Prediction Using Convolutional Neural Networks. , 2020, , .		8
1435	Automatic Multi-class Classification of Indonesian Traditional Food using Convolutional Neural Networks. , 2020, , .		4
1436	Image Retrieval with Data Augmentation of Sentence Labels Based on Paraphrasing. , 2020, , .		0
1437	CNN with Multi Stage Image Data Augmentation Methods for Indonesia Rare and Protected Orchids Classification. , 2020, , .		1
1438	Surface Characterization of Aircraft Interior Parts : Modelling Human Perception of Surface Texture. , 2020, , .		1
1439	Novel Convolutional Neural Network that Uses a Two-Stage Inception Module for Bacterial Blight and Brown Spot Identification in Rice plant. , 2020, , .		2
1440	SAR-to-Optical Image Translation Using SSIM and Perceptual Loss Based Cycle-Consistent GAN. , 2020, , .		18
1441	White Blood Cells Classification Using Convolutional Neural Network Hybrid System. , 2020, , .		14
1442	Latent Melanoma Skin Cancer Image Classification by using Depthwise Separable CNN., 2020,,.		0
1443	Performance Improvement of Video Classification using Generated Labeled Data. , 2020, , .		0
1444	Autonomous Navigation via Deep Imitation and Transfer Learning: A Comparative Study., 2020,,.		3
1445	Nuclei Segmentation in Hematoxylin and Eosin (H&E)-Stained Histopathological Images Using a Deep Neural Network. , 2020, , .		0
1446	Considering Reliability of Deep Learning Function to Boost Data Suitability and Anomaly Detection. , 2020, , .		2
1447	Alzheimer's Disease Stage Classification using Deep Convolutional Neural Networks on Oversampled Imbalance Data. , 2020, , .		6

#	Article	IF	CITATIONS
1448	A Cell Augmentation Tool for Blood Smear Analysis. , 2020, , .		1
1449	Recognize Vietnamese Sign Language Using Deep Neural Network. , 2020, , .		1
1450	AIC-GAN: An Auxiliary Information Classification GAN for Learning Deep Models. , 2020, , .		3
1451	A Comparative Analysis of Deep Learning Models Applied for Disease Classification in Bell Pepper. , 2020, , .		10
1452	Transfer Learning-Based Received Power Prediction with Ray-tracing Simulation and Small Amount of Measurement Data. , 2020, , .		4
1453	Sub-Graph Contrast for Scalable Self-Supervised Graph Representation Learning. , 2020, , .		58
1454	Generative Data Augmentation for Diabetic Retinopathy Classification. , 2020, , .		17
1455	Predicting Brain Degeneration with a Multimodal Siamese Neural Network. , 2020, , .		3
1456	Transfer Learning and Fine-Tuning for Deep Learning-Based Tea Diseases Detection on Small Datasets. , 2020, , .		7
1457	Empirical analysis of generalization through augmentation for classifying images of vernacular handwritten texts. , 2020, , .		O
1458	Classification of Diabetic Retinopathy through Deep Feature Extraction and Classic Machine Learning Approach. , 2020, , .		8
1459	Decision-making support system for fruit diseases classification using Deep Learning. , 2020, , .		12
1460	Replacing Data Augmentation withÂRotation-Equivariant CNNs inÂlmage-Based Classification ofÂOral Cancer. Lecture Notes in Computer Science, 2021, , 24-33.	1.0	1
1461	Siamese Network-Based Health Representation Learning and Robust Reference-Based Remaining Useful Life Prediction. IEEE Transactions on Industrial Informatics, 2022, 18, 5264-5274.	7.2	15
1462	FSE: aÂPowerful Feature Augmentation Technique forÂClassification Task. Lecture Notes in Computer Science, 2021, , 645-653.	1.0	0
1464	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
1465	Transfer learning en la clasificación binaria de imágenes térmicas. Ingenius: Revista De Ciencia Y TecnologÃa, 2021, , 71-86.	0.1	1
1466	Synthetic Vertebral Column Fracture Image Generation by Deep Convolution Generative Adversarial Networks., 2021,,.		0

#	Article	IF	Citations
1467	Accelerating FPGA-Implementations for Mobile Medical Devices with high-level AI libraries: an Object Detection Model for Colorectal Polyp Images. , $2021, \dots$		2
1468	Fire Detection and Segmentation using YOLOv5 and U-NET., 2021,,.		15
1469	Lode Encoder: Al-constrained co-creativity. , 2021, , .		2
1470	A simple baseline for evaluating Expression Transfer and Anonymisation in Video Transfer. , 2021, , .		0
1471	Task-based Classification of Reflective Thinking Using Mixture of Classifiers., 2021,,.		0
1472	Tripod: Use Data Augmentation to Enhance Website Fingerprinting. , 2021, , .		1
1473	A Quantitative Analysis of Basic vs. Deep Learning-based Image Data Augmentation Techniques. , 2021, , .		0
1474	DeepScanner: a Robotic System for Automated 2D Object Dataset Collection with Annotations. , 2021, , .		3
1475	Evaluating Resilience of Encrypted Traffic Classification against Adversarial Evasion Attacks. , 2021, , .		5
1476	Diabetic Retinopathy Detection using Deep Convolutional Neural Network with Visualization of Guided Grad-CA., 2021,,.		1
1477	Representation Learning for Image Retrieval through 3D CNN and Manifold Ranking., 2021,,.		0
1478	Data Augmentation Guidelines for Cross-Dataset Transfer Learning and Pseudo Labeling. , 2021, , .		1
1479	Diagnosis of Skin Malignancy using Deep Learning Approaches., 2021,,.		1
1480	A Highway Distance Posts Detection Method Based on S-YOLOv3., 2021,,.		0
1481	Generating Synthetic Energy Usage Data to Enable Machine Learning for Sustainable Accommodation. , 2021, , .		0
1482	Based on Max-Min Framework Transferable Adversarial Attacks. , 2021, , .		0
1483	Audio Synthesis-based Data Augmentation Considering Audio Event Class., 2021,,.		3
1484	Performance Study of Image Data Augmentation by Generative Adversarial Networks., 2021,,.		0

#	Article	IF	CITATIONS
1485	Blocks World Revisited: The Effect of Self-Occlusion on Classification by Convolutional Neural Networks. , 2021 , , .		1
1486	ChessMix: Spatial Context Data Augmentation for Remote Sensing Semantic Segmentation., 2021,,.		2
1487	Training Deep Networks from Zero to Hero: avoiding pitfalls and going beyond. , 2021, , .		3
1488	Effectiveness of Data Augmentation in Multi-class Face Recognition. , 2021, , .		3
1489	Flood Identification Model Design with Deep Learning. , 2021, , .		0
1490	Open set task augmentation facilitates generalization of deep neural networks trained on small data sets. Neural Computing and Applications, 2022, 34, 6067-6083.	3.2	3
1491	Rib fracture detection system based on deep learning. Scientific Reports, 2021, 11, 23513.	1.6	13
1492	Image-Based Differentiation of Bacterial and Fungal Keratitis Using Deep Convolutional Neural Networks. Ophthalmology Science, 2022, 2, 100119.	1.0	22
1493	Hybrid data augmentation method for combined failure recognition in rotating machines. Journal of Intelligent Manufacturing, 2023, 34, 1795-1813.	4.4	4
1494	Scalable self-supervised graph representation learning via enhancing and contrasting subgraphs. Knowledge and Information Systems, 2022, 64, 235-260.	2.1	3
1495	Double yolk nondestructive identification system based on Raspberry Pi and computer vision. Journal of Food Measurement and Characterization, 2022, 16, 1605.	1.6	3
1496	Classification of urban functional zones through deep learning. Neural Computing and Applications, 0, , .	3.2	2
1497	Performance improvement of Deep Learning Models using image augmentation techniques. Multimedia Tools and Applications, 2022, 81, 9177-9200.	2.6	6
1498	Toward Performing Image Classification and Object Detection With Convolutional Neural Networks in Autonomous Driving Systems: A Survey. IEEE Access, 2022, 10, 14076-14119.	2.6	16
1499	Segmentation of Diffuse Lung Abnormality Patterns on Computed Tomography Images using Partially Supervised Learning. Advanced Biomedical Engineering, 2022, 11, 25-36.	0.4	1
1500	Multi-view prediction of Alzheimer's disease progression with end-to-end integrated framework. Journal of Biomedical Informatics, 2022, 125, 103978.	2.5	6
1501	Wafer Bin Map Recognition With Autoencoder-Based Data Augmentation in Semiconductor Assembly Process. IEEE Transactions on Semiconductor Manufacturing, 2022, 35, 198-209.	1.4	10
1502	Avoiding Overfitting: A Survey on Regularization Methods for Convolutional Neural Networks. ACM Computing Surveys, 2022, 54, 1-25.	16.1	59

#	Article	IF	CITATIONS
1503	Automatic Early Detection of Wildfire Smoke With Visible Light Cameras Using Deep Learning and Visual Explanation. IEEE Access, 2022, 10, 12814-12828.	2.6	6
1504	Influence of the Computer-Aided Decision Support System Design on Ultrasound-Based Breast Cancer Classification. Cancers, 2022, 14, 277.	1.7	7
1506	RGB images-driven recognition of grapevine varieties using a densely connected convolutional network. Logic Journal of the IGPL, 2023, 31, 618-633.	1.3	0
1508	Detection of COVID-19 in smartphone-based breathing recordings: A pre-screening deep learning tool. PLoS ONE, 2022, 17, e0262448.	1.1	30
1509	Control Chart Concurrent Pattern Classification Using Multi-Label Convolutional Neural Networks. Applied Sciences (Switzerland), 2022, 12, 787.	1.3	5
1510	Augmentation of Vegetation Index Curves Considering the Crop-Specific Phenological Characteristics. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2022, 15, 1235-1243.	2.3	0
1511	Automated Detection and Localization of Synaptic Vesicles in Electron Microscopy Images. ENeuro, 2022, 9, ENEURO.0400-20.2021.	0.9	5
1512	The evolution of barred galaxies in the EAGLE simulations. Monthly Notices of the Royal Astronomical Society, 2022, 510, 5164-5178.	1.6	12
1513	Thick Data Analytics for Small Training Samples Using Siamese Neural Network and Image Augmentation., 2022,, 57-66.		4
1514	Feasibility of using convolutional neural networks for individual-identification of wild Asian elephants. Mammalian Biology, 2022, 102, 931-941.	0.8	9
1515	Performance of a deep learningâ€based CT image denoising method: Generalizability over dose, reconstruction kernel, and slice thickness. Medical Physics, 2022, 49, 836-853.	1.6	9
1516	HairNet: a deep learning model to score leaf hairiness, a key phenotype for cotton fibre yield, value and insect resistance. Plant Methods, 2022, 18, 8.	1.9	9
1517	A complete framework for accurate recognition and prognosis of COVID-19 patients based on deep transfer learning and feature classification approach. Artificial Intelligence Review, 2022, 55, 5063-5108.	9.7	16
1518	Inverse Design of High-Dimensional Nanostructured 2×2 Optical Processors Based On Deep Convolutional Neural Networks. Journal of Lightwave Technology, 2022, 40, 2926-2932.	2.7	5
1519	Determination of shape parameters of sands: a deep learning approach. Acta Geotechnica, 2022, 17, 1521-1531.	2.9	11
1520	Fake It Till You Make It: Data Augmentation Using Generative Adversarial Networks for All the Crypto You Need on Small Devices. Lecture Notes in Computer Science, 2022, , 297-321.	1.0	4
1522	Learning-based automatic classification of lichens from images. Biosystems Engineering, 2022, 213, 119-132.	1.9	1
1523	The adoption of deep learning interpretability techniques on diabetic retinopathy analysis: a review. Medical and Biological Engineering and Computing, 2022, 60, 633-642.	1.6	14

#	Article	IF	CITATIONS
1524	Guiding Labelling Effort for Efficient Learning With Georeferenced Images. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2023, 45, 593-607.	9.7	3
1525	A Deep Learning Framework for Leukemia Cancer Detection in Microscopic Blood Samples Using Squeeze and Excitation Learning. Mathematical Problems in Engineering, 2022, 2022, 1-18.	0.6	27
1526	Aleatory-aware deep uncertainty quantification for transfer learning. Computers in Biology and Medicine, 2022, 143, 105246.	3.9	9
1527	A deep learning approach for insulator instance segmentation and defect detection. Neural Computing and Applications, 2022, 34, 7253-7269.	3.2	14
1528	Global and Local Contrastive Self-Supervised Learning for Semantic Segmentation of HR Remote Sensing Images. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-14.	2.7	53
1529	Online detection of weld surface defects based on improved incremental learning approach. Expert Systems With Applications, 2022, 195, 116407.	4.4	7
1530	Estimating litchi flower number using a multicolumn convolutional neural network based on a density map. Precision Agriculture, 2022, 23, 1226-1247.	3.1	9
1531	Assessment of Skin Toxicity in an inÂVitro Reconstituted Human Epidermis Model Using Deep Learning. American Journal of Pathology, 2022, 192, 687-700.	1.9	6
1532	Introduction to deep learning in precision agriculture: Farm image feature detection using unmanned aerial vehicles through classification and optimization process of machine learning with convolution neural network., 2022,, 81-107.		3
1533	MEDAS: an open-source platform as a service to help break the walls between medicine and informatics. Neural Computing and Applications, 2022, 34, 6547-6567.	3.2	4
1534	YOLO-MSFG: Toward Real-Time Detection of Concealed Objects in Passive Terahertz Images. IEEE Sensors Journal, 2022, 22, 520-534.	2.4	11
1535	Recent advances of machine vision technology in fish classification. ICES Journal of Marine Science, 2022, 79, 263-284.	1.2	14
1536	A machine learning approach to map crystal orientation by optical microscopy. Npj Computational Materials, 2022, 8, .	3.5	12
1537	Robust Multiseasonal Ice Classification From High-Resolution X-Band SAR. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-12.	2.7	4
1538	Practical framework for data-driven RANS modeling with data augmentation. Acta Mechanica Sinica/Lixue Xuebao, 2021, 37, 1748-1756.	1.5	7
1539	Applications of Explainable Artificial Intelligence in Diagnosis and Surgery. Diagnostics, 2022, 12, 237.	1.3	100
1540	Worsening Perception: Real-Time Degradation of Autonomous Vehicle Perception Performance for Simulation of Adverse Weather Conditions. SAE International Journal of Connected and Automated Vehicles, 0, 5, 87-100.	0.4	2
1541	A Robust Deep Learning Approach for the Quantitative Characterization and Clustering of Peach Tree Crowns Based on UAV Images. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-13.	2.7	5

#	Article	IF	CITATIONS
1542	Decoding motor imagery tasks using ESI and hybrid feature CNN. Journal of Neural Engineering, 2022, 19, 016022.	1.8	9
1543	Subsecond accurate myelin water fraction reconstruction from FASTâ€√sub>2 data with 3D UNET. Magnetic Resonance in Medicine, 2022, 87, 2979-2988.	1.9	3
1544	A Novel Data Augmentation Convolutional Neural Network for Detecting Malaria Parasite in Blood Smear Images. Applied Artificial Intelligence, 2022, 36, .	2.0	33
1545	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
1546	How to Get the Most Out of U-Net for Glacier Calving Front Segmentation. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2022, 15, 1712-1723.	2.3	9
1547	Three-Stream 3D deep CNN for no-Reference stereoscopic video quality assessment. Intelligent Systems With Applications, 2022, 13, 200059.	1.9	5
1548	Hybrid deep learning and genetic algorithms approach (HMB-DLGAHA) for the early ultrasound diagnoses of breast cancer. Neural Computing and Applications, 2022, 34, 8671-8695.	3.2	32
1549	On the Exploration of Automatic Building Extraction from RGB Satellite Images Using Deep Learning Architectures Based on U-Net. Technologies, 2022, 10, 19.	3.0	8
1550	Comparing Deep Neural Networks and Gradient Boosting for Pneumonia Detection Using Chest X-Rays. Advances in Computational Intelligence and Robotics Book Series, 2022, , 58-79.	0.4	0
1551	Hyperparameter tuning of convolutional neural networks for building construction image classification. Visual Computer, 0, , $1\cdot$	2.5	3
1552	An IoT-enabled smart health care system for screening of COVID-19 with multi layers features fusion and selection. Computing (Vienna/New York), 2023, 105, 743-760.	3.2	21
1553	NemaNet: A convolutional neural network model for identification of soybean nematodes. Biosystems Engineering, 2022, 213, 39-62.	1.9	18
1554	Deep Generative Tread Pattern Design Framework for Efficient Conceptual Design. Journal of Mechanical Design, Transactions of the ASME, 2022, 144, .	1.7	6
1555	Data Augmentation for Audio-Visual Emotion Recognition with an Efficient Multimodal Conditional GAN. Applied Sciences (Switzerland), 2022, 12, 527.	1.3	28
1556	Making Invisible Visible: Data-Driven Seismic Inversion With Spatio-Temporally Constrained Data Augmentation. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-16.	2.7	7
1557	Deep learning-based condition assessment for bridge elastomeric bearings. Journal of Civil Structural Health Monitoring, 2022, 12, 245-261.	2.0	7
1558	Automated histopathological evaluation of pterygium using artificial intelligence. British Journal of Ophthalmology, 2023, 107, 627-634.	2.1	3
1559	Enabling Edge-Cloud Video Analytics for Robotics Applications. IEEE Transactions on Cloud Computing, 2023, 11, 1500-1513.	3.1	17

#	Article	IF	CITATIONS
1560	SOMC:A Object-Level Data Augmentation for Sea Surface Object Detection. Journal of Physics: Conference Series, 2022, 2171, 012033.	0.3	2
1561	Deep learningâ€based automated mitosis detection in histopathology images for breast cancer grading. International Journal of Imaging Systems and Technology, 2022, 32, 1192-1208.	2.7	6
1562	A Computer Vision-Based Approach for Tick Identification Using Deep Learning Models. Insects, 2022, 13, 116.	1.0	8
1563	Predicting Offâ€Fault Deformation From Experimental Strikeâ€Slip Fault Images Using Convolutional Neural Networks. Geophysical Research Letters, 2022, 49, .	1.5	4
1564	Text Embedding Augmentation Based on Retraining With Pseudo-Labeled Adversarial Embedding. IEEE Access, 2022, 10, 8363-8376.	2.6	1
1565	Modified U-NET Architecture for Segmentation of Skin Lesion. Sensors, 2022, 22, 867.	2.1	72
1566	Photometric Stereo-Based Defect Detection System for Steel Components Manufacturing Using a Deep Segmentation Network. Sensors, 2022, 22, 882.	2.1	7
1567	A fresh look at computer vision for industrial quality control. Quality Engineering, 2022, 34, 152-158.	0.7	6
1568	Objective scoring of footpad dermatitis in broiler chickens using image segmentation and a deep learning approach: camera-based scoring system. British Poultry Science, 2022, 63, 427-433.	0.8	3
1569	Large-scale underwater fish recognition via deep adversarial learning. Knowledge and Information Systems, 2022, 64, 353-379.	2.1	12
1570	GEIN: An interpretable benchmarking framework towards all building types based on machine learning. Energy and Buildings, 2022, 260, 111909.	3.1	22
1571	A deep learning-based approach for detecting plant organs from digitized herbarium specimen images. Ecological Informatics, 2022, 69, 101590.	2.3	8
1572	Automatic mapping of multiplexed social receptive fields by deep learning and GPU-accelerated 3D videography. Nature Communications, 2022, 13, 593.	5.8	9
1573	Local perspective based synthesis for vehicle re-identification: A transformation state adversarial method. Journal of Visual Communication and Image Representation, 2022, 83, 103432.	1.7	8
1574	COVID-19 Diagnosis from Medical Images Using Transfer Learning. The Saudi Journal of Health Systems Research, 0, , 1-8.	0.5	2
1575	CoviLearn: A Machine Learning Integrated Smart X-Ray Device in Healthcare Cyber-Physical System for Automatic Initial Screening of COVID-19. SN Computer Science, 2022, 3, 150.	2.3	7
1576	Detection of crop diseases using enhanced variability imagery data and convolutional neural networks. Computers and Electronics in Agriculture, 2022, 193, 106732.	3.7	22
1577	Optimisation of manufacturing process parameters for variable component geometries using reinforcement learning. Materials and Design, 2022, 214, 110423.	3.3	10

#	Article	IF	CITATIONS
1578	Intelligent Segmentation of Intima–Media and Plaque Recognition in Carotid Artery Ultrasound Images. Ultrasound in Medicine and Biology, 2022, 48, 469-479.	0.7	6
1579	Cross-knowledge-graph entity alignment via relation prediction. Knowledge-Based Systems, 2022, 240, 107813.	4.0	8
1580	Contrastive learning based self-supervised time-series analysis. Applied Soft Computing Journal, 2022, 117, 108397.	4.1	35
1581	Automated quality control of vacuum insulated glazing by convolutional neural network image classification. Automation in Construction, 2022, 135, 104144.	4.8	6
1582	Synergy of unsupervised and supervised machine learning methods for the segmentation of the graphite particles in the microstructure of ductile iron. Materials Today Communications, 2022, 30, 103174.	0.9	3
1583	CNN and Convolutional Autoencoder (CAE) based real-time sensor fault detection, localization, and correction. Mechanical Systems and Signal Processing, 2022, 169, 108723.	4.4	76
1584	SAM: Self-augmentation mechanism for COVID-19 detection using chest X-ray images. Knowledge-Based Systems, 2022, 241, 108207.	4.0	30
1585	Historical-crack18-19: A dataset of annotated images for non-invasive surface crack detection in historical buildings. Data in Brief, 2022, 41, 107865.	0.5	4
1586	Towards high-performance deep learning models in tool wear classification with generative adversarial networks. Journal of Materials Processing Technology, 2022, 302, 117484.	3.1	6
1587	Identifying wetland areas in historical maps using deep convolutional neural networks. Ecological Informatics, 2022, 68, 101557.	2.3	11
1588	Generative adversarial learning for improved data efficiency in underwater target classification. Engineering Science and Technology, an International Journal, 2022, 30, 101043.	2.0	5
1589	Data Management for Machine Learning: A Survey. IEEE Transactions on Knowledge and Data Engineering, 2022, , 1-1.	4.0	11
1590	Improving Augmentation Efficiency for Few-Shot Learning. IEEE Access, 2022, 10, 17697-17706.	2.6	4
1592	Improved Sea-Ice Identification Using Semantic Segmentation With Raindrop Removal. IEEE Access, 2022, 10, 21599-21607.	2.6	3
1593	Al-Based Pipeline for Classifying Pediatric Medulloblastoma Using Histopathological and Textural Images. Life, 2022, 12, 232.	1.1	23
1594	Theory-guided machine learning to predict density evolution of sand dynamically compacted under Ko condition. Acta Geotechnica, 2022, 17, 3479-3497.	2.9	7
1595	Explainable health prediction from facial features with transfer learning. Journal of Intelligent and Fuzzy Systems, 2022, 42, 2491-2503.	0.8	3
1596	Seasonal variations of serotonin in the visual system of an ant revealed by immunofluorescence and a machine learning approach. Royal Society Open Science, 2022, 9, 210932.	1.1	1

#	Article	IF	CITATIONS
1597	Optimal acquisition sequence for Al-assisted brain tumor segmentation under the constraint of largest information gain per additional MRI sequence. Neuroscience Informatics, 2022, 2, 100053.	2.8	5
1598	A self-attention network for smoke detection. Fire Safety Journal, 2022, 129, 103547.	1.4	16
1599	Development of a Novel Evaluation Method for Endoscopic Ultrasound-Guided Fine-Needle Biopsy in Pancreatic Diseases Using Artificial Intelligence. Diagnostics, 2022, 12, 434.	1.3	9
1600	Feature Transformation Framework for Enhancing Compactness and Separability of Data Points in Feature Space for Small Datasets. Applied Sciences (Switzerland), 2022, 12, 1713.	1.3	1
1601	Automated detection of lung cancer-caused metastasis by classifying scintigraphic images using convolutional neural network with residual connection and hybrid attention mechanism. Insights Into Imaging, 2022, 13, 24.	1.6	11
1602	Chest X-ray Classification for the Detection of COVID-19 Using Deep Learning Techniques. Sensors, 2022, 22, 1211.	2.1	66
1603	Deep convolutional neural network models for weed detection in polyhouse grown bell peppers. Artificial Intelligence in Agriculture, 2022, 6, 47-54.	4.4	38
1605	Style-Consistent Image Translation: A Novel Data Augmentation Paradigm to Improve Plant Disease Recognition. Frontiers in Plant Science, 2021, 12, 773142.	1.7	19
1606	U-net architecture with embedded Inception-ResNet-v2 image encoding modules for automatic segmentation of organs-at-risk in head and neck cancer radiation therapy based on computed tomography scans. Physics in Medicine and Biology, 2022, 67, 115007.	1.6	15
1607	Research on Maize Seed Classification and Recognition Based on Machine Vision and Deep Learning. Agriculture (Switzerland), 2022, 12, 232.	1.4	31
1608	Conditional Generative Adversarial Networks with Adversarial Attack and Defense for Generative Data Augmentation. Journal of Computing in Civil Engineering, 2022, 36, .	2.5	8
1609	Learning to be a statistician. Proceedings of the VLDB Endowment, 2021, 15, 272-284.	2.1	3
1610	On Using Artificial Intelligence and the Internet of Things for Crop Disease Detection: A Contemporary Survey. Agriculture (Switzerland), 2022, 12, 9.	1.4	54
1611	Melanoma Classification from Dermoscopy Images Using Ensemble of Convolutional Neural Networks. Mathematics, 2022, 10, 26.	1.1	18
1612	Superresolution Linear Optical Imaging in the Far Field. Physical Review Letters, 2021, 127, 253602.	2.9	26
1613	Skin Disease Analysis With Limited Data in Particular Rosacea: A Review and Recommended Framework. IEEE Access, 2022, 10, 39045-39068.	2.6	5
1615	Deep Learning-Based Disk Herniation Computer Aided Diagnosis System From MRI Axial Scans. IEEE Access, 2022, 10, 32315-32323.	2.6	2
1616	Pure Frequency-Domain Deep Neural Network for IoT-Enabled Smart Cameras. IEEE Internet of Things Journal, 2022, 9, 19049-19061.	5.5	3

#	Article	IF	Citations
1617	How to Handle Data Imbalance and Feature Selection Problems in CNN-Based Stock Price Forecasting. IEEE Access, 2022, 10, 31297-31305.	2.6	13
1618	A Novel Deep Learning Framework for Automatic Recognition of Thyroid Gland and Tissues of Neck in Ultrasound Image. IEEE Transactions on Circuits and Systems for Video Technology, 2022, 32, 6113-6124.	5.6	7
1619	Using DSCB: A Depthwise Separable Convolution Block Rebuild MTCNN for Face Detection., 2022,,.		0
1620	Effect of Random Histogram Equalization on Breast Calcification Analysis Using Deep Learning. Informatik Aktuell, 2022, , 173-178.	0.4	3
1621	DHI-GAN: Improving Dental-Based Human Identification Using Generative Adversarial Networks. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 9700-9712.	7.2	2
1622	Smooth bootstrapping of copula functionals. Electronic Journal of Statistics, 2022, 16, .	0.4	0
1623	A Mirror Environment to Produce Artificial Intelligence Training Data. IEEE Access, 2022, 10, 24578-24586.	2.6	1
1624	Inductive Biases for Low Data VQA: A Data Augmentation Approach. , 2022, , .		2
1625	Human-Aided Saliency Maps Improve Generalization of Deep Learning. , 2022, , .		4
1628	Closing the Reality Gap with Unsupervised Sim-to-Real Image Translation. Lecture Notes in Computer Science, 2022, , 127-139.	1.0	0
1629	Robust Attentive Deep Neural Network for Detecting GAN-Generated Faces. IEEE Access, 2022, 10, 32574-32583.	2.6	10
1630	Deciphering impedance cytometry signals with neural networks. Lab on A Chip, 2022, 22, 1714-1722.	3.1	32
1631	Brain Tumor Detection and Classification Using Transfer Learning Technique. Advances in Intelligent Systems and Computing, 2022, , 483-493.	0.5	0
1632	An Automatic Defect Detection System for Synthetic Shuttlecocks Using Transformer Model. IEEE Access, 2022, 10, 37412-37421.	2.6	2
1635	XtremeAugment: Getting More From Your Data Through Combination of Image Collection and Image Augmentation. IEEE Access, 2022, 10, 24010-24028.	2.6	13
1636	Deep Face Mask Detection: Prevention andÂMitigation ofÂCOVID-19. Lecture Notes in Networks and Systems, 2022, , 13-22.	0.5	0
1637	Machine Learning in NextG Networks via Generative Adversarial Networks. IEEE Transactions on Cognitive Communications and Networking, 2022, 8, 480-501.	4.9	10
1638	On Supervised Class-Imbalanced Learning: An Updated Perspective and Some Key Challenges. IEEE Transactions on Artificial Intelligence, 2022, 3, 973-993.	3.4	15

#	Article	IF	CITATIONS
1639	Creating a Synthetic Data Generator for Solving Industrial Flaw Detection Problems Using Deep Learning Methods. Smart Innovation, Systems and Technologies, 2022, , 377-390.	0.5	0
1641	Diversifying Tire-Defect Image Generation Based on Generative Adversarial Network. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-12.	2.4	14
1643	Research Highlight: Use of Generative Images Created with Artificial Intelligence for Brain Tumor Imaging. Korean Journal of Radiology, 2022, 23, 500.	1.5	5
1644	Coronavirus Pneumonia Classification using X-Ray and CT Scan Images with Deep Convolutional Neural Networks Models. Journal of Information Technology Research, 2022, 15, 0-0.	0.3	1
1645	Performance Analysis of Deep Learning Architectures in Classifying Calamansi (Citrofortunella) Tj ETQq0 0 0 rgB	「/Overlock	10 Tf 50 58
1646	Data preprocessing techniques for MRI brain scans using deep learning models., 2022,, 13-25.		1
1647	Data Augmentation and Transfer Learning for Brain Tumor Detection in Magnetic Resonance Imaging. IEEE Access, 2022, 10, 23217-23233.	2.6	43
1648	Improving Deep Learning Forecast using Variational AutoEncoders. SSRN Electronic Journal, 0, , .	0.4	1
1649	Fidora: Robust WiFi-Based Indoor Localization via Unsupervised Domain Adaptation. IEEE Internet of Things Journal, 2022, 9, 9872-9888.	5.5	24
1650	Smart Gravimetric System for Enhanced Security of Accesses to Public Places Embedding a MobileNet Neural Network Classifier. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-10.	2.4	8
1651	Data Augmentation Empowered Neural Precoding for Multiuser MIMO With MMSE Model. IEEE Communications Letters, 2022, 26, 1037-1041.	2.5	7
1652	Data Augmentation in Defect Detection of Sanitary Ceramics in Small and Non-i.i.d Datasets. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 8669-8678.	7.2	14
1653	Cough Sound Identification: An Approach Based on Ensemble Learning. Smart Innovation, Systems and Technologies, 2022, , 269-278.	0.5	1
1655	Artificial Intelligence for Colonoscopy: Past, Present, and Future. IEEE Journal of Biomedical and Health Informatics, 2022, 26, 3950-3965.	3.9	11
1656	An Improved Yolo-V5 Network for Defect Detection of a Boiler Inner Wall. SSRN Electronic Journal, 0,	0.4	0
1657	Learning From Noisy Labels With Deep Neural Networks: A Survey. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 8135-8153.	7.2	237
1658	One-shot Compositional Data Generation for Low Resource Handwritten Text Recognition. , 2022, , .		6
1659	METGAN: Generative Tumour Inpainting and Modality Synthesis in Light Sheet Microscopy. , 2022, , .		3

#	Article	IF	CITATIONS
1660	Ortho-Shot: Low Displacement Rank Regularization with Data Augmentation for Few-Shot Learning. , 2022, , .		5
1661	Impact of Image Resizing on Deep Learning Detectors for Training Time and Model Performance. Lecture Notes in Electrical Engineering, 2022, , 10-17.	0.3	15
1662	Deep learning application for stellar parameters determination: I-constraining the hyperparameters. Open Astronomy, 2022, 31, 38-57.	0.2	5
1663	Label-Only Membership Inference Attacks and Defenses in Semantic Segmentation Models. IEEE Transactions on Dependable and Secure Computing, 2023, 20, 1435-1449.	3.7	5
1665	A survey of brain segmentation methods from magnetic resonance imaging., 2022,, 25-36.		0
1666	A New Augmented Method for Processing Video Datasets Based on Deep Neural Network. Lecture Notes in Electrical Engineering, 2022, , 125-134.	0.3	0
1667	Improving Mixed Data Imputation Methods Using Generative Adversarial Networks. SSRN Electronic Journal, 0, , .	0.4	0
1668	Deep learning approaches for the cardiovascular disease diagnosis using smartphone., 2022,, 163-193.		0
1669	Modeling Electronic Response Properties with an Explicit-Electron Machine Learning Potential. Journal of Chemical Theory and Computation, 2022, 18, 1672-1691.	2.3	10
1670	Transfer learning for dataâ€efficient abdominal muscle segmentation with convolutional neural networks. Medical Physics, 2022, 49, 3107-3120.	1.6	5
1671	Real-time mobile application for classifying solid waste material into recyclable and non-recyclable using Image Recognition and Convolutional Neural Network. , 2022, , .		2
1672	Active Fire Detection from Landsat-8 Imagery Using Deep Multiple Kernel Learning. Remote Sensing, 2022, 14, 992.	1.8	34
1673	Augmentation of Transcriptomic Data for Improved Classification of Patients with Respiratory Diseases of Viral Origin. International Journal of Molecular Sciences, 2022, 23, 2481.	1.8	6
1674	[ISMT2021] Object detection in high-resolution sonar images. Journal of Advanced Marine Engineering and Technology, 2022, 46, 31-39.	0.1	0
1675	A Deep Learning Image Data Augmentation Method for Single Tumor Segmentation. Frontiers in Oncology, 2022, 12, 782988.	1.3	5
1676	Data-Augmentation Method for BERT-based Legal Textual Entailment Systems in COLIEE Statute Law Task. The Review of Socionetwork Strategies, 2022, 16, 175-196.	1.0	2
1677	Crop Pest Recognition in Real Agricultural Environment Using Convolutional Neural Networks by a Parallel Attention Mechanism. Frontiers in Plant Science, 2022, 13, 839572.	1.7	9
1678	Introducing and applying Newtonian blurring: an augmented dataset of 126,000 human connectomes at braingraph.org. Scientific Reports, 2022, 12, 3102.	1.6	O

#	Article	IF	CITATIONS
1679	Deep dive in retinal fundus image segmentation using deep learning for retinopathy of prematurity. Multimedia Tools and Applications, 2022, 81, 11441-11460.	2.6	15
1680	Al-Driven Model for Automatic Emphysema Detection in Low-Dose Computed Tomography Using Disease-Specific Augmentation. Journal of Digital Imaging, 2022, 35, 538-550.	1.6	3
1681	Maize grading system using Deep learning and flask application. , 2022, , .		0
1682	Classifying nanostructured and heterogeneous materials from transmission electron microscopy images using convolutional neural networks. Neural Computing and Applications, 2022, 34, 11035-11047.	3.2	3
1683	Kidney Tumor Semantic Segmentation Using Deep Learning: A Survey of State-of-the-Art. Journal of Imaging, 2022, 8, 55.	1.7	17
1684	Three-dimensional deep learning to automatically generate cranial implant geometry. Scientific Reports, 2022, 12, 2683.	1.6	10
1685	Study of Different Deep Learning Methods for Coronavirus (COVID-19) Pandemic: Taxonomy, Survey and Insights. Sensors, 2022, 22, 1890.	2.1	14
1686	A Comprehensive Evaluation of Metabolomics Data Preprocessing Methods for Deep Learning. Metabolites, 2022, 12, 202.	1.3	4
1687	Investigation of Eye-Tracking Scan Path as a Biomarker for Autism Screening Using Machine Learning Algorithms. Diagnostics, 2022, 12, 518.	1.3	27
1688	Magnetic Resonance-Based Synthetic Computed Tomography Using Generative Adversarial Networks for Intracranial Tumor Radiotherapy Treatment Planning. Journal of Personalized Medicine, 2022, 12, 361.	1.1	3
1689	Deep Learning Detection and Recognition of Spot Elevations on Historical Topographic Maps. Frontiers in Environmental Science, 2022, 10, .	1.5	1
1690	Motion prediction for the sensorimotor control of hand prostheses with a brain-machine interface using EEG. , 2022, , .		2
1691	The Effectiveness of Data Augmentation of SEM Images on a Small Database Based on Deep-Learning Intelligence. Brazilian Journal of Physics, 2022, 52, 1.	0.7	0
1692	Person detection and identification surrounding gas facilities based on Improved-Yolov4-tiny. Journal of Physics: Conference Series, 2022, 2205, 012010.	0.3	0
1693	Scale-Aware Network with Scale Equivariance. Photonics, 2022, 9, 142.	0.9	0
1694	<i>ACTIVA</i> : realistic single-cell RNA-seq generation with automatic cell-type identification using introspective variational autoencoders. Bioinformatics, 2022, 38, 2194-2201.	1.8	13
1695	Robust Template Update Strategy for Efficient Visual Object Tracking. Artificial Intelligence, 0, , .	2.0	0
1696	DFCA-Net: Dual Feature Context Aggregation Network for Bleeding Areas Segmentation in Wireless Capsule Endoscopy Images. Journal of Medical and Biological Engineering, 2022, 42, 179-188.	1.0	3

#	Article	IF	CITATIONS
1697	Illumination-based Augmentation for Cuneiform Deep Neural Sign Classification. Journal on Computing and Cultural Heritage, 2022, 15, 1-20.	1.2	2
1698	SEDENOSS: SEparating and DENOising Seismic Signals With Dualâ€Path Recurrent Neural Network Architecture. Journal of Geophysical Research: Solid Earth, 2022, 127, .	1.4	12
1699	Road Crossing Assistance Method Using Object Detection Based on Deep Learning. , 0, , .		0
1700	Woody Plant Encroachment: Evaluating Methodologies for Semiarid Woody Species Classification from Drone Images. Remote Sensing, 2022, 14, 1665.	1.8	10
1701	A deep learning-based approach to automatic proximal femur segmentation in quantitative CT images. Medical and Biological Engineering and Computing, 2022, 60, 1417-1429.	1.6	15
1702	Patchless Multi-Stage Transfer Learning for Improved Mammographic Breast Mass Classification. Cancers, 2022, 14, 1280.	1.7	14
1703	A Survey on Deep Learning-Based Change Detection from High-Resolution Remote Sensing Images. Remote Sensing, 2022, 14, 1552.	1.8	90
1704	Algorithms for Ethical Decision-Making in the Clinic: A Proof of Concept. American Journal of Bioethics, 2022, 22, 4-20.	0.5	30
1705	EDNC: Ensemble Deep Neural Network for COVID-19 Recognition. Tomography, 2022, 8, 869-890.	0.8	23
1706	Mammogram breast cancer CAD systems for mass detection and classification: a review. Multimedia Tools and Applications, 2022, 81, 20043-20075.	2.6	36
1708	Data Augmentation by Program Transformation. Journal of Systems and Software, 2022, 190, 111304.	3.3	18
1709	Deep Convolutional Network with Pixel-Aware Attention for Smoke Recognition. Fire Technology, 2022, 58, 1839-1862.	1.5	4
1710	Self-supervised Metric Learning in Multi-View Data: A Downstream Task Perspective. Journal of the American Statistical Association, 2023, 118, 2454-2467.	1.8	0
1711	A Set of Comprehensive Evaluation System for Different Data Augmentation Methods. Mobile Information Systems, 2022, 2022, 1-9.	0.4	1
1712	Smart grid dispatch powered by deep learning: a survey. Frontiers of Information Technology and Electronic Engineering, 2022, 23, 763-776.	1.5	7
1713	Benchmark of deep learning models for single image super-resolution (SISR)., 2022,,.		4
1714	Autonomous Detection of Spodoptera frugiperda by Feeding Symptoms Directly from UAV RGB Imagery. Applied Sciences (Switzerland), 2022, 12, 2592.	1.3	8
1715	Token replacement-based data augmentation methods for hate speech detection. World Wide Web, 0, , 1.	2.7	2

#	Article	IF	CITATIONS
1716	Navier–stokes Generative Adversarial Network: a physics-informed deep learning model for fluid flow generation. Neural Computing and Applications, 2022, 34, 11539-11552.	3.2	5
1717	The Self-Supervised Spectral–Spatial Vision Transformer Network for Accurate Prediction of Wheat Nitrogen Status from UAV Imagery. Remote Sensing, 2022, 14, 1400.	1.8	13
1719	A Deep Learning-Based Workflow for Dendritic Spine Segmentation. Frontiers in Neuroanatomy, 2022, 16, 817903.	0.9	6
1720	Data-centric analysis of on-tree fruit detection: Experiments with deep learning. Computers and Electronics in Agriculture, 2022, 194, 106748.	3.7	11
1721	Data-Driven Geothermal Reservoir Modeling: Estimating Permeability Distributions by Machine Learning. Geosciences (Switzerland), 2022, 12, 130.	1.0	4
1722	Trends of using machine learning for detection and classification of respiratory diseases: Investigation and analysis. Materials Today: Proceedings, 2022, 62, 4651-4658.	0.9	7
1723	DeepBiomarker: Identifying Important Lab Tests from Electronic Medical Records for the Prediction of Suicide-Related Events among PTSD Patients. Journal of Personalized Medicine, 2022, 12, 524.	1.1	7
1724	Development of a computer-aided tool for detection of COVID-19 pneumonia from CXR images using machine learning algorithm. Journal of Radiation Research and Applied Sciences, 2022, 15, 32-43.	0.7	14
1725	Cultivar identification of pistachio nuts in bulk mode through EfficientNet deep learning model. Journal of Food Measurement and Characterization, 2022, 16, 2545-2555.	1.6	5
1726	Feeding Material Identification for a Crusher Based on Deep Learning for Status Monitoring and Fault Diagnosis. Minerals (Basel, Switzerland), 2022, 12, 380.	0.8	6
1727	Augmentation-based Pseudo-Ground truth Generation for Deep Learning in Historical Document Segmentation for Greater Levels of Archival Description and Access. Journal on Computing and Cultural Heritage, 2022, 15, 1-21.	1.2	3
1728	Solid Waste Image Classification Using Deep Convolutional Neural Network. Infrastructures, 2022, 7, 47.	1.4	16
1729	Highâ€throughput measurement of plant fitness traits with an object detection method using Faster R NN. New Phytologist, 2022, 234, 1521-1533.	3.5	7
1730	Text Data Augmentation for the Korean Language. Applied Sciences (Switzerland), 2022, 12, 3425.	1.3	7
1731	Modality specific U-Net variants for biomedical image segmentation: a survey. Artificial Intelligence Review, 2022, 55, 5845-5889.	9.7	68
1732	Intuitively Assessing ML Model Reliability through Example-Based Explanations and Editing Model Inputs. , 2022, , .		8
1733	Generalizable Permeability Prediction of Digital Porous Media via a Novel Multiâ€Scale 3D Convolutional Neural Network. Water Resources Research, 2022, 58, .	1.7	16
1734	Spinopelvic measurements of sagittal balance with deep learning: systematic review and critical evaluation. European Spine Journal, 2022, 31, 2031-2045.	1.0	9

#	Article	IF	Citations
1735	The Evaluation of Deep Learning Using Convolutional Neural Network (CNN) Approach for Identifying Arabica and Robusta Coffee Plants. Journal of Biosystems Engineering, 2022, 47, 118-129.	1.2	6
1736	Artificial Intelligence as a Tool to Study the 3D Skeletal Architecture in Newly Settled Coral Recruits: Insights into the Effects of Ocean Acidification on Coral Biomineralization. Journal of Marine Science and Engineering, 2022, 10, 391.	1.2	3
1737	Motor-related signals support localization invariance for stable visual perception. PLoS Computational Biology, 2022, 18, e1009928.	1.5	7
1738	Four Types of Multiclass Frameworks for Pneumonia Classification and Its Validation in X-ray Scans Using Seven Types of Deep Learning Artificial Intelligence Models. Diagnostics, 2022, 12, 652.	1.3	23
1739	Subtle anomaly detection: Application to brain MRI analysis of de novo Parkinsonian patients. Artificial Intelligence in Medicine, 2022, 125, 102251.	3.8	4
1740	Predicting dreissenid mussel abundance in nearshore waters using underwater imagery and deep learning. Limnology and Oceanography: Methods, 0, , .	1.0	2
1741	Deep-Learning-Based Parking Area and Collision Risk Area Detection Using AVM in Autonomous Parking Situation. Sensors, 2022, 22, 1986.	2.1	5
1742	High resolution conflict forecasting with spatial convolutions and long short-term memory. International Interactions, 2022, 48, 739-758.	0.6	2
1743	Early detection of Alzheimer's disease based on the state-of-the-art deep learning approach: a comprehensive survey. Multimedia Tools and Applications, 2022, 81, 23735-23776.	2.6	20
1744	Automated fault detection in the Arabian Basin. Geophysics, 2022, 87, IM101-IM109.	1.4	5
1745	Mixing up contrastive learning: Self-supervised representation learning for time series. Pattern Recognition Letters, 2022, 155, 54-61.	2.6	23
1746	MOG: a background extraction approach for data augmentation of time-series images in deep learning segmentation., 2022,,.		0
1747	Mathematical Formula Image Screening Based on Feature Correlation Enhancement. Electronics (Switzerland), 2022, 11, 799.	1.8	1
1748	Counterfactual Explanation of Brain Activity Classifiers Using Image-To-Image Transfer by Generative Adversarial Network. Frontiers in Neuroinformatics, 2021, 15, 802938.	1.3	1
1749	Derin Öğrenme Modeli ile Yüz İfadelerinden Duygu Tanıma. Journal of the Institute of Science and Technology, 0, , 69-79.	0.3	2
1750	A review of intelligent medical imaging diagnosis for the COVID-19 infection. Intelligent Decision Technologies, 2022, , 1-18.	0.6	0
1751	Survey on Videos Data Augmentation for Deep Learning Models. Future Internet, 2022, 14, 93.	2.4	18
1752	Data augmentation approaches in natural language processing: A survey. Al Open, 2022, 3, 71-90.	9.1	87

#	Article	IF	CITATIONS
1753	A Study on Novel Hand Hygiene Evaluation System using pix2pix. Advances in Science, Technology and Engineering Systems, 2022, 7, 112-118.	0.4	0
1754	Computational pathology for musculoskeletal conditions using machine learning: advances, trends, and challenges. Arthritis Research and Therapy, 2022, 24, 68.	1.6	8
1755	Electro-impedance mammograms for automatic breast cancer screening: First insights on Mexican patients. Journal of Intelligent and Fuzzy Systems, 2022, 42, 4659-4671.	0.8	0
1756	Automatic individual recognition of Japanese macaques (<i>Macaca fuscata</i>) from sequential images. Ethology, 0, , .	0.5	0
1757	Leveraging Artificial Intelligence to Improve the Diversity of Dermatological Skin Color Pathology: Protocol for an Algorithm Development and Validation Study. JMIR Research Protocols, 2022, 11 , e34896.	0.5	13
1758	An acoustic signal cavitation detection framework based on XGBoost with adaptive selection feature engineering. Measurement: Journal of the International Measurement Confederation, 2022, 192, 110897.	2.5	13
1759	Optimal feature extraction and ulcer classification from WCE image data using deep learning. Soft Computing, 0 , , 1 .	2.1	8
1760	Particle Quantification from a Smartphone-based Biosensor using Deep Convolutional Neural Network for Clinical Diagnosis. , 2022, , .		3
1761	DeepSpectrumLite: A Power-Efficient Transfer Learning Framework for Embedded Speech and Audio Processing From Decentralized Data. Frontiers in Artificial Intelligence, 2022, 5, 856232.	2.0	14
1763	Scale-aware network with scale equivariance. , 2022, , .		1
1764	Vectorized rooftop area data for 90 cities in China. Scientific Data, 2022, 9, 66.	2.4	35
1765	Supervised and unsupervised machine learning of structural phases of polymers adsorbed to nanowires. Physical Review E, 2022, 105, 035304.	0.8	5
1766	Quantitative endoscopic photoacoustic tomography using a convolutional neural network. Applied Optics, 2022, 61, 2574.	0.9	1
1767	A Convolutional Neural Network (CNN) classification to identify the presence of pores in powder bed fusion images. International Journal of Advanced Manufacturing Technology, 2022, 120, 5133-5150.	1.5	15
1768	MAFFNet: real-time multi-level attention feature fusion network with RGB-D semantic segmentation for autonomous driving. Applied Optics, 2022, 61, 2219.	0.9	6
1769	Quantification of muscle, bones, and fat on single slice thigh CT. , 2022, , .		1
1770	Connectivity-based Cortical Parcellation via Contrastive Learning on Spatial-Graph Convolution. BME Frontiers, 2022, 2022, .	2.2	1
1771	Fourier transform-based data augmentation in deep learning for diabetic foot thermograph classification. Biocybernetics and Biomedical Engineering, 2022, 42, 437-452.	3.3	16

#	Article	IF	CITATIONS
1772	ILU-Net: Inception-Like U-Net for retinal vessel segmentation. Optik, 2022, 260, 169012.	1.4	6
1773	Underwater inspection of bridge substructures using sonar and deep convolutional network. Advanced Engineering Informatics, 2022, 52, 101545.	4.0	16
1774	Dual-Branch Convolutional Neural Network Based on Ultrasound Imaging in the Early Prediction of Neoadjuvant Chemotherapy Response in Patients With Locally Advanced Breast Cancer. Frontiers in Oncology, 2022, 12, 812463.	1.3	6
1775	Laser-induced breakdown spectroscopy combined with a convolutional neural network: A promising methodology for geochemical sample identification in Tianwen-1 Mars mission. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2022, 192, 106417.	1.5	11
1776	A New Deep Hybrid Boosted and Ensemble Learning-Based Brain Tumor Analysis Using MRI. Sensors, 2022, 22, 2726.	2.1	41
1777	Automated quality check of corpus callosum segmentation using deep learning. , 2022, , .		1
1778	Application of DatasetGAN in medical imaging: preliminary studies. , 2022, , .		0
1779	Analysing deep reinforcement learning agents trained with domain randomisation. Neurocomputing, 2022, 493, 143-165.	3.5	7
1780	Automatic Recognition of Oil Spills Using Neural Networks and Classic Image Processing. Water (Switzerland), 2022, 14, 1127.	1.2	7
1781	Fully Automatic Segmentation, Identification and Preoperative Planning for Nasal Surgery of Sinuses Using Semi-Supervised Learning and Volumetric Reconstruction. Mathematics, 2022, 10, 1189.	1.1	3
1782	Learning cortical representations through perturbed and adversarial dreaming. ELife, 2022, 11, .	2.8	10
1783	Simulation of mid-thigh anatomy for virtual clinical studies. , 2022, , .		0
1784	Dermoscopic Image Classification with Neural Style Transfer. Journal of Computational and Graphical Statistics, 0, , 1-30.	0.9	2
1785	Analysis of Cataract Surgery Instrument Identification Performance of Convolutional and Recurrent Neural Network Ensembles Leveraging BigCat. Translational Vision Science and Technology, 2022, 11, 1.	1.1	5
1786	Comparison of neural networks and k-nearest neighbors methods in forest stand variable estimation using airborne laser data. ISPRS Open Journal of Photogrammetry and Remote Sensing, 2022, 4, 100012.	1.3	3
1787	Soft Voting-based Ensemble Model for Bengali Sign Gesture Recognition. Annals of Emerging Technologies in Computing, 2022, 6, 41-49.	1.0	0
1788	Model-based machine learning for the recovery of lateral dose profiles of small photon fields in magnetic field. Physics in Medicine and Biology, 2022, 67, 085006.	1.6	1
1789	Anime-to-real clothing: Cosplay costume generation via image-to-image translation. Multimedia Tools and Applications, 0 , 1 .	2.6	0

#	Article	IF	CITATIONS
1790	Using EfficientNet and transfer learning for image-based diagnosis of nutrient deficiencies. Computers and Electronics in Agriculture, 2022, 196, 106868.	3.7	21
1791	Leaf image based plant disease identification using transfer learning and feature fusion. Computers and Electronics in Agriculture, 2022, 196, 106892.	3.7	52
1792	Crossover based technique for data augmentation. Computer Methods and Programs in Biomedicine, 2022, 218, 106716.	2.6	12
1793	Core box image recognition and its improvement with a new augmentation technique. Computers and Geosciences, 2022, 162, 105099.	2.0	4
1794	A framework for synthetic image generation and augmentation for improving automatic sewer pipe defect detection. Automation in Construction, 2022, 137, 104213.	4.8	17
1795	Failure diagnosis system using a new nonlinear mapping augmentation approach for deep learning algorithm. Mechanical Systems and Signal Processing, 2022, 172, 108914.	4.4	10
1796	Industry 4.0 technologies and their applications in fighting COVID-19 pandemic using deep learning techniques. Computers in Biology and Medicine, 2022, 145, 105418.	3.9	16
1797	Improving convolutional neural network learning based on a hierarchical bezier generative model for stenosis detection in X-ray images. Computer Methods and Programs in Biomedicine, 2022, 219, 106767.	2.6	12
1798	Autonomous assessment of delamination in laminated composites using deep learning and data augmentation. Composite Structures, 2022, 290, 115502.	3.1	22
1799	Data augmentation guided knowledge distillation for environmental sound classification. Neurocomputing, 2022, 489, 59-77.	3.5	8
1800	Diffeomorphic transforms for data augmentation of highly variable shape and texture objects. Computer Methods and Programs in Biomedicine, 2022, 219, 106775.	2.6	3
1801	New image dataset and new negative sample judgment method for crop pest recognition based on deep learning models. Ecological Informatics, 2022, 69, 101620.	2.3	17
1802	Revealing geometrically necessary dislocation density from electron backscatter patterns via multi-modal deep learning. Ultramicroscopy, 2022, 237, 113519.	0.8	1
1803	Automatic construction of filter tree by genetic programming for ultrasound guidance image segmentation. Biomedical Signal Processing and Control, 2022, 76, 103641.	3.5	3
1804	Attention-based deep neural network for driver behavior recognition. Future Generation Computer Systems, 2022, 132, 152-161.	4.9	20
1805	Applied imagery pattern recognition for photovoltaic modules' inspection: A review on methods, challenges and future development. Sustainable Energy Technologies and Assessments, 2022, 52, 102071.	1.7	11
1806	New Benchmark for Household Garbage Image Recognition. Tsinghua Science and Technology, 2022, 27, 793-803.	4.1	10
1807	Towards Corruption-Agnostic Robust Domain Adaptation. ACM Transactions on Multimedia Computing, Communications and Applications, 2022, 18, 1-16.	3.0	1

#	Article	IF	Citations
1808	A Deep Learning Based Covid-19 Detection Framework. , 2021, , .		2
1809	Channel Augmented Joint Learning for Visible-Infrared Recognition. , 2021, , .		80
1810	A Mobile Based Waste Classification Using MobileNets-V1 Architecture. , 2021, , .		1
1811	Road Surface Recognition Based on Vision and Tire Noise. , 2021, , .		2
1812	Homogeneous Architecture Augmentation for Neural Predictor., 2021,,.		6
1813	Pyramid Vision Transformer: A Versatile Backbone for Dense Prediction without Convolutions. , 2021, ,		1,579
1814	Spectral Leakage and Rethinking the Kernel Size in CNNs. , 2021, , .		9
1815	Identifying Root-Cause Metrics for Incident Diagnosis in Online Service Systems., 2021,,.		9
1816	Towards Strengthening Deep Learning-based Side Channel Attacks with Mixup., 2021,,.		2
1817	Hybrid Experimental Learning on Trading Behavior Analysis in Electricity Markets. , 2021, , .		0
1818	Ship Recognition Method Based on Spiking Neural Networks in Synthetic Aperture Radar Images. , 2021, , .		0
1819	Optimizing Selective Protection for CNN Resilience. , 2021, , .		11
1820	Mixup Augmentation for Deep Hashing. , 2021, , .		2
1821	Restoring the Executability of Jupyter Notebooks by Automatic Upgrade of Deprecated APIs., 2021, , .		4
1822	Data Augmentation for Small Face Datasets and Face Verification by Generative Adversarial Networks Inversion. , $2021, \ldots$		3
1823	An Overview of Deep Learning Based Small Sample Medical Imaging Classification. , 2021, , .		7
1825	Feature Extraction for Class Imbalance Using a Convolutional Autoencoder and Data Sampling. , 2021, , .		15
1826	Pest detection and classification to reduce pesticide use in fruit crops based on deep neural networks and image processing., 2021,,.		6

#	Article	IF	CITATIONS
1827	Investigating the Generalization of Image Classifiers with Augmented Test Sets., 2021,,.		1
1828	Evaluation of Recurrent Neural Network Models for Parkinson's Disease Classification Using Drawing Data., 2021, 2021, 1702-1706.		2
1829	FlagDetSeg: Multi-Nation Flag Detection and Segmentation in the Wild., 2021,,.		1
1830	Automatic segmentation of paravertebral muscles in abdominal CT scan by U-Net. Medicine (United) Tj ETQq1 1 (0.784314 0.4	rgBT /Over
1831	Electromyography Signal Analysis and Classification using Time-Frequency Representations and Deep Learning., 2021, 2021, 661-664.		3
1832	ProxyFAUG: Proximity-based Fingerprint Augmentation. , 2021, , .		5
1833	Enhancing Image Coding for Machines with Compressed Feature Residuals. , 2021, , .		1
1834	Comparison of Different Data Augmentation Methods With an Experimental EEG Dataset., 2021,,.		1
1835	Shallow Neural Networks beat Deep Neural Networks trained with transfer learning: A Use Case based on training Neural Networks to identify Covid-19 in chest X-ray images., 2021,,.		0
1836	Deep Learning Models for Classification and Localization of COVID-19 Abnormalities on Chest Radiographs. , 2021, , .		4
1837	Augmentation of a Virtual Reality Environment Using Generative Adversarial Networks., 2021,,.		4
1838	Slice-Level-Guided Convolutional Neural Networks to study the Right Ventricular Segmentation using MRI Short-Axis sequences., 2021,,.		3
1839	Wheat Head Detection and Crop Health Classification System. , 2021, , .		2
1840	Convolutional Neural Networks for Chagas' Parasite Detection in Histopathological Images. , 2021, 2021, 2732-2735.		2
1841	Enhancing Medical Image Classification via Augmentation-based Pre-training., 2021,,.		1
1842	Data Augmentation in Training Deep Learning Models for Malware Family Classification. , 2021, , .		1
1843	<scp>Râ€ICTS</scp> : Recognize the Indian cautionary traffic signs in <scp>realâ€time</scp> using an optimized adaptive boosting cascade classifier and a convolutional neural network. Concurrency Computation Practice and Experience, 2022, 34, .	1.4	3
1844	Comparison of Four Transfer Learning and Hybrid CNN Models on Three Types of Lung Cancer. , 2021, , .		7

#	Article	IF	Citations
1845	Artificial intelligence with deep learning in nuclear medicine and radiology. EJNMMI Physics, 2021, 8, 81.	1.3	26
1846	Towards Development of Visual-Range Sea State Image Dataset for Deep Learning Models. , 2021, , .		1
1847	Toward object alphabet augmentation for object detection in very highâ€resolution satellite images. Concurrency Computation Practice and Experience, 2022, 34, .	1.4	0
1848	Automatic Detection of Bacilli Bacteria from Ziehl-Neelsen Sputum Smear Images. , 2021, , .		3
1849	Deep Learning Approach at the Edge to Detect Iron Ore Type. Sensors, 2022, 22, 169.	2.1	3
1850	Predicting YOLO Misdetection by Learning Grid Cell Consensus. , 2021, , .		1
1851	Characterization of Deep Learning-Based Aerial Explosive Hazard Detection using Simulated Data. , 2021, , .		4
1852	Covid-19 Detection from Pneumonia Image Classification Using Deep Learning. Advances in Intelligent Systems and Computing, 2022, , 35-47.	0.5	0
1853	Human Age Estimation from Gene Expression Data using Artificial Neural Networks. , 2021, , .		2
1854	Verifying the Applicability of Synthetic Image Generation for Object Detection in Industrial Quality Inspection. , 2021, , .		0
1855	Indonesian Sign Language Fingerspelling Recognition using Vision-based Machine Learning. , 2021, , .		1
1856	Multiclass Image Classification Using GANs and CNN Based on Holes Drilled in Laminated Chipboard. Sensors, 2021, 21, 8077.	2.1	8
1857	An application improving the accuracy of image classification. , 2021, , .		1
1858	InterpretableSAD: Interpretable Anomaly Detection in Sequential Log Data., 2021,,.		2
1859	Improving Accuracy of Tomato Plant Disease Diagnosis Based on Deep Learning With Explicit Control of Hidden Classes. Frontiers in Plant Science, 2021, 12, 682230.	1.7	13
1860	Voxel-based Deep Learning for Image Super-resolution of Areal Density Maps of Carbon-nanotube Sheets., 2021,,.		0
1861	A ROBUST DEEP LEARNING APPROACH TO ENHANCE THE ACCURACY OF POMEGRANATE FRUIT DISEASE DETECTION UNDER REAL FIELD CONDITION. Journal of Experimental Biology and Agricultural Sciences, 2021, 9, 863-870.	0.1	1
1862	Requirement analysis for an artificial intelligence model for the diagnosis of the COVID-19 from chest X-ray data., 2021,,.		0

#	Article	IF	CITATIONS
1863	An Approach for Pronunciation Classification of Classical Arabic Phonemes Using Deep Learning. Applied Sciences (Switzerland), 2022, 12, 238.	1.3	13
1864	Data Augmentation for Deep Neural Networks Model in EEG Classification Task: A Review. Frontiers in Human Neuroscience, 2021, 15, 765525.	1.0	30
1865	Enhanced CNN Architecture for Invasive Ductal Carcinoma Detection in Breast Histopathology Images. , 2021, , .		1
1866	Small Target Paste Randomly Data Augmentation Method Based on a Pin-losing Bolt Data Set. , 2021, , .		0
1867	Detecting Transistor Defects in Medical Systems Using a Multi Model Ensemble of Convolutional Neural Networks., 2021,,.		2
1868	PhyFlow: Physics-Guided Deep Learning for Generating Interpretable 3D Flow Fields. , 2021, , .		1
1869	A convolutional neural network <scp>â€based</scp> comparative study for pepper seed classification: Analysis of selected deep features with <scp>support vector machine</scp> . Journal of Food Process Engineering, 2022, 45, .	1.5	44
1870	Operationalizing Convolutional Neural Network Architectures for Prohibited Object Detection in X-Ray Imagery. , 2021, , .		7
1871	Survey on Disease Detection in Plant Leaf Using Data Augmentation., 2021,,.		0
1872	Detection of Crop Leaf Diseases Using Gl-Cgan Based Data Augmentation. , 2021, , .		0
1873	Detection of Windthrown Tree Stems on UAV-Orthomosaics Using U-Net Convolutional Networks. Remote Sensing, 2022, 14, 75.	1.8	9
1874	Agricultural Pests and Disease Detection. , 2021, , .		2
1875	Deep Learning Methods applied to Intrusion Detection: Survey, Taxonomy and Challenges. , 2021, , .		2
1876	An Exploration into the Detection of COVID-19 from Chest X-ray Scans Using the xRGM-NET Convolutional Neural Network. Technologies, 2021, 9, 98.	3.0	0
1878	End-to-End Performance Optimization for Training Streaming Convolutional Neural Networks using Billion-Pixel Whole-Slide Images. , 2021, , .		2
1879	Generative Adversarial Network Design for Data Augmentation for Copro-parasite Images., 2021,,.		1
1880	Can ADAS Distract Driver's Attention? An RGB-D Camera and Deep Learning-Based Analysis. Applied Sciences (Switzerland), 2021, 11, 11587.	1.3	4
1881	Classification of Plant Leaves Using New Compact Convolutional Neural Network Models. Plants, 2022, 11, 24.	1.6	17

#	Article	IF	CITATIONS
1882	View VULMA: Data Set for Training a Machine-Learning Tool for a Fast Vulnerability Analysis of Existing Buildings. Data, 2022, 7, 4.	1.2	16
1883	Which CNNs and Training Settings to Choose for Action Unit Detection? A Study Based on a Large-Scale Dataset. , 2021, , .		4
1884	Automatic Car Damage detection by Hybrid Deep Learning Multi Label Classification. Journal of Artificial Intelligence and Capsule Networks, 2021, 3, 341-352.	2.1	0
1885	Impact on Inference Model Performance for ML Tasks Using Real-Life Training Data and Synthetic Training Data from GANs. Information (Switzerland), 2022, 13, 9.	1.7	0
1886	<i>BraggNN</i> : fast X-ray Bragg peak analysis using deep learning. IUCrJ, 2022, 9, 104-113.	1.0	19
1887	Yapay Sinir Ağı Tabanlı Model ile X-ray Görüntülerinden Covid-19 Teşhisi. Journal of Polytechnic, 2023 541-551.	3,26,	3
1888	Ensemble of EfficientNets for the Diagnosis of Tuberculosis. Computational Intelligence and Neuroscience, 2021, 2021, 1-12.	1.1	12
1889	Cancer Type Classification in Liquid Biopsies Based on Sparse Mutational Profiles Enabled through Data Augmentation and Integration. Life, 2022, 12, 1.	1.1	15
1890	PlantBuddy: An Android-Based Mobile Application for Plant Disease Detection Using Deep Convolutional Neural Network. Lecture Notes in Electrical Engineering, 2022, , 275-285.	0.3	1
1891	Convolutional Neural Networks for Breast Density Classification: Performance and Explanation Insights. Applied Sciences (Switzerland), 2022, 12, 148.	1.3	8
1892	Extracting Weld Bead Shapes from Radiographic Testing Images with U-Net. Applied Sciences (Switzerland), 2021, 11, 12051.	1.3	8
1893	Design and Application of Integrated Sensing Terminal for Power Transformer. , 2021, , .		O
1894	Semantic Segmentation of High-Resolution Airborne Images with Dual-Stream DeepLabV3+. ISPRS International Journal of Geo-Information, 2022, 11, 23.	1.4	12
1895	BottleNet18: Deep Learning-Based Bottle Gourd Leaf Disease Classification. , 2021, , .		1
1896	Sentence Augmentation for Language Translation Using GPT-2. Electronics (Switzerland), 2021, 10, 3082.	1.8	4
1897	NPTC-net: Narrow-Band Parallel Transport Convolutional Neural Networks on Point Clouds. Journal of Scientific Computing, 2022, 90, 1.	1.1	1
1898	Individual Feral Cat Identification through Deep Learning. , 2021, , .		2
1899	Deep Learning Applied to SEM Images for Supporting Marine Coralline Algae Classification. Diversity, 2021, 13, 640.	0.7	8

#	ARTICLE	IF	CITATIONS
1900	Automated Detection of Breast Cancer Metastases. , 2021, , .		0
1901	Multiclass Colorectal Cancer Histology Images Classification Using Vision Transformers. , 2021, , .		6
1902	Empirical analysis of the residual information needed for image classification. , 2021, , .		0
1904	KerasBERT: Modeling the Keras Language. , 2021, , .		5
1905	Classification of imbalanced cloud image data using deep neural networks: performance improvement through a data science competition. Progress in Earth and Planetary Science, 2021, 8, .	1.1	6
1906	Image Captioning using Deep Learning: Text Augmentation by Paraphrasing via Backtranslation. , 2021, , .		5
1907	TLGAN: Conditional Style-Based Traffic light Generation with Generative Adversarial Networks. , 2021, , .		0
1908	Colon Cancer Classification of Histopathological Images Using Data Augmentation. , 2021, , .		6
1909	The Automatic Classification of Pyriproxyfen-Affected Mosquito Ovaries. Insects, 2021, 12, 1134.	1.0	4
1910	A Multiple-Input Based Convolutional Neural Network in Breast Cancer Classification from Histopathological Images. , 2021, , .		1
1911	An Alternative Lightness Control with GAN for Augmenting Camera Data. , 2020, , .		0
1912	Multiple Sclerosis Disease Diagnosis and Prognosis in 3D FLAIR MRI Using Deep Learning Network. SSRN Electronic Journal, 0, , .	0.4	0
1913	DL4SciVis: A State-of-the-Art Survey on Deep Learning for Scientific Visualization. IEEE Transactions on Visualization and Computer Graphics, 2023, 29, 3714-3733.	2.9	13
1914	Efficient Data Augmentation Techniques for Improved Classification in Limited Data Set of Oral Squamous Cell Carcinoma. CMES - Computer Modeling in Engineering and Sciences, 2022, 131, 1387-1401.	0.8	0
1915	Automatic Lung Carcinoma Identification and Classification in CT Images Using CNN Deep Learning Model. Studies in Computational Intelligence, 2022, , 143-166.	0.7	4
1916	VGGIN-Net: Deep Transfer Network for Imbalanced Breast Cancer Dataset. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2023, 20, 752-762.	1.9	14
1917	Efficient Net: Identification of Crop Insects Using Convolutional Neural Networks. , 2022, , .		4
1918	Multi-lesion classification of WCE images based on deep sparse feature selection and feature fusion. , 2022, , .		O

#	Article	IF	CITATIONS
1919	Sybil Account Detection in Social Network Using Deep Neural Network. Proceedings in Adaptation, Learning and Optimization, 2022, , 131-139.	1.5	1
1920	Correlation-Based Data Augmentation for Machine Learning and its Application to Road Environment Recognition. IEEE Transactions on Vehicular Technology, 2022, , 1-1.	3.9	0
1921	Addressing Motion Blurs in Brain MRI Scans Using Conditional Adversarial Networks and Simulated Curvilinear Motions. Journal of Imaging, 2022, 8, 84.	1.7	0
1922	Data augmentation in natural language processing: a novel text generation approach for long and short text classifiers. International Journal of Machine Learning and Cybernetics, 2023, 14, 135-150.	2.3	30
1923	Improved resampling algorithm through a modified oversampling approach based on spectral clustering and SMOTE. Microsystem Technologies, 2022, 28, 2669-2677.	1.2	6
1924	Intelligent infrared sensing enabled by tunable moiré quantum geometry. Nature, 2022, 604, 266-272.	13.7	69
1925	Deep Learning for Type 1 Diabetes Mellitus Diagnosis Using Infrared Quantum Cascade Laser Spectroscopy. Materials, 2022, 15, 2984.	1.3	11
1926	WDP-BNN: Efficient wafer defect pattern classification via binarized neural network. The Integration VLSI Journal, 2022, 85, 76-86.	1.3	6
1927	Chess Al: Competing Paradigms for Machine Intelligence. Entropy, 2022, 24, 550.	1.1	12
1928	FreMix: Frequency-Based Mixup for Data Augmentation. Wireless Communications and Mobile Computing, 2022, 2022, 1-8.	0.8	2
1929	Ranking the information content of distance measures. , 2022, 1, .		13
1930	Finding a Suitable Class Distribution for Building Histological Images Datasets Used in Deep Model Training—The Case of Cancer Detection. Journal of Digital Imaging, 2022, 35, 1326-1349.	1.6	1
1931	An Automated Image-Based Multivariant Concrete Defect Recognition Using a Convolutional Neural Network with an Integrated Pooling Module. Sensors, 2022, 22, 3118.	2.1	7
1932	Data Augmentation for Improved Stress Prognostics for Encapsulated Standard Packages by Neural Networks Using Data from in-situ Condition Monitoring during Thermal Shock Tests. , 2022, , .		0
1933	Cross subkey side channel analysis based on small samples. Scientific Reports, 2022, 12, 6254.	1.6	6
1934	A high-generalizability machine learning framework for predicting the progression of Alzheimer's disease using limited data. Npj Digital Medicine, 2022, 5, 43.	5.7	16
1935	Tuning of data augmentation hyperparameters in deep learning to building construction image classification with small datasets. International Journal of Machine Learning and Cybernetics, 2023, 14, 171-186.	2.3	8
1936	Pre-trained deep learning-based classification of jujube fruits according to their maturity level. Neural Computing and Applications, 2022, 34, 13925-13935.	3.2	13

#	Article	IF	CITATIONS
1937	Automated deep learning approach for classification of malignant melanoma and benign skin lesions. Multimedia Tools and Applications, 2022, 81, 32643-32660.	2.6	17
1938	Segmentation Performance Comparison Considering Regional Characteristics in Chest X-ray Using Deep Learning. Sensors, 2022, 22, 3143.	2.1	3
1939	An Artificial Tactile Neuron Enabling Spiking Representation of Stiffness and Disease Diagnosis. Advanced Materials, 2022, 34, e2201608.	11.1	20
1940	Clinical Machine Learning Modeling Studies: Methodology and Data Reporting. Journal of Neuro-Ophthalmology, 2022, Publish Ahead of Print, .	0.4	1
1941	Towards a safe and efficient clinical implementation of machine learning in radiation oncology by exploring model interpretability, explainability and data-model dependency. Physics in Medicine and Biology, 2022, 67, 11TR01.	1.6	21
1942	Using deep learning to predict abdominal age from liver and pancreas magnetic resonance images. Nature Communications, 2022, 13, 1979.	5.8	17
1943	Binary classification of welding defect based on deep learning. Science and Technology of Welding and Joining, 2022, 27, 407-417.	1.5	7
1944	Caveat emptor: On the Need for Baseline Quality Standards in Computer Vision Wood Identification. Forests, 2022, 13, 632.	0.9	2
1945	Deep Evolutionary Learning for Molecular Design. IEEE Computational Intelligence Magazine, 2022, 17, 14-28.	3.4	9
1946	YOLO5-spear: A robust and real-time spear tips locator by improving image augmentation and lightweight network for selective harvesting robot of white asparagus. Biosystems Engineering, 2022, 218, 43-61.	1.9	16
1947	Recognition of void defects in airport runways using ground-penetrating radar and shallow CNN. Automation in Construction, 2022, 138, 104260.	4.8	22
1948	Synthesized rain images for deraining algorithms. Neurocomputing, 2022, 492, 421-439.	3 . 5	2
1949	Automated semantic segmentation of NiCrBSi-WC optical microscopy images using convolutional neural networks. Computational Materials Science, 2022, 210, 111391.	1.4	7
1953	Numerical learning of deep features from drug-exposed cell images to calculate IC50 without staining. Scientific Reports, 2022, 12, 6610.	1.6	5
1954	An EEG-based systematic explainable detection framework for probing and localizing abnormal patterns in Alzheimer's disease. Journal of Neural Engineering, 2022, 19, 036007.	1.8	2
1955	Identification of the Raman Salivary Fingerprint of Parkinson's Disease Through the Spectroscopic– Computational Combinatory Approach. Frontiers in Neuroscience, 2021, 15, 704963.	1.4	12
1956	DeepCyto: a hybrid framework for cervical cancer classification by using deep feature fusion of cytology images. Mathematical Biosciences and Engineering, 2022, 19, 6415-6434.	1.0	7
1957	Bilevel Methods for Image Reconstruction. Foundations and Trends in Signal Processing, 2022, 15, 121-289.	12.0	5

#	Article	IF	Citations
1959	Artificial Intelligence in Neuro-Oncologic Imaging: A Brief Review for Clinical Use Cases and Future Perspectives. Brain Tumor Research and Treatment, 2022, 10, 69.	0.4	3
1960	A Comparative Analysis of a Designed CNN and AlexNet for Image Classification on Small Datasets. Studies in Computational Intelligence, 2022, , 441-446.	0.7	1
1961	PlausMal-GAN: Plausible Malware Training Based on Generative Adversarial Networks for Analogous Zero-Day Malware Detection. IEEE Transactions on Emerging Topics in Computing, 2023, 11, 82-94.	3.2	7
1962	Image Classification With Small Datasets: Overview and Benchmark. IEEE Access, 2022, 10, 49233-49250.	2.6	9
1963	Generating Training Data Using Python Scripts for Automatic Extraction of Landmarks from Tooth Models. Journal of Hard Tissue Biology, 2022, 31, 95-100.	0.2	0
1964	Identification of Microcontroller Unit Instruction Execution Using Electromagnetic Leakage and Neural Network Classification. IEEE Transactions on Electromagnetic Compatibility, 2022, 64, 930-940.	1.4	2
1965	IB-GAN: A Unified Approach for Multivariate Time Series Classification under Class Imbalance., 2022,, 217-225.		7
1967	Deep Oversampling Technique for 4-Level Acne Classification in Imbalanced Data. Lecture Notes in Networks and Systems, 2022, , 297-306.	0.5	1
1968	Capturing Time Dynamics From Speech Using Neural Networks for Surgical Mask Detection. IEEE Journal of Biomedical and Health Informatics, 2022, 26, 4291-4302.	3.9	1
1970	Radio Frequency Fingerprinting Improved by Statistical Noise Reduction. IEEE Transactions on Cognitive Communications and Networking, 2022, 8, 1444-1452.	4.9	6
1971	Predicting Individual Quality Ratings of Compressed Images Through Deep Cnns-Based Artificial Observers. SSRN Electronic Journal, 0, , .	0.4	0
1972	Automatic Polyp Detection by Combining Conditional Generative Adversarial Network and Modified You-Only-Look-Once. IEEE Sensors Journal, 2022, 22, 10841-10849.	2.4	11
1974	ADAM Challenge: Detecting Age-Related Macular Degeneration From Fundus Images. IEEE Transactions on Medical Imaging, 2022, 41, 2828-2847.	5.4	21
1975	Quantum–Classical Image Processing for Scene Classification. , 2022, 6, 1-4.		3
1976	Early Detection of Casava Plant Leaf Diseases using EfficientNet-B0. , 2022, , .		2
1977	Ensemble Machine Learning Approach for Brain Tumor Classification Analysis. , 2022, , .		2
1978	Breast Cancer: Breast Tumor Detection Using Deep Transfer Learning Techniques in Mammogram Images. , 2022, , .		5
1979	Image Set Quality Optimization for Handwritten Gujarati Character and Its Modifier Recognition. , 2022, , .		1

#	ARTICLE	IF	CITATIONS
1980	Handling Load Uncertainty during On-Peak Time via Dual ESS and LSTM with Load Data Augmentation. Energies, 2022, 15, 3001.	1.6	2
1981	A Contrastive Learning Pre-Training Method for Motif Occupancy Identification. International Journal of Molecular Sciences, 2022, 23, 4699.	1.8	0
1982	Multichannel convolution neural network for gas mixture classification. Annals of Operations Research, $0, 1$.	2.6	1
1983	Automated measurement of total kidney volume from 3D ultrasound images of patients affected by polycystic kidney disease and comparison to MR measurements. Abdominal Radiology, 2022, 47, 2408-2419.	1.0	12
1984	Retrieval of the planetary boundary layer height from lidar measurements by a deep-learning method based on the wavelet covariance transform. Optics Express, 2022, 30, 16297.	1.7	1
1985	Transfer Learning-Based Automatic Hurricane Damage Detection Using Satellite Images. Electronics (Switzerland), 2022, 11, 1448.	1.8	10
1987	Implementation of a Control Strategy for Hydrodynamics of a Stirred Liquid–Liquid Extraction Column Based on Convolutional Neural Networks. ACS Engineering Au, 2022, 2, 369-377.	2.3	8
1988	Deep Neural Network with Data Cropping Algorithm for Absorptive Frequencyâ€Selective Transmission Metasurface. Advanced Optical Materials, 2022, 10, .	3.6	8
1989	Korean Named Entity Recognition Using Data Augmentation Techniques. Journal of Korean Institute of Industrial Engineers, 2022, 48, 176-184.	0.1	0
1990	Crop Growth Monitoring System in Vertical Farms Based on Region-of-Interest Prediction. Agriculture (Switzerland), 2022, 12, 656.	1.4	6
1991	Detection of Defective Steel Surface with Image Segmentation. , 2022, , .		1
1992	Forecasting the June Ridge Line of the Western Pacific Subtropical High with a Machine Learning Method. Atmosphere, 2022, 13, 660.	1.0	2
1993	Model-Agnostic Augmentation for Accurate Graph Classification. , 2022, , .		0
1994	Corroded Bolt Identification Using Mask Region-Based Deep Learning Trained on Synthesized Data. Sensors, 2022, 22, 3340.	2.1	8
1995	Data augmentation through multivariate scenario forecasting in Data Centers using Generative Adversarial Networks. Applied Intelligence, 2023, 53, 1469-1486.	3.3	8
1996	Seismic multiple suppression based on a deep neural network method for marine data. Geophysics, 2022, 87, V341-V365.	1.4	9
1997	Data Augmentation for Building Footprint Segmentation in SAR Images: An Empirical Study. Remote Sensing, 2022, 14, 2012.	1.8	5
1999	Automatic Cancer Cell Taxonomy Using an Ensemble of Deep Neural Networks. Cancers, 2022, 14, 2224.	1.7	5

#	Article	IF	CITATIONS
2000	Automatic Fire Detection and Notification System Based on Improved YOLOv4 for the Blind and Visually Impaired. Sensors, 2022, 22, 3307.	2.1	40
2001	A two-stage automatic labeling method for detecting abnormal food items in X-ray images. Journal of Food Measurement and Characterization, 0 , , 1 .	1.6	1
2002	Region-Based Split Octonion Networks with Channel Attention Module for Tuna Classification. International Journal of Pattern Recognition and Artificial Intelligence, 2022, 36, .	0.7	1
2003	Real-Time Instance Segmentation of Metal Screw Defects Based on Deep Learning Approach. Measurement Science Review, 2022, 22, 107-111.	0.6	3
2004	Classification of salivary gland tumors in optical coherence tomography images based on deep learning. Laser Physics, 2022, 32, 065601.	0.6	1
2005	DeepGhostBusters: Using Mask R-CNN to detect and mask ghosting and scattered-light artifacts from optical survey images. Astronomy and Computing, 2022, 39, 100580.	0.8	6
2006	Using a Convolutional Neural Network as Feature Extractor for Different Machine Learning Classifiers to Diagnose Pneumonia. Sakarya University Journal of Computer and Information Sciences, 2022, 5, 48-61.	0.6	0
2007	Essential Oils Biofilm Modulation Activity and Machine Learning Analysis on Pseudomonas aeruginosa Isolates from Cystic Fibrosis Patients. Microorganisms, 2022, 10, 887.	1.6	11
2008	Deep Learning-Based Total Kidney Volume Segmentation in Autosomal Dominant Polycystic Kidney Disease Using Attention, Cosine Loss, and Sharpness Aware Minimization. Diagnostics, 2022, 12, 1159.	1.3	21
2009	Big Data Seismology. Reviews of Geophysics, 2022, 60, .	9.0	24
2010	Distribution Augmentation for Low-Resource Expressive Text-To-Speech. , 2022, , .		3
2011	On-Board Crowd Counting and Density Estimation Using Low Altitude Unmanned Aerial Vehiclesâ€"Looking beyond Beating the Benchmark. Remote Sensing, 2022, 14, 2288.	1.8	6
2012	Optimizing Convolutional Neural Networks with Transfer Learning for Making Classification Report in COVID-19 Chest X-Rays Scans. Scientific Programming, 2022, 2022, 1-13.	0.5	6
2013	A Two-Stage Method to Detect the Sex Ratio of Hemp Ducks Based on Object Detection and Classification Networks. Animals, 2022, 12, 1177.	1.0	4
2014	CNN–SVM hybrid model for varietal classification of wheat based on bulk samples. European Food Research and Technology, 2022, 248, 2043-2052.	1.6	20
2015	A comparison of strategies for generating artificial replicates in RNA-seq experiments. Scientific Reports, 2022, 12, 7170.	1.6	3
2016	SODA: Self-Organizing Data Augmentation in Deep Neural Networks Application to Biomedical Image Segmentation Tasks., 2022,,.		0
2017	BDD-Net: An End-to-End Multiscale Residual CNN for Earthquake-Induced Building Damage Detection. Remote Sensing, 2022, 14, 2214.	1.8	5

#	Article	IF	CITATIONS
2018	Automated vision-based inspection of mould and part quality in soft tooling injection moulding using imaging and deep learning. CIRP Annals - Manufacturing Technology, 2022, 71, 429-432.	1.7	6
2019	An Investigation in Analyzing the Food Quality Well-Being for Lung Cancer Using Blockchain through CNN. Journal of Food Quality, 2022, 2022, 1-11.	1.4	8
2020	Automatic coastline extraction through enhanced sea-land segmentation by modifying Standard U-Net. International Journal of Applied Earth Observation and Geoinformation, 2022, 109, 102785.	0.9	10
2021	Medical deep learning—A systematic meta-review. Computer Methods and Programs in Biomedicine, 2022, 221, 106874.	2.6	76
2022	Raga Recognition in Indian Carnatic Music Using Convolutional Neural Networks. Wseas Transactions on Acoustics and Music, 2022, 9, 5-10.	0.2	0
2023	Malignant Bone Tumors Diagnosis Using Magnetic Resonance Imaging Based on Deep Learning Algorithms. Medicina (Lithuania), 2022, 58, 636.	0.8	11
2024	A multi-variate heart disease optimization and recognition framework. Neural Computing and Applications, 2022, 34, 15907-15944.	3.2	14
2025	A computer-aided diagnosis system for detecting various diabetic retinopathy grades based on a hybrid deep learning technique. Medical and Biological Engineering and Computing, 2022, 60, 2015-2038.	1.6	23
2026	Joint training of a predictor network and a generative adversarial network for time series forecasting: A case study of bearing prognostics. Expert Systems With Applications, 2022, 203, 117415.	4.4	13
2027	Enhancement of Image Classification Using Transfer Learning and GAN-Based Synthetic Data Augmentation. Mathematics, 2022, 10, 1541.	1.1	13
2028	An Intelligent ECG-Based Tool for Diagnosing COVID-19 via Ensemble Deep Learning Techniques. Biosensors, 2022, 12, 299.	2.3	27
2029	Intermix: An Interference-Based Data Augmentation and Regularization Technique for Automatic Deep Sound Classification. , 2022, , .		0
2030	Detecting racial inequalities in criminal justice: towards an equitable deep learning approach for generating and interpreting racial categories using mugshots. Al and Society, 2023, 38, 897-918.	3.1	3
2031	Tooth Localization using YOLOv3 for Dental Diagnosis on Panoramic Radiographs. IEEJ Transactions on Electronics, Information and Systems, 2022, 142, 557-562.	0.1	2
2032	Subspace Clustering Using Unsupervised Data Augmentation., 2022,,.		0
2033	Optical spectrum augmentation for machine learning powered spectroscopic ellipsometry. Optics Express, 2022, 30, 16909.	1.7	2
2034	How variability shapes learning and generalization. Trends in Cognitive Sciences, 2022, 26, 462-483.	4.0	60
2035	Auditory-Based Data Augmentation for end-to-end Automatic Speech Recognition., 2022,,.		1

#	Article	IF	CITATIONS
2036	A novel dual-channel brain tumor detection system for MR images using dynamic and static features with conventional machine learning techniques. Waves in Random and Complex Media, 0, , 1-20.	1.6	9
2037	Neural network training with limited precision and asymmetric exponent. Journal of Big Data, 2022, 9, .	6.9	3
2038	A novel deep learning method for marine oil spill detection from satellite synthetic aperture radar imagery. Marine Pollution Bulletin, 2022, 179, 113666.	2.3	30
2039	Deep learning identification of stiffness markers in breast cancer. Biomaterials, 2022, 285, 121540.	5.7	8
2040	Performance evaluation of China's photovoltaic poverty alleviation project using machine learning and satellite images. Utilities Policy, 2022, 76, 101378.	2.1	6
2041	Automatic concrete crack segmentation model based on transformer. Automation in Construction, 2022, 139, 104275.	4.8	41
2042	LDS-YOLO: A lightweight small object detection method for dead trees from shelter forest. Computers and Electronics in Agriculture, 2022, 198, 107035.	3.7	41
2043	EpNet: Power lines foreign object detection with Edge Proposal Network and data composition. Knowledge-Based Systems, 2022, 249, 108857.	4.0	7
2044	A novel classification approach based on context connotative network (CCNet): A case of construction site accidents. Expert Systems With Applications, 2022, 202, 117281.	4.4	8
2045	The effect of augmentation and transfer learning on the modelling of lower-limb sockets using 3D adversarial autoencoders. Displays, 2022, 74, 102190.	2.0	2
2046	Deep learning-based data analytics for safety in construction. Automation in Construction, 2022, 140, 104302.	4.8	28
2047	A multi-task learning for cavitation detection and cavitation intensity recognition of valve acoustic signals. Engineering Applications of Artificial Intelligence, 2022, 113, 104904.	4.3	13
2048	Optimization and sensitivity analysis of existing deep learning models for pavement surface monitoring using low-quality images. Automation in Construction, 2022, 140, 104332.	4.8	3
2049	A new data augmentation method for EEG features based on the hybrid model of broad-deep networks. Expert Systems With Applications, 2022, 202, 117386.	4.4	7
2050	Phalaenopsis growth phase classification using convolutional neural network. Smart Agricultural Technology, 2022, 2, 100060.	3.1	2
2051	Mexican traffic sign detection and classification using deep learning. Expert Systems With Applications, 2022, 202, 117247.	4.4	8
2052	Method for Visual Video Defects Detection using Machine Learning. , 2021, 2864, 87-96.		0
2053	Deep Learning Methodologies for Diagnosis of Respiratory Disorders from Chest X-ray Images: A Comparative Study. , 2021, 2, .		O

#	ARTICLE	IF	CITATIONS
2054	PM2.5 prediction with Recurrent Neural Networks and Data Augmentation., 2021,,.		0
2055	Breast Cancer Classification from Histopathological Images using Convolutional Neural Network. , 2021, , .		4
2056	Study of Deep Learning-based Hand Gesture Recognition Toward the Design of a Low-cost Prosthetic Hand. SHS Web of Conferences, 2022, 139, 03006.	0.1	0
2057	High/Low Quality Style Transfer for Mutual Conversion of OCT Images Using Contrastive Unpaired Translation Generative Adversarial Networks. Lecture Notes in Computer Science, 2022, , 210-220.	1.0	1
2058	Contamination classification for pellet quality inspection using deep learning. Computers and Chemical Engineering, 2022, 163, 107836.	2.0	2
2059	An empirical analysis of image augmentation against model inversion attack in federated learning. Cluster Computing, 2023, 26, 349-366.	3.5	4
2060	EllSeg-Gen, towards Domain Generalization for Head-Mounted Eyetracking. Proceedings of the ACM on Human-Computer Interaction, 2022, 6, 1-17.	2.5	2
2063	Accuracy Comparison of Different Batch Size for a Supervised Machine Learning Task with Image Classification., 2022,,.		5
2064	Design and Implementation of Machine Vision-Based Quality Inspection System in Mask Manufacturing Process. Sustainability, 2022, 14, 6009.	1.6	9
2065	Image Analysis and Diagnosis of Skin Diseases - A Review. Current Medical Imaging, 2023, 19, 199-242.	0.4	1
2066	Ensemble model for rail surface defects detection. PLoS ONE, 2022, 17, e0268518.	1.1	9
2067	Artificial Intelligence for the Estimation of Visual Acuity Using Multi-Source Anterior Segment Optical Coherence Tomographic Images in Senile Cataract. Frontiers in Medicine, 2022, 9, .	1.2	0
2068	AAC: Automatic Augmentation for Crowd Counting. Neurocomputing, 2022, 500, 90-98.	3.5	4
2069	Learning the matrix of few-mode fibers for high-fidelity spatial mode transmission. APL Photonics, 2022, 7, .	3.0	21
2070	Multi-Class CNN for Classification of Multispectral and Autofluorescence Skin Lesion Clinical Images. Journal of Clinical Medicine, 2022, 11, 2833.	1.0	9
2071	Arabic Sign Language Detection Using Deep Learning Based Pose Estimation., 2021,,.		2
2072	Input layer regularization for magnetic resonance relaxometry biexponential parameter estimation. Magnetic Resonance in Chemistry, 2022, 60, 1076-1086.	1.1	0
2073	Data Augmentation Using Bitplane Information Recombination Model. IEEE Transactions on Image Processing, 2022, 31, 3713-3725.	6.0	3

#	Article	IF	CITATIONS
2074	Recognition andÂlnformation Extraction inÂHistorical Handwritten Tables: Toward Understanding Early \$\$20^{th}\$\$ Century Paris Census. Lecture Notes in Computer Science, 2022, , 143-157.	1.0	6
2076	Generalizing to Unseen Domains: A Survey on Domain Generalization. IEEE Transactions on Knowledge and Data Engineering, 2022, , 1-1.	4.0	143
2077	Image-Bot: Generating Synthetic Object Detection Datasets for Small and Medium-Sized Manufacturing Companies. Procedia CIRP, 2022, 107, 434-439.	1.0	3
2078	Multibranch Feature Difference Learning Network for Cross-Spectral Image Patch Matching. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-15.	2.7	3
2079	Interpretable Hybrid Experimental Learning for Trading Behavior Modeling in Electricity Market. IEEE Transactions on Power Systems, 2023, 38, 1022-1032.	4.6	2
2080	An Impact ofÂData Augmentation Techniques onÂtheÂRobustness ofÂCNNs. Lecture Notes in Networks and Systems, 2022, , 331-339.	0.5	2
2082	The Devil is in the Details: Whole Slide Image Acquisition and Processing for Artifacts Detection, Color Variation, and Data Augmentation: A Review. IEEE Access, 2022, 10, 58821-58844.	2.6	31
2083	A Deep Learning Approach for the Morphological Recognition of Reactive Lymphocytes in Patients with COVID-19 Infection. Bioengineering, 2022, 9, 229.	1.6	6
2084	Attention Mechanisms Evaluated on Stenosis Detection using X-ray Angiography Images. Journal of Advances in Applied & Computational Mathematics, 0, 9, 62-75.	0.1	1
2085	Prediction of GPCR activity using machine learning. Computational and Structural Biotechnology Journal, 2022, 20, 2564-2573.	1.9	16
2086	Framework for denoising Monte Carlo photon transport simulations using deep learning. Journal of Biomedical Optics, 2022, 27, .	1.4	2
2087	Research on classification algorithm of cerebral small vessel disease based on convolutional neural network. Journal of Intelligent and Fuzzy Systems, 2023, 44, 3107-3114.	0.8	1
2088	Robust High-Throughput Phenotyping with Deep Segmentation Enabled by a Web-Based Annotator. Plant Phenomics, 2022, 2022, .	2.5	2
2089	DSE-YOLO: Detail semantics enhancement YOLO for multi-stage strawberry detection. Computers and Electronics in Agriculture, 2022, 198, 107057.	3.7	35
2090	An efficient fault classification method in solar photovoltaic modules using transfer learning and multi-scale convolutional neural network. Engineering Applications of Artificial Intelligence, 2022, 113, 104959.	4.3	42
2091	Robust training approach of neural networks for fluid flow state estimations. International Journal of Heat and Fluid Flow, 2022, 96, 108997.	1.1	10
2092	Identifying, Evaluating, andÂAddressing Nondeterminism inÂMask R-CNNs. Lecture Notes in Computer Science, 2022, , 3-14.	1.0	0
2093	Federated Learning via Over-the-Air Computation With Statistical Channel State Information. IEEE Transactions on Wireless Communications, 2022, 21, 9351-9365.	6.1	9

#	Article	IF	CITATIONS
2094	COVIHunt: An Intelligent CNN-Based COVID-19 Detection Using CXR Imaging. Lecture Notes in Electrical Engineering, 2022, , 313-327.	0.3	3
2095	Hand Gesture Recognition by Hand Landmark Classification. International Symposium on Affective Science and Engineering, 2022, ISASE2022, 1-4.	0.1	0
2096	DOT-HAZMAT: An Android Application for Detection of Hazardous Materials (HAZMAT) Signs. SSRN Electronic Journal, 0, , .	0.4	0
2097	A Deep Learning Framework for Event Detection in Augmented Twitter Data. SSRN Electronic Journal, 0, , .	0.4	1
2098	Dyadic Affect in Parent-Child Multimodal Interaction: Introducing the DAMI-P2C Dataset and its Preliminary Analysis. IEEE Transactions on Affective Computing, 2023, 14, 3345-3361.	5.7	2
2099	Augment Small Training Sets Using Matching-Graphs. Lecture Notes in Computer Science, 2022, , 343-354.	1.0	1
2100	Conventional Data Augmentation Techniques for Plant Disease Detection and Classification Systems. Smart Innovation, Systems and Technologies, 2022, , 279-287.	0.5	5
2101	Detection of Diabetes Mellitus With Deep Learning and Data Augmentation Techniques on Foot Thermography. IEEE Access, 2022, 10, 59564-59591.	2.6	4
2102	Detection and Location of Domestic Waste for Planning Its Collection Using an Autonomous Robot. , 2022, , .		2
2103	Data Augmentation in Time and Doppler Frequency Domain for Radar-based Gesture Recognition. , 2022,		2
2104	Application of Deep Convolution Network Algorithm in Sports Video Hot Spot Detection. Frontiers in Neurorobotics, 2022, 16, .	1.6	0
2105	Slice imputation: Multiple intermediate slices interpolation for anisotropic 3D medical image segmentation. Computers in Biology and Medicine, 2022, 147, 105667.	3.9	7
2106	Data augmentation based on spatial deformations for histopathology: An evaluation in the context of glomeruli segmentation. Computer Methods and Programs in Biomedicine, 2022, 221, 106919.	2.6	1
2107	Deep learning as a tool for ecology and evolution. Methods in Ecology and Evolution, 2022, 13, 1640-1660.	2.2	55
2108	Breast Cancer: Using Deep Transfer Learning Techniques AlexNet Convolutional Neural Network For Breast Tumor Detection in Mammography Images. , 2022, , .		7
2109	Ensembling Residual Networks for Multi-Label Sound Event Recognition with Weak Labeling. , 2022, , .		2
2110	Image Augmentation Techniques for Mammogram Analysis. Journal of Imaging, 2022, 8, 141.	1.7	43
2111	Machine Learning for the Detection and Segmentation of Benign Tumors of the Central Nervous System: A Systematic Review. Cancers, 2022, 14, 2676.	1.7	7

#	Article	IF	CITATIONS
2112	A Comprehensive Survey for Deep-Learning-Based Abnormality Detection in Smart Grids with Multimodal Image Data. Applied Sciences (Switzerland), 2022, 12, 5336.	1.3	4
2113	Diagnostic-Quality Guided Wave Signals Synthesized Using Generative Adversarial Neural Networks. Sensors, 2022, 22, 3848.	2.1	1
2114	Robust high-resolution direction-of-arrival estimation method using DenseBlock-based U-net. Journal of the Acoustical Society of America, 2022, 151, 3426-3436.	0.5	4
2115	Deep learning network for integrated coil inhomogeneity correction and brain extraction of mixed MRI data. Scientific Reports, 2022, 12, .	1.6	2
2116	Clustering-based adaptive data augmentation for class-imbalance in machine learning (CADA): additive manufacturing use case. Neural Computing and Applications, 0, , .	3.2	4
2117	Reducing rip current drowning: An improved residual based lightweight deep architecture for rip detection. ISA Transactions, 2023, 132, 199-207.	3.1	2
2118	Machine Learning for Cataract Classification/Grading on Ophthalmic Imaging Modalities: A Survey. , 2022, 19, 184-208.		26
2119	Ramifications of incorrect image segmentations; emphasizing on the potential effects on deep learning methods failure. Journal of Big Data, 2022, 9, .	6.9	0
2120	Balancing Data through Data Augmentation Improves the Generality of Transfer Learning for Diabetic Retinopathy Classification. Applied Sciences (Switzerland), 2022, 12, 5363.	1.3	8
2121	Malaria parasite classification framework using a novel channel squeezed and boosted CNN. Microscopy (Oxford, England), 2022, 71, 271-282.	0.7	16
2122	A Hybrid Framework for Lung Cancer Classification. Electronics (Switzerland), 2022, 11, 1614.	1.8	31
2123	Convolutional neural network-based automatic cervical vertebral maturation classification method. Dentomaxillofacial Radiology, 2022, 51, .	1.3	4
2124	Towards Deep Radar Perception for Autonomous Driving: Datasets, Methods, and Challenges. Sensors, 2022, 22, 4208.	2.1	31
2125	Core Challenges in Embodied Vision-Language Planning. Journal of Artificial Intelligence Research, 0, 74, 459-515.	7.0	8
2126	Autoencoder-guided GAN for minority-class cloth-changing gait data generation., 2022, 128, 103608.		5
2127	Odonata identification using Customized Convolutional Neural Networks. Expert Systems With Applications, 2022, 206, 117688.	4.4	2
2128	Prediction-Based Human-Robot Collaboration in Assembly Tasks Using a Learning from Demonstration Model. Sensors, 2022, 22, 4279.	2.1	8
2129	Deep Learning Applied to COVID-19 Detection in X-Ray Images. Advances in Medical Diagnosis, Treatment, and Care, 2022, , 202-247.	0.1	0

#	Article	IF	CITATIONS
2130	Novelty detection for metabolic dynamics established on breast cancer tissue using 2D NMR TOCSY spectra. Computational and Structural Biotechnology Journal, 2022, 20, 2965-2977.	1.9	2
2131	Synthetic 18F-FDG PET Image Generation Using a Combination of Biomathematical Modeling and Machine Learning. Cancers, 2022, 14, 2786.	1.7	10
2132	Exploring Image Generation for UAV Change Detection. IEEE/CAA Journal of Automatica Sinica, 2022, 9, 1061-1072.	8.5	9
2133	Data Augmented Incremental Learning (DAIL) for Unsupervised Data. IEICE Transactions on Information and Systems, 2022, E105.D, 1185-1195.	0.4	1
2134	Material measurement units for a circular economy: Foundations through a review. Sustainable Production and Consumption, 2022, 32, 833-850.	5.7	3
2135	Deep Learning in Neuroimaging: Overcoming Challenges With Emerging Approaches. Frontiers in Psychiatry, 2022, 13, .	1.3	5
2136	Evaluation of deep learning models for detecting breast cancer using histopathological mammograms Images. Sustainable Operations and Computers, 2022, 3, 296-302.	6.3	14
2137	Accurate virus identification with interpretable Raman signatures by machine learning. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	3.3	19
2138	Performance evaluation of deep transfer learning on multi-class identification of common weed species in cotton production systems. Computers and Electronics in Agriculture, 2022, 198, 107091.	3.7	46
2139	Copula-based transformer in EEG to assess visual discomfort induced by stereoscopic 3D. Biomedical Signal Processing and Control, 2022, 77, 103803.	3.5	3
2140	Improved swarm optimization of deep features for glaucoma classification using SEGSO and VGGNet. Biomedical Signal Processing and Control, 2022, 77, 103845.	3.5	3
2141	Application of Machine Learning in Optimizing Proton Exchange Membrane Fuel Cells: A Review. Energy and Al, 2022, 9, 100170.	5.8	54
2142	BIM-driven data augmentation method for semantic segmentation in superpoint-based deep learning network. Automation in Construction, 2022, 140, 104373.	4.8	12
2144	Hateful Meme Prediction Model Using Multimodal Deep Learning. , 2021, , .		2
2145	Effective Utilization of A Low-Cost Solution for Remote Sensing of Vehicles and Pedestrians., 2021,,.		2
2146	Fish Species Classification with Data Augmentation. , 2021, , .		6
2147	Data-Enhancement-Aided Protocol-Agnostic Transmitter Recognition for Open-Set in IoT. IEEE Internet of Things Journal, 2023, 10, 8630-8644.	5.5	2
2148	A Novel Boundary Loss Function in Deep Convolutional Networks to Improve the Buildings Extraction From High-Resolution Remote Sensing Images. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2022, 15, 4437-4454.	2.3	3

#	Article	IF	Citations
2149	A Robust Approach for Brain Tumor Detection in Magnetic Resonance Images Using Finetuned EfficientNet. IEEE Access, 2022, 10, 65426-65438.	2.6	69
2150	An Analysis on Ensemble Learning Optimized Medical Image Classification With Deep Convolutional Neural Networks. IEEE Access, 2022, 10, 66467-66480.	2.6	26
2151	PD-ResNet for Classification of Parkinson's Disease From Gait. IEEE Journal of Translational Engineering in Health and Medicine, 2022, 10, 1-11.	2.2	12
2152	Joint Optimization for DNN Model Compression and Corruption Robustness. , 2022, , 405-427.		2
2153	Aircarft Signal Feature Extraction and Recognition Based on Deep Learning. IEEE Transactions on Vehicular Technology, 2022, 71, 9625-9634.	3.9	2
2154	A Theoretical Energy Loss Calculation Method for Transformer District Based on Improved Convolutional Neural Networks. IEEE Transactions on Industry Applications, 2022, 58, 5885-5894.	3.3	0
2155	Data Augmentation in High Dimensional Low Sample Size Setting Using a Geometry-Based Variational Autoencoder. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, , 1-18.	9.7	14
2156	Efficient Approaches forÂData Augmentation byÂUsing Generative Adversarial Networks. Communications in Computer and Information Science, 2022, , 386-399.	0.4	2
2158	Agricultural plant cataloging and establishment of a data framework from UAV-based crop images by computer vision. GigaScience, 2022, 11 , .	3.3	11
2159	Pneumonia Detection Proposing a Hybrid Deep Convolutional Neural Network Based on Two Parallel Visual Geometry Group Architectures and Machine Learning Classifiers. IEEE Access, 2022, 10, 62110-62128.	2.6	24
2160	Segmentation of Mammogram Images Using Deep Learning for Breast Cancer Detection., 2022, , .		3
2161	Early Detection of Network Attacks Using Deep Learning. , 2022, , .		12
2162	Systematic Training and Testing for Machine Learning Using Combinatorial Interaction Testing. , 2022, , .		7
2163	Multi-Label Classification of Jasmine Rice Germination Using Deep Neural Network. , 2022, , .		2
2164	A New Multi-Sensor Stream Data Augmentation Method for Imbalanced Learning in Complex Manufacturing Process. Sensors, 2022, 22, 4042.	2.1	2
2165	Automated Detection of COVID-19 Using Deep Learning Approaches with Paper-Based ECG Reports. Circuits, Systems, and Signal Processing, 2022, 41, 5535-5577.	1.2	12
2166	Emotion Recognition from Facial Images using Hybrid Deep Learning Models. , 2022, , .		3
2167	Deep Learning Methods to Reveal Important X-ray Features in COVID-19 Detection: Investigation of Explainability and Feature Reproducibility. Reports, 2022, 5, 20.	0.2	5

#	Article	IF	CITATIONS
2168	Facial Password Data Augmentation., 2022,,.		1
2169	Real-Time Plastic Surface Defect Detection Using Deep Learning. , 2022, , .		5
2170	A Survey on Data Augmentation for Text Classification. ACM Computing Surveys, 2023, 55, 1-39.	16.1	93
2171	Multimodal registration across 3D point clouds and CT-volumes. Computers and Graphics, 2022, 106, 259-266.	1.4	6
2172	Augmented Score-CAM: High resolution visual interpretations for deep neural networks. Knowledge-Based Systems, 2022, 252, 109287.	4.0	10
2173	Deep learning detects invasive plant species across complex landscapes using Worldviewâ€⊋ and Planetscope satellite imagery. Remote Sensing in Ecology and Conservation, 2022, 8, 875-889.	2.2	12
2174	An autonomous robot for shell and tube heat exchanger inspection. Journal of Field Robotics, 2022, 39, 1165-1177.	3.2	2
2175	Medical Text Classification Based on an Optimized Machine Learning and External Semantic Resource. Journal of Circuits, Systems and Computers, 2022, 31, .	1.0	5
2176	Semi-Automatic Prostate Segmentation From Ultrasound Images Using Machine Learning and Principal Curve Based on Interpretable Mathematical Model Expression. Frontiers in Oncology, 0, 12, .	1.3	7
2177	Machine Learning of Raman Spectroscopy Data for Classifying Cancers: A Review of the Recent Literature. Diagnostics, 2022, 12, 1491.	1.3	14
2178	Deep learning for emergency ascites diagnosis using ultrasonography images. Journal of Applied Clinical Medical Physics, 2022, 23, .	0.8	12
2179	Automatic taxonomic identification based on the Fossil Image Dataset (>415,000 images) and deep convolutional neural networks. Paleobiology, 2023, 49, 1-22.	1.3	13
2180	deepNIR: Datasets for Generating Synthetic NIR Images and Improved Fruit Detection System Using Deep Learning Techniques. Sensors, 2022, 22, 4721.	2.1	10
2181	Multiple Ocular Disease Diagnosis Using Fundus Images Based on Multi-Label Deep Learning Classification. Electronics (Switzerland), 2022, 11, 1966.	1.8	6
2182	Deep learning for necrosis detection using canine perivascular wall tumour whole slide images. Scientific Reports, 2022, 12, .	1.6	5
2183	Smartphone-Acquired Anterior Segment Images for Deep Learning Prediction of Anterior Chamber Depth: A Proof-of-Concept Study. Frontiers in Medicine, 0, 9, .	1.2	0
2184	Piecewise linear neural networks and deep learning. Nature Reviews Methods Primers, 2022, 2, .	11.8	11
2185	Design of Real-Time Object Detection in Mobile Robot for Volcano Monitoring Application. Journal of Physics: Conference Series, 2022, 2243, 012038.	0.3	1

#	Article	IF	CITATIONS
2186	Cardiac segmentation on CT Images through shape-aware contour attentions. Computers in Biology and Medicine, 2022, 147, 105782.	3.9	6
2187	Solving the class imbalance problem using a counterfactual method for data augmentation. Machine Learning With Applications, 2022, 9, 100375.	3.0	11
2188	Identification of New Classical Be Stars from the LAMOST Medium Resolution Survey. Astrophysical Journal, Supplement Series, 2022, 260, 35.	3.0	8
2189	Applying convolutional neural networks to speed up environmental DNA annotation in a highly diverse ecosystem. Scientific Reports, 2022, 12, .	1.6	2
2190	Image Retrieval for Local Architectural Heritage Recommendation Based on Deep Hashing. Buildings, 2022, 12, 809.	1.4	6
2191	Towards the Identification and Classification of Solar Granulation Structures Using Semantic Segmentation. Frontiers in Astronomy and Space Sciences, 0, 9, .	1.1	1
2192	Enabling Convenient Online Collaborative Writing for Low Vision Screen Magnifier Users. , 2022, , .		3
2193	Bayesian statisticsâ€guided label refurbishment mechanism: Mitigating label noise in medical image classification. Medical Physics, 0, , .	1.6	1
2194	Artificial intelligence using deep learning analysis of endoscopic ultrasonography images for the differential diagnosis of pancreatic masses. Endoscopy, 2023, 55, 140-149.	1.0	11
2195	Prediction of seakeeping in the early stage of conventional monohull vessels design using artificial neural network. Journal of Ocean Engineering and Science, 2023, 8, 344-366.	1.7	2
2196	Multimodal Classification: Current Landscape, Taxonomy and Future Directions. ACM Computing Surveys, 2023, 55, 1-31.	16.1	19
2197	Nautilus: An Optimized System for Deep Transfer Learning over Evolving Training Datasets. , 2022, , .		1
2198	GAN augmentation for multiclass image classification using hemorrhage detection as a case-study. Journal of Medical Imaging, 2022, 9, .	0.8	1
2199	Comparative Analysis of Backbone Networks for Deep Knee MRI Classification Models. Big Data and Cognitive Computing, 2022, 6, 69.	2.9	2
2200	Cascaded foreign object detection in manufacturing processes using convolutional neural networks and synthetic data generation methodology. Journal of Intelligent Manufacturing, 2023, 34, 2925-2941.	4.4	10
2201	HAP: An Efficient Hamming Space Index Based on Augmented Pigeonhole Principle. , 2022, , .		3
2202	MixPatch: A New Method for Training Histopathology Image Classifiers. Diagnostics, 2022, 12, 1493.	1.3	1
2203	Posture and sequence recognition for Bharatanatyam dance performances using machine learning approaches. Journal of Visual Communication and Image Representation, 2022, 87, 103548.	1.7	8

#	Article	IF	CITATIONS
2204	Detection and classification of gastrointestinal disease using convolutional neural network and SVM. Cogent Engineering, 2022, 9, .	1.1	23
2205	A video based benchmark data set (ENDOTEST) to evaluate computer-aided polyp detection systems. Scandinavian Journal of Gastroenterology, 2022, 57, 1397-1403.	0.6	10
2206	Deep Learning to Measure the Intensity of Indocyanine Green in Endometriosis Surgeries with Intestinal Resection. Journal of Personalized Medicine, 2022, 12, 982.	1.1	3
2207	Examining the effect of synthetic data augmentation in polyp detection and segmentation. International Journal of Computer Assisted Radiology and Surgery, 2022, 17, 1289-1302.	1.7	5
2208	Realistic 3D infant head surfaces augmentation to improve Al-based diagnosis of cranial deformities. Journal of Biomedical Informatics, 2022, 132, 104121.	2.5	0
2209	Normal hatching rate estimation for bulk samples of Pacific bluefin tuna (Thunnus orientalis) eggs using deep learning. Aquacultural Engineering, 2022, 98, 102274.	1.4	3
2210	Fast and Efficient Method for Optical Coherence Tomography Images Classification Using Deep Learning Approach. Sensors, 2022, 22, 4675.	2.1	5
2211	Deep transfer learning for the recognition of types of face masks as a core measure to prevent the transmission of COVID-19. Applied Soft Computing Journal, 2022, 125, 109207.	4.1	16
2212	SoK: The Impact of Unlabelled Data in Cyberthreat Detection. , 2022, , .		8
2213	An MRI Scans-Based Alzheimer's Disease Detection via Convolutional Neural Network and Transfer Learning. Diagnostics, 2022, 12, 1531.	1.3	32
2214	Advanced Analysis of 3D Kinect Data: Supervised Classification of Facial Nerve Function via Parallel Convolutional Neural Networks. Applied Sciences (Switzerland), 2022, 12, 5902.	1.3	5
2215	Balance label correction using contrastive loss. Information Sciences, 2022, 607, 1061-1073.	4.0	4
2216	Spatially autocorrelated training and validation samples inflate performance assessment of convolutional neural networks. ISPRS Open Journal of Photogrammetry and Remote Sensing, 2022, 5, 100018.	1.3	19
2217	Assessing the effects of convolutional neural network architectural factors on model performance for remote sensing image classification: An in-depth investigation. International Journal of Applied Earth Observation and Geoinformation, 2022, 112, 102865.	0.9	7
2218	Deep learning for Alzheimer's disease diagnosis: A survey. Artificial Intelligence in Medicine, 2022, 130, 102332.	3.8	43
2219	CoviXNet: A novel and efficient deep learning model for detection of COVID-19 using chest X-Ray images. Biomedical Signal Processing and Control, 2022, 78, 103848.	3.5	30
2220	A tree classifier based network intrusion detection model for Internet of Medical Things. Computers and Electrical Engineering, 2022, 102, 108158.	3.0	33
2221	A hybrid data-driven framework for diagnosing contributing factors for soil heavy metal contaminations using machine learning and spatial clustering analysis. Journal of Hazardous Materials, 2022, 437, 129324.	6.5	13

#	Article	IF	CITATIONS
2222	Machine learning techniques for estimating seismic site amplification in the Santiago basin, Chile. Engineering Geology, 2022, 306, 106764.	2.9	2
2223	A turnaround control system to automatically detect and monitor the time stamps of ground service actions in airports: A deep learning and computer vision based approach. Engineering Applications of Artificial Intelligence, 2022, 114, 105032.	4.3	7
2224	Geometric transformation-based data augmentation on defect classification of segmented images of semiconductor materials using a ResNet50 convolutional neural network. Expert Systems With Applications, 2022, 206, 117731.	4.4	29
2225	Fetal Electrocardiogram Extraction Using Dual-Path Source Separation of Single-Channel Non-Invasive Abdominal Recordings. IEEE Transactions on Biomedical Engineering, 2023, 70, 283-295.	2.5	14
2227	Deep Learning Based Classification of Military Cartridge Cases and Defect Segmentation. IEEE Access, 2022, 10, 74961-74976.	2.6	7
2228	Personalization in Federated Learning. , 2022, , 71-98.		2
2229	Synthesis for image analysis across modalities. , 2022, , 195-216.		0
2231	Leveraging Deep Convolutional Neural Networks Pre-Trained on Autonomous Driving Data for Vehicle Detection From Roadside LiDAR Data. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 22367-22377.	4.7	10
2233	A Novel Optimization-Based Convolution Neural Network to Estimate the Contribution of Sensory Inputs to Postural Stability During Quiet Standing. IEEE Journal of Biomedical and Health Informatics, 2022, 26, 4414-4425.	3.9	2
2234	A Deep Learning Method for Breast Cancer Classification in the Pathology Images. IEEE Journal of Biomedical and Health Informatics, 2022, 26, 5025-5032.	3.9	38
2235	A Progressive Learning Strategy for Large-Scale Glacier Mapping. IEEE Access, 2022, 10, 72615-72627.	2.6	1
2236	Random Forest Based Deep Hybrid Architecture for Histopathological Breast Cancer Images Classification. Lecture Notes in Computer Science, 2022, , 3-18.	1.0	1
2237	Using a Convolutional Neural Network to Identify the Penetration Depth of Surface Defects with Saw Signals Excited by the Transient Thermal Grating Method. SSRN Electronic Journal, 0, , .	0.4	0
2238	AdaRes: ResNet50 with AdaSwarm for Glaucoma Classification & amp; Detection., 2022,,.		0
2239	SapientML., 2022,,.		1
2240	Object Insertion Based Data Augmentation for Semantic Segmentation. , 2022, , .		4
2241	Real-time Macedonian Sign Language Recognition System by using Transfer Learning. , 2022, , .		3
2242	DeepState., 2022,,.		6

#	Article	IF	Citations
2243	Semantic Masking: A Novel Technique to Mitigate the Class-Imbalance Problem in Real-Time Semantic Segmentation. , 2022, , .		1
2244	Adaptive test selection for deep neural networks., 2022,,.		11
2245	Bridging pre-trained models and downstream tasks for source code understanding. , 2022, , .		30
2246	A universal data augmentation approach for fault localization. , 2022, , .		18
2247	Unleashing the power of compiler intermediate representation to enhance neural program embeddings. , 2022, , .		5
2248	On the Automatic Detection and Classification of Skin Cancer Using Deep Transfer Learning. Sensors, 2022, 22, 4963.	2.1	36
2249	Deep learning-based efficient metamodeling via domain knowledge-integrated designable data augmentation with transfer learning: application to vehicle crash safety. Structural and Multidisciplinary Optimization, 2022, 65, .	1.7	1
2250	Food Image-based Nutritional Management System to Overcome Polycystic Ovary Syndrome using DeepLearning: A Systematic Review. International Journal of Image and Graphics, 2023, 23, .	1.2	8
2251	Predicting terrorist attacks in the United States using localized news data. PLoS ONE, 2022, 17, e0270681.	1.1	3
2252	Artificial Intelligence Based Detection And Classification of Diseases using Chest X-Ray Images. International Journal of Advanced Research in Science, Communication and Technology, 0, , 280-286.	0.0	0
2253	How Many Private Data Are Needed for Deep Learning in Lung Nodule Detection on CT Scans? A Retrospective Multicenter Study. Cancers, 2022, 14, 3174.	1.7	4
2254	Deep learning exploration for SPECT MPI polar map images classification in coronary artery disease. Annals of Nuclear Medicine, 2022, 36, 823-833.	1.2	9
2255	Deep preference learning for multiple criteria decision analysis. European Journal of Operational Research, 2023, 305, 781-805.	3.5	17
2257	A Fusion-Denoising Attack on InstaHide with Data Augmentation. Proceedings of the AAAI Conference on Artificial Intelligence, 2022, 36, 1899-1907.	3.6	1
2258	A real-time remote surveillance system for fruit flies of economic importance: sensitivity and image analysis. Journal of Pest Science, 2023, 96, 611-622.	1.9	7
2259	A Deep Learning Approach for Classification of Dentinal Tubule Occlusions. Applied Artificial Intelligence, 2022, 36, .	2.0	3
2260	AviPer: assisting visually impaired people to perceive the world with visual-tactile multimodal attention network. CCF Transactions on Pervasive Computing and Interaction, 2022, 4, 219-239.	1.7	2
2261	A Secure Framework toward IoMT-Assisted Data Collection, Modeling, and Classification for Intelligent Dermatology Healthcare Services. Contrast Media and Molecular Imaging, 2022, 2022, 1-18.	0.4	6

#	Article	IF	CITATIONS
2262	Automated Cardiac Chamber Size and Cardiac Physiology Measurement in Water Fleas by U-Net and Mask RCNN Convolutional Networks. Animals, 2022, 12, 1670.	1.0	2
2263	72â€4: <i>Invited Paper:</i> Synthetic Defect Generation for Display Frontâ€ofâ€Screen Quality Inspection: A Survey. Digest of Technical Papers SID International Symposium, 2022, 53, 975-978.	0.1	1
2264	Easyâ€"Ensemble Augmented-Shot-Y-Shaped Learning: State-of-the-Art Few-Shot Classification with Simple Components. Journal of Imaging, 2022, 8, 179.	1.7	20
2265	An End-To-End Pipeline for Fully Automatic Morphological Quantification of Mouse Brain Structures From MRI Imagery. Frontiers in Bioinformatics, 0, 2, .	1.0	1
2266	Species determination using Al machine-learning algorithms: Hebeloma as a case study. IMA Fungus, 2022, 13, .	1.7	6
2267	FF-UNet: a U-Shaped Deep Convolutional Neural Network for Multimodal Biomedical Image Segmentation. Cognitive Computation, 2022, 14, 1287-1302.	3.6	34
2268	An optimized deep learning architecture for breast cancer diagnosis based on improved marine predators algorithm. Neural Computing and Applications, 2022, 34, 18015-18033.	3.2	43
2269	An overview of mixing augmentation methods and augmentation strategies. Artificial Intelligence Review, 2023, 56, 2111-2169.	9.7	17
2270	Evolutionary approximation and neural architecture search. Genetic Programming and Evolvable Machines, 2022, 23, 351-374.	1.5	9
2271	A Novel Multi-Objective Rat Swarm Optimizer-Based Convolutional Neural Networks for the Diagnosis of COVID-19 Disease. Automatic Control and Computer Sciences, 2022, 56, 198-208.	0.4	3
2272	A Preform Design Approach for Uniform Strain Distribution in Forging Processes Based on Convolutional Neural Network. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2022, 144, .	1.3	3
2273	What Did My Al Learn? How Data Scientists Make Sense of Model Behavior. ACM Transactions on Computer-Human Interaction, 2023, 30, 1-27.	4.6	7
2276	Curriculum Contrastive Context Denoising for Few-shot Conversational Dense Retrieval. , 2022, , .		10
2277	Multi-instance discriminative contrastive learning for brain image representation. Neural Computing and Applications, 0, , .	3.2	11
2278	Application of artificial intelligence in nuclear medicine and molecular imaging: a review of current status and future perspectives for clinical translation. European Journal of Nuclear Medicine and Molecular Imaging, 2022, 49, 4452-4463.	3.3	29
2279	Meta-Learning for Decoding Neural Activity Data With Noisy Labels. Frontiers in Computational Neuroscience, 0, 16 , .	1.2	2
2280	Deep learning to estimate permeability using geophysical data. Advances in Water Resources, 2022, 167, 104272.	1.7	3
2281	Assessment of Marine Debris on Hard-to-Reach Places Using Unmanned Aerial Vehicles and Segmentation Models Based on a Deep Learning Approach. Sustainability, 2022, 14, 8311.	1.6	2

#	Article	IF	CITATIONS
2282	Data augmentation for depression detection using skeleton-based gait information. Medical and Biological Engineering and Computing, 2022, 60, 2665-2679.	1.6	5
2283	An Integrated Goat Head Detection and Automatic Counting Method Based on Deep Learning. Animals, 2022, 12, 1810.	1.0	5
2284	Repair missing data to improve corporate credit risk prediction accuracy with multi-layer perceptron. Soft Computing, 2022, 26, 9167-9178.	2.1	3
2285	Deep learning for fast low-field MRI acquisitions. Scientific Reports, 2022, 12, .	1.6	13
2287	Crude Oil Leakage Detection Based on DAâ€SR Framework. Advanced Theory and Simulations, 2022, 5, .	1.3	4
2288	Accurate classification of white blood cells by coupling pre-trained ResNet and DenseNet with SCAM mechanism. BMC Bioinformatics, 2022, 23, .	1.2	20
2289	Learning on the Rings. , 2022, 6, 1-31.		4
2290	Plant Disease Detection Using Deep Convolutional Neural Network. Applied Sciences (Switzerland), 2022, 12, 6982.	1.3	52
2291	Advantages of deep learning with convolutional neural network in detecting disc displacement of the temporomandibular joint in magnetic resonance imaging. Scientific Reports, 2022, 12, .	1.6	12
2292	Deep learning in automated ultrasonic NDE – Developments, axioms and opportunities. NDT and E International, 2022, 131, 102703.	1.7	43
2293	Deep learning methods for enhancing coneâ€beam CT image quality toward adaptive radiation therapy: A systematic review. Medical Physics, 2022, 49, 6019-6054.	1.6	22
2294	Diagnosis of Autism Disorder Based on Deep Network Trained by Augmented EEG Signals. International Journal of Neural Systems, 2022, 32, .	3.2	8
2295	Panicle Ratio Network: streamlining rice panicle measurement by deep learning with ultra-high-definition aerial images in the field. Journal of Experimental Botany, 2022, 73, 6575-6588.	2.4	3
2296	Improving Deep Learning for Maritime Remote Sensing through Data Augmentation and Latent Space. Machine Learning and Knowledge Extraction, 2022, 4, 665-687.	3.2	4
2297	Use data augmentation for a deep learning classification model with chest X-ray clinical imaging featuring coal workers' pneumoconiosis. BMC Pulmonary Medicine, 2022, 22, .	0.8	7
2298	An automated liver tumour segmentation and classification model by deep learning based approaches. Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization, 2023, 11, 638-650.	1.3	12
2299	IndexPen. , 2022, 6, 1-39.		5
2300	Detecting flooding state in extraction columns: Convolutional neural networks vs. a whiteâ€box approach for imageâ€based soft sensor development. Computers and Chemical Engineering, 2022, 164, 107904.	2.0	5

#	Article	IF	CITATIONS
2301	AdaLN: A Vision Transformer for Multidomain Learning and Predisaster Building Information Extraction from Images. Journal of Computing in Civil Engineering, 2022, 36, .	2.5	6
2302	MemBrain: A deep learning-aided pipeline for detection of membrane proteins in Cryo-electron tomograms. Computer Methods and Programs in Biomedicine, 2022, 224, 106990.	2.6	15
2303	Monitoring deforestation in Jordan using deep semantic segmentation with satellite imagery. Ecological Informatics, 2022, 70, 101745.	2.3	13
2304	A deep convolutional neural network-based approach for detecting burn severity from skin burn images. Machine Learning With Applications, 2022, 9, 100371.	3.0	8
2305	Multi-task neural network in hydrological tomography to map the transmissivity and storativity simultaneously: HT-XNET. Journal of Hydrology, 2022, 612, 128167.	2.3	3
2306	Quantification of lung ventilation defects on hyperpolarized MRI: The Multi-Ethnic Study of Atherosclerosis (MESA) COPD study. Magnetic Resonance Imaging, 2022, 92, 140-149.	1.0	5
2307	StockNetâ€"GRU based stock index prediction. Expert Systems With Applications, 2022, 207, 117986.	4.4	32
2308	Generating realistic cyber data for training and evaluating machine learning classifiers for network intrusion detection systems. Expert Systems With Applications, 2022, 207, 117936.	4.4	9
2309	Multilevel Augmentation for Identifying Thin Vessels in Diabetic Retinopathy Using UNET Model. Intelligent Automation and Soft Computing, 2023, 35, 2273-2288.	1.6	2
2310	A Comprehensive Report on Machine Learning-based Early Detection of Alzheimer's Disease using Multi-modal Neuroimaging Data. ACM Computing Surveys, 2023, 55, 1-44.	16.1	23
2312	Environmental Sound Classification Based on Transfer-Learning Techniques with Multiple Optimizers. Electronics (Switzerland), 2022, 11, 2279.	1.8	3
2313	Cell image augmentation for classification task using GANs on Pap smear dataset. Biocybernetics and Biomedical Engineering, 2022, , .	3.3	0
2314	Learning More in Vehicle Re-Identification: Joint Local Blur Transformation and Adversarial Network Optimization. Applied Sciences (Switzerland), 2022, 12, 7467.	1.3	0
2315	LDADN: a local discriminant auxiliary disentangled network for key-region-guided chest X-ray image synthesis augmented in pneumoconiosis detection. Biomedical Optics Express, 2022, 13, 4353.	1.5	2
2316	Images of chemical structures as molecular representations for deep learning. Journal of Materials Research, 2022, 37, 2293-2303.	1.2	3
2317	Unsupervised few-shot image classification via one-vs-all contrastive learning. Applied Intelligence, 2023, 53, 7833-7847.	3.3	4
2318	The Impact of Data Augmentations on Deep Learning-Based Marine Object Classification in Benthic Image Transects. Sensors, 2022, 22, 5383.	2.1	1
2319	A Novel Deep Learning Model for Sea State Classification Using Visual-Range Sea Images. Symmetry, 2022, 14, 1487.	1.1	3

#	Article	IF	CITATIONS
2320	Assessing the impact of data augmentation and a combination of CNNs on leukemia classification. Information Sciences, 2022, 609, 1010-1029.	4.0	15
2321	Dynamic Dataset Augmentation for Deep Learning-based Oracle Bone Inscriptions Recognition. Journal on Computing and Cultural Heritage, 2022, 15, 1-20.	1.2	20
2322	Applying Image Recognition and Tracking Methods for Fish Physiology Detection Based on a Visual Sensor. Sensors, 2022, 22, 5545.	2.1	3
2323	A deep semantic vegetation health monitoring platform for citizen science imaging data. PLoS ONE, 2022, 17, e0270625.	1.1	0
2324	Machine Learning in Diagnosing Middle Ear Disorders Using Tympanic Membrane Images: A <scp>Metaâ€Analysis</scp> . Laryngoscope, 2023, 133, 732-741.	1.1	7
2325	Recent Advances in Baggage Threat Detection: A Comprehensive and Systematic Survey. ACM Computing Surveys, 2023, 55, 1-38.	16.1	5
2326	Spatial feature fusion in 3D convolutional autoencoders for lung tumor segmentation from 3D CT images. Biomedical Signal Processing and Control, 2022, 78, 103996.	3.5	2
2327	SAFE-OCC: A novelty detection framework for Convolutional Neural Network sensors and its application in process control. Journal of Process Control, 2022, 117, 78-97.	1.7	3
2328	GPR-GANs: Generation of Synthetic Ground Penetrating Radargrams Using Generative Adversarial Networks., 2021,,.		0
2329	Neural Network Robustness asÂaÂVerification Property: A Principled Case Study. Lecture Notes in Computer Science, 2022, , 219-231.	1.0	6
2330	Classification of Dianthus Seed Species with Deep Transfer Learning. SSRN Electronic Journal, 0, , .	0.4	0
2331	Weakly Supervised Region of Interest Extraction Based on Uncertainty-Aware Self-Refinement Learning for Remote Sensing Images. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-16.	2.7	4
2333	Multiexpert Adversarial Regularization for Robust and Data-Efficient Deep Supervised Learning. IEEE Access, 2022, 10, 85080-85094.	2.6	0
2334	Offline Corpus Augmentation for English-Amharic Machine Translation. , 2022, , .		2
2335	Cataract detection from eye fundus image using an ensemble of transfer learning models. , 2022, , .		1
2336	Classification of Parkinson's Disease using CNN and ANN with the aid of Drawing and Acoustic Feature. , 2022, , .		0
2337	Evaluating the Performance of State-of-the-art Methods and Classifying Covid-19 Infected Tissues. , 2022, , .		0
2338	Deep Learning Based Yoga Pose Classification. , 2022, , .		3

#	Article	IF	CITATIONS
2339	Object detection of UAV power line inspection images based on federated learning. , 2022, , .		2
2340	A method and experiment to evaluate deep neural networks as test oracles for scientific software. , 2022, , .		0
2341	How to increase and balance current DBT datasets via an Evolutionary GAN: preliminary results. , 2022, , .		0
2342	medXGAN: Visual Explanations for Medical Classifiers through a Generative Latent Space., 2022,,.		1
2343	Image Quality Assessment by Integration of Low-level & Eamp; High-Level Features: Threshold Similarity Index., 2022,,.		0
2344	Data Augmentation Techniques For Expanding The Dataset In The Task Of Image Processing. , 2022, , .		5
2345	An Ensemble Learning and Slice Fusion Strategy for Three-Dimensional Nuclei Instance Segmentation. , 2022, , .		4
2346	CNN-based Classification of Contaminated High Voltage Insulator Surface. , 2022, , .		1
2347	Material Swapping for 3D Scenes using a Learnt Material Similarity Measure. , 2022, , .		2
2348	A Simplified Convolutional Neural Network Design for COVID-19 Classification on Chest X-ray Images. , 2022, , .		3
2349	A Citizen Science Approach for the Collection of Data to Train Deep Learning Models. , 2022, , .		0
2350	AugLy: Data Augmentations for Adversarial Robustness. , 2022, , .		11
2351	Application of Generative Adversarial Network and Diverse Feature Extraction Methods to Enhance Classification Accuracy of Tool-Wear Status. Electronics (Switzerland), 2022, 11, 2364.	1.8	4
2352	Adaptive Data Augmentation for Deep Receivers. , 2022, , .		3
2353	Caries Level Classification using K-Nearest Neighbor, Support Vector Machine, and Decision Tree using Zernike Moment Invariant Features., 2022,,.		1
2354	Mixed Color Channels (MCC): A Universal Module for Mixed Sample Data Augmentation Methods. , 2022, , .		1
2355	Comparative analysis of some selected generative adversarial network models for image augmentation: a case study of COVID-19 x-ray and CT images. Journal of Intelligent and Fuzzy Systems, 2022, 43, 7153-7172.	0.8	2
2356	A Comparative Analysis of Deep Learning Models for Automated Cross-Preparation Diagnosis of Multi-Cell Liquid Pap Smear Images. Diagnostics, 2022, 12, 1838.	1.3	10

#	Article	IF	CITATIONS
2357	Using Deep Learning to Fill Data Gaps in Environmental Footprint Accounting. Environmental Science & E	4.6	8
2358	Distantly Supervised Named Entity Recognition with Self-Adaptive Label Correction. Applied Sciences (Switzerland), 2022, 12, 7659.	1.3	1
2359	Feature Normalization Reweighting Regression Network for Sugar Content Measurement of Grapes. Applied Sciences (Switzerland), 2022, 12, 7474.	1.3	2
2360	Synthesizing Diagnostic Burn Images For Deep Learning Applications. , 2022, , .		2
2361	CEDRNN: A Convolutional Encoder-Decoder Residual Neural Network for Liver Tumour Segmentation. Neural Processing Letters, 0, , .	2.0	3
2362	Surrogate- and invariance-boosted contrastive learning for data-scarce applications in science. Nature Communications, 2022, 13, .	5.8	4
2363	End-to-end deep learning framework for printed circuit board manufacturing defect classification. Scientific Reports, 2022, 12, .	1.6	29
2364	An Efficient Method for Breast Mass Classification Using Pre-Trained Deep Convolutional Networks. Mathematics, 2022, 10, 2539.	1.1	3
2365	Generalising from conventional pipelines using deep learning in high-throughput screening workflows. Scientific Reports, 2022, 12, .	1.6	2
2366	Cloth manipulation based on category classification and landmark detection. International Journal of Advanced Robotic Systems, 2022, 19, 172988062211104.	1.3	2
2367	Sample-Efficient Deep Learning Techniques for Burn Severity Assessment with Limited Data Conditions. Applied Sciences (Switzerland), 2022, 12, 7317.	1.3	4
2368	Lung cancer CT image generation from a free-form sketch using style-based pix2pix for data augmentation. Scientific Reports, 2022, 12, .	1.6	13
2369	Facial-sketch Synthesis: A New Challenge. , 2022, 19, 257-287.		10
2370	Accelerating Langevin Field-Theoretic Simulation of Polymers with Deep Learning. Macromolecules, 2022, 55, 6505-6515.	2.2	7
2371	AugRmixAT: A Data Processing and Training Method for Improving Multiple Robustness and Generalization Performance., 2022,,.		0
2372	Strawberry Pests and Diseases Detection Technique Optimized for Symptoms Using Deep Learning Algorithm. Saengmul Hwan'gyeong Jo'jeol Haghoeji, 2022, 31, 255-260.	0.2	2
2373	Olive Disease Classification Based on Vision Transformer and CNN Models. Computational Intelligence and Neuroscience, 2022, 2022, 1-10.	1.1	20
2374	Fracture Recognition in Paediatric Wrist Radiographs: An Object Detection Approach. Mathematics, 2022, 10, 2939.	1.1	4

#	Article	IF	CITATIONS
2375	Robust and Informative Text Augmentation (RITA) via Constrained Worst-Case Transformations for Low-Resource Named Entity Recognition. , 2022, , .		1
2376	Toward Learning Robust and Invariant Representations with Alignment Regularization and Data Augmentation., 2022,,.		0
2377	Deep Convolutional Generative Adversarial Networks to Enhance Artificial Intelligence in Healthcare: A Skin Cancer Application. Sensors, 2022, 22, 6145.	2.1	9
2378	Deep learning for quality assessment of optical coherence tomography angiography images. Scientific Reports, 2022, 12, .	1.6	4
2379	LMix: regularization strategy for convolutional neural networks. Signal, Image and Video Processing, 2023, 17, 1245-1253.	1.7	1
2380	A Machine Learning Framework for Predicting the Glass Transition Temperature of Homopolymers. Industrial & Description of Homopolymers (1998).	1.8	8
2381	Identification of pathogens in corn using near-infrared UAV imagery and deep learning. Precision Agriculture, 2023, 24, 783-806.	3.1	2
2382	Detection of developmental dysplasia of the hip in X-ray images using deep transfer learning. BMC Medical Informatics and Decision Making, 2022, 22, .	1.5	8
2383	An automated solid waste detection using the optimized YOLO model for riverine management. Frontiers in Public Health, 0, 10, .	1.3	5
2384	Plant Disease Detection using Deep Learning on Natural Environment Images. , 2022, , .		5
2386	Connected-SegNets: A Deep Learning Model for Breast Tumor Segmentation from X-ray Images. Cancers, 2022, 14, 4030.	1.7	7
2387	Automatic Detection of Tomato Diseases Using Deep Transfer Learning. Applied Sciences (Switzerland), 2022, 12, 8467.	1.3	11
2388	Built-Up Area Extraction from GF-3 SAR Data Based on a Dual-Attention Transformer Model. Remote Sensing, 2022, 14, 4182.	1.8	4
2389	EMM-LC Fusion: Enhanced Multimodal Fusion for Lung Cancer Classification. Al, 2022, 3, 659-682.	2.1	3
2390	A shallow deep learning approach to classify skin cancer using down-scaling method to minimize time and space complexity. PLoS ONE, 2022, 17, e0269826.	1.1	12
2391	CNN Based on Transfer Learning Models Using Data Augmentation and Transformation for Detection of Concrete Crack. Algorithms, 2022, 15, 287.	1.2	33
2392	Deep neural networks based predictive-generative framework with data augmentation for designing composite materials. Modelling and Simulation in Materials Science and Engineering, 2022, 30, 075003.	0.8	3
2393	Ensemble of deep capsule neural networks: an application to pediatric pneumonia prediction. Physical and Engineering Sciences in Medicine, 2022, 45, 949-959.	1.3	5

#	Article	IF	Citations
2394	Weighted average ensemble-based semantic segmentation in biological electron microscopy images. Histochemistry and Cell Biology, 2022, 158, 447-462.	0.8	11
2395	Developing artificial intelligence models for medical student suturing and knot-tying video-based assessment and coaching. Surgical Endoscopy and Other Interventional Techniques, 2023, 37, 402-411.	1.3	10
2396	Accurate species identification of food-contaminating beetles with quality-improved elytral images and deep learning. Frontiers in Artificial Intelligence, 0, 5, .	2.0	0
2397	Automatic 3-Dimensional Cephalometric Landmarking via Deep Learning. Journal of Dental Research, 2022, 101, 1380-1387.	2.5	16
2398	Tunnel Lining Defect Identification Method Based on Small Sample Learning. Wireless Communications and Mobile Computing, 2022, 2022, 1-9.	0.8	3
2399	Accurate segmentation of breast tumor in ultrasound images through joint training and refined segmentation. Physics in Medicine and Biology, 2022, 67, 175013.	1.6	4
2400	SMaTE: A Segment-Level Feature Mixing and Temporal Encoding Framework for Facial Expression Recognition. Sensors, 2022, 22, 5753.	2.1	1
2401	Dual-Biometric Human Identification Using Radar Deep Transfer Learning. Sensors, 2022, 22, 5782.	2.1	4
2402	Analysis of the Current Situation of Teaching and Learning of Ideological and Political Theory Courses by Deep Learning. Computational Intelligence and Neuroscience, 2022, 2022, 1-11.	1.1	1
2403	An Effective Orchestration for Fingerprint Presentation Attack Detection. Electronics (Switzerland), 2022, 11, 2515.	1.8	1
2404	A Perceptual Encryption-Based Image Communication System for Deep Learning-Based Tuberculosis Diagnosis Using Healthcare Cloud Services. Electronics (Switzerland), 2022, 11, 2514.	1.8	10
2405	Deep learning approach for designing acoustic absorbing metasurfaces with high degrees of freedom. Extreme Mechanics Letters, 2022, 56, 101879.	2.0	13
2406	Improving classification results on a small medical dataset using a GAN; An outlook for dealing with rare disease datasets. Frontiers in Computer Science, 0, 4, .	1.7	6
2407	Mitigating Bias in Radiology Machine Learning: 2. Model Development. Radiology: Artificial Intelligence, 2022, 4, .	3.0	29
2408	Deep learning approaches for anomalies detection of bladder ct contours in prostate cancer patients. Journal of Mechanics in Medicine and Biology, 0, , .	0.3	0
2409	Improving Fairness in Graph Neural Networks via Mitigating Sensitive Attribute Leakage., 2022,,.		18
2411	Generalisable 3D printing error detection and correction via multi-head neural networks. Nature Communications, 2022, 13, .	5.8	21
2412	Poultry diseases diagnostics models using deep learning. Frontiers in Artificial Intelligence, 0, 5, .	2.0	11

#	Article	IF	CITATIONS
2413	A Deep Learning Computer-Aided Diagnosis Approach for Breast Cancer. Bioengineering, 2022, 9, 391.	1.6	12
2414	Artificial intelligence in radiotherapy. Seminars in Cancer Biology, 2022, 86, 160-171.	4.3	14
2415	Improving Skin Color Diversity in Cancer Detection: Deep Learning Approach. JMIR Dermatology, 2022, 5, e39143.	0.4	11
2416	Close-range remote sensing-based detection and identification of macroplastics on water assisted by artificial intelligence: A review. Water Research, 2022, 222, 118902.	5.3	19
2417	Visual state estimation in unseen environments through domain adaptation and metric learning. Frontiers in Robotics and AI, 0, 9, .	2.0	1
2418	An improved transformer network for skin cancer classification. Computers in Biology and Medicine, 2022, 149, 105939.	3.9	48
2419	A Lightweight Neural Network-Based Method for Detecting Estrus Behavior in Ewes. Agriculture (Switzerland), 2022, 12, 1207.	1.4	9
2420	Feature Augmentation Based on Pixel-Wise Attention for Rail Defect Detection. Applied Sciences (Switzerland), 2022, 12, 8006.	1.3	0
2421	High Speed Simulation and Freeform Optimization of Nanophotonic Devices with Physics-Augmented Deep Learning. ACS Photonics, 2022, 9, 3110-3123.	3.2	25
2422	Supervised Contrastive Learning Approach for Contextual Ranking. , 2022, , .		2
2423	Artificial intelligence in the radiomic analysis of glioblastomas: A review, taxonomy, and perspective. Frontiers in Oncology, $0,12,.$	1.3	9
2424	The Use of Generative Adversarial Network as Graphical Support for Historical Urban Renovation. Lecture Notes on Data Engineering and Communications Technologies, 2023, , 738-748.	0.5	5
2425	PointTransformer: Encoding Human Local Features for Small Target Detection. Computational Intelligence and Neuroscience, 2022, 2022, 1-10.	1.1	0
2427	Semantic Segmentation of Agricultural Images Based on Style Transfer Using Conditional and Unconditional Generative Adversarial Networks. Applied Sciences (Switzerland), 2022, 12, 7785.	1.3	1
2428	BT-Unet: A self-supervised learning framework for biomedical image segmentation using barlow twins with U-net models. Machine Learning, 2022, 111, 4585-4600.	3.4	12
2429	Research on Image Identification Method of Rock Thin Slices in Tight Oil Reservoirs Based on Mask R-CNN. Energies, 2022, 15, 5818.	1.6	4
2430	GamaComet: A Deep Learning-Based Tool for the Detection and Classification of DNA Damage from Buccal Mucosa Comet Assay Images. Diagnostics, 2022, 12, 2002.	1.3	3
2431	Recognizing the Damaged Surface Parts of Cars in the Real Scene Using a Deep Learning Framework. Mathematical Problems in Engineering, 2022, 2022, 1-7.	0.6	5

#	Article	IF	Citations
2432	Integration of Photogrammetric and Spectral Techniques for Advanced Drone-Based Bathymetry Retrieval Using a Deep Learning Approach. Remote Sensing, 2022, 14, 4160.	1.8	3
2433	Automated Detection and Characterization of Colon Cancer with Deep Convolutional Neural Networks. Journal of Healthcare Engineering, 2022, 2022, 1-12.	1.1	18
2434	DocLayNet: A Large Human-Annotated Dataset for Document-Layout Segmentation., 2022,,.		15
2435	Learnability of the Boolean Innerproduct in Deep Neural Networks. Entropy, 2022, 24, 1117.	1.1	1
2436	Fast Seismic Landslide Detection Based on Improved Mask R-CNN. Remote Sensing, 2022, 14, 3928.	1.8	25
2437	Automatic Segmentation and Quantitative Assessment of Stroke Lesions on MR Images. Diagnostics, 2022, 12, 2055.	1.3	7
2438	Longitudinal detection of new MS lesions using deep learning. , 0, 1, .		3
2439	Automated Identification of Incomplete and Complete Retinal Epithelial Pigment and Outer Retinal Atrophy Using Machine Learning. Ophthalmology Retina, 2023, 7, 118-126.	1.2	10
2440	On Using Deep Artificial Intelligence to Automatically Detect Apple Diseases from Leaf Images. Sustainability, 2022, 14, 10322.	1.6	3
2441	COSTA., 2022,,.		25
2443	A Review on AI for Smart Manufacturing: Deep Learning Challenges and Solutions. Applied Sciences (Switzerland), 2022, 12, 8239.	1.3	10
2444	RG-GCN: A Random Graph Based on Graph Convolution Network for Point Cloud Semantic Segmentation. Remote Sensing, 2022, 14, 4055.	1.8	14
2445	HierMUD: Hierarchical multi-task unsupervised domain adaptation between bridges for drive-by damage diagnosis. Structural Health Monitoring, 2023, 22, 1941-1968.	4.3	6
2446	A Conditional GAN for Generating Time Series Data for Stress Detection in Wearable Physiological Sensor Data. Sensors, 2022, 22, 5969.	2.1	6
2447	An Optimized CNN Model for Engagement Recognition in an E-Learning Environment. Applied Sciences (Switzerland), 2022, 12, 8007.	1.3	10
2448	Baseline-independent stress classification based on facial StO2. Applied Intelligence, 2023, 53, 10255-10272.	3.3	2
2449	Multiclass anomaly detection in imbalanced structural health monitoring data using convolutional neural network. Journal of Infrastructure Preservation and Resilience, 2022, 3, .	1.5	4
2450	Artificial intelligence for image analysis in total hip and total knee arthroplasty. Bone and Joint Journal, 2022, 104-B, 929-937.	1.9	20

#	Article	IF	CITATIONS
2451	Improving Fault Localization Using Conditional Variational Autoencoder. IEICE Transactions on Information and Systems, 2022, E105.D, 1490-1494.	0.4	0
2452	Automatic measurement of acidity from roasted coffee beans images using efficient deep learning. Journal of Food Process Engineering, 2022, 45, .	1.5	2
2453	Horizontal Data Augmentation Strategy for Industrial Quality Prediction. ACS Omega, 0, , .	1.6	2
2454	Deep adversarial data augmentation for biomedical spectroscopy: Application to modelling Raman spectra of bone. Chemometrics and Intelligent Laboratory Systems, 2022, 228, 104634.	1.8	6
2455	A deep boosted transfer learning method for wind turbine gearbox fault detection. Renewable Energy, 2022, 197, 331-341.	4.3	23
2456	Deep convolutional neural network-based automated segmentation of the maxillofacial complex from cone-beam computed tomography:A validation study. Journal of Dentistry, 2022, 124, 104238.	1.7	26
2457	Generative adversarial networks (GANs) for image augmentation in agriculture: A systematic review. Computers and Electronics in Agriculture, 2022, 200, 107208.	3.7	73
2458	An image enhancement algorithm to improve road tunnel crack transfer detection. Construction and Building Materials, 2022, 348, 128583.	3.2	14
2459	Lightweight HI source finding for next generation radio surveys. Astronomy and Computing, 2022, 41, 100631.	0.8	2
2460	Application of multilayer perceptron with data augmentation in nuclear physics. Applied Soft Computing Journal, 2022, 128, 109470.	4.1	3
2461	A wavelet-based deep learning pipeline for efficient COVID-19 diagnosis via CT slices. Applied Soft Computing Journal, 2022, 128, 109401.	4.1	28
2462	Diabetic retinopathy screening using deep learning for multi-class imbalanced datasets. Computers in Biology and Medicine, 2022, 149, 105989.	3.9	25
2463	Multi-mineral segmentation of micro-tomographic images using a convolutional neural network. Computers and Geosciences, 2022, 168, 105217.	2.0	2
2464	Machine learning $\hat{a}\in$ An approach for consistent rock glacier mapping and inventorying $\hat{a}\in$ Example of Austria. Applied Computing and Geosciences, 2022, 16, 100093.	1.0	3
2465	Data augmentation for improving heating load prediction of heating substation based on TimeGAN. Energy, 2022, 260, 124919.	4.5	14
2466	Unmanned Aerial Vehicle Assisted Forest Fire Detection Using Deep Convolutional Neural Network. Intelligent Automation and Soft Computing, 2023, 35, 3259-3277.	1.6	8
2467	ASL Recognition by the Layered Learning Model Using Clustered Groups. Computer Systems Science and Engineering, 2023, 45, 51-68.	1.9	0
2468	Image-to-image translation with Generative Adversarial Networks via retinal masks for realistic Optical Coherence Tomography imaging of Diabetic Macular Edema disorders. Biomedical Signal Processing and Control, 2023, 79, 104098.	3.5	4

#	ARTICLE	IF	CITATIONS
2469	A review of machine learning techniques for identifying weeds in corn. Smart Agricultural Technology, 2023, 3, 100102.	3.1	11
2471	Uncertainty Inclusive Runway Balancing Using Convolutional Neural Network. Journal of Air Transportation, 0, , 1-10.	1.0	0
2472	Use of open-source object detection algorithms to detect Palmer amaranth (<i>Amaranthus) Tj ETQq0 0 0 rgBT</i>	Overlock 1 0.8	0 ₆ Tf 50 662
2473	Deep learning: A taxonomy of modern weapons to combat Covid‶9 similar pandemics in smart cities. Concurrency Computation Practice and Experience, 2022, 34, .	1.4	1
2474	Arm motion symmetry in conversation. Speech Communication, 2022, 144, 75-88.	1.6	2
2475	Machine learning in aerodynamic shape optimization. Progress in Aerospace Sciences, 2022, 134, 100849.	6.3	71
2476	Identification and reconstruction of concrete mesostructure based on deep learning in artificial intelligence. Construction and Building Materials, 2022, 352, 129018.	3.2	6
2477	Single-channel EEG sleep staging based on data augmentation and cross-subject discrepancy alleviation. Computers in Biology and Medicine, 2022, 149, 106044.	3.9	8
2478	Deep learning-based early weed segmentation using motion blurred UAV images of sorghum fields. Computers and Electronics in Agriculture, 2022, 202, 107388.	3.7	23
2479	Semantic segmentation of explosive volcanic plumes through deep learning. Computers and Geosciences, 2022, 168, 105216.	2.0	7
2480	Enhancing MR image segmentation with realistic adversarial data augmentation. Medical Image Analysis, 2022, 82, 102597.	7.0	18
2481	Interactive image manipulation using morphological trees and spline-based skeletons. Computers and Graphics, 2022, 108, 61-73.	1.4	3
2482	IC-U-Net: A U-Net-based Denoising Autoencoder Using Mixtures of Independent Components for Automatic EEG Artifact Removal. NeuroImage, 2022, 263, 119586.	2.1	13
2483	IEViT: An enhanced vision transformer architecture for chest X-ray image classification. Computer Methods and Programs in Biomedicine, 2022, 226, 107141.	2.6	16
2484	Improving mortality prediction in Acute Pancreatitis by machine learning and data augmentation. Computers in Biology and Medicine, 2022, 150, 106077.	3.9	11
2485	Asphalt pavement fatigue crack severity classification by infrared thermography and deep learning. Automation in Construction, 2022, 143, 104575.	4.8	16
2486	High-resolution atlasing and segmentation of the subcortex: Review and perspective on challenges and opportunities created by machine learning. NeuroImage, 2022, 263, 119616.	2.1	0
2487	Artificial intelligence for oral cancer diagnosis: What are the possibilities?. Oral Oncology, 2022, 134, 106117.	0.8	9

#	Article	IF	CITATIONS
2488	Vehicle detection and classification with spatio-temporal information obtained from CNN. Displays, 2022, 75, 102294.	2.0	7
2489	Document-level event argument extraction with self-augmentation and a cross-domain joint training mechanism. Knowledge-Based Systems, 2022, 257, 109904.	4.0	4
2490	A reanalysis-based multi-fidelity (RBMF) surrogate framework for efficient structural optimization. Computers and Structures, 2022, 273, 106895.	2.4	8
2492	Deep learning for cell shape analysis. , 2023, , 375-390.		0
2493	Survey onÂRemote Sensing Data Augmentation: Advances, Challenges, andÂFuture Perspectives. Lecture Notes in Networks and Systems, 2022, , 95-104.	0.5	1
2494	Data Augmentation and Domain Randomization: Empirical Approaches for Data-driven Robot Learning. Journal of the Robotics Society of Japan, 2022, 40, 605-608.	0.0	0
2495	An Ubiquitous 2.6 GHz Radio Propagation Model for Wireless Networks Using Self-Supervised Learning From Satellite Images. IEEE Access, 2022, 10, 78597-78615.	2.6	3
2496	Tomato Disease Recognition Using a Compact Convolutional Neural Network. IEEE Access, 2022, 10, 77213-77224.	2.6	16
2497	Real Time Power Equipment Meter Recognition Based on Deep Learning. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-15.	2.4	12
2498	Improved YOLOv5s Model for Vehicle Detection and Recognition. Lecture Notes in Computer Science, 2022, , 423-434.	1.0	2
2499	Augmentations: An Insight into Their Effectiveness on Convolution Neural Networks. Communications in Computer and Information Science, 2022, , 309-322.	0.4	3
2500	Architecture for Automatic Recognition of Group Activities Using Local Motions and Context. IEEE Access, 2022, 10, 79874-79889.	2.6	1
2501	Defect Detection and Quantification from Magnetic Flux Leakage Signals Based on Deep Learning. SSRN Electronic Journal, 0, , .	0.4	1
2502	Image Synthesis-Based Late Stage Cancer Augmentation andÂSemi-supervised Segmentation forÂMRI Rectal Cancer Staging. Lecture Notes in Computer Science, 2022, , 1-10.	1.0	1
2503	SiFu: A Generic and Robust Multimodal Signal Fusion Platform for Pervasive Localization. IEEE Internet of Things Journal, 2023, 10, 904-919.	5.5	1
2504	Dispersed Pixel Perturbation-Based Imperceptible Backdoor Trigger for Image Classifier Models. IEEE Transactions on Information Forensics and Security, 2022, 17, 3091-3106.	4.5	4
2505	Physiology-Based Simulation ofÂtheÂRetinal Vasculature Enables Annotation-Free Segmentation ofÂOCT Angiographs. Lecture Notes in Computer Science, 2022, , 330-340.	1.0	6
2506	Convolutional neural network-based MRI brain tumor classification system. AIP Conference Proceedings, 2022, , .	0.3	2

#	Article	IF	Citations
2507	Two Highly Accurate Electromagnetic Map Reconstruction Methods. IEEE Transactions on Vehicular Technology, 2022, 71, 12419-12424.	3.9	1
2508	Predicting Rigid Body Dynamics Using Dual Quaternion Recurrent Neural Networks With Quaternion Attention. IEEE Access, 2022, 10, 82923-82943.	2.6	5
2509	Augmentation Learning forÂSemi-Supervised Classification. Lecture Notes in Computer Science, 2022, , 85-98.	1.0	0
2510	Review of Pedestrian Trajectory Prediction Methods: Comparing Deep Learning and Knowledge-Based Approaches. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 24126-24144.	4.7	28
2511	Dense Sampling of Time Series for Forecasting. IEEE Access, 2022, 10, 75571-75580.	2.6	0
2512	Study on the Real-Time Object Detection Approach for Lithium-Based Secondary Battery in WEEE Recycling Process. SSRN Electronic Journal, 0, , .	0.4	0
2513	Detection of lesions in the optic nerve with magnetic resonance imaging using a 3D convolutional neural network. NeuroImage: Clinical, 2022, 36, 103187.	1.4	2
2514	A novel defect generation model based on two-stage GAN. E-Polymers, 2022, 22, 793-802.	1.3	2
2515	Probabilistic Image Diversification toÂlmprove Segmentation inÂ3D Microscopy Image Data. Lecture Notes in Computer Science, 2022, , 24-33.	1.0	1
2516	ReMix: A General andÂEfficient Framework forÂMultiple Instance Learning Based Whole Slide Image Classification. Lecture Notes in Computer Science, 2022, , 35-45.	1.0	8
2517	Ocean Surface Pollution Detection: Applicability Analysis of V-Net with Data Augmentation for Oil Spill and Other Related Ocean Surface Feature Monitoring. Lecture Notes in Networks and Systems, 2022, , 11-25.	0.5	1
2518	Fully Connected Generative Adversarial Network for Human Activity Recognition. IEEE Access, 2022, 10, 100257-100266.	2.6	6
2519	Pixel-Level Self-Supervised Learning for Semi-Supervised Building Extraction From Remote Sensing Images. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	1.4	2
2520	LiWGAN: A Light Method to Improve the Performance of Generative Adversarial Network. IEEE Access, 2022, 10, 93155-93167.	2.6	1
2521	Brain Tumor Classification using Transfer Learning from MRI Images. Lecture Notes in Networks and Systems, 2022, , 575-587.	0.5	0
2522	COVID-19 Chest X-Ray Classification withÂAugmented GAN. Lecture Notes in Networks and Systems, 2022, , 125-139.	0.5	0
2523	LCDAE: Data Augmented Ensemble Framework for Lung Cancer Classification. Technology in Cancer Research and Treatment, 2022, 21, 153303382211243.	0.8	29
2524	Mapless Navigation With Safety-Enhanced Imitation Learning. IEEE Transactions on Industrial Electronics, 2023, 70, 7073-7081.	5.2	6

#	Article	IF	CITATIONS
2525	Learning Grasp Ability Enhancement Through Deep Shape Generation. Lecture Notes in Computer Science, 2022, , 735-746.	1.0	1
2526	TC-SNet: A Triple-Channel Siamese Network Based on Few-Shot Learning for Apple Disease Detection. SSRN Electronic Journal, 0, , .	0.4	0
2527	Automated classification of fuel types using roadside images via deep learning. International Journal of Wildland Fire, 2022, 31, 982-987.	1.0	3
2528	Effect of Balancing Data Using Synthetic Data on the Performance of Machine Learning Classifiers for Intrusion Detection in Computer Networks. IEEE Access, 2022, 10, 96731-96747.	2.6	15
2529	Tuberculosis Diagnosis Using Deep Transferred EfficientNet. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2023, 20, 2639-2646.	1.9	7
2530	A Sense ofÂDirection inÂBiomedical Neural Networks. Lecture Notes in Computer Science, 2022, , 77-86.	1.0	0
2531	Transfer Learning With Optimal Transportation and Frequency Mixup for EEG-Based Motor Imagery Recognition. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2022, 30, 2866-2875.	2.7	12
2532	Remote Sensing Fine-Grained Ship Data Augmentation Pipeline With Local-Aware Progressive Image-to-Image Translation. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-16.	2.7	1
2533	A Lightweight Modified YOLOX Network Using Coordinate Attention Mechanism for PCB Surface Defect Detection. IEEE Sensors Journal, 2022, 22, 20910-20920.	2.4	27
2534	Roadway Detection Using Convolutional Neural Network Through Camera andÂLiDAR Data. Lecture Notes in Computer Science, 2022, , 419-430.	1.0	0
2535	A Defect Detection Method for a Boiler Inner Wall Based on an Improved YOLO-v5 Network and Data Augmentation Technologies. IEEE Access, 2022, 10, 93845-93853.	2.6	12
2536	Enhanced Resolution of FY4 Remote Sensing Visible Spectrum Images Utilizing Super-Resolution and Transfer Learning Techniques. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2022, 15, 7391-7399.	2.3	3
2537	Voice Conversion Based Augmentation and a Hybrid CNN-LSTM Model for Improving Speaker-Independent Keyword Recognition on Limited Datasets. IEEE Access, 2022, 10, 89170-89180.	2.6	11
2538	Prediction ofÂNeuropsychological Scores fromÂFunctional Connectivity Matrices Using Deep Autoencoders. Lecture Notes in Computer Science, 2022, , 140-151.	1.0	0
2539	A deep learning-based diagnostic tool for identifying various diseases via facial images. Digital Health, 2022, 8, 205520762211244.	0.9	11
2540	Machine Learning Model for Hepatitis C Diagnosis Customized to Each Patient. IEEE Access, 2022, 10, 106655-106672.	2.6	4
2541	A Fine-Grained Attention Model for High Accuracy Operational Robot Guidance. IEEE Internet of Things Journal, 2023, 10, 1066-1081.	5.5	3
2542	Demonstrating the Feasibility of Subepidermal Image Sensing for Hand Posture and Gesture Recognition., 2022, 6, 1-4.		0

#	Article	IF	CITATIONS
2543	A Single Stream Modified MobileNet V2 and Whale Controlled Entropy Based Optimization Framework for Citrus Fruit Diseases Recognition. IEEE Access, 2022, 10, 91828-91839.	2.6	10
2544	A Data Augmentation Pipeline to Generate Synthetic Labeled Datasets of 3D Echocardiography Images Using a GAN. IEEE Access, 2022, 10, 98803-98815.	2.6	7
2545	A Deep Learning Method for Motion Artifact Correction in Intravascular Photoacoustic Image Sequence. IEEE Transactions on Medical Imaging, 2023, 42, 66-78.	5.4	3
2546	A U-Net Based Progressive GAN forÂMicroscopic Image Augmentation. Lecture Notes in Computer Science, 2022, , 458-468.	1.0	2
2547	Prognostic Evaluation of Ductal Carcinoma in Situ Lesions Using Monoclonal Antibodies and Machine Learning. , 2022, , 1-26.		1
2548	A Region-Based Convolution Neural Network for Crop and Weed Classification in Smart Agriculture. SSRN Electronic Journal, 0, , .	0.4	0
2549	Adaptive RF Fingerprints Fusion via Dual Attention Convolutions. IEEE Internet of Things Journal, 2022, 9, 25181-25195.	5.5	8
2550	Mediastinal Lymph Node Detection and Segmentation Using Deep Learning. IEEE Access, 2022, 10, 89289-89307.	2.6	2
2551	Data Augmentation for Morphological Analysis of Histopathological Images Using Deep Learning. Lecture Notes in Computer Science, 2022, , 95-105.	1.0	0
2552	Durum wheat yield forecasting using machine learning. Artificial Intelligence in Agriculture, 2022, 6, 156-166.	4.4	0
2553	Do Pre-processing andÂAugmentation Help Explainability? AÂMulti-seed Analysis forÂBrain Age Estimation. Lecture Notes in Computer Science, 2022, , 12-21.	1.0	0
2554	A Full End-to-End Deep Approach for Detecting and Classifying Jaw Movements from Acoustic Signals in Grazing Cattle. SSRN Electronic Journal, 0, , .	0.4	0
2555	Mixup Data Augmentation for COVID-19 Infection Percentage Estimation. Lecture Notes in Computer Science, 2022, , 508-519.	1.0	1
2556	Domates yapraklarında hastalık tespiti için önerilen hafif evrişimli sinir ağı ile önceden eğitilmiş aĒ performans karşılaştırması. Journal of the Faculty of Engineering and Architecture of Gazi University, 0, , .	Ÿların 0.3	0
2557	Comparison of Transfer Learning Model Accuracy for Osteoporosis Classification on Knee Radiograph. , 2022, , .		2
2558	TemporalNet: Real-time 2D-3D Video Object Detection. , 2022, , .		1
2559	Breast Tumor Detection In Mammogram Images Using Convolutional Neural Networks., 2022,,.		0
2560	Elektrolýminesans Görüntülerde Arızalı Fotovoltaik Panel Hücrelerin Evrişimli Sinir Ağı ile Oton Sınıflandırılması. Fırat Üniversitesi Mühendislik Bilimleri Dergisi, 2022, 34, 589-600.	natik 0.2	2

#	Article	IF	CITATIONS
2561	Traffic Sign recognition for smart vehicles based on lightweight CNN implementation on mobile devices. , 2022, , .		1
2562	A Buyer-traceable DNN Model IP Protection Method Against Piracy and Misappropriation. , 2022, , .		0
2563	Comparative Transfer Learning Techniques for Plate Number Recognition. , 2022, , .		1
2564	Geometric and Textural Augmentation for Domain Gap Reduction. , 2022, , .		8
2565	Continual Test-Time Domain Adaptation. , 2022, , .		71
2566	Out-of-distribution Generalization with Causal Invariant Transformations. , 2022, , .		12
2567	A Simple Episodic Linear Probe Improves Visual Recognition in the Wild. , 2022, , .		4
2568	GLASS: Geometric Latent Augmentation for Shape Spaces. , 2022, , .		2
2569	Upright-Net: Learning Upright Orientation for 3D Point Cloud. , 2022, , .		4
2570	VGQ-CNN: Moving Beyond Fixed Cameras and Top-Grasps for Grasp Quality Prediction., 2022,,.		3
2571	Cloud-YLung for Non-Small Cell Lung Cancer Histology Classification from 3D Computed Tomography Whole-Lung Scans. , 2022, , .		2
2572	Visual Explanations of Deep Convolutional Neural Network for eye blinks detection in EEG-based BCI applications. , 2022, , .		2
2573	Hand Gesture Recognition using YOLO Models for Hearing and Speech Impaired People., 2022,,.		5
2574	Deep Transfer Learning Approach for Robust Hand Detection. Intelligent Automation and Soft Computing, 2023, 36, 967-979.	1.6	0
2575	AGILE - a meta learning framework for few-shot brain cell classification. , 2023, , 213-234.		0
2576	A Construction of Object Detection Model for Acute Myeloid Leukemia. Intelligent Automation and Soft Computing, 2023, 36, 543-560.	1.6	1
2577	ChestX-Ray6: Prediction of multiple diseases including COVID-19 from chest X-ray images using convolutional neural network. Expert Systems With Applications, 2023, 211, 118576.	4.4	16
2578	Towards optimal foreign object debris detection in an airport environment. Expert Systems With Applications, 2023, 213, 118829.	4.4	9

#	Article	IF	CITATIONS
2579	Improving Deep Learning-based Cardiac Abnormality Detection in 12-Lead ECG with Data Augmentation. , 2022, , .		1
2580	Synthetic Generation of Cardiac MR Images Combining Convolutional Variational Autoencoders and Style Transfer., 2022,,.		2
2581	Wafer Map Defect Pattern Recognition using Imbalanced Datasets. , 2022, , .		0
2582	EMG Data Augmentation for Grasp Classification Using Generative Adversarial Networks., 2022,,.		1
2583	Product Defect Detection Based on Multi-Class Classification. , 2022, , .		0
2584	A Novel Gradient Accumulation Method for Calibration of Named Entity Recognition Models. , 2022, , .		0
2585	Measuring the Impact of Data Augmentation Techniques in Lung Radiograph Classification Using a Fractional Factorial Design: A Covid-19 Case Study. , 2022, , .		0
2586	Effective Data Augmentation, Filters, and Automation Techniques for Automatic 12-Lead ECG Classification Using Deep Residual Neural Networks., 2022,,.		5
2587	Anomaly Detection in Airport based on Generative Adversarial Network for Intelligent Transportation System. , 2022, , .		1
2588	Orthotic Prescription for Pediatric Flexible Flat Feet using Convolutional Neural Networks. , 2022, , .		1
2589	Conditional Wasserstein GAN for Energy Load Forecasting in Large Buildings. , 2022, , .		2
2590	Defense-CycleGAN: A Defense Mechanism Against Adversarial Attacks Using CycleGAN to Reconstruct Clean Images. , 2022, , .		0
2591	Robust Fourier Watermarking for Print-Cam Process using Convolutional Neural Networks., 2022,,.		2
2592	Evaluation of Additional Augmented Images for Steel Surface Defect Detection. , 2022, , .		0
2593	A Bi-branch Dark Channel Differential Convolutional Neural Network for Occupational Pneumoconiosis Staging., 2022,,.		0
2594	Augmentation-induced Consistency Regularization for Classification. , 2022, , .		1
2595	GAN-Based Augmentation for Gender Classification from Speech Spectrograms. , 2022, , .		2
2596	Adaptive Shapelets Preservation for Time Series Augmentation. , 2022, , .		1

#	Article	IF	CITATIONS
2597	Deep Learning for Improved Individual Tree Detection from Lidar Data., 2022,,.		1
2599	ML4ML: Automated Invariance Testing for Machine Learning Models. , 2022, , .		0
2600	A New Approach for Detecting Fundus Lesions Using Image Processing and Deep Neural Network Architecture Based on YOLO Model. Sensors, 2022, 22, 6441.	2.1	15
2601	A Class-Imbalanced Study with Feature Extraction via PCA and Convolutional Autoencoder. , 2022, , .		3
2602	Use of Data Augmentation Techniques in Detection of Antisocial Behavior Using Deep Learning Methods. Future Internet, 2022, 14, 260.	2.4	7
2603	A Novel Method for COVID-19 Detection Based on DCNNs and Hierarchical Structure. Computational and Mathematical Methods in Medicine, 2022, 2022, 1-12.	0.7	0
2604	A Two-Step Learning Model for the Diagnosis of Coronavirus Disease-19 Based on Chest X-ray Images with 3D Rotational Augmentation. Applied Sciences (Switzerland), 2022, 12, 8668.	1.3	2
2605	On the analysis of data augmentation methods for spectral imaged based heart sound classification using convolutional neural networks. BMC Medical Informatics and Decision Making, 2022, 22, .	1.5	4
2606	MineBL: A Battery-Free Localization Scheme with Binocular Camera for Coal Mine. Sensors, 2022, 22, 6511.	2.1	3
2607	Data Augmentation Model for Audio Signal Extraction. , 2022, , .		0
2608	Image Augmentation based on Cross Domain Image Style Transfer. , 2022, , .		0
2609	MobileSkin: Classification of Skin Lesion Images Acquired Using Mobile Phone-Attached Hand-Held Dermoscopes. Journal of Clinical Medicine, 2022, 11, 5102.	1.0	5
2610	Neural network application for semantic segmentation of fundus. Computer Optics, 2022, 46, .	1.3	4
2611	Surface Defect Detection of "Yuluxiang―Pear Using Convolutional Neural Network with Class-Balance Loss. Agronomy, 2022, 12, 2076.	1.3	3
2612	Using Deep Learning for Detecting Mirroring Attacks on Smart Grid PMU Networks. , 2022, , .		0
2613	Mispronunciation Detection and Diagnosis with Articulatory-Level Feedback Generation for Non-Native Arabic Speech. Mathematics, 2022, 10, 2727.	1.1	10
2614	Automatic classification of images with beach linear perspective using convolutional neural networks. , 2022, , .		0
2615	Multi-object Tracking with Noisy Labels. , 2022, , .		0

#	Article	IF	CITATIONS
2616	Introducing Urdu Digits Dataset with Demonstration of an Efficient and Robust Noisy Decoder-Based Pseudo Example Generator. Symmetry, 2022, 14, 1976.	1.1	39
2617	A Cluster-Driven Adaptive Training Approach for Federated Learning. Sensors, 2022, 22, 7061.	2.1	4
2618	An Effective Image Augmenting Technique in Detection of Lung Cancer Types. Bilgisayar Bilimleri, 0, , .	0.0	0
2619	An Enhanced Scheme for Reducing the Complexity of Pointwise Convolutions in CNNs for Image Classification Based on Interleaved Grouped Filters without Divisibility Constraints. Entropy, 2022, 24, 1264.	1.1	4
2620	RaftNet: A New Deep Neural Network for Coastal Raft Aquaculture Extraction from Landsat 8 OLI Data. Remote Sensing, 2022, 14, 4587.	1.8	8
2621	A New Compact Method Based on a Convolutional Neural Network for Classification and Validation of Tomato Plant Disease. Electronics (Switzerland), 2022, 11, 2994.	1.8	2
2622	A survey on recent developments in diabetic retinopathy detection through integration of deep learning. Multimedia Tools and Applications, 2023, 82, 17321-17351.	2.6	8
2623	Optimal Facial Feature Based Emotional Recognition Using Deep Learning Algorithm. Computational Intelligence and Neuroscience, 2022, 2022, 1-10.	1.1	4
2624	A bi-directional deep learning architecture for lung nodule semantic segmentation. Visual Computer, 2023, 39, 5245-5261.	2.5	7
2625	Survey: Exploiting Data Redundancy for Optimization of Deep Learning. ACM Computing Surveys, 2023, 55, 1-38.	16.1	3
2626	Multimodal data augmentation for digital twining assisted by artificial intelligence in mechanics of materials. Frontiers in Materials, 0, 9, .	1.2	2
2627	Transfer Learning Model Training Time Comparison for Osteoporosis Classification on Knee Radiograph of RGB and Grayscale Images. WSEAS Transactions on Electronics, 2022, 13, 45-51.	0.2	1
2628	Lifelong Adaptive Machine Learning for Sensor-Based Human Activity Recognition Using Prototypical Networks. Sensors, 2022, 22, 6881.	2.1	2
2630	Reducing data dimension boosts neural network-based stage-specific malaria detection. Scientific Reports, 2022, 12, .	1.6	4
2631	A Deepâ€Learning Framework for the Automated Recognition of Molecules in Scanningâ€Probeâ€Microscopy Images. Angewandte Chemie, 2022, 134, .	1.6	0
2632	Improving breast cancer diagnostics with deep learning for MRI. Science Translational Medicine, 2022, 14, .	5.8	23
2633	Fractional-Order Calculus-Based Data Augmentation Methods for Environmental Sound Classification with Deep Learning. Fractal and Fractional, 2022, 6, 555.	1.6	0
2634	Investigation of Applying Machine Learning and Hyperparameter Tuned Deep Learning Approaches for Arrhythmia Detection in ECG Images. Computational and Mathematical Methods in Medicine, 2022, 2022, 1-12.	0.7	6

#	ARTICLE	IF	CITATIONS
2635	Machine learning for autism spectrum disorder diagnosis using structural magnetic resonance imaging: Promising but challenging. Frontiers in Neuroinformatics, $0,16,1$	1.3	17
2636	Automated corrosion detection in Oddy test coupons using convolutional neural networks. Heritage Science, 2022, 10, .	1.0	4
2637	Estimation Model of Global Ionospheric Irregularities: An Artificial Intelligence Approach. Space Weather, 2022, 20, .	1.3	3
2638	Evaluating the use of synthetic T1-w images in new T2 lesion detection in multiple sclerosis. Frontiers in Neuroscience, 0, 16 , .	1.4	1
2639	Re-Training of Convolutional Neural Networks for Glottis Segmentation in Endoscopic High-Speed Videos. Applied Sciences (Switzerland), 2022, 12, 9791.	1.3	6
2640	A conditional GAN-based approach for enhancing transfer learning performance in few-shot HCR tasks. Scientific Reports, 2022, 12, .	1.6	4
2641	NDE Data Correlation Using Encoder–Decoder Networks with Wavelet Scalogram Images. Journal of Nondestructive Evaluation, 2022, 41, .	1.1	1
2642	Automated Zebrafish Phenotype Pattern Recognition: 6 Years Ago, and Now. Zebrafish, 0, , .	0.5	0
2643	Deep Transfer Learning Approaches to Predict Glaucoma, Cataract, Choroidal Neovascularization, Diabetic Macular Edema, DRUSEN and Healthy Eyes: An Experimental Review. Archives of Computational Methods in Engineering, 2023, 30, 521-541.	6.0	30
2644	Innovative synthetic data augmentation for dam crack detection, segmentation, and quantification. Structural Health Monitoring, 2023, 22, 2402-2426.	4.3	3
2645	Detecting COVID-19 infection status from chest X-ray and CT scan via single transfer learning-driven approach. Frontiers in Genetics, $0,13,.$	1.1	13
2646	Deep Learning–Based Nuclear Morphometry Reveals an Independent Prognostic Factor in Mantle Cell Lymphoma. American Journal of Pathology, 2022, , .	1.9	O
2647	Performance Investigation of Pre-Trained Convolutional Neural Networks in Olive Leaf Disease Classification. Konya Journal of Engineering Sciences, 2022, 10, 535-547.	0.1	1
2648	Photoacoustic image synthesis with generative adversarial networks. Photoacoustics, 2022, 28, 100402.	4.4	6
2649	PERFORMANCE ENHANCEMENT OF DEEP NEURAL NETWORK BASED AUTOMATIC VOICE DISORDER DETECTION SYSTEM WITH DATA AUGMENTATION $\hat{a} \in \mathcal{C}$ DETECTION OF LEUKOPLAKIA: A CASE STUDY. Biomedical Engineering - Applications, Basis and Communications, 2023, 35, .	0.3	1
2650	One shot ancient character recognition with siamese similarity network. Scientific Reports, 2022, 12, .	1.6	4
2652	Automatic pixel-level detection and measurement of corrosion-related damages in dim steel box girders using Fusion-Attention-U-net. Journal of Civil Structural Health Monitoring, 2023, 13, 199-217.	2.0	5
2653	Real-time denoising enables high-sensitivity fluorescence time-lapse imaging beyond the shot-noise limit. Nature Biotechnology, 2023, 41, 282-292.	9.4	39

#	Article	IF	CITATIONS
2654	Detecting micro fractures: a comprehensive comparison of conventional and machine-learning-based segmentation methods. Solid Earth, 2022, 13, 1475-1494.	1.2	4
2655	A meta–reinforcement learning algorithm for traffic signal control to automatically switch different reward functions according to the saturation level of traffic flows. Computer-Aided Civil and Infrastructure Engineering, 2023, 38, 779-798.	6.3	6
2656	Improved Monitoring of Wildlife Invasion through Data Augmentation by Extract–Append of a Segmented Entity. Sensors, 2022, 22, 7383.	2.1	4
2657	A Deepâ€Learning Framework for the Automated Recognition of Molecules in Scanningâ€Probeâ€Microscopy Images. Angewandte Chemie - International Edition, 2022, 61, .	7.2	5
2658	Real-Time Vehicle Detection Based on Improved YOLO v5. Sustainability, 2022, 14, 12274.	1.6	82
2659	Automatic Extraction of Medication Information from Cylindrically Distorted Pill Bottle Labels. Machine Learning and Knowledge Extraction, 2022, 4, 852-864.	3.2	3
2660	Gamma Radiation Image Noise Prediction Method Based on Statistical Analysis and Random Walk. Sensors, 2022, 22, 7325.	2.1	0
2661	A systematic review on data of additive manufacturing for machine learning applications: the data quality, type, preprocessing, and management. Journal of Intelligent Manufacturing, 2023, 34, 3305-3340.	4.4	6
2662	Cascade watchdog: a multi-tiered adversarial guard for outlier detection. Signal, Image and Video Processing, 0, , .	1.7	0
2663	Neural Networks-Based On-Site Dermatologic Diagnosis through Hyperspectral Epidermal Images. Sensors, 2022, 22, 7139.	2.1	5
2664	SupMPN: Supervised Multiple Positives and Negatives Contrastive Learning Model for Semantic Textual Similarity. Applied Sciences (Switzerland), 2022, 12, 9659.	1.3	3
2665	A Hybrid Privacy-Preserving Deep Learning Approach for Object Classification in Very High-Resolution Satellite Images. Remote Sensing, 2022, 14, 4631.	1.8	17
2666	Research and Implementation of Text Generation Based on Text Augmentation and Knowledge Understanding. Computational Intelligence and Neuroscience, 2022, 2022, 1-10.	1.1	0
2667	Enhanced analysis of experimental x-ray spectra through deep learning. Physics of Plasmas, 2022, 29, 093901.	0.7	2
2668	Ani-GIFs: A benchmark dataset for domain generalization of action recognition from GIFs. Frontiers in Computer Science, 0, 4, .	1.7	1
2669	SS R-CNN: Self-Supervised Learning Improving Mask R-CNN for Ship Detection in Remote Sensing Images. Remote Sensing, 2022, 14, 4383.	1.8	8
2670	Data Augmentation to Support Biopharmaceutical Process Development through Digital Modelsâ€"A Proof of Concept. Processes, 2022, 10, 1796.	1.3	3
2671	Representation learning for clustering via building consensus. Machine Learning, 0, , .	3.4	1

#	Article	IF	CITATIONS
2672	Classification of tropical cyclone containing images using a convolutional neural network: performance and sensitivity to the learning dataset. Geoscientific Model Development, 2022, 15, 7051-7073.	1.3	3
2673	Improved seabird image classification based on dual transfer learning framework and spatial pyramid pooling. Ecological Informatics, 2022, 72, 101832.	2.3	4
2674	Positron Range Corrections and Denoising Techniques for Gallium-68 PET Imaging: A Literature Review. Diagnostics, 2022, 12, 2335.	1.3	5
2675	Multiclass Classification of Grape Diseases Using Deep Artificial Intelligence. Agriculture (Switzerland), 2022, 12, 1542.	1.4	6
2676	IoT malware detection architecture using a novel channel boosted and squeezed CNN. Scientific Reports, 2022, 12, .	1.6	30
2677	Firearm Detection Using Deep Learning. Lecture Notes in Networks and Systems, 2023, , 200-218.	0.5	0
2678	CheckINN: Wide Range Neural Network Verification in Imandra. , 2022, , .		1
2679	A Review on Thermal Imaging-Based Breast Cancer Detection Using Deep Learning. Mobile Information Systems, 2022, 2022, 1-19.	0.4	1
2680	A Two-stream Convolutional Network for Musculoskeletal and Neurological Disorders Prediction. Journal of Medical Systems, 2022, 46, .	2.2	0
2681	Deep Learning Techniques for Banner Image Classification. IETE Journal of Research, 0, , 1-15.	1.8	0
2682	Lithology identification in carbonate thin section images of the Brazilian pre-salt reservoirs by the computational vision and deep learning. Computational Geosciences, 2022, 26, 1537-1547.	1.2	1
2683	Generative adversarial networks (GAN)-based data augmentation of rare liver cancers: The SFR 2021 Artificial Intelligence Data Challenge. Diagnostic and Interventional Imaging, 2023, 104, 43-48.	1.8	6
2684	Data augmentation for disruption prediction via robust surrogate models. Journal of Plasma Physics, 2022, 88, .	0.7	1
2685	Generating Realistic Synthetic Head Rotation Data for Extended Reality using Deep Learning. , 2022, , .		2
2686	Semi-supervised structure attentive temporal mixup coherence for medical image segmentation. Biocybernetics and Biomedical Engineering, 2022, 42, 1149-1161.	3.3	2
2687	Mitigating bias in deep learning for diagnosis of coronary artery disease from myocardial perfusion SPECT images. European Journal of Nuclear Medicine and Molecular Imaging, 2023, 50, 387-397.	3.3	5
2688	FaciesViT: Vision transformer for an improved core lithofacies prediction. Frontiers in Earth Science, 0, 10, .	0.8	9
2689	TinyML Gamma Radiation Classifier. Nuclear Engineering and Technology, 2023, 55, 443-451.	1.1	2

#	Article	IF	CITATIONS
2690	Deep learning-based automatic-bone-destruction-evaluation system using contextual information from other joints. Arthritis Research and Therapy, 2022, 24, .	1.6	5
2691	Revisiting data augmentation for subspace clustering. Knowledge-Based Systems, 2022, 258, 109974.	4.0	1
2692	Improving the level of autism discrimination with augmented data by GraphRNN. Computers in Biology and Medicine, 2022, 150, 106141.	3.9	1
2693	Regarding the quality of disparity estimation from distorted light fields. Signal Processing: Image Communication, 2022, 109, 116867.	1.8	1
2694	Datasets and processing methods for boosting visual inspection of civil infrastructure: A comprehensive review and algorithm comparison for crack classification, segmentation, and detection. Construction and Building Materials, 2022, 356, 129226.	3.2	20
2695	Machine learning models for photonic crystals band diagram prediction and gap optimisation. Photonics and Nanostructures - Fundamentals and Applications, 2022, 52, 101076.	1.0	6
2696	A PDE-free, neural network-based eddy viscosity model coupled with RANS equations. International Journal of Heat and Fluid Flow, 2022, 98, 109051.	1.1	2
2697	Data Augmentation for Graph Neural Networks. Proceedings of the AAAI Conference on Artificial Intelligence, 2021, 35, 11015-11023.	3.6	94
2698	Teaching withÂSoft Label Smoothing forÂMitigating Noisy Labels inÂFacial Expressions. Lecture Notes in Computer Science, 2022, , 648-665.	1.0	3
2699	Comparison of Multi-Label U-Net and Mask R-CNN for panoramic radiograph segmentation to detect periodontitis. Imaging Science in Dentistry, 2022, 52, 383.	0.6	9
2700	An Image Feature Mapping Model forÂContinuous Longitudinal Data Completion andÂGeneration ofÂSynthetic Patient Trajectories. Lecture Notes in Computer Science, 2022, , 55-64.	1.0	0
2701	Evaluation of Deep Learning Models for Detecting Breast Cancer Using Mammograms. , 2022, , 104-112.		1
2702	FastMVAE2: On Improving and Accelerating the Fast Variational Autoencoder-Based Source Separation Algorithm for Determined Mixtures. IEEE/ACM Transactions on Audio Speech and Language Processing, 2023, 31, 96-110.	4.0	1
2703	Human emotion identification based on features extracted using CNN. AIP Conference Proceedings, 2022, , .	0.3	1
2704	A Lightweight YOLOv4-EDAM Model for Accurate and Real-time Detection of Foreign Objects Suspended on Power Lines. IEEE Transactions on Power Delivery, 2023, 38, 1329-1340.	2.9	5
2705	Surface Quality Augmentation for Metalworking Industry with Pix2Pix. Procedia Computer Science, 2022, 207, 897-906.	1.2	4
2706	User Sentiment Analysis in Conversational Systems Based on Augmentation and Attention-based BiLSTM. Procedia Computer Science, 2022, 207, 4106-4112.	1.2	7
2707	Bridging theÂVisual Semantic Gap inÂVLN viaÂSemantically Richer Instructions. Lecture Notes in Computer Science, 2022, , 54-69.	1.0	O

#	Article	IF	CITATIONS
2708	Data Augmentation Method onÂPine Wilt Disease Recognition. IFIP Advances in Information and Communication Technology, 2022, , 458-465.	0.5	0
2709	Ancient Egyptian Hieroglyphs Segmentation and Classification with Convolutional Neural Networks. Communications in Computer and Information Science, 2022, , 126-139.	0.4	3
2710	HVC-Net: Unifying Homography, Visibility, and Confidence Learning for Planar Object Tracking. Lecture Notes in Computer Science, 2022, , 701-718.	1.0	4
2711	DAS: Densely-Anchored Sampling for Deep Metric Learning. Lecture Notes in Computer Science, 2022, , 399-417.	1.0	4
2712	DMF-CL: Dense Multi-scale Feature Contrastive Learning for Semantic Segmentation of Remote-Sensing Images. Lecture Notes in Computer Science, 2022, , 152-164.	1.0	1
2713	Data Augmentation viaÂPartial Nonlinear Registration forÂBrain-Age Prediction. Lecture Notes in Computer Science, 2022, , 169-178.	1.0	0
2714	Fine-grained code-comment semantic interaction analysis. , 2022, , .		3
2715	Improving generalizability of ML-enabled software through domain specification. , 2022, , .		2
2716	Wind Power Modeling based on Data Augmentation and Stacking Integrated Learning. , 2022, , .		0
2717	Semantic-Masked Intensity Augmentation for Deep Learning-based Analysis of FPGA Images. , 2022, , .		1
2718	Surface Defect Detection based on Improved YOLOv3-Tiny Algorithm., 2022,,.		0
2719	A Vehicle Classification Model Based on Multi-scale Feature Fusion. , 2022, , .		0
2720	Methodology for Determining Optimal Model and Training Data in Deep Learning. , 2022, , .		0
2721	A Hybrid Approach for predicting COVID19 using Multiple Convolution Neural Networks and Self Attention Maps. , 2022, , .		0
2722	DTLNet: Deep Transfer Learning-based Hybrid Model for Skin Lesion Detection and Classification. , 2022, , .		1
2723	Mango Pests Identification Based-on Convolutional Neural Network. , 2022, , .		1
2724	A CNN-based Approach for Multi-Classification of Brain Tumors. , 2022, , .		1
2725	A New Benchmark Dataset for Indonesian Traditional Woven Fabric Image Recognition and Image Retrieval. , 2022, , .		0

#	Article	IF	Citations
2726	Inconspicuous Data Augmentation Based Backdoor Attack on Deep Neural Networks., 2022,,.		1
2727	HyperStyle-Based Data Augmentation to Improve the Performance of Face Recognition Model., 2022,,.		O
2728	Performance Evaluation of Data Augmentation for Object Detection in XView Dataset., 2022,,.		0
2729	Detection of Defective Bolts from Rotational Ultrasonic Scans Using Convolutional Neural Networks. , 2022, , .		0
2730	Convolutional Neural Networks and Deep Learning Techniques for Glass Surface Defect Inspection. Advances in Computational Intelligence and Robotics Book Series, 2022, , 67-99.	0.4	0
2731	A Fast Deep Learning Based Approach for Unsupervised Anomaly Detection in 3D Data. , 2022, , .		1
2732	A Comparative Study of Engraved-Digit Data Augmentation by Generative Adversarial Networks. Sustainability, 2022, 14, 12479.	1.6	4
2733	Research and Development of Deep Learning Algorithms for the Classification of Pneumonia Type and Detection of Ground-Glass Loci on Radiological Images. Pattern Recognition and Image Analysis, 2022, 32, 707-716.	0.6	0
2734	An extended machine learning technique for polycystic ovary syndrome detection using ovary ultrasound image. Scientific Reports, 2022, 12, .	1.6	32
2735	Occluded object detection and exposure in cluttered environments with automated hyperspectral anomaly detection. Frontiers in Robotics and Al, 0, 9, .	2.0	3
2736	Alignment-free metal ion-binding site prediction from protein sequence through pretrained language model and multi-task learning. Briefings in Bioinformatics, 2022, 23, .	3.2	15
2737	Using Deep Learning to Predict Final HER2 Status in Invasive Breast Cancers That are Equivocal (2+) by Immunohistochemistry. Applied Immunohistochemistry and Molecular Morphology, 0, Publish Ahead of Print, .	0.6	0
2738	Saliency guided data augmentation strategy for maximally utilizing an object's visual information. PLoS ONE, 2022, 17, e0274767.	1.1	0
2739	A survey of designing convolutional neural network using evolutionary algorithms. Artificial Intelligence Review, 2023, 56, 5095-5132.	9.7	5
2740	Image Data Augmentation with Unpaired Image-to-Image Camera Model Translation. , 2022, , .		0
2741	Invariance Testing and Feature Selection Using Sparse Linear Layers. , 2022, , .		0
2742	Bias oriented unbiased data augmentation for cross-bias representation learning. Multimedia Systems, 0, , .	3.0	0
2743	CoreScore: a machine learning approach to assess legacy core condition. Geological Society Special Publication, 2023, 527, 137-151.	0.8	4

#	Article	IF	CITATIONS
2744	Predictive Modeling of Prospectivity for VHMS Mineral Deposits, Northeastern Bathurst Mining Camp, NB, Canada, Using an Ensemble Regularization Technique. Natural Resources Research, 2023, 32, 19-36.	2.2	5
2745	Data augmentation with improved regularisation and sampling for imbalanced blood cell image classification. Scientific Reports, 2022, 12 , .	1.6	4
2746	An improved deep convolutional neural network for detecting plant leaf diseases. Concurrency Computation Practice and Experience, 2022, 34, .	1.4	3
2747	Six Statistical Senses. Annual Review of Statistics and Its Application, 2023, 10, 699-725.	4.1	2
2748	MDA: An Intelligent Medical Data Augmentation Scheme Based on Medical Knowledge Graph for Chinese Medical Tasks. Applied Sciences (Switzerland), 2022, 12, 10655.	1.3	2
2749	Improved generalization performance of convolutional neural networks with LossDA. Applied Intelligence, 2023, 53, 13852-13866.	3.3	1
2750	Iterative training of robust kâ€space interpolation networks for improved image reconstruction with limited scan specific training samples. Magnetic Resonance in Medicine, 2023, 89, 812-827.	1.9	0
2751	Monitoring Subsidence Area with the Use of Satellite Radar Images and Deep Transfer Learning. Sensors, 2022, 22, 7931.	2.1	1
2752	Cognitive Assessment of Japanese Older Adults with Text Data Augmentation. Healthcare (Switzerland), 2022, 10, 2051.	1.0	2
2753	TFAD., 2022,,.		17
2753 2755	TFAD., 2022, , . Deep Learning-Based Layer Identification of 2D Nanomaterials. Coatings, 2022, 12, 1551.	1.2	17
		1.2	
2755	Deep Learning-Based Layer Identification of 2D Nanomaterials. Coatings, 2022, 12, 1551.		1
2755 2756	Deep Learning-Based Layer Identification of 2D Nanomaterials. Coatings, 2022, 12, 1551. Deep learning-based remote-photoplethysmography measurement from short-time facial video. Physiological Measurement, 2022, 43, 115003. Landmark Recognition and Retrieval Using ResNet50 and DELF. Lecture Notes on Data Engineering and	1.2	1 5
2755 2756 2757	Deep Learning-Based Layer Identification of 2D Nanomaterials. Coatings, 2022, 12, 1551. Deep learning-based remote-photoplethysmography measurement from short-time facial video. Physiological Measurement, 2022, 43, 115003. Landmark Recognition and Retrieval Using ResNet50 and DELF. Lecture Notes on Data Engineering and Communications Technologies, 2023, , 423-431.	1.2	1 5 0
2755 2756 2757 2758	Deep Learning-Based Layer Identification of 2D Nanomaterials. Coatings, 2022, 12, 1551. Deep learning-based remote-photoplethysmography measurement from short-time facial video. Physiological Measurement, 2022, 43, 115003. Landmark Recognition and Retrieval Using ResNet50 and DELF. Lecture Notes on Data Engineering and Communications Technologies, 2023, , 423-431. Data enhancement analysis for deep-based image classification. , 2022, , . AugLiChem: data augmentation library of chemical structures for machine learning. Machine Learning:	0.5	1 5 0
2755 2756 2757 2758 2759	Deep Learning-Based Layer Identification of 2D Nanomaterials. Coatings, 2022, 12, 1551. Deep learning-based remote-photoplethysmography measurement from short-time facial video. Physiological Measurement, 2022, 43, 115003. Landmark Recognition and Retrieval Using ResNet50 and DELF. Lecture Notes on Data Engineering and Communications Technologies, 2023, , 423-431. Data enhancement analysis for deep-based image classification. , 2022, , . AugLiChem: data augmentation library of chemical structures for machine learning. Machine Learning: Science and Technology, 2022, 3, 045015. Semi-supervised segmentation of metastasis lesions in bone scan images. Frontiers in Molecular	0.5	1 5 0 0 9

#	Article	IF	CITATIONS
2763	Boosting Supervised Learning in Small Data Regimes with Conditional GAN Augmentation. , 2022, , .		0
2764	Recognition of terminal buds of densely-planted Chinese fir seedlings using improved YOLOv5 by integrating attention mechanism. Frontiers in Plant Science, 0, 13 , .	1.7	9
2765	An intelligent driven deep residual learning framework for brain tumor classification using MRI images. Expert Systems With Applications, 2023, 213, 119087.	4.4	39
2766	Transfer learning: a friendly introduction. Journal of Big Data, 2022, 9, .	6.9	48
2767	Deep Learning in Historical Architecture Remote Sensing: Automated Historical Courtyard House Recognition in Yazd, Iran. Heritage, 2022, 5, 3066-3080.	0.9	3
2768	Minimal data requirements for accurate compound activity prediction using machine learning methods of different complexity. Cell Reports Physical Science, 2022, 3, 101113.	2.8	7
2769	Tomato Leaf Disease Classification Using Transfer Learning Method. Lecture Notes in Networks and Systems, 2023, , 231-241.	0.5	1
2770	CyclicShift: A Data Augmentation Method For Enriching Data Patterns. , 2022, , .		3
2771	Multi-source inverse-curriculum-based training for low-resource dialogue generation. Applied Intelligence, 0, , .	3.3	0
2772	Real-Time Ship Segmentation in Maritime Surveillance Videos Using Automatically Annotated Synthetic Datasets. Sensors, 2022, 22, 8090.	2.1	10
2773	Automatic identification of early ischemic lesions on non-contrast CT with deep learning approach. Scientific Reports, 2022, 12, .	1.6	6
2774	Surface Damage Identification for Heritage Site Protection: A Mobile Crowd-sensing Solution Based on Deep Learning. Journal on Computing and Cultural Heritage, 2023, 16, 1-24.	1.2	4
2775	Computer vision in surgery: from potential to clinical value. Npj Digital Medicine, 2022, 5, .	5.7	29
2776	Towards Classification of Architectural Styles of Chinese Traditional Settlements Using Deep Learning: A Dataset, a New Framework, and Its Interpretability. Remote Sensing, 2022, 14, 5250.	1.8	6
2777	A Transfer Learning-Based Method to Detect Insulator Faults of High-Voltage Transmission Lines via Aerial Images: Distinguishing Intact and Broken Insulator Images. IEEE Systems, Man, and Cybernetics Magazine, 2022, 8, 15-25.	1.2	8
2778	Low-Complexity Scaler Based on Convolutional Neural Networks for Adaptive Video Streaming. , 2022,		0
2779	Prediction of Voice Fundamental Frequency and Intensity from Surface Electromyographic Signals of the Face and Neck. Vibration, 2022, 5, 692-710.	0.9	0
2780	Damaged buildings classification using residual network. , 2022, , .		0

#	Article	IF	CITATIONS
2781	Remote sensing image classification using transfer learning- and attention-based deep neural network. , 2022, , .		0
2782	Recent Progress in the Discovery and Design of Antimicrobial Peptides Using Traditional Machine Learning and Deep Learning. Antibiotics, 2022, 11, 1451.	1.5	22
2783	Automatic diagnosis of sleep apnea from biomedical signals using artificial intelligence techniques: Methods, challenges, and future works. Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery, 2022, 12, .	4.6	8
2784	Classification and Prediction of Nitrogen Dioxide in a Portuguese Air Quality Critical Zone. Atmosphere, 2022, 13, 1672.	1.0	1
2786	Imbalanced Graph Classification via Graph-of-Graph Neural Networks. , 2022, , .		13
2787	Human Posture Detection Using Image Augmentation and Hyperparameter-Optimized Transfer Learning Algorithms. Applied Sciences (Switzerland), 2022, 12, 10156.	1.3	18
2788	Deep Reinforcement Learning for Crowdshipping Last-Mile Delivery with Endogenous Uncertainty. Mathematics, 2022, 10, 3902.	1.1	4
2789	Determining the Stir-Frying Degree of Gardeniae Fructus Praeparatus Based on Deep Learning and Transfer Learning. Sensors, 2022, 22, 8091.	2.1	3
2790	Automation of generative adversarial network-based synthetic data-augmentation for maximizing the diagnostic performance with paranasal imaging. Scientific Reports, 2022, 12, .	1.6	2
2791	Domain Adaptation for Unknown Image Distortions in Instance Segmentation. , 2022, , .		0
2792	Development of an Analog Gauge Reading Solution Based on Computer Vision and Deep Learning for an IoT Application. Telecom, 2022, 3, 564-580.	1.6	2
2793	Transfer Learning Based Method forÂClassification ofÂSchizophrenia Using MobileNet. Lecture Notes in Networks and Systems, 2023, , 210-220.	0.5	1
2794	Bell Pepper Leaf Disease Classification Using Convolutional Neural Network. Lecture Notes in Networks and Systems, 2023, , 75-86.	0.5	0
2795	Online Quality Inspection Approach for Submerged Arc Welding (SAW) by Utilizing IR-RGB Multimodal Monitoring and Deep Learning. Lecture Notes in Mechanical Engineering, 2023, , 160-169.	0.3	3
2796	3D Centroidnet: Nuclei Centroid Detection with Vector Flow Voting. , 2022, , .		2
2797	Invariance of object detection in untrained deep neural networks. Frontiers in Computational Neuroscience, $0,16,.$	1.2	4
2798	Computer Vision System for Mango Fruit Defect Detection Using Deep Convolutional Neural Network. Foods, 2022, 11, 3483.	1.9	18
2799	Wavelet attention network for the segmentation of layer structures on OCT images. Biomedical Optics Express, 2022, 13, 6167.	1.5	3

#	ARTICLE	IF	CITATIONS
2800	An Al Based Approach for Medicinal Plant Identification Using Deep CNN Based on Global Average Pooling. Agronomy, 2022, 12, 2723.	1.3	17
2801	Uncovering commercial activity in informal cities. Royal Society Open Science, 2022, 9, .	1.1	1
2802	Self-supervised Learning Method for Behavior Prediction during Dialogue Based on Temporal Consistency. Transactions of the Japanese Society for Artificial Intelligence, 2022, 37, B-M43_1-13.	0.1	0
2803	Leveraging Synthetic Data for DNN-Based Visual Analysis of Passenger Seats. SN Computer Science, 2023, 4, .	2.3	3
2804	Deep Learning for Image Enhancement and Correction in Magnetic Resonance Imaging—State-of-the-Art and Challenges. Journal of Digital Imaging, 2023, 36, 204-230.	1.6	30
2805	KDE-GAN: A multimodal medical image-fusion model based on knowledge distillation and explainable Al modules. Computers in Biology and Medicine, 2022, 151, 106273.	3.9	8
2806	A Scalable Open-Source Framework for Machine Learning-Based Image Collection, Annotation and Classification: A Case Study for Automatic Fish Species Identification. Sustainability, 2022, 14, 14324.	1.6	3
2807	Workpiece classification based on transfer component analysis. Wireless Networks, 0, , .	2.0	0
2808	Fault diagnosis for induction generator-based wind turbine using ensemble deep learning techniques. Energy Reports, 2022, 8, 12787-12798.	2.5	15
2809	Investigation of a Recognition System for General X-ray Images Using CNN and Faster R-CNN. Journal of Signal Processing, 2022, 26, 159-169.	0.2	1
2810	Self-Supervised Encoders Are Better Transfer Learners in Remote Sensing Applications. Remote Sensing, 2022, 14, 5500.	1.8	0
2811	An integrated framework of optimized learning networks for classifying oil-mixed microplastics. Journal of Cleaner Production, 2022, 379, 134698.	4.6	2
2812	Spikelets detection of table grape before thinning based on improved YOLOV5s and Kmeans under the complex environment. Computers and Electronics in Agriculture, 2022, 203, 107432.	3.7	11
2813	BLASTNet: A call for community-involved big data in combustion machine learning. Applications in Energy and Combustion Science, 2022, 12, 100087.	0.9	0
2814	Unsupervised contrastive unpaired image generation approach for improving tuberculosis screening using chest X-ray images. Pattern Recognition Letters, 2022, 164, 60-66.	2.6	4
2815	A deep residual neural network for semiconductor defect classification in imbalanced scanning electron microscope datasets. Applied Soft Computing Journal, 2022, 131, 109743.	4.1	2
2816	Segmentation of trabecular bone microdamage in Xray microCT images using a two-step deep learning method. Journal of the Mechanical Behavior of Biomedical Materials, 2023, 137, 105540.	1.5	9
2817	GAN-based sensor data augmentation: Application for counting moving people and detecting directions using PIR sensors. Engineering Applications of Artificial Intelligence, 2023, 117, 105508.	4.3	5

#	ARTICLE	IF	CITATIONS
2818	Using deep learning to identify the depth of metal surface defects with narrowband SAW signals. Optics and Laser Technology, 2023, 157, 108758.	2.2	6
2819	AsyLink: user identity linkage from text to geo-location via sparse labeled data. Neurocomputing, 2023, 515, 174-184.	3.5	3
2820	Segmentation of tomography datasets using 3D convolutional neural networks. Computational Materials Science, 2023, 216, 111847.	1.4	3
2821	An Efficient Hybrid Model for Arabic Text Recognition. Computers, Materials and Continua, 2023, 74, 2871-2888.	1.5	2
2822	A Hybrid Deep Fused Learning Approach to Segregate Infectious Diseases. Computers, Materials and Continua, 2023, 74, 4239-4259.	1.5	5
2823	Auto-Myln: Automatic diagnosis of myocardial infarction via multiple GLCMs, CNNs, and SVMs. Biomedical Signal Processing and Control, 2023, 80, 104273.	3.5	15
2824	Using Context-Guided data Augmentation, lightweight CNN, and proximity detection techniques to improve site safety monitoring under occlusion conditions. Safety Science, 2023, 158, 105958.	2.6	12
2825	Data augmentation for univariate time series forecasting with neural networks. Pattern Recognition, 2023, 134, 109132.	5.1	13
2826	Enhancement of Urban Floodwater Mapping From Aerial Imagery With Dense Shadows via Semisupervised Learning. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2022, 15, 9086-9101.	2.3	3
2827	A Deep Learning Approach Based on Explainable Artificial Intelligence for Skin Lesion Classification. IEEE Access, 2022, 10, 113715-113725.	2.6	9
2828	Al in Translational Bioinformatics and Precision Medicine. , 2022, , 391-429.		0
2829	LAMBO: Landmarks Augmentation With Manifold-Barycentric Oversampling. IEEE Access, 2022, 10, 117757-117769.	2.6	0
2830	Depth Field Networks For Generalizable Multi-view Scene Representation. Lecture Notes in Computer Science, 2022, , 245-262.	1.0	7
2831	Feature Guide Network With Context Aggregation Pyramid for Remote Sensing Image Segmentation. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2022, 15, 9900-9912.	2.3	3
2832	Diagnosis of COVID-19â€in CT images based on convolutional neural network (CNN). AIP Conference Proceedings, 2022, , .	0.3	0
2833	Neuromorphic Data Augmentation forÂTraining Spiking Neural Networks. Lecture Notes in Computer Science, 2022, , 631-649.	1.0	17
2834	A Multitask Deep Learning for Simultaneous Denoising and Inversion of 3-D Gravity Data. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-17.	2.7	9
2835	Multi-Domain Active Learning: Literature Review and Comparative Study. IEEE Transactions on Emerging Topics in Computational Intelligence, 2022, , 1-14.	3.4	2

#	ARTICLE	IF	CITATIONS
2836	A Huanglongbing Detection Method for Orange Trees Based on Deep Neural Networks and Transfer Learning. IEEE Access, 2022, 10, 116686-116696.	2.6	5
2837	A Benchmark Dataset of Endoscopic Images and Novel Deep Learning Method to Detect Intestinal Metaplasia and Gastritis Atrophy. IEEE Journal of Biomedical and Health Informatics, 2023, 27, 7-16.	3.9	6
2838	Group Residual Dense Block forÂKey-Point Detector withÂOne-Level Feature. Lecture Notes in Computer Science, 2022, , 525-539.	1.0	0
2839	Mixed Data Imputation Using Generative Adversarial Networks. IEEE Access, 2022, 10, 124475-124490.	2.6	4
2840	Performance of a Convolutional Neural Network Derived from PPG Signal in Classifying Sleep Stages. IEEE Transactions on Biomedical Engineering, 2022, , 1-15.	2.5	4
2841	Parkinson's disease is characterized by sub-second resting-state spatio-oscillatory patterns: A contribution from deep convolutional neural network. Neurolmage: Clinical, 2022, 36, 103266.	1.4	3
2842	Data Augmentation and Intelligent Fault Diagnosis of Planetary Gearbox Using ILoFGAN Under Extremely Limited Samples. IEEE Transactions on Reliability, 2023, 72, 1029-1037.	3.5	54
2843	Mixed Stage Partial Network and Background Data Augmentation for Surveillance Object Detection. IEEE Transactions on Intelligent Transportation Systems, 2022, , 1-15.	4.7	0
2844	Al meets UAVs: A survey on Al empowered UAV perception systems for precision agriculture. Neurocomputing, 2023, 518, 242-270.	3. 5	30
2845	A mild cognitive impairment diagnostic model based on IAAFT and BiLSTM. Biomedical Signal Processing and Control, 2023, 80, 104349.	3. 5	3
2846	Patch-level contrastive embedding learning for respiratory sound classification. Biomedical Signal Processing and Control, 2023, 80, 104338.	3.5	0
2847	Study of Transferability of ImageNet-Based Pretrained Model to Brain Tumor MRI Dataset. , 2022, , .		0
2848	Forest Fire Detection for Edge Devices. , 2022, , .		2
2849	A Modular and Composable Approach to Develop Trusted Artificial Intelligence. , 2022, , .		0
2850	Conditional image synthesis for improved segmentation of glomeruli in renal histopathological images. , 2022, , .		0
2851	Class-aware data augmentation by GAN specialisation to improve endoscopic images classification. , 2022, , .		0
2852	Hops Plants Disease Detection using Feature Selection based BPSO-SVM., 2022,,.		4
2853	Unveiling Cellular Antenna Orientations from Large Crowdsourced Datasets: A Deep Learning Approach. , 2022, , .		0

#	Article	IF	CITATIONS
2854	Hardware-Accelerated Mars Sample Localization Via Deep Transfer Learning From Photorealistic Simulations. IEEE Robotics and Automation Letters, 2022, 7, 12555-12561.	3.3	1
2855	Oil Spill Segmentation from SAR Images Using Deep Neural Networks. , 2022, , .		1
2856	Performance analysis of seven Convolutional Neural Networks (CNNs) with transfer learning for Invasive Ductal Carcinoma (IDC) grading in breast histopathological images. Scientific Reports, 2022, 12, .	1.6	14
2858	Enhancing Reproducibility and Replicability in Remote Sensing Deep Learning Research and Practice. Remote Sensing, 2022, 14, 5760.	1.8	1
2859	GC-EnC: A Copula based ensemble of CNNs for malignancy identification in breast histopathology and cytology images. Computers in Biology and Medicine, 2023, 152, 106329.	3.9	4
2860	B-YOLOX-S: A Lightweight Method for Underwater Object Detection Based on Data Augmentation and Multiscale Feature Fusion. Journal of Marine Science and Engineering, 2022, 10, 1764.	1,2	5
2861	Adversarial examples based on object detection tasks: A survey. Neurocomputing, 2023, 519, 114-126.	3.5	2
2862	Toward autonomous laboratories: Convergence of artificial intelligence and experimental automation. Progress in Materials Science, 2023, 132, 101043.	16.0	19
2863	Multi-Barley Seed Detection Using iPhone Images and YOLOv5 Model. Foods, 2022, 11, 3531.	1.9	4
2864	Graph Augmentation forÂNeural Networks Using Matching-Graphs. Lecture Notes in Computer Science, 2023, , 3-15.	1.0	1
2865	Fully Convolutional Network for the Semantic Segmentation of Medical Images: A Survey. Diagnostics, 2022, 12, 2765.	1.3	5
2866	Generative adversarial network-created brain SPECTs of cerebral ischemia are indistinguishable to scans from real patients. Scientific Reports, 2022, 12, .	1.6	1
2867	Diverse COVID-19 CT Image-to-Image Translation with Stacked Residual Dropout. Bioengineering, 2022, 9, 698.	1.6	5
2868	Data augmentation: A comprehensive survey of modern approaches. Array, 2022, 16, 100258.	2.5	65
2869	Generalization of Deep Learning in Digital Pathology: Experience in Breast Cancer Metastasis Detection. Cancers, 2022, 14, 5424.	1.7	9
2870	A comprehensive survey on radio frequency (RF) fingerprinting: Traditional approaches, deep learning, and open challenges. Computer Networks, 2022, 219, 109455.	3.2	30
2871	SRK-Augment: A self-replacement and discriminative region keeping augmentation scheme for better classification. Neural Processing Letters, 0, , .	2.0	2
2872	ICE-CAMERA: a flatbed scanner to study inland Antarctic polar precipitation. Atmospheric Measurement Techniques, 2022, 15, 6521-6544.	1.2	3

#	Article	IF	CITATIONS
2873	Hybrid deep boosting ensembles for histopathological breast cancer classification. Health and Technology, 2022, 12, 1043-1060.	2.1	5
2874	Point-of-Care Using Vis-NIR Spectroscopy for White Blood Cell Count Analysis. Chemosensors, 2022, 10, 460.	1.8	4
2875	Automated Defect Analysis of Additively Fabricated Metallic Parts Using Deep Convolutional Neural Networks. Journal of Manufacturing and Materials Processing, 2022, 6, 141.	1.0	2
2876	Lightweight Corn Seed Disease Identification Method Based on Improved ShuffleNetV2. Agriculture (Switzerland), 2022, 12, 1929.	1.4	3
2877	An efficient approach for guided wave structural monitoring of switch rails via deep convolutional neural network-based transfer learning. Measurement Science and Technology, 2023, 34, 024004.	1.4	6
2878	Face mask recognition system using MobileNetV2 with optimization function. Applied Artificial Intelligence, 2022, 36, .	2.0	3
2879	An Object Detection and Localization Method Based on Improved YOLOv5 for the Teleoperated Robot. Applied Sciences (Switzerland), 2022, 12, 11441.	1.3	6
2880	Recognition of the condition of construction materials using small datasets and handcrafted features. Journal of Information Technology in Construction, 2022, 27, 951-971.	1.4	0
2881	BdSLW-11: Dataset of Bangladeshi sign language words for recognizing 11 daily useful BdSL words. Data in Brief, 2022, 45, 108747.	0.5	4
2882	Detection of Coronavirus (COVID-19) Associated Pneumonia Based on Generative Adversarial Networks and a Fine-Tuned Deep Transfer Learning Model Using Chest X-ray Dataset. Lecture Notes on Data Engineering and Communications Technologies, 2023, , 234-247.	0.5	16
2883	Shrimp Surfacing Recognition System in the Pond Using Deep Computer Vision. Smart Innovation, Systems and Technologies, 2023, , 217-226.	0.5	0
2884	Dynamic Modeling of Intrinsic Self-Healing Polymers Using Deep Learning. ACS Applied Materials & Interfaces, 2022, 14, 52486-52498.	4.0	2
2885	Uncertainty-aware transfer learning to evolve digital twins for industrial elevators., 2022,,.		9
2886	Individual Tree Detection in Coal Mine Afforestation Area Based on Improved Faster RCNN in UAV RGB Images. Remote Sensing, 2022, 14, 5545.	1.8	7
2887	Machine Learning for Detection and Risk Assessment of Lifting Action. IEEE Transactions on Human-Machine Systems, 2022, 52, 1196-1204.	2.5	4
2888	A lightweight CNN and Transformer hybrid model for mental retardation screening among children from spontaneous speech. Computers in Biology and Medicine, 2022, 151, 106281.	3.9	2
2889	A Local Rotation Transformation Model forÂVehicle Re-Identification. Lecture Notes in Computer Science, 2022, , 76-87.	1.0	0
2890	Group RandAugment: Video Augmentation for Action Recognition. , 2022, , .		1

#	Article	IF	CITATIONS
2891	Image Generation Network Model based on Principal Component Analysis., 2022,,.		2
2892	Tuning Small Datasets for a Custom Apple Sorting System based on Deep Learning. , 2022, , .		1
2893	COVID-19 Self-Test Guidance System For Swab Collection Using Deep Learning. , 2022, , .		0
2894	Scene Level Image Classification: A Literature Review. Neural Processing Letters, 2023, 55, 2471-2520.	2.0	1
2895	Data-Driven Short-Term Daily Operational Sea Ice Regional Forecasting. Remote Sensing, 2022, 14, 5837.	1.8	3
2896	Alternaria spore exposure in Bavaria, Germany, measured using artificial intelligence algorithms in a network of BAA500 automatic pollen monitors. Science of the Total Environment, 2023, 861, 160180.	3.9	4
2897	Distress Detection in Subway Tunnel Images via Data Augmentation Based on Selective Image Cropping and Patching. Sensors, 2022, 22, 8932.	2.1	1
2898	From Augmented Reality toÂDeep Learning-Based Cognitive Assistance: An Overview forÂIndustrial Wire Harnesses Assemblies. Lecture Notes in Networks and Systems, 2023, , 113-124.	0.5	2
2899	UnMICST: Deep learning with real augmentation for robust segmentation of highly multiplexed images of human tissues. Communications Biology, 2022, 5, .	2.0	14
2900	Including Transfer Learning andÂSynthetic Data inÂaÂTraining Process ofÂaÂ2D Object Detector forÂAutonomous Driving. Lecture Notes in Networks and Systems, 2023, , 465-478.	0.5	0
2901	Data augmentation techniques in natural language processing. Applied Soft Computing Journal, 2023, 132, 109803.	4.1	12
2903	A deep learning based framework for the classification of multi- class capsule gastroscope image in gastroenterologic diagnosis. Frontiers in Physiology, 0, 13 , .	1.3	2
2904	Deep learning system for paddy plant disease detection and classification. Environmental Monitoring and Assessment, 2023, 195, .	1.3	50
2905	Data Augmentation and Random Multi-Model Deep Learning for Data Classification. Computers, Materials and Continua, 2023, 74, 5191-5207.	1.5	1
2906	Adversarial and Isotropic Gradient Augmentation for Image Retrieval With Text Feedback. IEEE Transactions on Multimedia, 2023, 25, 7415-7427.	5.2	2
2907	Enhanced dataset synthesis using conditional generative adversarial networks. Biomedical Engineering Letters, 2023, 13, 41-48.	2.1	4
2908	TomFusioNet: A tomato crop analysis framework for mobile applications using the multi-objective optimization based late fusion of deep models and background elimination. Applied Soft Computing Journal, 2023, 133, 109898.	4.1	1
2909	Development of Korean Food Image Classification Model Using Public Food Image Dataset and Deep Learning Methods. IEEE Access, 2022, 10, 128732-128741.	2.6	5

#	Article	IF	CITATIONS
2910	Estimation of Tiller Number in Rice Using a Field Robot and Deep Learning. Engineering in Agriculture, Environment and Food, 2022, 15, 47-60.	0.2	1
2911	STAug: Copy-Paste Based Image Augmentation Technique Using Salient Target. IEEE Access, 2022, 10, 123605-123613.	2.6	0
2912	Measurement and Prediction of Micronewton Class Thrust of Electric Propulsion Based on the Torsional Pendulum and Machine Learning Technique. IEEE Transactions on Instrumentation and Measurement, 2023, 72, 1-14.	2.4	2
2913	Gabor CNN Based Intelligent System for Visual Sentiment Analysis of Social Media Data on Cloud Environment. IEEE Access, 2022, 10, 132455-132471.	2.6	1
2914	Employing Generative Adversarial Network inÂCOVID-19 Diagnosis. Lecture Notes in Computer Science, 2022, , 247-258.	1.0	0
2915	Event Augmentation for Contact Force Measurements. IEEE Access, 2022, 10, 123651-123660.	2.6	5
2916	Synonym-Based Essay Generation andÂAugmentation forÂRobust Automatic Essay Scoring. Lecture Notes in Computer Science, 2022, , 12-21.	1.0	0
2917	Data augmentation methods for semantic segmentation-based mobile robot perception system. Serbian Journal of Electrical Engineering, 2022, 19, 291-302.	0.2	0
2918	Urdu Handwritten Ligature Generation Using Generative Adversarial Networks (GANs). Lecture Notes in Computer Science, 2022, , 421-435.	1.0	2
2919	Augmented Data as an Auxiliary Plug-In Toward Categorization of Crowdsourced Heritage Data. Lecture Notes in Electrical Engineering, 2022, , 53-62.	0.3	0
2920	Visual analysis of machine learning methods in the field of ergonomics â€" Based on Cite Space V. International Journal of Industrial Ergonomics, 2023, 93, 103395.	1.5	3
2921	Context encoder transfer learning approaches for retinal image analysis. Computers in Biology and Medicine, 2023, 152, 106451.	3.9	0
2922	A review on methods for state of health forecasting of lithium-ion batteries applicable in real-world operational conditions. Journal of Energy Storage, 2023, 57, 105978.	3.9	21
2923	Automatic detection, classification and localization of defects in large photovoltaic plants using unmanned aerial vehicles (UAV) based infrared (IR) and RGB imaging. Energy Conversion and Management, 2023, 276, 116495.	4.4	12
2924	Adaptive learning for single-output complex systems via data augmentation and data type identification. Applied Soft Computing Journal, 2023, 132, 109895.	4.1	2
2925	Decoding degeneration: the implementation of machine learning for clinical detection of neurodegenerative disorders. Neural Regeneration Research, 2023, 18, 1235.	1.6	3
2926	Patch-based CNN for corneal segmentation of AS-OCT images: Effect of the number of classes and image quality upon performance. Computers in Biology and Medicine, 2023, 152, 106342.	3.9	3
2927	Data augmentation for medical imaging: A systematic literature review. Computers in Biology and Medicine, 2023, 152, 106391.	3.9	39

#	Article	IF	CITATIONS
2928	Symmetry-based regularization in deep breast cancer screening. Medical Image Analysis, 2023, 83, 102690.	7.0	3
2929	Autonomous Dozer Sand Grading Under Localization Uncertainties. IEEE Robotics and Automation Letters, 2023, 8, 65-72.	3.3	1
2930	A method based on a one-dimensional convolutional neural network for UV-vis spectrometric quantification of nitrate and COD in water under random turbidity disturbance scenario. RSC Advances, 2022, 13, 516-526.	1.7	5
2931	Learning to automate cryo-electron microscopy data collection with <i>Ptolemy</i> . IUCrJ, 2023, 10, 90-102.	1.0	8
2932	Groundwater contaminant source identification based on an ensemble learning search framework associated with an auto xgboost surrogate. Environmental Modelling and Software, 2023, 159, 105588.	1.9	9
2933	Self-mentoring: A new deep learning pipeline to train a self-supervised U-net for few-shot learning of bio-artificial capsule segmentation. Computers in Biology and Medicine, 2023, 152, 106454.	3.9	0
2934	Image synthesis with disentangled attributes for chest X-ray nodule augmentation and detection. Medical Image Analysis, 2023, 84, 102708.	7.0	6
2935	Towards data augmentation in graph neural network: An overview and evaluation. Computer Science Review, 2023, 47, 100527.	10.2	6
2936	Deconvolution of 1D NMR spectra: A deep learning-based approach. Journal of Magnetic Resonance, 2023, 347, 107357.	1.2	14
2937	Bridge coating inspection based on two-stage automatic method and collision-tolerant unmanned aerial system. Automation in Construction, 2023, 146, 104685.	4.8	7
2938	Automatic generation of artificial images of leukocytes and leukemic cells using generative adversarial networks (syntheticcellgan). Computer Methods and Programs in Biomedicine, 2023, 229, 107314.	2.6	9
2939	Equitable modelling of brain imaging by counterfactual augmentation with morphologically constrained 3D deep generative models. Medical Image Analysis, 2023, 84, 102723.	7.0	3
2940	Noise ECG generation method based on generative adversarial network. Biomedical Signal Processing and Control, 2023, 81, 104444.	3.5	1
2941	A super-ensemble approach to map land cover types with high resolution over data-sparse African savanna landscapes. International Journal of Applied Earth Observation and Geoinformation, 2023, 116, 103152.	0.9	1
2942	Machine learning utilized for the development of proton exchange membrane electrolyzers. Journal of Power Sources, 2023, 556, 232389.	4.0	6
2943	Karstified zone interpretation using deep learning algorithms: Convolutional neural networks applications and model interpretability with explainable Al. Computers and Geosciences, 2023, 171, 105281.	2.0	4
2944	Identification and classification of exfoliated graphene flakes from microscopy images using a hierarchical deep convolutional neural network. Engineering Applications of Artificial Intelligence, 2023, 119, 105743.	4.3	5
2945	Nutrients deficiency diagnosis of rice crop by weighted average ensemble learning. Smart Agricultural Technology, 2023, 4, 100155.	3.1	11

#	Article	IF	CITATIONS
2946	DeepDream Algorithm for Data Augmentation in a Neural Network Ensemble Applied to Multiclass Image Classification. Communications in Computer and Information Science, 2022, , 655-667.	0.4	1
2947	Investigation of the added value of CycleGAN on the plant pathology dataset. IFAC-PapersOnLine, 2022, 55, 89-94.	0.5	2
2948	Glomerulosclerosis Identification Using aÂModified Dense Convolutional Network. Lecture Notes in Computer Science, 2022, , 237-252.	1.0	0
2949	A Rule-Based Approach for Generating Synthetic Biological Pathways. Lecture Notes in Computer Science, 2022, , 105-116.	1.0	0
2950	An Effective Image Augmentation Approach for Maize Crop Disease Recognition and Classification. Communications in Computer and Information Science, 2022, , 63-72.	0.4	0
2951	A Scheme forÂNews Article Classification inÂaÂLow-Resource Language. Lecture Notes in Computer Science, 2022, , 519-530.	1.0	1
2952	Training andÂServing Machine Learning Models atÂScale. Lecture Notes in Computer Science, 2022, , 669-683.	1.0	0
2953	Multisource Classification of Meridiani Planum's Aeolian Landscape Using HiRISE and Opportunity Images Analysis Based on Deep Learning. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2022, 15, 9963-9975.	2.3	0
2954	Recent Advances in Silicon Solar Cell Research Using Data Science-Based Learning. IEEE Journal of Photovoltaics, 2023, 13, 2-15.	1.5	0
2955	Cooperative Resource Allocation Based on Soft Actor–Critic With Data Augmentation in Cellular Network. IEEE Wireless Communications Letters, 2023, 12, 396-400.	3.2	3
2956	Data Augmentation to Address Various Rotation Errors of Wearable Sensors for Robust Pre-impact Fall Detection. IEEE Journal of Biomedical and Health Informatics, 2023, 27, 2197-2207.	3.9	4
2957	Recognition ofÂAquatic Invasive Species Larvae Using Autoencoder-Based Feature Averaging. Lecture Notes in Computer Science, 2022, , 145-161.	1.0	2
2958	Efficient Classification withÂCounterfactual Reasoning andÂActive Learning. Lecture Notes in Computer Science, 2022, , 27-38.	1.0	0
2959	DMT-EV: An Explainable Deep Network for Dimension Reduction. IEEE Transactions on Visualization and Computer Graphics, 2024, 30, 1710-1727.	2.9	4
2960	Performance Evaluation of Deep Learning Models for Image Classification Over Small Datasets: Diabetic Foot Case Study. IEEE Access, 2022, 10, 124373-124386.	2.6	4
2961	Whole Slide Image Quality in Digital Pathology: Review and Perspectives. IEEE Access, 2022, 10, 131005-131035.	2.6	3
2962	Gammatonegram based Pulmonary Pathologies Classification using Convolutional Neural Networks. , 2022, , .		3
2963	An Accurate Deep Learning Threat Image Detection Algorithm for X-Ray Baggage Dataset. , 2022, , .		O

#	ARTICLE	IF	Citations
2964	Object-Based Perspective Transformation Data Augmentation for Object Detection., 2022,,.		1
2965	TOMATO DISEASE DETECTION MODEL BASED ON DENSENET AND TRANSFER LEARNING. , 2022, 18, 56-70.		1
2966	Lightweight Object Detection Model with Data Augmentation for Tiny Pest Detection. , 2022, , .		2
2967	Automatic Rice Disease Detection and Assistance Framework Using Deep Learning and a Chatbot. Electronics (Switzerland), 2022, 11, 2110.	1.8	12
2968	Image Augmentations in Planetary Science: Implications in Self-Supervised Learning and Weakly-Supervised Segmentation on Mars. , 2022, , .		0
2969	Underwater Object Detection with Swin Transformer. , 2022, , .		1
2970	Dynamic Data Augmentation with Gating Networks for Time Series Recognition., 2022,,.		1
2971	Various Convolutional Neural Networks for Predicting Types of Hurricane Damage Images., 2022,,.		0
2972	Solar Flare Forecasting with Deep Learning-based Time Series Classifiers. , 2022, , .		3
2973	Time-coherent embeddings for Wireless Capsule Endoscopy. , 2022, , .		0
2974	Reinforcement-based Display Selection for Frugal Learning. , 2022, , .		0
2975	Segment Augmentation and Differentiable Ranking for Logo Retrieval. , 2022, , .		0
2976	Graph Data Augmentation for Node Classification. , 2022, , .		1
2977	Adv-Cut Paste: Semantic adversarial class specific data augmentation technique for object detection. , 2022, , .		1
2978	Data augmentation with mixtures of max-entropy transformations for filling-level classification. , 2022, , .		0
2979	Saliency Map Based Data Augmentation. , 2022, , .		0
2980	TS-DENSE: Time Series Data Augmentation by Subclass Clustering. , 2022, , .		0
2981	Membership Inference Countermeasure With A Partially Synthetic Data Approach., 2022,,.		1

#	ARTICLE	IF	CITATIONS
2982	A Deep Learning-based Methodology for Predicting Monkey Pox from Skin Sores. , 2022, , .		4
2983	Impact of MR sequences choice on deep learning segmentation of muscles. , 2022, , .		O
2984	Locality-based Time Series Data Augmentation for Multi-Sensor Internet Of Things Terminal. , 2022, , .		0
2985	Multiclass Classification of Skin Cancer using Convolutional Neural Network. , 2022, , .		0
2986	Comparing Traditional and GAN-based Approaches for the Synthesis of Wide Area Network Topologies. , 2022, , .		2
2987	Improving Fault Localization Using Model-domain Synthesized Failing Test Generation., 2022,,.		5
2988	Angle Classification of 3D-printed Container Models Dropped into the Towing Tank. , 2022, , .		0
2989	Cross-Modal Contrastive Learning for Code Search. , 2022, , .		2
2990	How Good Is Your Verilog RTL Code?. , 2022, , .		3
2991	Improving the performance of door detection in color images using deep neural networks and data augmentation techniques on various hardware platforms. , 2022, , .		O
2992	A Deep Learning based System for Covid-19 Positive Cases Detection Using Chest X-ray Images., 2022,,.		4
2993	Generative Data Augmentation via Wasserstein Autoencoder for Text Classification., 2022,,.		0
2994	Coupling Fast Superresolution CNN with Fast Plane-Wave Fourier-Domain Beamforming. , 2022, , .		1
2995	SFMNet:focusing on feature attention for image classification. , 2022, , .		O
2996	Diagnosis of Malaria using Machine Learning Models. , 2022, , .		0
2997	Object Detection with Dataset Augmentation for Fire Images Based on GAN., 2022,,.		1
2998	Data-Centric Model Development to Improve the CNN Classification of Defect Density SEM Images. , 2022, , .		1
2999	A Comprehensive Review on Fake Images/Videos Detection Techniques. , 2022, , .		5

#	ARTICLE	IF	CITATIONS
3000	Brain Tumor Detection using Convolution Neural Network with Data Augmentation., 2022, , .		8
3001	Video frame interpolation via residual blocks and feature pyramid networks. IET Image Processing, 0, , .	1.4	O
3002	Self-Super-Resolution of an MRI Image with Assistance of the DSTTD System. Journal of Healthcare Engineering, 2022, 2022, 1-11.	1.1	0
3003	Hyperspectral Image Data Construction and Expansion Method of Ground Object. Lecture Notes in Electrical Engineering, 2023, , 161-169.	0.3	O
3004	Deep learning prediction of stroke thrombus red blood cell content from multiparametric MRI. Interventional Neuroradiology, 0, , 159101992211409.	0.7	2
3005	A novel automatic classification approach for micro-flaws on the large-aperture optics surface based on multi-light source fusion and integrated deep learning architecture. Journal of Intelligent Manufacturing, 2024, 35, 413-428.	4.4	1
3006	Survey on Fruit Classification Using Deep Learning Techniques. Lecture Notes in Networks and Systems, 2023, , 497-505.	0.5	0
3007	Robustness Scan of Digital Circuits Using Convolutional Neural Networks. , 2022, , .		O
3008	Characterisation of urban environment and activity across space and time using street images and deep learning in Accra. Scientific Reports, 2022, 12, .	1.6	2
3010	Towards an Al-based understanding of the solar wind: A critical data analysis of ACE data. Frontiers in Astronomy and Space Sciences, 0, 9, .	1.1	0
3011	Language Models forÂDeep Learning Programming: A Case Study withÂKeras. Advances in Intelligent Systems and Computing, 2023, , 135-161.	0.5	0
3012	Syllable Analysis Data Augmentation for Khmer Ancient Palm leaf Recognition. , 2022, , .		0
3013	A Policy-based Approach to the SpecAugment Method for Low Resource E2E ASR. , 2022, , .		1
3014	Handwashing Action Detection System for an Autonomous Social Robot. , 2022, , .		0
3015	Animal Pose Tracking: 3D Multimodal Dataset and Token-based Pose Optimization. International Journal of Computer Vision, 2023, 131, 514-530.	10.9	2
3016	Influence of Insufficient Dataset Augmentation on IoU and Detection Threshold in CNN Training for Object Detection on Aerial Images. Sensors, 2022, 22, 9080.	2.1	1
3017	Multi-layer Wavelet Transformations for Image Super-Resolution: Applications to Voxel-Based Deep Learning and Areal Density Maps of Carbon Nanotube Sheets. Advances in Intelligent Systems and Computing, 2023, , 339-359.	0.5	0
3018	An efficient anchorâ€free method for pig detection. IET Image Processing, 2023, 17, 613-626.	1.4	3

#	ARTICLE	IF	CITATIONS
3019	Moving Object Detection in Video Sequences Based on a Two-Frame Temporal Information CNN. Neural Processing Letters, $0, , .$	2.0	3
3020	A Framework for Lung and Colon Cancer Diagnosis via Lightweight Deep Learning Models and Transformation Methods. Diagnostics, 2022, 12, 2926.	1.3	19
3021	Two stages cascades neural network for multi-class brain lesion classification system in MRI images. Journal of Intelligent and Fuzzy Systems, 2023, 44, 4717-4732.	0.8	1
3022	Edge Al-Based Tree Trunk Detection for Forestry Monitoring Robotics. Robotics, 2022, 11, 136.	2.1	8
3023	Robust Ulcer Classification: Contrast and Illumination Invariant Approach. Diagnostics, 2022, 12, 2898.	1.3	0
3024	Research on fundus image augmentation algorithm. , 2022, , .		0
3025	Self-Supervised Action Representation Learning Based on Asymmetric Skeleton Data Augmentation. Sensors, 2022, 22, 8989.	2.1	0
3026	Adversarial counterfactual augmentation: application in Alzheimer's disease classification. Frontiers in Radiology, 0, 2, .	1.2	3
3027	Automated Design of the Deep Neural Network Pipeline. Applied Sciences (Switzerland), 2022, 12, 12215.	1.3	2
3028	Study of Different Transformer based Networks For Glaucoma Detection. , 2022, , .		5
3029	Intelligent Weed Management Based on Object Detection Neural Networks in Tomato Crops. Agronomy, 2022, 12, 2953.	1.3	8
3030	Shape-bias Evaluation of Pretrained Models using Image Decomposition. , 2022, , .		0
3031	Eyes Recognition for Inner Canthus Temperature Detection using YOLOv5 Algorithm., 2022,,.		1
3032	Application of CNNs in Home Security. , 2022, , .		1
3033	Cervical Cancer Screening on Multi-class Imbalanced Cervigram Dataset using Transfer Learning. , 2022, , .		3
3034	Sugarcane Classification for On-Site Assessment Using Computer Vision. , 2022, , .		1
3035	Rail Train Number Recognition Based on Improved VGG-16 Network. , 2022, , .		0
3036	Study on Microscopic Fracture Surface Analysis based on Deep Learning (1): Fracture Surface Classification by Convolutional Neural Network. Journal of the Korean Society of Manufacturing Process Engineers, 2022, 21, 1-8.	0.1	0

#	ARTICLE	IF	CITATIONS
3037	A Deep Learning Semantic Segmentation Method for Landslide Scene Based on Transformer Architecture. Sustainability, 2022, 14, 16311.	1.6	4
3038	Industrial Fluids Components Health Management Using Deep Learning. Artificial Intelligence, 0, , .	2.0	2
3039	Glomerulosclerosis detection with pre-trained CNNs ensemble. Computational Statistics, 0, , .	0.8	0
3040	Deep Learning Object Detection for Image Analysis of Cherry Fruit Fly (Rhagoletis cerasiÂL.) on Yellow Sticky Traps. Gesunde Pflanzen, 2023, 75, 37-48.	1.7	5
3041	Deep learning-based age estimation from chest X-rays indicates cardiovascular prognosis. Communications Medicine, 2022, 2, .	1.9	11
3043	Deep Learning in Diverse Intelligent Sensor Based Systems. Sensors, 2023, 23, 62.	2.1	7
3044	Automated Hyperparameter Optimization of Gradient Boosting Decision Tree Approach for Gold Mineral Prospectivity Mapping in the Xiong'ershan Area. Minerals (Basel, Switzerland), 2022, 12, 1621.	0.8	2
3045	Comparison of Classic Classifiers, Metaheuristic Algorithms and Convolutional Neural Networks in Hyperspectral Classification of Nitrogen Treatment in Tomato Leaves. Remote Sensing, 2022, 14, 6366.	1.8	5
3046	CAD system for inter-turn fault diagnosis of offshore wind turbines via multi-CNNs & CAD selection. Renewable Energy, 2023, 203, 870-880.	4.3	20
3047	A Novel Ensemble Weight-Assisted Yolov5-Based Deep Learning Technique for the Localization and Detection of Malaria Parasites. Electronics (Switzerland), 2022, 11, 3999.	1.8	4
3048	Scientometric analysis and critical review on the application of deep learning in the construction industry. Canadian Journal of Civil Engineering, 2023, 50, 253-269.	0.7	2
3049	Performance of the Deep Neural Network Ciloctunet, Integrated with Open-Source Software for Ciliary Muscle Segmentation in Anterior Segment OCT Images, Is on Par with Experienced Examiners. Diagnostics, 2022, 12, 3055.	1.3	1
3050	Predicting individual quality ratings of compressed images through deep CNNs-based artificial observers. Signal Processing: Image Communication, 2023, 112, 116917.	1.8	3
3051	Adaptive Importance Sampling for Equivariant Group-Convolution Computation. , 0, , .		1
3052	Sonar Image Target Detection Based on Style Transfer Learning and Random Shape of Noise under Zero Shot Target. Remote Sensing, 2022, 14, 6260.	1.8	3
3053	Learning for Data Synthesis: Joint Local Salient Projection and Adversarial Network Optimization for Vehicle Re-Identification. Sensors, 2022, 22, 9539.	2.1	0
3054	Machine-Supported Bridge Inspection Image Documentation Using Artificial Intelligence. Transportation Research Record, 2023, 2677, 720-736.	1.0	3
3055	Ultra-High-Resolution UAV-Based Detection of Alternaria solani Infections in Potato Fields. Remote Sensing, 2022, 14, 6232.	1.8	9

#	ARTICLE	IF	CITATIONS
3056	Multi-task Transfer Learning Facilitated by Segmentation and Denoising for Anomaly Detection of Rail Fasteners. Journal of Electrical Engineering and Technology, 2023, 18, 2383-2394.	1.2	2
3057	Detection of Rail Surface Defects Based on Ensemble Learning of YOLOv5. Demiryolu Mýhendisliği, 2023, , 115-132.	0.4	3
3058	ObjectMix. , 2022, , .		4
3059	Scarce Data in Intelligent Technical Systems: Causes, Characteristics, and Implications. Sci, 2022, 4, 49.	1.8	1
3060	A Method for Estimating the Injection Position of Turbot (Scophthalmus maximus) Using Semantic Segmentation. Fishes, 2022, 7, 385.	0.7	1
3061	An Optimal Artificial Intelligence System for Real-Time Endoscopic Prediction of Invasion Depth in Early Gastric Cancer. Cancers, 2022, 14, 6000.	1.7	3
3062	Comparative Study of Various Neural Network Types for Direct Inverse Material Parameter Identification in Numerical Simulations. Applied Sciences (Switzerland), 2022, 12, 12793.	1.3	0
3063	Occam: Optimal Data Reuse for Convolutional Neural Networks. Transactions on Architecture and Code Optimization, 2023, 20, 1-25.	1.6	0
3064	Data-driven technology of fault diagnosis in railway point machines: review and challenges. Transportation Safety and Environment, 2022, 4, .	1.1	15
3065	Structure and Base Analysis of Receptive Field Neural Networks in a Character Recognition Task. Sensors, 2022, 22, 9743.	2.1	0
3066	Capsule robot pose and mechanism state detection in ultrasound using attention-based hierarchical deep learning. Scientific Reports, 2022, 12, .	1.6	4
3067	Defect Detection of MEMS Based on Data Augmentation, WGAN-DIV-DC, and a YOLOv5 Model. Sensors, 2022, 22, 9400.	2.1	1
3068	Non-invasive identification of apple sugar content based on convolutional neural networks. , 2022, , .		0
3069	A Survey on Deep Learning in COVID-19 Diagnosis. Journal of Imaging, 2023, 9, 1.	1.7	7
3070	Improved YOLOv5 network for real-time multi-scale traffic sign detection. Neural Computing and Applications, 2023, 35, 7853-7865.	3.2	86
3071	Mask-Guided Generation Method for Industrial Defect Images with Non-uniform Structures. Machines, 2022, 10, 1239.	1.2	1
3072	Segmentation of Spinal Subarachnoid Lumen with 3D Attention U-Net. Journal of Mechanics in Medicine and Biology, 0, , .	0.3	0
3073	Deep Learning Model for Computer-Aided Diagnosis of Urolithiasis Detection from Kidney–Ureter–Bladder Images. Bioengineering, 2022, 9, 811.	1.6	5

#	Article	IF	Citations
3074	DeepEOR: automated perioperative volumetric assessment of variable grade gliomas using deep learning. Acta Neurochirurgica, 2023, 165, 555-566.	0.9	1
3075	Comparison of Deep Learning Network for Breast Tumor Segmentation from X-Ray. Cybernetics and Systems, 0, , 1-15.	1.6	O
3076	Identification of seed coat sculptures using deep learning. Journal of Asia-Pacific Biodiversity, 2023, 16, 234-245.	0.2	1
3077	Nucleotide augmentation for machine learning-guided protein engineering. Bioinformatics Advances, 2023, 3, .	0.9	3
3078	Deep learning classification of urinary sediment crystals with optimal parameter tuning. Scientific Reports, 2022, 12, .	1.6	5
3079	Predicting age from resting-state scalp EEG signals with deep convolutional neural networks on TD-brain dataset. Frontiers in Aging Neuroscience, 0, 14, .	1.7	6
3080	FlowerPhenoNet: Automated Flower Detection from Multi-View Image Sequences Using Deep Neural Networks for Temporal Plant Phenotyping Analysis. Remote Sensing, 2022, 14, 6252.	1.8	1
3083	Deep learning enables accurate analysis of images generated from droplet-based digital polymerase chain reaction (dPCR). Sensors and Actuators B: Chemical, 2023, 379, 133241.	4.0	6
3084	Sustainability in Wood Products: A New Perspective for Handling Natural Diversity. Chemical Reviews, 2023, 123, 1889-1924.	23.0	15
3085	Deep neural network-based workflow for attenuating seismic interference noise and its application to marine towed-streamer data from the northern Viking Graben. Geophysics, 2023, 88, B69-B77.	1.4	0
3086	Deep neural network automated segmentation of cellular structures in volume electron microscopy. Journal of Cell Biology, 2023, 222, .	2.3	9
3087	PatchMask: A Data Augmentation Strategy with Gaussian Noise in Hyperspectral Images. Remote Sensing, 2022, 14, 6308.	1.8	4
3088	Yolov4 in White Blood Cell Classification. Algorithms for Intelligent Systems, 2023, , 387-400.	0.5	0
3089	Landslide detection based on shipborne images and deep learning models: a case study in the Three Gorges Reservoir Area in China. Landslides, 2023, 20, 547-558.	2.7	5
3090	Inhalation Injury Grading Using Transfer Learning Based on Bronchoscopy Images and Mechanical Ventilation Period. Sensors, 2022, 22, 9430.	2.1	1
3091	Illumination-robust milling surface roughness machine vision inspection based on MAML++ network. Optical Engineering, 2022, 61, .	0.5	3
3092	Attenuation of seismic migration smile artifacts with deep learning. Artificial Intelligence in Geosciences, 2022, 3, 123-131.	0.9	1
3093	Distributed Raman Spectrum Data Augmentation System Using Federated Learning with Deep Generative Models. Sensors, 2022, 22, 9900.	2.1	6

#	ARTICLE	IF	CITATIONS
3094	Deep Learning-Based Artificial Intelligence to Investigate Targeted Nanoparticles' Uptake in TNBC Cells. International Journal of Molecular Sciences, 2022, 23, 16070.	1.8	8
3095	Data Augmentation for Small Sample Iris Image Based on a Modified Sparrow Search Algorithm. International Journal of Computational Intelligence Systems, 2022, 15, .	1.6	3
3096	Invariance encoding in sliced-Wasserstein space for image classification with limited training data. Pattern Recognition, 2023, 137, 109268.	5.1	0
3097	A reinforced CenterNet scheme on position detection of acoustic levitated objects. Neural Computing and Applications, 0, , .	3.2	1
3098	High-fidelity diabetic retina fundus image synthesis from freestyle lesion maps. Biomedical Optics Express, 2023, 14, 533.	1.5	3
3099	Water Meter Reading for Smart Grid Monitoring. Sensors, 2023, 23, 75.	2.1	9
3100	Automated Detection of Rice Bakanae Disease via Drone Imagery. Sensors, 2023, 23, 32.	2.1	2
3101	Improving Inertial Sensor-Based Activity Recognition in Neurological Populations. Sensors, 2022, 22, 9891.	2.1	3
3102	S-ResNet: An improved ResNet neural model capable of the identification of small insects. Frontiers in Plant Science, 0, 13, .	1.7	5
3103	Robust Data Augmentation Generative Adversarial Network for Object Detection. Sensors, 2023, 23, 157.	2.1	4
3104	Use of Neural Networks and Computer Vision for Spill and Waste Detection in Port Waters: An Application in the Port of Palma (MaJorca, Spain). Applied Sciences (Switzerland), 2023, 13, 80.	1.3	1
3105	bacto_tracker: a method for single-cell tracking of M. xanthus in dense and multispecies colonies. Open Research Europe, 0, 2, 136.	2.0	2
3106	Pathwise CVA regressions with oversimulated defaults. Mathematical Finance, 0, , .	0.9	2
3107	Machine learning and deep learning for blood pressure prediction: a methodological review from multiple perspectives. Artificial Intelligence Review, 2023, 56, 8095-8196.	9.7	1
3109	Multi-Window Identification of Landslide Hazards Based on InSAR Technology and Factors Predisposing to Disasters. Land, 2023, 12, 173.	1,2	4
3110	GabROP: Gabor Wavelets-Based CAD for Retinopathy of Prematurity Diagnosis via Convolutional Neural Networks. Diagnostics, 2023, 13, 171.	1.3	12
3111	A Codeword-Independent Localization Technique for Reconfigurable Intelligent Surface Enhanced Environments Using Adversarial Learning. Sensors, 2023, 23, 984.	2.1	0
3112	Acceleration Techniques for Automated Design of Approximate Convolutional Neural Networks. IEEE Journal on Emerging and Selected Topics in Circuits and Systems, 2023, 13, 212-224.	2.7	1

#	Article	IF	CITATIONS
3113	Deep Learning Based Automated Chest X-ray Abnormalities Detection. Lecture Notes in Networks and Systems, 2023, , 1-12.	0.5	1
3114	Convolutional neural networks for identification of moving combustion chambers entering a brazing process. Procedia Computer Science, 2023, 217, 1106-1116.	1.2	O
3115	Catch Recognition in Automated American Football Training Using Machine Learning. Sensors, 2023, 23, 840.	2.1	0
3116	An automatic gastric polyp detection technique using deep learning. International Journal of Imaging Systems and Technology, 2023, 33, 866-880.	2.7	5
3117	Application of Convolution Neural Network for Rapid Flood Mapping Using Sentinel-1 Imagery—A Case Study in Central Region of Vietnam. Environmental Science and Engineering, 2023, , 431-443.	0.1	1
3118	Identification of Polymers with a Small Data Set of Mid-infrared Spectra: A Comparison between Machine Learning and Deep Learning Models. Environmental Science and Technology Letters, 2023, 10, 1030-1035.	3.9	3
3119	Replacing Method forÂMulti-Agent Crowd Simulation byÂConvolutional Neural Network. Lecture Notes in Computer Science, 2023, , 16-27.	1.0	0
3120	Mandible segmentation from CT data for virtual surgical planning using an augmented two-stepped convolutional neural network. International Journal of Computer Assisted Radiology and Surgery, 2023, 18, 1479-1488.	1.7	2
3121	Fine-tuning transfer learning based on DCGAN integrated with self-attention and spectral normalization for bearing fault diagnosis. Measurement: Journal of the International Measurement Confederation, 2023, 210, 112421.	2.5	15
3122	Automatic Segmentation of Organs-at-Risk in Thoracic Computed Tomography Images Using Ensembled U-Net InceptionV3 Model. Journal of Computational Biology, 2023, 30, 346-362.	0.8	2
3123	A systematic review of intelligent tutoring systems based on Gross body movement detected using computer vision. Computers and Education Artificial Intelligence, 2023, 4, 100125.	6.9	5
3124	Identification and Counting of Coffee Trees Based on Convolutional Neural Network Applied to RGB Images Obtained by RPA. Sustainability, 2023, 15, 820.	1.6	1
3125	A Remote-Vision-Based Safety Helmet and Harness Monitoring System Based on Attribute Knowledge Modeling. Remote Sensing, 2023, 15, 347.	1.8	1
3126	Automatic segmentation of human knee anatomy by a convolutional neural network applying a 3D MRI protocol. BMC Musculoskeletal Disorders, 2023, 24, .	0.8	6
3127	A hybrid end-to-end learning approach for breast cancer diagnosis: convolutional recurrent network. Computers and Electrical Engineering, 2023, 105, 108562.	3.0	10
3128	A Skin Disease Classification Model Based on DenseNet and ConvNeXt Fusion. Electronics (Switzerland), 2023, 12, 438.	1.8	7
3129	The segmentation effect of style transfer on fetal head ultrasound image: a study of multi-source data. Medical and Biological Engineering and Computing, 2023, 61, 1017-1031.	1.6	3
3130	A Survey of Few-Shot Learning for Image Classification of Aerial Objects. Lecture Notes in Electrical Engineering, 2023, , 570-582.	0.3	0

#	Article	IF	CITATIONS
3131	An Objective Metallographic Analysis Approach Based on Advanced Image Processing Techniques. Journal of Manufacturing and Materials Processing, 2023, 7, 17.	1.0	1
3132	Imaging With Equivariant Deep Learning: From unrolled network design to fully unsupervised learning. IEEE Signal Processing Magazine, 2023, 40, 134-147.	4.6	4
3133	Augmenting ECG Data with Multiple Filters for a Better Emotion Recognition System. Arabian Journal for Science and Engineering, 2023, 48, 10313-10334.	1.7	5
3134	A MobileNet-based CNN model with a novel fine-tuning mechanism for COVID-19 infection detection. Soft Computing, 2023, 27, 5521-5535.	2.1	20
3135	Deep Learning Model for Static Ocular Torsion Detection Using Synthetically Generated Fundus Images. Translational Vision Science and Technology, 2023, 12, 17.	1.1	1
3136	3D reconstruction of proximal femoral fracture from biplanar radiographs with fractural representative learning. Scientific Reports, 2023, 13, .	1.6	0
3137	Improving generalization performance of electrocardiogram classification models. Physiological Measurement, 0, , .	1.2	1
3138	Boosting anomaly detection using unsupervised diverse test-time augmentation. Information Sciences, 2023, 626, 821-836.	4.0	4
3139	Deep learning for detecting macroplastic litter in water bodies: A review. Water Research, 2023, 231, 119632.	5.3	18
3140	Intelligent detection and waste control of hawthorn fruit based on ripening level using machine vision system and deep learning techniques. Results in Engineering, 2023, 17, 100891.	2.2	11
3141	A method to create real-like point clouds for 3D object classification. Frontiers in Robotics and Al, 0, 9, .	2.0	0
3142	Tree Seedlings Detection and Counting Using a Deep Learning Algorithm. Applied Sciences (Switzerland), 2023, 13, 895.	1.3	4
3143	High-accuracy identification of interferograms between two vortex beams via deep learning without adequate experimental data. Journal of Optics (United Kingdom), 2023, 25, 035701.	1.0	1
3144	Computer-Aided Detection and Classification of Monkeypox and Chickenpox Lesion in Human Subjects Using Deep Learning Framework. Diagnostics, 2023, 13, 292.	1.3	22
3145	The Effect of Negative Samples on the Accuracy of Water Body Extraction Using Deep Learning Networks. Remote Sensing, 2023, 15, 514.	1.8	1
3146	Neural representations of the perception of handwritten digits and visual objects from a convolutional neural network compared to humans. Human Brain Mapping, 2023, 44, 2018-2038.	1.9	2
3147	Early-stage fusion of EEG and fNIRS improves classification of motor imagery. Frontiers in Neuroscience, 0, 16, .	1.4	8
3148	Video Based Mobility Monitoring of Elderly People Using Deep Learning Models. IEEE Access, 2023, 11, 2804-2819.	2.6	4

#	Article	IF	CITATIONS
3149	<scp>Internet of things</scp> based smart application for rice leaf disease classification using optimization integrated deep maxout network. Concurrency Computation Practice and Experience, 2023, 35, 1-1.	1.4	1
3150	Transfer learning for electricity price forecasting. Sustainable Energy, Grids and Networks, 2023, 34, 100996.	2.3	7
3151	Encoder–decoder semantic segmentation models for pressure wound images. Imaging Science Journal, 2022, 70, 75-86.	0.2	1
3152	Resting state network mapping in individuals using deep learning. Frontiers in Neurology, 0, 13, .	1.1	3
3154	MixOOD: Improving Out-of-distribution Detection with Enhanced Data Mixup. ACM Transactions on Multimedia Computing, Communications and Applications, 2022, 19, 1-18.	3.0	0
3155	Mel Spectrogram-based advanced deep temporal clustering model with unsupervised data for fault diagnosis. Expert Systems With Applications, 2023, 217, 119551.	4.4	9
3156	Clinical prototype implementation enabling an improved day-to-day mammography compression. Physica Medica, 2023, 106, 102524.	0.4	0
3157	A Deep Fourier Residual method for solving PDEs using Neural Networks. Computer Methods in Applied Mechanics and Engineering, 2023, 405, 115850.	3.4	7
3158	Fast optimization of multichip modules using deep learning coupled with Bayesian method. International Communications in Heat and Mass Transfer, 2023, 141, 106592.	2.9	10
3159	Catch Me if You Hear Me: Audio-Visual Navigation in Complex Unmapped Environments With Moving Sounds. IEEE Robotics and Automation Letters, 2023, 8, 928-935.	3.3	7
3160	Automatic classification of asphalt pavement cracks using a novel integrated generative adversarial networks and improved VGG model. Engineering Structures, 2023, 277, 115406.	2.6	49
3161	RADIC:A tool for diagnosing COVID-19 from chest CT and X-ray scans using deep learning and quad-radiomics. Chemometrics and Intelligent Laboratory Systems, 2023, 233, 104750.	1.8	15
3162	Evaluation of the potential of near infrared hyperspectral imaging for monitoring the invasive brown marmorated stink bug. Chemometrics and Intelligent Laboratory Systems, 2023, 234, 104751.	1.8	5
3163	Deep-active-learning approach towards accurate right ventricular segmentation using a two-level uncertainty estimation. Computerized Medical Imaging and Graphics, 2023, 104, 102168.	3.5	1
3164	Deep learning for the detection of semantic features in tree X-ray CT scans. Artificial Intelligence in Agriculture, 2023, 7, 13-26.	4.4	1
3165	Thermal failure of diamond tools indicated by diamond degradation: Damage evaluation and property prediction on small image datasets. Engineering Applications of Artificial Intelligence, 2023, 119, 105800.	4.3	2
3166	Deep learning models for automatic identification of plant-parasitic nematode. Artificial Intelligence in Agriculture, 2023, 7, 1-12.	4.4	6
3167	Determining the fullness of garbage containers by deep learning. Expert Systems With Applications, 2023, 217, 119544.	4.4	4

#	Article	IF	CITATIONS
3168	Diagnosis of brain diseases in fusion of neuroimaging modalities using deep learning: A review. Information Fusion, 2023, 93, 85-117.	11.7	28
3169	GUDU: Geometrically-constrained Ultrasound Data augmentation in U-Net for echocardiography semantic segmentation. Biomedical Signal Processing and Control, 2023, 82, 104557.	3.5	5
3170	DR-Unet++: An Approach for Left Ventricle Segmentation from Magnetic Resonance Images. , 2022, , .		1
3171	TransformNet: Self-supervised Representation Learning Through Predicting Geometric Transformations. , 2022, , .		0
3172	Image Preprocessing Techniques in Skin Diseases Prediction using Deep Learning: A Review., 2022,,.		1
3173	ParaPose: Parameter and Domain Randomization Optimization for Pose Estimation using Synthetic Data., 2022,,.		1
3174	Automatic Selection of Appropriate Data Augmentation Operation for Acoustic Scene Classification Model Training. , 2022, , .		0
3175	Hand-Crafted Features for Floating Plastic Detection. , 2022, , .		0
3176	An End-to-End Marking Recognition System for PCB Optical Inspection. , 2022, , .		0
3177	RESNET-50, CNN and HNN Medical Image Registration Techniques For Covid-19, Pneumonia and Other Chest Ailments Detection. , 2022, , .		6
3178	Unveiling Hidden DNN Defects with Decision-Based Metamorphic Testing. , 2022, , .		4
3179	Fault Classification on Melamine Faced Panels Using Local Binary Pattern., 2022, , .		0
3180	Deployment of Breast Cancer Hybrid Net using Deep Learning. , 2022, , .		4
3181	Patching Weak Convolutional Neural Network Models through Modularization and Composition. , 2022, , .		4
3182	B-AIS: An Automated Process for Black-box Evaluation of Visual Perception in Al-enabled Software against Domain Semantics. , 2022, , .		0
3183	Face Recognition to Determine Visitor Attraction Using Residual Deep Neural Network. , 2022, , .		0
3184	Face Detection in Still Image using SSD MobileNet V2 and Geometrical Algorithm. , 2022, , .		0
3185	Wallpaper Dataset for Image Classification. , 2022, , .		0

#	Article	IF	Citations
3186	Improving Sample Efficiency of Example-Guided Deep Reinforcement Learning for Bipedal Walking. , 2022, , .		0
3187	Endoscopic Image Analysis Using Deep Convolutional GAN And Traditional Data Augmentation. , 2022, , .		0
3188	Learning from the Past: Regularization by Validation. , 2022, , .		1
3189	Using Semi-supervised Transfer Learning for Classification of Solar Lentigo, Lentigo Maligna, and Lentigo Maligna Melanoma., 2022,,.		1
3190	An Efficient Convolutional Neural Network for Classification of Multi-Class Colorectal Tissue Using Histopathological Images. , 2022, , .		1
3191	Exploring Learning with Deep Heterogeneous Descriptor-based Sampling. , 2022, , .		0
3192	Physics-guided Data Augmentation for Learning the Solution Operator of Linear Differential Equations. , 2022, , .		0
3193	Deep Learning Techniques for Dental Image Diagnostics: A Survey. , 2022, , .		0
3194	Selective Data Augmentation for Improving the Performance of Offline Reinforcement Learning. , 2022, , .		0
3195	Multimodal Fusion and Data Augmentation for 3D Semantic Segmentation., 2022,,.		0
3196	Automated Honduran Banknote Image Classification using Machine Learning., 2022,,.		0
3197	Benchmark Tests of Atom Segmentation Deep Learning Models with a Consistent Dataset. Microscopy and Microanalysis, 2023, 29, 552-562.	0.2	3
3198	Molecular Formula Image Segmentation with Shape Constraint Loss and Data Augmentation., 2022,,.		0
3199	Next generation insect taxonomic classification by comparing different deep learning algorithms. PLoS ONE, 2022, 17, e0279094.	1.1	3
3200	Generating High-Resolution Chest X-ray Images Using CGAN., 2022,, 88-101.		0
3201	Yolov5s-CA: An Improved Yolov5 Based on the Attention Mechanism for Mummy Berry Disease Detection. Agriculture (Switzerland), 2023, 13, 78.	1.4	9
3202	Analysis of Face Data Augmentation in Various Poses for Face Recognition Model. , 2022, , .		0
3203	Overcome medical image data scarcity by data augmentation techniques: A review., 2022,,.		1

#	Article	IF	Citations
3204	A Framework to Predict Gastric Cancer Based on Tongue Features and Deep Learning. Micromachines, 2023, 14, 53.	1.4	6
3205	An Overview of Deep-Learning-Based Methods for Cardiovascular Risk Assessment with Retinal Images. Diagnostics, 2023, 13, 68.	1.3	6
3206	Automatic Segmentation of Cervical Cells Based on Star-Convex Polygons in Pap Smear Images. Bioengineering, 2023, 10, 47.	1.6	2
3207	Real-Time Personal Protective Equipment Compliance Detection Based on Deep Learning Algorithm. Sustainability, 2023, 15, 391.	1.6	6
3208	An Android-Based Application to Detect COVID-19 and Pneumonia Using Deep Learning. , 2022, , .		0
3209	Data-Augmented Manifold Learning Thermography for Defect Detection and Evaluation of Polymer Composites. Polymers, 2023, 15, 173.	2.0	3
3210	ViT-TB: Ensemble Learning Based ViT Model for Tuberculosis Recognition. Cybernetics and Systems, 2024, 55, 634-653.	1.6	6
3211	PointNetGeM: Simple and Efficient Point Cloud Based Network for Place Recognition. , 2022, , .		0
3212	A new hybrid framework based on deep neural networks and JAYA optimization algorithm for feature selection using SVM applied to classification of acute lymphoblastic Leukaemia. Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization, 2023, 11, 1549-1566.	1.3	1
3213	Classification of Aglaonema Using Machine Learning., 2022,,.		9
3214	Investigating Image Augmentation for Classification of Chest X-Ray Images. , 2022, , .		0
3215	Improving end-to-end deep learning methods for Arabic handwriting recognition. Journal of Electronic Imaging, 2022, 31, .	0.5	0
3216	An Efficient Deep Learning Method for Detection of COVID-19 Infection Using Chest X-ray Images. Diagnostics, 2023, 13, 131.	1.3	17
3218	Imbalanced classification for protein subcellular localization with multilabel oversampling. Bioinformatics, 2023, 39, .	1.8	2
3219	FPGA Implementation of a Lightweight Convolutional Neural Network Classifier for Speech Emotion Recognition. , 2022, , .		0
3220	High Quality Coal Foreign Object Image Generation Method Based on StyleGAN-DSAD. Sensors, 2023, 23, 374.	2.1	3
3223	Enhanced CT Image Generation by GAN for Improving Thyroid Anatomy Detection. , 2022, , .		0
3224	Designing Unmanned Aerial Survey Monitoring Program to Assess Floating Litter Contamination. Remote Sensing, 2023, 15, 84.	1.8	3

#	Article	IF	CITATIONS
3225	RANSAC for Robotic Applications: A Survey. Sensors, 2023, 23, 327.	2.1	18
3226	Multi-MedVit: a deep learning approach for the diagnosis of COVID-19 with the CT images. , 2022, , .		2
3227	Convolutional Neural Networks for C. Elegans Muscle Age Classification Using Only Self-learned Features. Journal of Telecommunications and Information Technology, 2022, 4, 85-96.	0.3	0
3228	Classification of tree species based on hyperspectral reflectance images of stem bark. European Journal of Remote Sensing, 2023, 56, .	1.7	2
3229	Diabetic Retinopathy Image Analysis Using Deep Learning Techniques. , 2022, , .		1
3230	YOLO with High Dataset Augmentation for Vehicle Class and Orientation Detection., 2022,,.		0
3231	Online Batch Selection for Enhanced Generalization in Imbalanced Datasets. Algorithms, 2023, 16, 65.	1.2	1
3232	An Efficient Automated Technique for Classification of Breast Cancer Using Deep Ensemble Model. Computer Systems Science and Engineering, 2023, 46, 897-911.	1.9	1
3233	A Study on Pine Larva Detection System Using Swin Transformer and Cascade R-CNN Hybrid Model. Applied Sciences (Switzerland), 2023, 13, 1330.	1.3	2
3234	Smart Low Level Laser Therapy System for Automatic Facial Dermatological Disorder Diagnosis. IEEE Journal of Biomedical and Health Informatics, 2023, 27, 1546-1557.	3.9	3
3235	Fine-grained Potato Disease Identification Based on Contrastive Convolutional Neural Networks. Applied Artificial Intelligence, 2023, 37, .	2.0	2
3236	Multilayer Ionospheric Model Constrained by Physical Prior Based on GNSS Stations. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2023, 16, 1842-1857.	2.3	0
3237	Deep Learning-Based Segmentation of Cellular Membranes in Colorectal Immunohistochemical Images. , 0, , .		0
3238	Automatic detection of multilayer hexagonal boron nitride in optical images using deep learning-based computer vision. Scientific Reports, 2023, 13, .	1.6	5
3239	Investigation of optimal convolutional neural network conditions for thyroid ultrasound image analysis. Scientific Reports, 2023, 13, .	1.6	1
3240	Toward Estimating MRI-Ultrasound Registration Error in Image-Guided Neurosurgery. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2023, 70, 999-1015.	1.7	3
3241	Deep learning based identification of bone scintigraphies containing metastatic bone disease foci. Cancer Imaging, 2023, 23, .	1.2	3
3242	SHAFTS (v2022.3): a deep-learning-based Python package for simultaneous extraction of building height and footprint from sentinel imagery. Geoscientific Model Development, 2023, 16, 751-778.	1.3	2

#	Article	IF	CITATIONS
3243	A new generative approach for optical coherence tomography data scarcity: unpaired mutual conversion between scanning presets. Medical and Biological Engineering and Computing, 2023, 61, 1093-1112.	1.6	1
3244	Transference of Training for a DNN to Complete the Aerial Refueling Task. , 2023, , .		5
3245	Analysing Wireless Capsule Endoscopy Images Using Deep Learning Frameworks to Classify Different GI Tract Diseases. , 2023, , .		1
3246	Cassava Disease Detection using MobileNetV3 Algorithm through Augmented Stem and Leaf Images. , 2023, , .		0
3247	Identification of Facade Elements of Traditional Areas in Seoul, South Korea. Land, 2023, 12, 277.	1.2	0
3248	Tailings Pond Classification Based on Satellite Images and Machine Learning: An Exploration of Microsoft ML.Net. Mathematics, 2023, 11, 517.	1.1	2
3249	Varied Image Data Augmentation Methods for Building Ensemble. IEEE Access, 2023, 11, 8810-8823.	2.6	6
3250	Flow-field Emulation and Shape Optimization of Compressor Airfoils using Design-Variable Hypernetworks., 2023,,.		0
3251	IWGAN: Anomaly Detection in Airport Based on Improved Wasserstein Generative Adversarial Network. Applied Sciences (Switzerland), 2023, 13, 1397.	1.3	2
3252	Automatic Detection of Corrosion in Large-Scale Industrial Buildings Based on Artificial Intelligence and Unmanned Aerial Vehicles. Applied Sciences (Switzerland), 2023, 13, 1386.	1.3	9
3253	Multiview Deep Forest for Overall Survival Prediction in Cancer. Computational and Mathematical Methods in Medicine, 2023, 2023, 1-12.	0.7	1
3254	Orientation estimation for instrumented helmet using neural networks. Measurement and Control, 0, , 002029402211490.	0.9	0
3255	Automatic Detection of Oral Squamous Cell Carcinoma from Histopathological Images of Oral Mucosa Using Deep Convolutional Neural Network. International Journal of Environmental Research and Public Health, 2023, 20, 2131.	1.2	11
3256	Artificial Intelligence Tools and Techniques to Combat Herbicide Resistant Weeds—A Review. Sustainability, 2023, 15, 1843.	1.6	15
3257	Machine learning enabled orthogonal camera goniometry for accurate and robust contact angle measurements. Scientific Reports, 2023, 13, .	1.6	37
3258	Performance Evaluation of CNN and Pre-trained Models for Malware Classification. Arabian Journal for Science and Engineering, 2023, 48, 10355-10369.	1.7	4
3259	Micro-CT and deep learning: Modern techniques and applications in insect morphology and neuroscience. Frontiers in Insect Science, 0, 3, .	0.9	0
3260	Skin lesion analysis using generative adversarial networks: a review. Multimedia Tools and Applications, 2023, 82, 30065-30106.	2.6	4

#	Article	IF	Citations
3261	G-Augment: Searching for the Meta-Structure of Data Augmentation Policies for ASR. , 2023, , .		0
3262	Multimodal Data Augmentation for Visual-Infrared Person RelD with Corrupted Data., 2023,,.		6
3263	Detecting Cryptography Misuses With Machine Learning: Graph Embeddings, Transfer Learning and Data Augmentation in Source Code Related Tasks. IEEE Transactions on Reliability, 2023, 72, 1678-1689.	3.5	0
3264	RSMDA: Random Slices Mixing Data Augmentation. Applied Sciences (Switzerland), 2023, 13, 1711.	1.3	O
3265	A comparative approach of ML algorithms to rank irrigation water quality: case of Oriental-Coast shallow aquifer in Cap-Bon, northeastern of Tunisia. Modeling Earth Systems and Environment, 2023, 9, 3733-3746.	1.9	2
3266	Contrast Agent Dose Reduction in MRI Utilizing a Generative Adversarial Network in an Exploratory Animal Study. Investigative Radiology, 2023, 58, 396-404.	3.5	4
3267	Comparison of Affine and DCGAN-based Data Augmentation Techniques for Chest X-Ray Classification. Procedia Computer Science, 2023, 218, 283-290.	1.2	3
3268	Automated Assessment of Radiographic Bone Loss in the Posterior Maxilla Utilizing a Multi-Object Detection Artificial Intelligence Algorithm. Applied Sciences (Switzerland), 2023, 13, 1858.	1.3	O
3269	Two-level Data Augmentation for Calibrated Multi-view Detection. , 2023, , .		1
3270	Enhanced Pathology Image Quality with Restore–Generative Adversarial Network. American Journal of Pathology, 2023, 193, 404-416.	1.9	3
3271	A dual-modality evaluation of computer-aided breast lesion segmentation in mammogram and ultrasound using customized transfer learning approach. Signal, Image and Video Processing, 2023, 17, 1955-1963.	1.7	1
3272	Instance-Specific Augmentation ofÂBrain MRIs withÂVariational Autoencoders. Lecture Notes in Computer Science, 2023, , 49-58.	1.0	O
3273	Crack Severity Classification from Timber Cross-Sectional Images Using Convolutional Neural Network. Applied Sciences (Switzerland), 2023, 13, 1280.	1.3	3
3274	Tropical Cyclone Detection from the Thermal Infrared Sensor IASI Data Using the Deep Learning Model YOLOv3. Atmosphere, 2023, 14, 215.	1.0	2
3275	Deep Learning with Transformer or Convolutional Neural Network in the Assessment of Tumor-Infiltrating Lymphocytes (TILs) in Breast Cancer Based on US Images: A Dual-Center Retrospective Study. Cancers, 2023, 15, 838.	1.7	3
3276	A Novel Motor Fault Diagnosis Method Based on Generative Adversarial Learning with Distribution Fusion of Discrete Working Conditions. CMES - Computer Modeling in Engineering and Sciences, 2023, 136, 2017-2037.	0.8	1
3277	Classification of Liver Fibrosis From Heterogeneous Ultrasound Image. IEEE Access, 2023, 11, 9920-9930.	2.6	4
3278	A Unified Framework From Face Image Restoration to Data Augmentation Using Generative Prior. IEEE Access, 2023, 11, 2907-2919.	2.6	0

#	Article	IF	CITATIONS
3279	Object Recognition System for the Visually Impaired: A Deep Learning Approach using Arabic Annotation. Electronics (Switzerland), 2023, 12, 541.	1.8	4
3280	Using robotics, artificial intelligence, and deep learning to collect COVID-19 samples. , 2023, , 87-125.		0
3281	Robust Velocity Dealiasing for Weather Radar Based on Convolutional Neural Networks. Remote Sensing, 2023, 15, 802.	1.8	2
3282	Study of nonlinear optical diffraction patterns using machine learning models based on ResNet 152 architecture. AIP Advances, 2023, 13, 015020.	0.6	0
3283	Deep reinforcement learning for stochastic last-mile delivery with crowdshipping. EURO Journal on Transportation and Logistics, 2023, 12, 100105.	1.3	4
3284	Attention Mechanism Trained with Small Datasets for Biomedical Image Segmentation. Electronics (Switzerland), 2023, 12, 682.	1.8	5
3285	Analysis of Deep Convolutional Neural Network Models for the Fine-Grained Classification of Vehicles. Future Transportation, 2023, 3, 133-149.	1.3	0
3286	Recognition and Classification of Handwritten Urdu Numerals Using Deep Learning Techniques. Applied Sciences (Switzerland), 2023, 13, 1624.	1.3	5
3287	Automatic Voice Disorder Detection Using Self-Supervised Representations. IEEE Access, 2023, 11, 14915-14927.	2.6	3
3288	General Graph Neural Network-Based Model To Accurately Predict Cocrystal Density and Insight from Data Quality and Feature Representation. Journal of Chemical Information and Modeling, 2023, 63, 1143-1156.	2.5	4
3289	Deep Learning–Based Automated Generation of Material Data with Object–Space Relationships for Scan to BIM. Journal of Management in Engineering - ASCE, 2023, 39, .	2.6	5
3290	Deriving big geochemical data from high-resolution remote sensing data via machine learning: Application to a tailing storage facility in the Witwatersrand goldfields. Artificial Intelligence in Geosciences, 2023, 4, 9-21.	0.9	2
3291	A Comprehensive Survey of Image Augmentation Techniques for Deep Learning. Pattern Recognition, 2023, 137, 109347.	5.1	97
3292	CNN-based network has Network Anisotropy -work harder to learn rotated feature than non-rotated feature. , 2022, , .		0
3293	An analysis of Deep Learning Models for Detection of COVID-19 Diseases. , 2022, , .		0
3294	Machine Learning Based Approach to Selective Measurements of Hydrogen for Catalytic Gas Sensors. , 2022, , .		0
3295	Emotion Detection of Thai Elderly Facial Expressions using Hybrid Object Detection. , 2022, , .		1
3296	Detecting Design Patterns in UML Class Diagram Images using Deep Learning., 2022,,.		1

#	Article	IF	CITATIONS
3297	XAI enhancing cyber defence against adversarial attacks in industrial applications. , 2022, , .		3
3298	Shapes2Toon: Generating Cartoon Characters from Simple Geometric Shapes. , 2022, , .		0
3299	Optimization of Facial Expression Recgonition on ResNet-18 using Focal Loss and CosFace Loss. , 2022, , .		1
3300	Performance Analysis of Machine Learning Algorithms for COVID-19 Detection. , 2022, , .		1
3301	Smart Plant Leaf Disease Detection System using Internet of Thing (IOT) and PLDP Net-RF Model. , 2022, , .		0
3302	Real-Time Detection Method of Wood Defects Based on Deep Learning. , 2022, , .		0
3303	Face Recognition Fairness Assessment based on Data Augmentation: An Empirical Study., 2022,,.		0
3304	MetaA: Multi-Dimensional Evaluation of Testing Ability via Adversarial Examples in Deep Learning. , 2022, , .		1
3305	Magnitude-Based Weight-Pruned Automated Convolutional Neural Network to Detect and Classify the Plant Disease. Lecture Notes in Networks and Systems, 2023, , 617-636.	0.5	0
3306	EDIR: Efficient Distributed Image Retrieval of Novel Objects in Mobile Networks. IEEE Transactions on Mobile Computing, 2024, 23, 2337-2350.	3.9	0
3307	Automatic Firearm Detection inÂlmages andÂVideos Using YOLO-Based Model. Communications in Computer and Information Science, 2023, , 553-566.	0.4	0
3308	Electric Power Fuse Identification With Deep Learning. IEEE Transactions on Industrial Informatics, 2023, 19, 11310-11321.	7.2	2
3309	Robustizing Object Detection Networks Using Augmented Feature Pooling. Lecture Notes in Computer Science, 2023, , 89-106.	1.0	0
3310	A\$\$^{2}\$\$: Adaptive Augmentation forÂEffectively Mitigating Dataset Bias. Lecture Notes in Computer Science, 2023, , 696-712.	1.0	0
3311	Generalization Bounds forÂSet-to-Set Matching withÂNegative Sampling. Communications in Computer and Information Science, 2023, , 468-476.	0.4	0
3312	Physical Knowledge-Enhanced Deep Neural Network for Sea Surface Temperature Prediction. IEEE Transactions on Geoscience and Remote Sensing, 2023, 61, 1-13.	2.7	2
3313	A Novel Transfer Learning-Based Model for Ultrasound Breast Cancer Image Classification. Advances in Intelligent Systems and Computing, 2023, , 511-523.	0.5	11
3314	Automated Detection and Classification of Oral Squamous Cell Carcinoma Using Deep Neural Networks. Diagnostics, 2023, 13, 918.	1.3	4

#	Article	IF	CITATIONS
3315	Development of Landmark-based Facial Asymmetry Evaluation. , 2023, , .		1
3316	Binary classification of multi-magnification histopathological breast cancer images using late fusion and transfer learning. Data Technologies and Applications, 2023, 57, 668-695.	0.9	O
3317	Pedestrian gender classification on imbalanced and small sample datasets using deep and traditional features. Neural Computing and Applications, 2023, 35, 11937-11968.	3.2	1
3318	Educational Innovation Faced with COVID-19: Deep Learning for Online Exam Cheating Detection. Education Sciences, 2023, 13, 194.	1.4	7
3319	Targeted deep learning: Framework, methods, and applications. Stat, 2023, 12, .	0.3	0
3320	Skill-level classification and performance evaluation for endoscopic sleeve gastroplasty. Surgical Endoscopy and Other Interventional Techniques, 2023, 37, 4754-4765.	1.3	1
3321	An augmented mammogram image dataset and its performance analysis for various classification models. Multimedia Tools and Applications, 2023, 82, 32011-32055.	2.6	1
3322	Breast cancer: toward an accurate breast tumor detection model in mammography using transfer learning techniques. Multimedia Tools and Applications, 2023, 82, 34913-34936.	2.6	6
3324	Renal parenchyma segmentation based on a cascaded self-adaptive framework with local context-aware mix-up regularization in abdominal MR images. , 2023, , .		0
3325	Computer Aided Classifier of Colorectal Cancer on Histopatological Whole Slide Images Analyzing Deep Learning Architecture Parameters. Applied Sciences (Switzerland), 2023, 13, 4594.	1.3	1
3326	Glaucoma classification using a morphological-convolutional neural network trained with extreme learning machine. , 2023, , .		1
3327	K-mixup: Data augmentation for offline reinforcement learning using mixup in a Koopman invariant subspace. Expert Systems With Applications, 2023, 225, 120136.	4.4	0
3328	A comparative study of the inter-observer variability on Gleason grading against Deep Learning-based approaches for prostate cancer. Computers in Biology and Medicine, 2023, 159, 106856.	3.9	6
3329	Interpretable attention-based deep learning ensemble for personalized ovarian cancer treatment without manual annotations. Computerized Medical Imaging and Graphics, 2023, 107, 102233.	3.5	2
3330	Verification and performance comparison of CNN-based algorithms for two-step helmet-wearing detection. Expert Systems With Applications, 2023, 225, 120096.	4.4	3
3331	Federated User Modeling from Hierarchical Information. ACM Transactions on Information Systems, 2023, 41, 1-33.	3.8	14
3332	Root canal treatment planning by automatic tooth and root canal segmentation in dental CBCT with deep multi-task feature learning. Medical Image Analysis, 2023, 85, 102750.	7.0	8
3333	Convolutional neural network classifies visual stimuli from cortical response recorded with wide-field imaging in mice. Journal of Neural Engineering, 2023, 20, 026031.	1.8	0

#	Article	IF	Citations
3334	SDAN-MD: Supervised dual attention network for multi-stage motion deblurring in frontal-viewing vehicle-camera images. Journal of King Saud University - Computer and Information Sciences, 2023, 35, 101556.	2.7	0
3335	StynMedGAN: Medical images augmentation using a new GAN model for improved diagnosis of diseases. Journal of Intelligent and Fuzzy Systems, 2023, 44, 10027-10044.	0.8	1
3336	CNN-Wavelet scattering textural feature fusion for classifying breast tissue in mammograms. Biomedical Signal Processing and Control, 2023, 83, 104683.	3.5	4
3337	LDIA: Label distribution inference attack against federated learning in edge computing. Journal of Information Security and Applications, 2023, 74, 103475.	1.8	0
3338	A full end-to-end deep approach for detecting and classifying jaw movements from acoustic signals in grazing cattle. Engineering Applications of Artificial Intelligence, 2023, 121, 106016.	4.3	3
3339	Unsupervised time–frequency environment perception model for underwater vehicle in irregular ocean. Ocean Engineering, 2023, 275, 114086.	1.9	1
3340	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
3341	Semi-supervised domain adaptation for segmentation models on different monitoring settings. Automation in Construction, 2023, 149, 104773.	4.8	5
3342	An imbalance-aware nuclei segmentation methodology for H& E stained histopathology images. Biomedical Signal Processing and Control, 2023, 83, 104720.	3 . 5	3
3343	MSRConvNet: Classification of railway track defects using multi-scale residual convolutional neural network. Engineering Applications of Artificial Intelligence, 2023, 121, 105965.	4.3	4
3344	Helium focused ion beam induced subsurface damage on Si and SiC substrates: experiments and generative deep neural network modeling via position-dependent input. Journal of Materials Research and Technology, 2023, 24, 3363-3382.	2.6	3
3345	An estimation method of maize impurity rate based on the deep residual networks. Industrial Crops and Products, 2023, 196, 116455.	2.5	1
3346	A novel nonlinear automated multi-class skin lesion detection system using soft-attention based convolutional neural networks. Chaos, Solitons and Fractals, 2023, 170, 113409.	2.5	9
3347	A comparative study of deep learning and Internet of Things for precision agriculture. Engineering Applications of Artificial Intelligence, 2023, 122, 106034.	4.3	35
3348	Establishment and evaluation of conditional GAN-based image dataset for semantic segmentation of structural cracks. Engineering Structures, 2023, 285, 116058.	2.6	5
3349	Balanced incremental deep reinforcement learning based on variational autoencoder data augmentation for customer credit scoring. Engineering Applications of Artificial Intelligence, 2023, 122, 106056.	4.3	1
3350	Towards Human-centric Digital Twins: Leveraging Computer Vision and Graph Models to Predict Outdoor Comfort. Sustainable Cities and Society, 2023, 93, 104480.	5.1	8
3351	From micro- to nano- and time-resolved x-ray computed tomography: Bio-based applications, synchrotron capabilities, and data-driven processing. Applied Physics Reviews, 2023, 10, .	5 . 5	3

#	Article	IF	CITATIONS
3352	DeepVerge: Classification of roadside verge biodiversity and conservation potential. Computers, Environment and Urban Systems, 2023, 102, 101968.	3.3	1
3353	Sleep posture one-shot learning framework based on extremity joint kinematics: In-silico and in-vivo case studies. Information Fusion, 2023, 95, 215-236.	11.7	2
3354	Transformer-based deep reverse attention network for multi-sensory human activity recognition. Engineering Applications of Artificial Intelligence, 2023, 122, 106150.	4.3	5
3355	Automated segmentation and morphological characterization of placental intervillous space based on a single labeled image. Micron, 2023, 169, 103448.	1.1	2
3356	Rotationally equivariant super-resolution of velocity fields in two-dimensional flows using convolutional neural networks. , 2023, 1, .		1
3357	Residual Gabor convolutional network and FV-Mix exponential level data augmentation strategy for finger vein recognition. Expert Systems With Applications, 2023, 223, 119874.	4.4	2
3358	Mixture of calibrated networks for domain generalization in brain tumor segmentation. Knowledge-Based Systems, 2023, 270, 110520.	4.0	2
3359	Autonomous grasping of 3-D objects by a vision-actuated robot arm using Brain–Computer Interface. Biomedical Signal Processing and Control, 2023, 84, 104765.	3.5	1
3360	A full-resolution convolutional network with a dynamic graph cut algorithm for skin cancer classification and detection. Healthcare Analytics, 2023, 3, 100154.	2.6	7
3361	Smartphone based detection and classification of poultry diseases from chicken fecal images using deep learning techniques. Smart Agricultural Technology, 2023, 4, 100221.	3.1	12
3362	Prediction of model generalizability for unseen data: Methodology and case study in brain metastases detection in T1-Weighted contrast-enhanced 3D MRI. Computers in Biology and Medicine, 2023, 159, 106901.	3.9	1
3363	Toward earthquake early warning: A convolutional neural network for rapid earthquake magnitude estimation. Artificial Intelligence in Geosciences, 2023, 4, 39-46.	0.9	1
3364	Real time traffic sign detection and recognition for autonomous vehicle. International Robotics & Automation Journal, 2022, 8, 82-87.	0.3	2
3365	Research Advanced in the Object Detection Based on Deep Learning. , 2022, , .		0
3366	Table Information Extraction Using Data Augmentation on Deep Learning and Image Processing. , 2022, , .		0
3367	Towards Interpretable Feature Representation for Domain Adaptation Problem., 2022,,.		0
3368	GRACE: Graph autoencoder based single-cell clustering through ensemble similarity learning. PLoS ONE, 2023, 18, e0284527.	1.1	0
3369	Detecting Learning Stages within a Sensor-Based Mixed Reality Learning Environment Using Deep Learning. Journal of Computing in Civil Engineering, 2023, 37, .	2.5	2

#	Article	IF	CITATIONS
3370	TCNN: A Transformer Convolutional Neural Network for artifact classification in whole slide images. Biomedical Signal Processing and Control, 2023, 84, 104812.	3.5	2
3371	Re-identification of fish individuals of undulate skate via deep learning within a few-shot context. Ecological Informatics, 2023, 75, 102036.	2.3	4
3372	A systematic review and repeatability study on the use of deep learning for classifying and detecting tuberculosis bacilli in microscopic images. Progress in Biophysics and Molecular Biology, 2023, 180-181, 1-18.	1.4	0
3373	MFMANet: Multi-feature Multi-attention Network for efficient subtype classification on non-small cell lung cancer CT images. Biomedical Signal Processing and Control, 2023, 84, 104768.	3.5	4
3375	Cognitive-Based Crack Detection for Road Maintenance: An Integrated System in Cyber-Physical-Social Systems. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2023, 53, 3485-3500.	5.9	6
3376	Ensemble Deep Learning Models for Lung Cancer Diagnosis in Histopathological Images. Procedia Computer Science, 2022, 215, 471-482.	1.2	0
3377	An Unsupervised DNN Embedding System forÂlmage Clustering. Lecture Notes in Computer Science, 2022, , 109-126.	1.0	0
3378	Prediction-accuracy improvement of neural network to ferromagnetic multilayers by Gaussian data augmentation and ensemble learning. Computational Materials Science, 2023, 219, 112032.	1.4	1
3379	The power of deep learning for intelligent tumor classification systems: A review. Computers and Electrical Engineering, 2023, 106, 108586.	3.0	1
3380	Focal Combo Loss for Improved Road Marking Extraction of Sparse Mobile LiDAR Scanning Point Cloud-Derived Images Using Convolutional Neural Networks. Remote Sensing, 2023, 15, 597.	1.8	0
3381	Deep learning: A primer for dentists and dental researchers. Journal of Dentistry, 2023, 130, 104430.	1.7	20
3382	SVD enabled data augmentation for machine learning based surrogate modeling of non-linear structures. Engineering Structures, 2023, 280, 115600.	2.6	4
3383	Text augmentation using a graph-based approach and clonal selection algorithm. Machine Learning With Applications, 2023, 11, 100452.	3.0	4
3384	An Assessment of Entropy-Based Data Reduction for SEI Within IoT Applications. , 2022, , .		3
3385	As good as human experts in detecting plant roots in minirhizotron images but efficient and reproducible: the convolutional neural network "RootDetector― Scientific Reports, 2023, 13, .	1.6	2
3386	Methodology for Weapon Detection in Social Media Profiles using an Adaptation of YOLO-V5 and Natural Language Processing Techniques. , 2022, , .		0
3387	Blood Cells Counting and Localisation through Deep Learning Object Detection. , 2022, , .		0
3388	Asymmetric Self-Supervised Graph Neural Networks. , 2022, , .		3

#	Article	IF	CITATIONS
3389	Cyberbully Detection Using BERT with Augmented Texts. , 2022, , .		2
3390	RGB Color Model Aware Computational Color Naming and Its Application to Data Augmentation. , 2022, , .		1
3391	Entity Matching with AUC-Based Fairness. , 2022, , .		1
3392	Automatic 2D material detection in optical images using deep-learning-based computer vision. , 2023, , .		0
3393	Smart Grid monitoring through Deep Learning for Image-based Automatic Dial Meter Reading. , 2022, , .		2
3394	In-place metamorphic testing and exploration. , 2022, , .		1
3395	Data Augmentation On-the-fly and Active Learning in Data Stream Classification. , 2022, , .		5
3396	Automated Classification of Pneumonia from Chest X-Ray Images using Deep Transfer Learning EfficientNet-BO Model., 2022,,.		2
3397	Efficient Neural Net Approaches in Metal Casting Defect Detection. Procedia Computer Science, 2023, 218, 1958-1967.	1.2	5
3398	Transfer Learning Approach for Human Activity Recognition Based on Continuous Wavelet Transform. Algorithms, 2023, 16, 77.	1.2	8
3399	Machine Learning in Manufacturing towards Industry 4.0: From  For Now' to  Four-Know'. Applied Sciences (Switzerland), 2023, 13, 1903.	1.3	12
3400	Ensemble of deep transfer learning models for real-time automatic detection of face mask. Multimedia Tools and Applications, 2023, 82, 25131-25153.	2.6	3
3401	SynthSR: A public AI tool to turn heterogeneous clinical brain scans into high-resolution T1-weighted images for 3D morphometry. Science Advances, 2023, 9, .	4.7	22
3402	Mineral Texture Classification Using Deep Convolutional Neural Networks: An Application to Zircons From Porphyry Copper Deposits. Journal of Geophysical Research: Solid Earth, 2023, 128, .	1.4	2
3404	Deep learning automates bidimensional and volumetric tumor burden measurement from MRI in preand post-operative glioblastoma patients. Computers in Biology and Medicine, 2023, 154, 106603.	3.9	10
3405	Gated Linear Model induced U-net for surrogate modeling and uncertainty quantification. Probabilistic Engineering Mechanics, 2023, 72, 103421.	1.3	0
3406	Deep Transfer Learning Techniques-Based Automated Classification and Detection of Pulmonary Fibrosis from Chest CT Images. Processes, 2023, 11, 443.	1.3	3
3407	A Review of Data Augmentation Methods of Remote Sensing Image Target Recognition. Remote Sensing, 2023, 15, 827.	1.8	18

#	Article	IF	CITATIONS
3408	DTLCx: An Improved ResNet Architecture to Classify Normal and Conventional Pneumonia Cases from COVID-19 Instances with Grad-CAM-Based Superimposed Visualization Utilizing Chest X-ray Images. Diagnostics, 2023, 13, 551.	1.3	8
3409	Dataset artificial augmentation with a small number of training samples for reflectance estimation. Optics Express, 2023, 31, 8005.	1.7	0
3410	ECG Classification Using an Optimal Temporal Convolutional Network for Remote Health Monitoring. Sensors, 2023, 23, 1697.	2.1	8
3411	UX Framework Including Imbalanced UX Dataset Reduction Method for Analyzing Interaction Trends of Agent Systems. Sensors, 2023, 23, 1651.	2.1	0
3412	Trigonometric-Euclidean-Smoother Interpolator (TESI) for continuous time-series and non-time-series data augmentation for deep neural network applications in agriculture. Computers and Electronics in Agriculture, 2023, 206, 107646.	3.7	0
3413	Introduction of a cascaded segmentation pipeline for parametric T1 mapping in cardiovascular magnetic resonance to improve segmentation performance. Scientific Reports, 2023, 13, .	1.6	1
3414	Modern Methods of Diagnostics and Treatment of Neurodegenerative Diseases and Depression. Diagnostics, 2023, 13, 573.	1.3	9
3415	Monkeypox Detection Using CNN with Transfer Learning. Sensors, 2023, 23, 1783.	2.1	29
3416	A Novel Framework for Melanoma Lesion Segmentation Using Multiparallel Depthwise Separable and Dilated Convolutions with Swish Activations. Journal of Healthcare Engineering, 2023, 2023, 1-15.	1.1	1
3417	Classification of Papuan Batik Motifs Using Deep Learning and Data Augmentation., 2022,,.		0
3418	Multi-channel CNN-Based RÄga Recognition in Carnatic Music Using Sequential Aggregation Strategy. Circuits, Systems, and Signal Processing, 2023, 42, 4072-4095.	1.2	1
3419	Review of methods for coding of speech signals. Eurasip Journal on Audio, Speech, and Music Processing, 2023, 2023, .	1.3	1
3420	Detection of Soybean Insect Pest and a Forecasting Platform Using Deep Learning with Unmanned Ground Vehicles. Agronomy, 2023, 13, 477.	1.3	9
3421	Data Augmentation for Opcode Sequence Based Malware Detection. , 2022, , .		1
3422	Towards automatic detection of wildlife trade using machine vision models. Biological Conservation, 2023, 279, 109924.	1.9	7
3423	A New Regularization for Deep Learning-Based Segmentation of Images with Fine Structures and Low Contrast. Sensors, 2023, 23, 1887.	2.1	1
3424	Eye Recognition by YOLO for Inner Canthus Temperature Detection in the Elderly Using a Transfer Learning Approach. Sensors, 2023, 23, 1851.	2.1	3
3425	Intraclass Image Augmentation for Defect Detection Using Generative Adversarial Neural Networks. Sensors, 2023, 23, 1861.	2.1	6

#	Article	IF	CITATIONS
3426	Leaf-Counting in Monocot Plants Using Deep Regression Models. Sensors, 2023, 23, 1890.	2.1	4
3427	An interpretable hierarchical semantic convolutional neural network to diagnose melanoma in skin lesions. Electronic Research Archive, 2023, 31, 1822-1839.	0.4	0
3428	Drone Assisted Forest Structural Classification of Kejimkujik National Park using Deep Learning. , 2022, , .		0
3430	Stepwise Sample Generation. Lecture Notes in Computer Science, 2022, , 585-593.	1.0	1
3431	Real-time detection of wood defects based on SPP-improved YOLO algorithm. Multimedia Tools and Applications, 2023, 82, 21031-21044.	2.6	2
3432	Research Challenges, Recent Advances, and Popular Datasets in Deep Learning-Based Underwater Marine Object Detection: A Review. Sensors, 2023, 23, 1990.	2.1	7
3433	A survey on applications of machine learning algorithms in water quality assessment and water supply and management. Water Science and Technology: Water Supply, 2023, 23, 895-922.	1.0	5
3434	Precision Detection and Assessment of Ash Death and Decline Caused by the Emerald Ash Borer Using Drones and Deep Learning. Plants, 2023, 12, 798.	1.6	5
3435	Feature Alignment by Uncertainty and Self-Training for Source-Free Unsupervised Domain Adaptation. Neural Networks, 2023, 161, 682-692.	3.3	12
3436	Mapping retrogressive thaw slumps using deep neural networks. Remote Sensing of Environment, 2023, 288, 113495.	4.6	6
3437	An End-to-End Steel Surface Classification Approach Based on EDCGAN and MobileNet V2. Sensors, 2023, 23, 1953.	2.1	2
3438	Spatiotemporal prediction of landslide displacement using deep learning approaches based on monitored time-series displacement data: a case in the Huanglianshu landslide. Georisk, 2023, 17, 98-113.	2.6	2
3439	Semisupervised semantic segmentation for seismic interpretation. Geophysics, 2023, 88, IM61-IM76.	1.4	0
3440	Anomaly Candidate Extraction and Detection for automatic quality inspection of metal casting products using high-resolution images. Journal of Manufacturing Systems, 2023, 67, 229-241.	7.6	5
3441	A Time Series Forecasting Model Selection Framework using CNN and Data Augmentation for Small Sample Data. Neural Processing Letters, 2023, 55, 5783-5810.	2.0	3
3442	Content-based and Knowledge-enriched Representations for Classification Across Modalities: A Survey. ACM Computing Surveys, 2023, 55, 1-40.	16.1	0
3443	Interpretability-Mask: a label-preserving data augmentation scheme for better classification. Signal, Image and Video Processing, 2023, 17, 2799-2808.	1.7	0
3444	Classification of Lymphoma, Benign Lesions, and Carcinoma Using Convolutional Neural Network. , 2023, , 175-192.		0

#	Article	IF	CITATIONS
3445	Predicting pharmaceutical powder flow from microscopy images using deep learning., 2023, 2, 459-470.		1
3446	Optimised U-Net for Land Use–Land Cover Classification Using Aerial Photography. PFG - Journal of Photogrammetry, Remote Sensing and Geoinformation Science, 2023, 91, 125-147.	0.7	3
3447	Improved detection of transient events in wide area sky survey using convolutional neural networks. Data and Information Management, 2023, , 100035.	0.7	1
3448	DualDiscWaveGAN-Based Data Augmentation Scheme for Animal Sound Classification. Sensors, 2023, 23, 2024.	2.1	2
3449	Multi-feature space similarity supplement for few-shot class incremental learning. Knowledge-Based Systems, 2023, 265, 110394.	4.0	6
3451	Interpretable Skin Cancer Classification based on Incremental Domain Knowledge Learning. Journal of Healthcare Informatics Research, 2023, 7, 59-83.	5.3	4
3452	SITTA: Single Image Texture Translation forÂData Augmentation. Lecture Notes in Computer Science, 2023, , 3-20.	1.0	0
3453	Automatic diagnosis of retention pseudocyst in the maxillary sinus on panoramic radiographs using a convolutional neural network algorithm. Scientific Reports, 2023, 13, .	1.6	2
3454	UDRN: Unified Dimensional Reduction Neural Network for feature selection and feature projection. Neural Networks, 2023, 161, 626-637.	3.3	2
3455	Beta network for boundary detection under nondeterministic labels. Knowledge-Based Systems, 2023, 266, 110389.	4.0	0
3456	Fan Fault Diagnosis Using Acoustic Emission and Deep Learning Methods. Informatics, 2023, 10, 24.	2.4	5
3457	Data Augmentation Method for Pedestrian Dress Recognition in Road Monitoring and Pedestrian Multiple Information Recognition Model. Information (Switzerland), 2023, 14, 125.	1.7	0
3458	Model Construction and System Design of Natural Grassland-Type Recognition Based on Deep Learning. Remote Sensing, 2023, 15, 1045.	1.8	1
3459	Validation of automatically measured T1 map cortico-medullary difference (ΔT1) for eGFR and fibrosis assessment in allograft kidneys. PLoS ONE, 2023, 18, e0277277.	1.1	2
3460	Enhanced graph neural network with multi task learning and data augmentation for semi-supervised node classification. International Journal of Pattern Recognition and Artificial Intelligence, 0, , .	0.7	0
3461	HTDet: A Hybrid Transformer-Based Approach for Underwater Small Object Detection. Remote Sensing, 2023, 15, 1076.	1.8	4
3462	Fresh Concrete Image Data Set Development Using Data Augmentation Algorithm as Building Concrete Compression Identification Reference., 2022,,.		0
3463	Skin cancer detection using ensemble of machine learning and deep learning techniques. Multimedia Tools and Applications, 2023, 82, 27501-27524.	2.6	16

#	Article	IF	Citations
3464	Hyperparameter Search for CT-Scan Classification Using Hyperparameter Tuning in Pre-Trained Model CNN With MLP. , 2022, , .		0
3465	Data Augmentation in Classification and Segmentation: A Survey and New Strategies. Journal of Imaging, 2023, 9, 46.	1.7	30
3466	Reflective-net: learning from explanations. Data Mining and Knowledge Discovery, 0, , .	2.4	2
3467	Pattern Recognition and Deep Learning Technologies, Enablers of Industry 4.0, and Their Role in Engineering Research. Symmetry, 2023, 15, 535.	1.1	8
3468	CAD-based data augmentation and transfer learning empowers part classification in manufacturing. International Journal of Advanced Manufacturing Technology, 2023, 125, 5605-5618.	1.5	1
3469	Bag ofÂTricks forÂOut-of-Distribution Generalization. Lecture Notes in Computer Science, 2023, , 465-476.	1.0	1
3470	Ensemble ofÂMulti-task Learning Networks forÂFacial Expression Recognition In-the-Wild withÂLearning fromÂSynthetic Data. Lecture Notes in Computer Science, 2023, , 60-75.	1.0	0
3471	Tabular Data Generation to Improve Classification of Liver Disease Diagnosis. Applied Sciences (Switzerland), 2023, 13, 2678.	1.3	2
3472	Improving Active Learning Performance through the Use of Data Augmentation. International Journal of Intelligent Systems, 2023, 2023, 1-17.	3.3	1
3473	Brain-constrained neural modeling explains fast mapping of words to meaning. Cerebral Cortex, 2023, 33, 6872-6890.	1.6	5
3474	Classifying aneuploidy in genotype intensity data using deep learning. Journal of Animal Breeding and Genetics, 2023, 140, 304-315.	0.8	0
3475	Developing precision agriculture using data augmentation framework for automatic identification of castor insect pests. Frontiers in Plant Science, $0,14,.$	1.7	1
3476	Prostate Ultrasound Image Segmentation Based on DSU-Net. Biomedicines, 2023, 11, 646.	1.4	6
3477	An acute leukemia subtype classification procedure based on blood sample images. AIP Conference Proceedings, 2023, , .	0.3	2
3478	Learning Performance Models of Distributed Computer Vision Methods for Decision Making in Detection and Tracking Algorithms in UAVs. IEEE Internet of Things Journal, 2023, 10, 12486-12495.	5.5	1
3479	Detecting Human Trafficking: Automated Classification of Online Customer Reviews of Massage Businesses. Manufacturing and Service Operations Management, 2023, 25, 1051-1065.	2.3	1
3480	Perceptive SARS-CoV-2 End-To-End Ultrasound Video Classification through X3D and Key-Frames Selection. Bioengineering, 2023, 10, 282.	1.6	1
3481	Bacterial Strain Classification using Convolutional Neural Network for Automatic Bacterial Disease Diagnosis., 2023,,.		6

#	Article	IF	CITATIONS
3482	MonkeyNet: A robust deep convolutional neural network for monkeypox disease detection and classification. Neural Networks, 2023, 161, 757-775.	3.3	30
3483	Engineering Strategies for Advancing Optical Signal Outputs in Smartphoneâ€Enabled Pointâ€ofâ€Care Diagnostics. Advanced Intelligent Systems, 2023, 5, .	3.3	5
3484	Delineation of Wetland Areas in South Norway from Sentinel-2 Imagery and LiDAR Using TensorFlow, U-Net, and Google Earth Engine. Remote Sensing, 2023, 15, 1203.	1.8	1
3485	Deep Learning Applications for Dyslexia Prediction. Applied Sciences (Switzerland), 2023, 13, 2804.	1.3	5
3486	Image Classification of Natural Disasters Using Different Deep Learning Models., 2022,,.		1
3487	A Self-attention Guided Multi-scale Gradient GAN forÂDiversified X-ray Image Synthesis. Communications in Computer and Information Science, 2023, , 18-31.	0.4	1
3488	Autonomous and online detection of dry areas on a boiling surface using deep learning and infrared thermometry. Experimental Thermal and Fluid Science, 2023, 145, 110879.	1.5	3
3489	ORC-UNet: optimal residual semantic segmentation network based on U-Net architecture for high-resolution remote sensing imagery. , 2023, , .		0
3490	High-resolution core data and machine learning schemes applied to rock facies identification and classification. Geological Society Special Publication, 2024, 527, .	0.8	2
3491	The New Landscape of Diagnostic Imaging with the Incorporation of Computer Vision. Artificial Intelligence, 0, , .	2.0	1
3492	Informative regularization for a multi-layer perceptron RR Lyrae classifier under data shift. Astronomy and Computing, 2023, 43, 100694.	0.8	0
3493	A neural ordinary differential equation model for visualizing deep neural network behaviors in multiâ€parametric MRIâ€based glioma segmentation. Medical Physics, 2023, 50, 4825-4838.	1.6	5
3494	Automatic pixelâ€level crack detection with multiâ€scale feature fusion for slab tracks. Computer-Aided Civil and Infrastructure Engineering, 2023, 38, 2648-2665.	6.3	17
3495	Application of optimized convolutional neural network to fixture layout in automotive parts. International Journal of Advanced Manufacturing Technology, 2023, 126, 339-353.	1.5	4
3496	User view dynamic graph-driven sequential recommendation. Knowledge and Information Systems, 2023, 65, 2541-2569.	2.1	2
3497	A Generative Neighborhood-Based Deep Autoencoder for Robust Imbalanced Classification. IEEE Transactions on Artificial Intelligence, 2024, 5, 80-91.	3.4	1
3498	Automatic placental and fetal volume estimation by a convolutional neural network. Placenta, 2023, 134, 23-29.	0.7	2
3499	New frontiers in the risk assessment of ship collision. Ocean Engineering, 2023, 274, 113999.	1.9	9

#	ARTICLE	IF	Citations
3500	Building an efficient convolution neural network from scratch: A case study on detecting and localizing slums. Scientific African, 2023, 20, e01612.	0.7	0
3501	Mobile app for targeted selective treatment of haemonchosis in sheep. Veterinary Parasitology, 2023, 316, 109902.	0.7	1
3502	A Review of Physics-Informed Machine Learning in Fluid Mechanics. Energies, 2023, 16, 2343.	1.6	21
3503	Data-Augmented Deep Learning Models for Abnormal Road Manhole Cover Detection. Sensors, 2023, 23, 2676.	2.1	1
3504	Accurate Medicinal Plant Identification in Natural Environments by Embedding Mutual Information in a Convolution Neural Network Model. , 2022, , .		0
3505	Localization and Semantic Segmentation of Polyp in an Effort of Early Diagnosis of Colorectal Cancer from Wireless Capsule Endoscopy Images. , 2022, , .		2
3507	Faecal Image-Based Chicken Disease Classification Using Deep Learning Techniques. Lecture Notes in Networks and Systems, 2023, , 903-917.	0.5	2
3508	Hand Gesture to Character Recognition using Convolutional Neural Network., 2022, , .		0
3509	Parallel Learning: Overview and Perspective for Computational Learning Across Syn2Real and Sim2Real. IEEE/CAA Journal of Automatica Sinica, 2023, 10, 603-631.	8.5	23
3510	Benchmarking of CNN Models and MobileNet-BiLSTM Approach to Classification of Tomato Seed Cultivars. Sustainability, 2023, 15, 4443.	1.6	6
3511	Classifying Date Palm Tree Diseases Using Machine Learning. , 2022, , .		1
3512	Comparative Analysis of CNN Models and Bayesian Optimization-Based Machine Learning Algorithms in Leaf Type Classification. Balkan Journal of Electrical and Computer Engineering, 2023, 11, 13-24.	0.4	2
3513	Application of Deep Learning System Technology in Identification of Women's Breast Cancer. Medicina (Lithuania), 2023, 59, 487.	0.8	0
3514	Accurate detection of arrhythmias on raw electrocardiogram images: An aggregation attention multi-label model for diagnostic assistance. Medical Engineering and Physics, 2023, 114, 103964.	0.8	1
3515	Airy beam light sheet microscopy boosted by deep learning deconvolution. Optics Express, 2023, 31, 10918.	1.7	2
3516	Which data subset should be augmented for deep learning? a simulation study using urothelial cell carcinoma histopathology images. BMC Bioinformatics, 2023, 24, .	1.2	O
3517	DADFN: dynamic adaptive deep fusion network based on imaging genomics for prediction recurrence of lung cancer. Physics in Medicine and Biology, 2023, 68, 075007.	1.6	2
3518	An interpretable transformer network for the retinal disease classification using optical coherence tomography. Scientific Reports, 2023, 13, .	1.6	11

#	Article	IF	CITATIONS
3519	ADPT: An Automated Disease Prognosis Tool Towards Classifying Medical Disease Using Hybrid Architecture of Deep Learning Paradigm., 2022,,.		0
3520	Consecutive multiscale feature learning-based image classification model. Scientific Reports, 2023, 13, .	1.6	8
3521	Subnetwork ensembling and data augmentation: Effects on calibration. Expert Systems, 2023, 40, .	2.9	1
3522	An explainable artificial intelligence system for diagnosing ⟨i⟩Helicobacter Pylori⟨ i⟩ infection under endoscopy: a case–control study. Therapeutic Advances in Gastroenterology, 2023, 16, 175628482311550.	1.4	2
3523	Data-centric artificial intelligence in oncology: a systematic review assessing data quality in machine learning models for head and neck cancer. Journal of Big Data, 2023, 10, .	6.9	9
3524	Adapting Data-Driven Techniques to Improve Surrogate Machine Learning Model Performance. IEEE Access, 2023, 11, 23909-23925.	2.6	1
3525	Optimization Convolutional Neural Network for Automatic Skin Lesion Diagnosis Using a Genetic Algorithm. Applied Sciences (Switzerland), 2023, 13, 3248.	1.3	7
3526	Hyperspectral image denoising based on multi-resolution dense memory network. Multimedia Tools and Applications, 0, , .	2.6	1
3527	A combined feature-vector based multiple instance learning convolutional neural network in breast cancer classification from histopathological images. Biomedical Signal Processing and Control, 2023, 84, 104775.	3.5	1
3528	Snapshot ensemble-based residual network (SnapEnsemResNet) for remote sensing image scene classification. GeoInformatica, 2023, 27, 341-372.	2.0	2
3529	Contrastive 3D Human Skeleton Action Representation Learning via CrossMoCo With Spatiotemporal Occlusion Mask Data Augmentation. IEEE Transactions on Multimedia, 2023, 25, 1564-1574.	5.2	1
3530	A Comprehensive Survey on SAR ATR in Deep-Learning Era. Remote Sensing, 2023, 15, 1454.	1.8	9
3531	Model and Data Integrated Transfer Learning for Unstructured Map Text Detection. ISPRS International Journal of Geo-Information, 2023, 12, 106.	1.4	1
3532	Data augmentation and multimodal learning for predicting drug response in patient-derived xenografts from gene expressions and histology images. Frontiers in Medicine, 0, 10, .	1.2	2
3533	Derin Öğrenme ile Göğüs Röntgeni Görüntülerinden COVID-19 ve Viral Pnömoni Tespiti. Afyon Ko University Journal of Sciences and Engineering, 2023, 23, 89-100.	catepe 0.1	0
3534	Enhancing Small Medical Dataset Classification Performance Using GAN. Informatics, 2023, 10, 28.	2.4	7
3535	CaltechFN: Distorted andÂPartially Occluded Digits. Lecture Notes in Computer Science, 2023, , 195-212.	1.0	0
3536	Deep Reinforcement Learning: A New Beacon for Intelligent Active Flow Control. , 0, 1, .		1

#	Article	IF	CITATIONS
3537	B2-Net: an artificial intelligence powered machine learning framework for the classification of pneumonia in chest x-ray images. Machine Learning: Science and Technology, 2023, 4, 015036.	2.4	10
3538	Deep learning enables image-based tree counting, crown segmentation, and height prediction at national scale., 2023, 2,.		10
3539	Review: 2D material property characterizations by machine-learning-assisted microscopies. Applied Physics A: Materials Science and Processing, 2023, 129, .	1.1	5
3540	Deformable image registration based on single or multi-atlas methods for automatic muscle segmentation and the generation of augmented imaging datasets. PLoS ONE, 2023, 18, e0273446.	1.1	1
3541	An Effective Supplementation of Insufficient Data by Generative Adversarial Networks. , 2022, , .		0
3542	Skin Disease Detection Based on Deep Learning. International Journal of Scientific Research in Science, Engineering and Technology, 2023, , 120-127.	0.1	O
3543	Pneumonia Detection using Convolutional Neural Network (CNN). International Journal of Advanced Research in Science, Communication and Technology, 0, , 348-356.	0.0	0
3544	Automatic Image Generation Pipeline for Instance Segmentation of Deformable Linear Objects. Sensors, 2023, 23, 3013.	2.1	3
3545	A Survey on GAN Techniques for Data Augmentation to Address the Imbalanced Data Issues in Credit Card Fraud Detection. Machine Learning and Knowledge Extraction, 2023, 5, 304-329.	3.2	17
3546	A Clustering-Generative Model Based Method for Load Data Augmentation. , 2022, , .		2
3547	IDIDNG: A Domain Generalization Remaining Useful Life Prediction Method of Unknown Bearings. , 2022, , .		0
3548	Deep Learning-Based Computed Tomography Image Standardization to Improve Generalizability of Deep Learning-Based Hepatic Segmentation. Korean Journal of Radiology, 2023, 24, 294.	1.5	2
3549	Multi-scale self-attention mixup for graph classification. Pattern Recognition Letters, 2023, 168, 100-106.	2.6	1
3550	Synthetic High-Resolution COVID-19 Chest X-Ray Generation. , 2023, , .		0
3551	Data augmentation to improve syndromic detection from emergency department notes., 2023,,.		2
3552	Real-time microscopy image-based segmentation and classification models for cancer cell detection. Multimedia Tools and Applications, 0, , .	2.6	0
3553	A Framework with Elaborate Feature Engineering for Matching Face Trajectory and Mobile Phone Trajectory. Electronics (Switzerland), 2023, 12, 1372.	1.8	0
3554	Senegalese Fashion Apparels Classification System Using Deep Learning. Springer Proceedings in Complexity, 2023, , 699-710.	0.2	0

#	Article	IF	Citations
3555	Detection of Corona Faults in Switchgear by Using 1D-CNN, LSTM, and 1D-CNN-LSTM Methods. Sensors, 2023, 23, 3108.	2.1	10
3556	Regularization Strength Impact on Neural Network Ensembles. , 2022, , .		0
3557	Mapping landslides through a temporal lens: an insight toward multi-temporal landslide mapping using the u-net deep learning model. GIScience and Remote Sensing, 2023, 60, .	2.4	6
3558	Simulating developmental diversity: Impact of neural stochasticity on atypical flexibility and hierarchy. Frontiers in Psychiatry, $0,14,.$	1.3	0
3559	Class-Adaptive Data Augmentation for Image Classification. IEEE Access, 2023, 11, 26393-26402.	2.6	3
3560	Geometric deep optical sensing. Science, 2023, 379, .	6.0	22
3561	Internal Wave Signature Extraction From SAR and Optical Satellite Imagery Based on Deep Learning. IEEE Transactions on Geoscience and Remote Sensing, 2023, 61, 1-16.	2.7	1
3562	End to End Multitask Joint Learning Model for Osteoporosis Classification in CT Images. Computational Intelligence and Neuroscience, 2023, 2023, 1-18.	1.1	2
3563	Generative models and Bayesian inversion using Laplace approximation. Computational Statistics, 2024, 39, 1321-1349.	0.8	0
3564	A Multidepth and Multibranch Network for Hyperspectral Target Detection Based on Band Selection. IEEE Transactions on Geoscience and Remote Sensing, 2023, 61, 1-18.	2.7	5
3565	<scp>DeepChestNet</scp> : Artificial intelligence approach for <scp>COVID</scp> â€19 detection on computed tomography images. International Journal of Imaging Systems and Technology, 2023, 33, 776-788.	2.7	4
3566	Segmentation Algorithm for COVID-19 Infections using Joint Mix and Context Encoder. , 2022, , .		0
3567	Steel Strip Defect Sample Generation Method Based on Fusible Feature GAN Model under Few Samples. Sensors, 2023, 23, 3216.	2.1	0
3568	Information set supported deep learning architectures for improving noisy image classification. Scientific Reports, 2023, 13 , .	1.6	1
3569	Fish Detection and Classification for Automatic Sorting System with an Optimized YOLO Algorithm. Applied Sciences (Switzerland), 2023, 13, 3812.	1.3	4
3570	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
3571	Transfer Learning for Image-Based Malware Detection for IoT. Sensors, 2023, 23, 3253.	2.1	3
3572	Scene Augmentation Methods for Interactive Embodied Al Tasks. IEEE Transactions on Instrumentation and Measurement, 2023, 72, 1-11.	2.4	0

#	Article	IF	Citations
3573	DefT: Boosting Scalability of Deformable Convolution Operations on GPUs., 2023,,.		O
3574	Automatic Classification of Multi-Class Skin Lesions Dermoscopy Images Using an Efficient Convolutional Neural Network. , 2023, , .		O
3575	Ship detection with deep learning: a survey. Artificial Intelligence Review, 2023, 56, 11825-11865.	9.7	6
3576	A Novel Framework for Online Knowledge Distillation. , 2022, , .		1
3577	Predictive Mutation Analysis of Test Case Prioritization for Deep Neural Networks. , 2022, , .		1
3578	A Systematic Review on Automatic Insect Detection Using Deep Learning. Agriculture (Switzerland), 2023, 13, 713.	1.4	15
3579	Deceiving Learning-based Sketches to Cause Inaccurate Frequency Estimation., 2022,,.		0
3580	Medical image data augmentation: techniques, comparisons and interpretations. Artificial Intelligence Review, 2023, 56, 12561-12605.	9.7	26
3581	Deep Learning forÂtheÂClassification ofÂCassava Leaf Diseases inÂUnbalanced Field Data Set. Communications in Computer and Information Science, 2023, , 101-114.	0.4	1
3582	Enhancing Classification Performance for Android Small Sample Malicious Families Using Hybrid RGB Image Augmentation Method., 2022,,.		1
3583	A comparative study of CNN and U-Net performance for automatic segmentation of medical images: application to cardiac MRI. Procedia Computer Science, 2023, 219, 1089-1096.	1.2	5
3584	Study on Data Augmentation Method for Brain Tumour Detection. , 0, 36, 1209-1215.		0
3585	PrÃdiktive Modellierung des BÃumchenröhrenwurms im Schleswig-Holsteinischen Wattenmeer auf Basis von einem Faltungsnetz und Seitensichtsonar-Mosaiken., 2022, , 131-147.		0
3586	Using deep learning for pruning region detection and plant organ segmentation in dormant spur-pruned grapevines. Precision Agriculture, 2023, 24, 1547-1569.	3.1	7
3587	The hair cell analysis toolbox is a precise and fully automated pipeline for whole cochlea hair cell quantification. PLoS Biology, 2023, 21, e3002041.	2.6	3
3588	A Real-Time Detecting Method for Continuous Urban Flood Scenarios Based on Computer Vision on Block Scale. Remote Sensing, 2023, 15, 1696.	1.8	0
3589	A Framework of Artificial Intelligence for the Manufacturing and Image Classification system. , 2022, , .		0
3590	Domain-guided data augmentation for deep learning on medical imaging. PLoS ONE, 2023, 18, e0282532.	1.1	3

#	Article	IF	CITATIONS
3591	Reconstruction of three-dimensional turbulent flow structures using surface measurements for free-surface flows based on a convolutional neural network. Journal of Fluid Mechanics, 2023, 959, .	1.4	4
3592	Noise-cuts-Noise Approach for Mitigating the JPEG Distortions in Deep Learning. , 2023, , .		1
3593	Hierarchical Active Learning With Qualitative Feedback on Regions. IEEE Transactions on Human-Machine Systems, 2023, 53, 581-589.	2.5	0
3594	The miniJPAS survey quasar selection. III. Classification with artificial neural networks and hybridisation. Astronomy and Astrophysics, 0, , .	2.1	1
3595	Deep multi-task learning for early warnings of dust events implemented for the Middle East. Npj Climate and Atmospheric Science, 2023, 6, .	2.6	1
3596	Automated Adolescence Scoliosis Detection Using Augmented U-Net With Non-square Kernels. Canadian Association of Radiologists Journal, 2023, 74, 667-675.	1.1	4
3597	An Empirical Evaluation of Multivariate Time Series Classification with Input Transformation across Different Dimensions., 2022,,.		0
3598	Artificial Intelligence Model for Alzheimer's Disease Detection with Convolution Neural Network for Magnetic Resonance Images. Journal of Alzheimer's Disease, 2023, 93, 235-245.	1.2	2
3599	Learning quadrotor dynamics for precise, safe, and agile flight control. Annual Reviews in Control, 2023, 55, 45-60.	4.4	14
3600	Home-Based Real-Time Abnormal Movement Detection System Deployed on On-Device Artificial Intelligence. International Journal of Pattern Recognition and Artificial Intelligence, 2023, 37, .	0.7	1
3601	The Effects of the Traditional Data Augmentation Techniques on Long Bone Fracture Detection. Bilge International Journal of Science and Technology Research, 0, , .	0.6	0
3602	Development of parallel forms of a brief smell identification test useful for longitudinal testing. Behavior Research Methods, 0, , .	2.3	1
3603	Robust multi-task learning and online refinement for spacecraft pose estimation across domain gap. Advances in Space Research, 2023, , .	1.2	10
3604	Device Orientation Independent Human Activity Recognition Model for Patient Monitoring Based on Triaxial Acceleration. Applied Sciences (Switzerland), 2023, 13, 4175.	1.3	O
3605	Early Diagnoses of Chronic Heart Failure using Neural Network Classifier of Tensiometric Blood Test Results., 2022,,.		0
3606	Perspective: Leveraging Human Understanding for Identifying and Characterizing Image Atypicality. , 2023, , .		O
3607	Pneumonia Detection and Classification using Hybrid Convolution Neural Network and Machine Learning Classifiers., 2023,,.		0
3608	Automatic classification and isolation of cracks on masonry surfaces using deep transfer learning and semantic segmentation. Journal of Building Pathology and Rehabilitation, 2023, 8, .	0.7	3

#	Article	IF	CITATIONS
3609	Efficient Gastrointestinal Disease Classification Using Pretrained Deep Convolutional Neural Network. Electronics (Switzerland), 2023, 12, 1557.	1.8	10
3610	Image-based Foreign Object Detection using YOLO v7 Algorithm for Electric Vehicle Wireless Charging Applications. , 2023, , .		2
3611	Visual Watermark Identification From the Transparent Window of Currency by Using Deep Learning. Advances in Information Security, Privacy, and Ethics Book Series, 2023, , 59-77.	0.4	1
3612	Random Pixel Selection through Image Cropping for Data Augmentation and Classification. , 2022, , .		0
3613	PreAugNet: improve data augmentation for industrial defect classification with small-scale training data. Journal of Intelligent Manufacturing, 2024, 35, 1233-1246.	4.4	3
3614	Deep Reinforcement Learning Based Resource Allocation and Trajectory Planning in Integrated Sensing and Communications UAV Network. IEEE Transactions on Wireless Communications, 2023, 22, 8158-8169.	6.1	4
3615	Remote Inspection and Monitoring of Civil Engineering Structures Based on Unmanned Aerial Vehicles. Springer Tracts in Civil Engineering, 2023, , 123-144.	0.3	2
3616	Data Augmentation and its Application in Histopathological Oral Cell Image Classification. , 2022, , .		1
3617	Recognition of Tifinagh characters using Extreme Learning Machine. , 2022, , .		1
3619	Deep Convolutional Neural Network for Brain Tumor Segmentation. Journal of Electrical Engineering and Technology, 0, , .	1.2	1
3620	Enhance Unobservable Solar Generation Estimation via Constructive Generative Adversarial Networks. IEEE Transactions on Power Systems, 2024, 39, 2251-2263.	4.6	1
3621	Automatic Classification of Histopathology Images across Multiple Cancers Based on Heterogeneous Transfer Learning. Diagnostics, 2023, 13, 1277.	1.3	4
3622	Fat calculation from raw-beef-steak images through machine learning approaches: an end-to-end pipeline. , 2022, , .		0
3623	Toward Source-Free Cross Tissues Histopathological Cell Segmentation via Target-Specific Finetuning. IEEE Transactions on Medical Imaging, 2023, 42, 2666-2677.	5.4	0
3624	Improving remote sensing scene classification using quality-based data augmentation. International Journal of Remote Sensing, 2023, 44, 1749-1765.	1.3	2
3625	A Transfer Learning Method for Covid-19 and Pneumonia Diagnosis Based on Chest Radiograph Classification. , 2023, , .		0
3626	A multi-view-CNN framework for deep representation learning in image classification. Computer Vision and Image Understanding, 2023, 232, 103687.	3.0	9
3627	A Study on Data Augmentation Techniques for Visual Defect Detection in Manufacturing. Technologien Fulˆr Die Intelligente Automation, 2023, , 73-94.	0.3	0

#	Article	IF	CITATIONS
3628	A Study of CNN and Transfer Learning in Medical Imaging: Advantages, Challenges, Future Scope. Sustainability, 2023, 15, 5930.	1.6	33
3629	Deep learning based synthetic CT from cone beam CT generation for abdominal paediatric radiotherapy. Physics in Medicine and Biology, 2023, 68, 105006.	1.6	5
3630	Data Augmentation for Deep Receivers. IEEE Transactions on Wireless Communications, 2023, 22, 8259-8274.	6.1	1
3631	Understanding the influence of news on society decision making: application to economic policy uncertainty. Neural Computing and Applications, 2023, 35, 14929-14945.	3.2	1
3632	Deep Learning-Based Approach for Classifying the Severity of Metal Corrosion Using Sem Images. Lecture Notes on Data Engineering and Communications Technologies, 2023, , 403-418.	0.5	0
3633	Waste Detection System Based on Data Augmentation and YOLO_EC. Sensors, 2023, 23, 3646.	2.1	3
3634	NIRS Data Augmentation Technique to Detect Hemodynamic Peaks during Self-Paced Motor Imagery. IEEE Access, 2023, , 1-1.	2.6	0
3635	Lab to Multiscene Generalization for Non-Line-of-Sight Identification With Small-Scale Datasets. IEEE Transactions on Artificial Intelligence, 2024, 5, 516-529.	3.4	0
3636	Deep Learning-Based Framework for Soil Moisture Content Retrieval of Bare Soil from Satellite Data. Remote Sensing, 2023, 15, 1916.	1.8	4
3637	Influence of Data Augmentation Strategies on the Segmentation of Oral Histological Images Using Fully Convolutional Neural Networks. Journal of Digital Imaging, 2023, 36, 1608-1623.	1.6	1
3638	Engagement in Video Graphic Online Learning Using the Emotional Dimensions in the Learning Context. , 2023, , .		0
3639	Vision-Based System for Measuring the Diameter of Wood Logs. , 2023, 2, 1-12.		0
3640	A Novel Hybrid Deep Learning Model for Crop Disease Detection Using BEGAN. Lecture Notes in Computer Science, 2023, , 267-283.	1.0	1
3641	Applying a GAN-based classifier to improve transcriptome-based prognostication in breast cancer. PLoS Computational Biology, 2023, 19, e1011035.	1.5	3
3642	A Survey on Data Augmentation Techniques. , 2023, , .		2
3643	An open-source automatic survey of green roofs in London using segmentation of aerial imagery. Earth System Science Data, 2023, 15, 1521-1541.	3.7	0
3644	Novel Deep CNN Model based Breast Cancer Classification. , 2023, , .		1
3645	Performance of Recurrent Neural Networks in Liver Disease Classification. , 2023, , .		1

#	ARTICLE	IF	CITATIONS
3646	Multi-Modal 3D Object Detection in Autonomous Driving: A Survey and Taxonomy. IEEE Transactions on Intelligent Vehicles, 2023, 8, 3781-3798.	9.4	20
3647	A Systematic Review of Individual Tree Crown Detection and Delineation with Convolutional Neural Networks (CNN). Current Forestry Reports, 2023, 9, 149-170.	3.4	9
3648	Classification of Brain Tumours in MRI Images using a Convolutional Neural Network. Current Medical Imaging, 2023, 20, .	0.4	0
3649	One-Stage Methods of Computer Vision Object Detection to Classify Carious Lesions from Smartphone Imaging. Oral, 2023, 3, 176-190.	0.6	4
3650	Comparison of End-to-End Neural Network Architectures and Data Augmentation Methods for Automatic Infant Motility Assessment Using Wearable Sensors. Sensors, 2023, 23, 3773.	2.1	1
3651	Generative Augmentation Methods for Histological Image Analysis in Limited Data Conditions. Computational Mathematics and Modeling, 2022, 33, 365-374.	0.2	0
3652	Convolutional Neural Network Maps Plant Communities in Semi-Natural Grasslands Using Multispectral Unmanned Aerial Vehicle Imagery. Remote Sensing, 2023, 15, 1945.	1.8	0
3653	Addressing uncertainty in the safety assurance of machine-learning. Frontiers in Computer Science, 0, 5, .	1.7	3
3654	Choosing Suitable Object Detection Method to Examine Pigment Powders of Similar Shape., 2022,,.		1
3655	Scarce data driven deep learning of drones via generalized data distribution space. Neural Computing and Applications, 0, , .	3.2	1
3656	Monkeypox detection from skin lesion images using an amalgamation of CNN models aided with Beta function-based normalization scheme. PLoS ONE, 2023, 18, e0281815.	1.1	16
3658	A Unified Frequency Understanding of Image Corruptions and its Application to Autonomous Driving. , 0, , .		0
3659	Semantic Segmentation with High Inference Speed in Off-Road Environments. , 0, , .		0
3660	Microstructural segmentation using a union of attention guided U-Net models with different color transformed images. Scientific Reports, 2023, 13, .	1.6	6
3661	SALR: Sharpness-Aware Learning Rate Scheduler for Improved Generalization. IEEE Transactions on Neural Networks and Learning Systems, 2024, , 1-0.	7.2	0
3662	Real-Time Pear Fruit Detection and Counting Using YOLOv4 Models and Deep SORT. , 2023, , 179-218.		0
3663	DRL: Dynamic rebalance learning for adversarial robustness of UAV with long-tailed distribution. Computer Communications, 2023, 205, 14-23.	3.1	3
3664	Accurate Recognition of Mixed Events Using Two-dimensional Time-frequency Domain Feature and Data Augmentation for Phase-OTDR Sensing System. , 2022, , .		O

#	Article	IF	CITATIONS
3665	Capacity Abuse Attack of Deep Learning Models Without Need of Label Encodings. IEEE Transactions on Artificial Intelligence, 2024, 5, 814-826.	3.4	1
3666	Remote-Sensing Data and Deep-Learning Techniques in Crop Mapping and Yield Prediction: A Systematic Review. Remote Sensing, 2023, 15, 2014.	1.8	20
3667	Contrastive-Regularized U-Net for Video Anomaly Detection. IEEE Access, 2023, 11, 36658-36671.	2.6	1
3668	Automatic Identification of Lung Opacities Due to COVID-19 from Chest X-ray Imagesâ€"Focussing Attention on the Lungs. Diagnostics, 2023, 13, 1381.	1.3	2
3669	Entropic approximate learning for financial decision-making in the small data regime. Research in International Business and Finance, 2023, 65, 101958.	3.1	2
3670	Joint denoising and classification network: Application to microseismic event detection in hydraulic fracturing distributed acoustic sensing monitoring. Geophysics, 2023, 88, L53-L63.	1.4	1
3671	CISA: Context Substitution for Image Semantics Augmentation. Mathematics, 2023, 11, 1818.	1.1	5
3672	Enhancing Forest Attribute Prediction by Considering Terrain and Scan Angles From Lidar Point Clouds: A Neural Network Approach. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2023, 16, 3531-3544.	2.3	1
3673	Evaluating diagnostic content of Al-generated chest radiography: A multi-center visual Turing test. PLoS ONE, 2023, 18, e0279349.	1,1	3
3674	Investigation of the best effective fold of data augmentation for training deep learning models for recognition of contiguity between mandibular third molar and inferior alveolar canal on panoramic radiographs. Clinical Oral Investigations, 2023, 27, 3759-3769.	1.4	2
3675	Assessment of the effectiveness of a convolutional autoencoder for digital image-based automated core logging., 2023, 227, 211802.		0
3676	GCD-PKAug: A Gradient Consistency Discriminator-Based Augmentation Method forÂPharmacokinetics Time Courses. Communications in Computer and Information Science, 2023, , 3-14.	0.4	0
3677	A Spatio-Temporal Event Data Augmentation Method forÂDynamic Vision Sensor. Communications in Computer and Information Science, 2023, , 422-433.	0.4	1
3678	A Bi-FPN-Based Encoder–Decoder Model for Lung Nodule Image Segmentation. Diagnostics, 2023, 13, 1406.	1.3	1
3679	Enhancing Pavement Distress Detection Using a Morphological Constraints-Based Data Augmentation Method. Coatings, 2023, 13, 764.	1.2	0
3680	Chirality Analysis of Complex Microparticles using Deep Learning on Realistic Sets of Microscopy Images. ACS Nano, 2023, 17, 7431-7442.	7.3	3
3681	Deep Learning Approaches for Data Augmentation in Medical Imaging: A Review. Journal of Imaging, 2023, 9, 81.	1.7	21
3682	Convolutional Neural Network to Detect Support and Suspend Insulators on Infrared Images., 2023,,.		0

#	Article	IF	CITATIONS
3683	Physically informed machine-learning algorithms for the identification of two-dimensional atomic crystals. Scientific Reports, 2023, 13 , .	1.6	1
3684	An Efficient Classification System for Brain Tumor Based on Convolutional Neural Network. , 2022, , .		0
3685	Multimodal 4DVarNets for the Reconstruction of Sea Surface Dynamics From SST-SSH Synergies. IEEE Transactions on Geoscience and Remote Sensing, 2023, 61, 1-14.	2.7	3
3686	A convolutional attention mapping deep neural network for classification and localization of cardiomegaly on chest X-rays. Scientific Reports, 2023, 13, .	1.6	5
3687	Deterioration Detection in Historical Buildings with Different Materials Based on Novel Deep Learning Methods with Focusing on Isfahan Historical Bridges. International Journal of Architectural Heritage, 0 , , 1 - 13 .	1.7	2
3688	Towards a Deep Learning Pain-Level Detection Deployment at UAE for Patient-Centric-Pain Management and Diagnosis Support: Framework and Performance Evaluation. Procedia Computer Science, 2023, 220, 339-347.	1.2	2
3689	General-purpose mid-infrared micro-spectrometer based on hierarchical residual CNN and data augmentation. Optics Express, 0, , .	1.7	0
3690	A hybrid convolutional neural network with fusion of handcrafted and deep features for FHSS signals classification. Expert Systems With Applications, 2023, 225, 120153.	4.4	3
3691	Self-supervised semantic segmentation of retinal pigment epithelium cells in flatmount fluorescent microscopy images. Bioinformatics, 0, , .	1.8	0
3692	A hybrid deep learning approach for detection and segmentation of ovarian tumours. Neural Computing and Applications, 0, , .	3.2	1
3693	FoCA: Failure-oriented Class Augmentation for Robust Image Classification. , 2022, , .		0
3694	Exploring Language-Interfaced Fine-Tuning for COVID-19 Patient Survival Classification., 2022,,.		0
3695	Disentangled Representation Learning for RF Fingerprint Extraction Under Unknown Channel Statistics. IEEE Transactions on Communications, 2023, 71, 3946-3962.	4.9	1
3696	CX-R Classification Using DCNN Method. , 2023, , .		0
3697	Deep learning-assisted automated sewage pipe defect detection for urban water environment management. Science of the Total Environment, 2023, 882, 163562.	3.9	4
3698	Unmanned aerial vehicle-based computer vision for structural vibration measurement and condition assessment: A concise survey., 2023, 2, 100031.		2
3699	Prior-Aware Cross Modality Augmentation Learning for Continuous Sign Language Recognition. IEEE Transactions on Multimedia, 2024, 26, 593-606.	5.2	0
3700	Site Safety Target Detection With Improved YOLOv5. , 2022, , .		0

#	Article	IF	CITATIONS
3701	A new convolution neural network model "KR-NET―for retinal fundus glaucoma classification. Optik, 2023, 283, 170861.	1.4	2
3702	Deep Long-Tailed Learning: A Survey. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2023, 45, 10795-10816.	9.7	51
3703	Mammography and ultrasound based dual modality classification of breast cancer using a hybrid deep learning approach. Biomedical Signal Processing and Control, 2023, 86, 104919.	3.5	12
3704	An efficient framework for few-shot skeleton-based temporal action segmentation. Computer Vision and Image Understanding, 2023, 232, 103707.	3.0	3
3705	Small-Sample Seabed Sediment Classification Based on Deep Learning. Remote Sensing, 2023, 15, 2178.	1.8	2
3706	Semi-supervised water tank detection to support vector control of emerging infectious diseases transmitted by Aedes Aegypti. International Journal of Applied Earth Observation and Geoinformation, 2023, 119, 103304.	0.9	0
3707	Interactive Generation of Image Variations for Copy-Paste Data Augmentation. , 2023, , .		0
3708	An automated neural network-based stage-specific malaria detection software using dimension reduction: The malaria microscopy classifier. MethodsX, 2023, 10, 102189.	0.7	0
3709	Effective 2D Stroke-based Gesture Augmentation for RNNs., 2023,,.		1
3710	Noninvasive material anisotropy estimationusing oblique incidence reflectometry andmachine learning. Optical Materials Express, 0, , .	1.6	0
3711	TextControlGAN: Text-to-Image Synthesis with Controllable Generative Adversarial Networks. Applied Sciences (Switzerland), 2023, 13, 5098.	1.3	12
3712	Incremental Pedestrian Attribute Recognition via Dual Uncertainty-Aware Pseudo-Labeling. IEEE Transactions on Information Forensics and Security, 2023, , 1-1.	4.5	0
3713	Remote Sensing Image Classification with Few Labeled Data Using Semisupervised Learning. Wireless Communications and Mobile Computing, 2023, 2023, 1-11.	0.8	1
3714	SelfCF: A Simple Framework for Self-supervised Collaborative Filtering. , 2023, 1, 1-25.		10
3715	Adaptive Chaotic Injection to Reduce Overfitting in Artificial Neural Networks. , 2022, , .		1
3716	Assessment of adjunct cognitive functioning through intake interviews integrated with natural language processing models. Frontiers in Medicine, $0,10,.$	1.2	0
3717	Learning social navigation from demonstrations with conditional neural processes. Interaction Studies, 2022, 23, 427-468.	0.4	2
3718	A Transformer-based method to reduce cloud shadow interference in automatic lake water surface extraction from Sentinel-2 imagery. Journal of Hydrology, 2023, 620, 129561.	2.3	2

#	Article	IF	Citations
3723	Systematic Augmentation inÂHSV Space forÂSemantic Segmentation ofÂProstate Biopsies. Lecture Notes in Computer Science, 2023, , 293-308.	1.0	0
3724	Bootstrap Latent Representations for Multi-modal Recommendation. , 2023, , .		12
3729	Interpreting wealth distribution via poverty map inference using multimodal data., 2023,,.		0
3731	Evaluating Image Data Augmentation Technique Utilizing Hadamard Walsh Space for Image Classification. Proceedings in Adaptation, Learning and Optimization, 2023, , 290-301.	1.5	0
3742	Localization andÂClassification ofÂThoracic Abnormalities fromÂChest Radiographs Using Deep Ensemble Model. Smart Innovation, Systems and Technologies, 2023, , 39-48.	0.5	0
3753	Application of Convolutional Neural Network for Identifying Cocoa Leaf Disease. , 2023, , 283-304.		0
3764	Transfer Learning with Image Data Augmentation for Parking Occupancy Detection., 2023,,.		0
3770	Improving Radio Environment Maps with Joint Communications and Sensing: An Outlook., 2023,,.		1
3782	Baby Physical Safety Monitoring in Smart Home Using Action Recognition System., 2023,,.		1
3783	Are current machine learning applications comparable to radiologist classification of degenerate and herniated discs and Modic change? A systematic review and meta-analysis. European Spine Journal, 2023, 32, 3764-3787.	1.0	2
3794	Enhanced Random Crop with Data Augmentation for Insulator Detection in Complex Backgrounds. , 2022, , .		0
3799	Noise-Tolerant Radio Frequency Fingerprinting With Data Augmentation and Contrastive Learning. , 2023, , .		0
3808	Character and Word Level Gesture Recognition of Indian Sign Language., 2023,,.		1
3809	Chest X-Ray Image Analysis for Respiratory Disease Prediction using Grad-CAM. , 2023, , .		1
3813	Outlier detection in maize field using Isolation Forest: A one-class classifier. , 2023, , .		0
3814	The Impact of Convolutional Neural Network Parameters in the Binary Classification of Mammograms. , 2022, , .		0
3815	Monkeypox Detection and Classification Using Deep Learning Based Features Selection and Fusion Approach., 2023,,.		0
3816	An Ensemble Voting Method of Pre-Trained Deep Learning Models for Orchid Recognition. , 2023, , .		1

#	Article	IF	Citations
3817	Lung Tumor Detection and \hat{A} Recognition Using Deep Convolutional Neural Networks. Communications in Computer and Information Science, 2023, , 79-91.	0.4	0
3824	CycleGAN Implementation on Cross-Modality Transfer Between Magnetic Resonance Image (MRI) and Computed Tomography (CT) Images. Lecture Notes in Networks and Systems, 2023, , 445-455.	0.5	0
3825	Image-Multimodal Data Analysis for Defect Classification: Case Study of Semiconductor Defect Patterns. Smart Innovation, Systems and Technologies, 2023, , 48-61.	0.5	0
3826	Image-Multimodal Data Analysis for Defect Classification: Case Study of Industrial Printing. Smart Innovation, Systems and Technologies, 2023, , 35-47.	0.5	0
3828	Image Generation Model Applying PCA on Latent Space. , 2023, , .		0
3834	High-Resolution Volumetric Imaging and Classification of Organisms with Standard Optical Microscopy. Nano Letters, 2023, 23, 5148-5154.	4.5	0
3836	Deep Learning Techniques for the Automatic Detection and Classification of Rice Diseases. Lecture Notes in Networks and Systems, 2023, , 229-240.	0.5	0
3838	Research on Convolutional Neural Network for Rice Nitrogen Nutrition Diagnosis. , 2022, , .		0
3839	Analysis ofÂData Augmentation Techniques forÂMobile Robots Localization byÂMeans ofÂConvolutional Neural Networks. IFIP Advances in Information and Communication Technology, 2023, , 503-514.	0.5	0
3841	A Methodological Study of Fake Image Creation and Detection Techniques in Multimedia Forensics. Advances in Multimedia and Interactive Technologies Book Series, 2023, , 173-196.	0.1	0
3843	No Matter How You Slice It: Machine Unlearning with SISA Comes at the Expense of Minority Classes. , 2023, , .		5
3845	Energy Efficiency ofÂPython Machine Learning Frameworks. Lecture Notes in Networks and Systems, 2023, , 586-595.	0.5	0
3852	Nighttime Semantic Segmentation with Instance-level Data Augmentation: a Case Study of the Dark Zurich Benchmark., 2023,,.		0
3862	Model-Agnostic Event Log Augmentation forÂPredictive Process Monitoring. Lecture Notes in Computer Science, 2023, , 381-397.	1.0	1
3863	Emerging Soft Computation Tools for Skin Cancer Diagnostics. EAI/Springer Innovations in Communication and Computing, 2023, , 265-283.	0.9	0
3866	Vicinal Feature Statistics Augmentation forÂFederated 3D Medical Volume Segmentation. Lecture Notes in Computer Science, 2023, , 360-371.	1.0	0
3868	Robust DeepFake Detection Method based on Ensemble of ViT and CNN., 2023,,.		0
3869	A Transfer Learning Model based on Residual learning and Maxout For Sketch Works Ranking. , 2022, , .		0

#	Article	IF	CITATIONS
3870	Prediction of airfoil dynamic stall response using convolutional neural networks. , 2023, , .		0
3874	Self-Supervised Contrastive Learning for Robust Audio-Sheet Music Retrieval Systems. , 2023, , .		1
3875	Leukocyte Recognition Using a Modified AlexNet and Image to Image GAN Data Augmentation. Lecture Notes in Computer Science, 2023, , 139-148.	1.0	0
3876	A Literature Review on Citrus Fruits and Leaves diseases detection using Deep Neural Network model. , 2023, , .		0
3878	On the use of synthetic images in deep learning for defect recognition in industrial infrastructures. , 2023, , .		1
3882	Toward Data Lake Technologies for Intelligent Societies and Cities. EAI/Springer Innovations in Communication and Computing, 2023, , 3-29.	0.9	0
3883	Building Manufacturing Deep Learning Models with Minimal and Imbalanced Training Data Using Domain Adaptation and Data Augmentation. , 2023, , .		0
3884	Exploiting Self-Imposed Constraints on RGB and LiDAR for Unsupervised Training. , 2023, , .		0
3885	Sensitive Data Classification of Imbalanced Short Text Based on Probability Distribution BERT in Electric power industry. , 2023, , .		0
3887	Transfer Learning Based Skin Cancer Classification Using GoogLeNet. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2023, , 238-252.	0.2	1
3888	Performance Analysis of ASUS Tinker and MobileNetV2 in Face Mask Detection on Different Datasets. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2023, , 283-293.	0.2	0
3891	Conversational System for Clinical Communication Training Supporting User-defined Tasks., 2022,,.		0
3896	Application of Deep Learning for Wafer Defect Classification in Semiconductor Manufacturing. Algorithms for Intelligent Systems, 2023, , 327-339.	0.5	0
3903	Industry 4.0 in the Health Sector: System for Melanoma Detection. EAI/Springer Innovations in Communication and Computing, 2023, , 43-70.	0.9	0
3907	Computer Vision-based Automated Cashew Kernel Grading. , 2023, , .		0
3910	Hybrid Quantum Classical Neural Network-Based Classification of Prenatal Ventricular Septal Defect from Ultrasound Images. Lecture Notes on Data Engineering and Communications Technologies, 2023, , 461-468.	0.5	1
3915	Applications of Cut, Paste, Learn Synthetic Image Generation, and Convolutional Neural Networks in Marine Animals Classification. , 2023, , .		0
3924	Deep-Layer Training of CNN for SAR with Two-Stage Data Augmentation. , 2023, , .		0

#	Article	IF	Citations
3936	Improving Automated Evaluation ofÂStudent Text Responses Using GPT-3.5 forÂText Data Augmentation. Lecture Notes in Computer Science, 2023, , 217-228.	1.0	1
3940	Synthesizing Building Operation Data with Generative Models: VAEs, GANs, or Something In Between?., 2023, , .		0
3947	Improving CXR Self-Supervised Representation by Pretext Task and Cross-Domain Synthetic Data. Smart Innovation, Systems and Technologies, 2023, , 57-76.	0.5	0
3948	A Comparative Study Based on Lung Cancer with Deep Learning and Machine Learning Models. Algorithms for Intelligent Systems, 2023, , 41-49.	0.5	0
3950	Data Augmentation and Deep Learning Applied for Traffic Signs Image Classification. Lecture Notes in Networks and Systems, 2023, , 114-123.	0.5	0
3959	DenseNet201 Model for Robust Detection on Incorrect Use of Mask. Lecture Notes in Electrical Engineering, 2023, , 251-263.	0.3	0
3972	LSSED: A Robust Segmentation Network for Inflamed Appendix from CT Images., 2023,,.		0
3974	Machine Learning Based Currency Classification System. , 2023, , .		0
3976	Data Augmentation Based On Invariant Shape Blending For Deep Learning Classification., 2023,,.		0
3977	Light-sheets and smart microscopy, an exciting future is dawning. Communications Biology, 2023, 6, .	2.0	13
3981	Data Augmentation of Insulator Aerial Images for Intelligent Inspection of Electric Transmission Systems. , 2022, , .		0
3983	A Data Augmentation Method for Multi-energy Parks Considering Different Scenario Factors. , 2022, , .		0
3986	The Deep Learning Approach For American Sign Language Detection. , 2022, , .		0
3990	MixCode: Enhancing Code Classification by Mixup-Based Data Augmentation. , 2023, , .		6
3992	Weak Labelling for File-level Source Code Classification. , 2023, , .		2
3995	A Review on Deep Learning on UAV Monitoring Systems for Agricultural Applications. Studies in Computational Intelligence, 2023, , 335-368.	0.7	1
3996	Training Deep Learning Spacecraft Component Detection Algorithms Using Synthetic Image Data. , 2023, , .		3
3997	Deep CNN-Based Facial Recognition for a Person Identification System Using the Inception Model. SpringerBriefs in Applied Sciences and Technology, 2023, , 85-95.	0.2	0

#	Article	IF	CITATIONS
4004	Intelligente Qualit \tilde{A} tssicherung im industriellen Produktionsprozess unter Verwendung von KI-Algorithmen. , 2023, , 120-138.		0
4005	Lung Cancer Diagnosis Using Deep Convolutional Neural Network. Lecture Notes in Electrical Engineering, 2023, , 365-380.	0.3	O
4009	A Deep Learning-Based Approach for Automatic Detection of Hurricane Damage using Satellite Images. , 2023, , .		0
4011	Shiitake Mushroom Semantic Segmentation Method Based on Search Focus Network., 2023, , .		O
4014	A Transfer Learning Approach Towards Optical Spectrum Based Optical Performance Monitoring. , 2023, , .		0
4026	Semantic Similarity Evaluation Method Based on Text Generation Data Augmentation. , 2022, , .		0
4028	Distribution Inference Risks: Identifying and Mitigating Sources of Leakage. , 2023, , .		1
4029	Fine-tuned CNN-based Sri Lankan Currency Note Detection Method for the Visually Impaired People Using Smartphones., 2023,,.		0
4031	Brain Tumor Detection and Classification from MRI Images Using Cascaded Deep Neural Networks. Lecture Notes in Electrical Engineering, 2023, , 301-311.	0.3	1
4036	Research on Recommendation Methods Based on Data Augmentation in a Heterogeneous View. , 2023, , .		0
4037	Poultry Egg Classification System Using Deep Learning. , 2023, , .		1
4038	Effects of Data Augmentation Techniques on Classification Performance in Knee MRIs., 2023, , .		O
4040	Comparing DNN Performance to Justify Using Transference of Training for the Autonomous Aerial Refueling Task., 2023,,.		3
4043	YOLO-IP. Impact of Meat Consumption on Health and Environmental Sustainability, 2023, , 133-158.	0.4	O
4046	A Hybrid Transfer Learning and Segmentation Approach for the Detection of Acute Lymphoblastic Leukemia. Lecture Notes in Networks and Systems, 2023, , 175-189.	0.5	0
4047	A multi-attention fusion mechanism for collaborative industrial surface defect detection., 2023,,.		O
4048	Rice Plant Leaf Disease Detection—A Comparison of Various Methodologies. Lecture Notes in Electrical Engineering, 2023, , 325-336.	0.3	0
4063	50. Data augmentation techniques for grape bunch segmentation in natural images., 2023,,.		O

#	ARTICLE	IF	Citations
4064	Cataract Detection using Pupil Patch Classification and Ruled-based System in Anterior Segment Photographed Images., 2023,,.		0
4067	Detection and Classification of Dense Tomato Fruits by Integrating Coordinate Attention Mechanism With YOLO Model. Advances in Computational Intelligence and Robotics Book Series, 2023, , 278-289.	0.4	0
4068	Exploring the Effectiveness of LSTM and Self-Attention Models for Artifact Detection in PPG Signals. , 2023, , .		0
4074	ExAug: Robot-Conditioned Navigation Policies via Geometric Experience Augmentation., 2023,,.		4
4077	Sample-Efficient Goal-Conditioned Reinforcement Learning via Predictive Information Bottleneck for Goal Representation Learning. , 2023, , .		0
4078	Off-policy Imitation Learning from Visual Inputs. , 2023, , .		1
4079	LATITUDE: Robotic Global Localization with Truncated Dynamic Low-pass Filter in City-scale NeRF. , 2023, , .		3
4090	Heterogeneity-Stratified Bootstrap Oversampling for Training a Spoiled Food Detector., 2023,,.		0
4093	GRAPHSEC – Advancing theÂApplication ofÂAI/ML toÂNetwork Security Through Graph Neural Networks. Lecture Notes in Computer Science, 2023, , 56-71.	1.0	0
4094	Alternative Data Augmentation forÂlndustrial Monitoring Using Adversarial Learning. Communications in Computer and Information Science, 2023, , 1-23.	0.4	0
4096	Crack Detection on Brick Walls by Convolutional Neural Networks Using the Methods of Sub-dataset Generation and Matching. Communications in Computer and Information Science, 2023, , 134-150.	0.4	0
4099	Few-Shot Learning with Feature Pairing and Mean Discrepancy. , 2023, , .		0
4102	Improving Object Recognition Accuracy through CNN-based Localization Techniques. , 2023, , .		0
4109	Illustration of the Usable Al Paradigm in Production-Engineering Implementation Settings. Lecture Notes in Computer Science, 2023, , 640-661.	1.0	0
4110	Leveraging Synonyms and Antonyms for Data Augmentation in Sarcasm Identification. Lecture Notes in Networks and Systems, 2023, , 703-713.	0.5	0
4115	Chest X-Ray Image Classification of Pneumonia Disease Using EfficientNet and InceptionV3. Studies in Big Data, 2023, , 173-186.	0.8	0
4118	Residential Solar Panel Object Detection Based on Multi-combination Data Augmentation and YOLOv5., 2023,,.		1
4128	CodeGraphSMOTE - Data Augmentation forÂVulnerability Discovery. Lecture Notes in Computer Science, 2023, , 282-301.	1.0	0

#	Article	IF	CITATIONS
4129	Proposal of a model for credit risk prediction based on deep learning methods and SMOTE techniques for imbalanced dataset., 2023,,.		1
4133	Pathways to Leverage Transcompiler based Data Augmentation for Cross-Language Clone Detection. , 2023, , .		0
4134	A Robust and Low Complexity Deep Learning Model for Remote Sensing Image Classification. , 2023, , .		1
4135	Generative Adversarial Networks in Healthcare: A Case Study on MRI Image Generation. , 2023, , .		0
4136	Utilizing Neural Networks to Resolve Individual Bats and Improve Automated Counts. , 2023, , .		0
4145	Research on Handwritten Digits Classification Technology Based on Convolutional Ceural Network Algorithm. , 2023, , .		0
4149	Towards Realistic 3D Ultrasound Synthesis: Deformable Augmentation using Conditional Variational Autoencoders., 2023,,.		0
4154	In-depth Benchmarking of Transfer Learning Techniques for Improved Bottle Recognition., 2023,,.		0
4158	Automatic quantitative and morphometric analysis of muscle fibers. , 2023, , .		0
4163	Data Augmentation Based onÂVirtual Wrist Devices forÂFall Detection. Communications in Computer and Information Science, 2023, , 164-178.	0.4	0
4165	On theÂUse ofÂWebAssembly forÂRendering andÂSegmenting Medical Images. Communications in Computer and Information Science, 2023, , 393-414.	0.4	0
4166	Automated Data Adaptation forÂtheÂSegmentation ofÂBlood Vessels. Communications in Computer and Information Science, 2023, , 53-72.	0.4	0
4167	ATLAS - A Co-evolutionary Framework for Automatic Tuning of Adversarial Neural Networks. , 2023, , .		0
4176	Weed Detection in Crops Using Lightweight EfficientNets. Lecture Notes in Networks and Systems, 2023, , 149-162.	0.5	0
4178	Evaluating a Synthetic Image Dataset Generated with Stable Diffusion. Lecture Notes in Networks and Systems, 2023, , 805-818.	0.5	3
4183	Efficient Deep Ensemble Inference via Query Difficulty-dependent Task Scheduling. , 2023, , .		1
4187	Industrial defect detection on the edge with deep learning over scarcely labeled and extremely imbalanced data., 2023,,.		0
4192	Data augmentation for machine learning of chemical process flowsheets. Computer Aided Chemical Engineering, 2023, , 2011-2016.	0.3	O

#	Article	IF	CITATIONS
4198	Iterative-in-iterative super-resolution biomedical imaging using one real image. , 2023, , .		0
4204	An Empirical Study onÂModel Pruning andÂQuantization. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2023, , 111-125.	0.2	0
4209	Improving Primate Sounds Classification Using Binary Presorting for Deep Learning. Communications in Computer and Information Science, 2023, , 19-34.	0.4	0
4211	Use the Detection Transformer as a Data Augmenter. Lecture Notes in Computer Science, 2023, , 157-170.	1.0	O
4212	Maintaining Performance withÂLess Data: Understanding Useful Data. Lecture Notes in Networks and Systems, 2023, , 1105-1127.	0.5	0
4216	Can Generalised Divergences Help forÂlnvariant Neural Networks?. Lecture Notes in Computer Science, 2023, , 82-90.	1.0	0
4220	Augmenting Radar Data via Sampling from Learned Latent Space. , 2023, , .		0
4227	Advances in machine-learning-based sampling motivated by lattice quantum chromodynamics. Nature Reviews Physics, 2023, 5, 526-535.	11.9	1
4228	ESSA: Explanation Iterative Supervision via Saliency-guided Data Augmentation. , 2023, , .		2
4232	Joint Pre-training and Local Re-training: Transferable Representation Learning on Multi-source Knowledge Graphs. , 2023, , .		0
4233	Improving Conversational Recommendation Systems via Counterfactual Data Simulation., 2023,,.		1
4243	PAC Privacy: Automatic Privacy Measurement andÂControl ofÂData Processing. Lecture Notes in Computer Science, 2023, , 611-644.	1.0	0
4247	The Effect of Data Augmentation and Optimization Technique on the Performance of EfficientNetV2 for Plant-Parasitic Nematode Identification. , 2023, , .		0
4251	The Digital Twin to Train a Neural Network Detecting Headlamps Failure of Motor Vehicles. Lecture Notes in Networks and Systems, 2023, , 29-38.	0.5	0
4252	Classification of Philippine Guyabano fruit maturity based on visual properties using deep learning. AIP Conference Proceedings, 2023, , .	0.3	0
4254	MARRS: Modern Backbones Assisted Co-training for Rapid and Robust Semi-Supervised Domain Adaptation. , 2023, , .		0
4256	RAMRL: Towards Robust On-Ramp Merging via Augmented Multimodal Reinforcement Learning. , 2023, , .		0
4257	Diversity is Definitely Needed: Improving Model-Agnostic Zero-shot Classification via Stable Diffusion. , 2023, , .		2

#	ARTICLE	IF	CITATIONS
4258	Robustness of Visual Explanations to Common Data Augmentation Methods., 2023,,.		0
4259	Multi-view Semantic Information Guidance for Light Field Image Segmentation. , 2023, , .		0
4261	LD-GAN: Low-Dimensional Generative Adversarial Network for Spectral Image Generation with Variance Regularization. , 2023, , .		0
4262	Feature Selector: an effective module for robust high-voltage switchgear detection. , 2023, , .		0
4269	Introduction to Deep Learning. , 2023, , 301-338.		0
4283	Image Layer Modeling for Complex Document Layout Generation. , 2023, , .		0
4287	SBGAN: Sequential Bengali Word Image Generation Model. Lecture Notes in Networks and Systems, 2023, , 261-271.	0.5	0
4291	Classification of Osteo-Arthritis with the Help of Deep Learning and Transfer Learning. , 2023, , .		7
4293	A Robotic Smart System to Identify and Classify the Defects in the Manufactured Products. , 2023, , .		0
4295	VGG16-Based Deep Learning Architectures for Classification of Lung Sounds into Normal, Crackles, and Wheezes using Gammatonegrams. , 2023, , .		1
4296	Foreign Object Debris Detection in Aerodromes Using Deep Learning Approaches. Lecture Notes in Networks and Systems, 2023, , 587-598.	0.5	0
4299	Enhancing Model Explainability in Financial Trading Using Training Aid Samples: A CNN-Based Candlestick Pattern Recognition Approach. , 2023, , .		0
4301	Satellite Imagery Superresolution Based on Optimal Frame Accumulation. Springer Proceedings in Physics, 2023, , 395-412.	0.1	0
4306	Early Plant Disease Detection Using Infrared andÂMobile Photographs inÂNatural Environment. Lecture Notes in Networks and Systems, 2023, , 307-321.	0.5	1
4309	Comparative Study of Regularization Techniques for VGG16, VGG19 and ResNet-50 for Plant Disease Detection. Algorithms for Intelligent Systems, 2023, , 771-781.	0.5	0
4310	Automatic classification of stator asymmetries and insulation thermal damages in induction motors, applying persistence spectrum and a convolutional neural network to the stray-flux signals. , 2023, , .		0
4313	CNN Feature Map Augmentation for Single-Source Domain Generalization. , 2023, , .		0
4324	Label-free virtual staining of neutrophil extracellular traps (NETs) in microfluidics. Lab on A Chip, 2023, 23, 3936-3944.	3.1	1

#	Article	IF	CITATIONS
4359	An intelligent strategy for phase change heat and mass transfer: Application of machine learning. Advances in Heat Transfer, 2023, , 113-168.	0.4	0
4363	An Ensemble Method with Edge Awareness for Abnormally Shaped Nuclei Segmentation. , 2023, , .		2
4373	An Assessment ofÂSelf-supervised Learning forÂData Efficient Potato Instance Segmentation. Lecture Notes in Computer Science, 2023, , 267-278.	1.0	1
4410	Improving Deep Features for Image Retrieval Using Multi-Source Spatial Information. , 2023, , .		0
4411	Wheat leaf disease detection using CNN in Smart Agriculture. , 2023, , .		1
4412	Code Vulnerability Detection via Signal-Aware Learning. , 2023, , .		0
4414	A Practical Deep Learning-Based Acoustic Side Channel Attack on Keyboards., 2023,,.		1
4416	Application of Artificial Intelligence in Ophthalmology for Coagulate Map Formation to Carry Out Laser Eye Treatment. Lecture Notes in Computer Science, 2023, , 387-402.	1.0	O
4417	Research on Remote Sensing Sample Expansion Technology Based on Generative Adversarial Network. Lecture Notes in Civil Engineering, 2023, , 650-667.	0.3	0
4418	An Automated Face Mask Detection System using Deep CNN on AWS Cloud Infrastructure. , 2023, , .		0
4420	Forest Fires Identification Using Self-Supervised Learning. Lecture Notes in Computer Science, 2023, , 203-212.	1.0	0
4422	Deep Learning Strategies For Rare Drug Mechanism of Action Prediction., 2023,,.		1
4423	Spectral Batch Normalization: Normalization in the Frequency Domain. , 2023, , .		0
4424	Weight Compander: A Simple Weight Reparameterization for Regularization. , 2023, , .		0
4425	Facial Expression Recognition Using Deep Neural Network., 2023,,.		1
4426	HQProtoPNet: An Evidence-Based Model for Interpretable Image Recognition. , 2023, , .		O
4428	Uncertainty-Aware Data Augmentation for Offline Reinforcement Learning. , 2023, , .		0
4429	Copy and Paste Augmentation for Deformable Wiring Harness Bags Segmentation. , 2023, , .		1

#	ARTICLE	IF	CITATIONS
4430	NSA: Naturalistic Support Artifact to Boost Network Confidence. , 2023, , .		0
4431	PromptMix: Text-to-image diffusion models enhance the performance of lightweight networks. , 2023, , .		O
4438	Integrated Perception and Planning for Autonomous Vehicle Navigation: An Optimization-based Approach. , 2023, , .		1
4439	Incremental Teacher Model with Mixed Augmentations and Scheduled Pseudo-label Loss for Handwritten Text Recognition. Lecture Notes in Computer Science, 2023, , 287-301.	1.0	0
4442	BrainVisionNet: A Deep Learning-based Approach to Evaluate the Potential of Microwave Imaging for Classification of Brain Tumors. , 2023, , .		0
4447	Robust Mean Teacher for Continual and Gradual Test-Time Adaptation. , 2023, , .		6
4448	C-SFDA: A Curriculum Learning Aided Self-Training Framework for Efficient Source Free Domain Adaptation. , 2023, , .		6
4449	CUDA: Convolution-Based Unlearnable Datasets. , 2023, , .		0
4450	Boundary-enhanced Co-training for Weakly Supervised Semantic Segmentation. , 2023, , .		5
4451	Mind the Label Shift of Augmentation-based Graph OOD Generalization. , 2023, , .		0
4452	RGB No More: Minimally-Decoded JPEG Vision Transformers. , 2023, , .		0
4453	A New Benchmark: On the Utility of Synthetic Data with Blender for Bare Supervised Learning and Downstream Domain Adaptation. , 2023, , .		3
4455	PartMix: Regularization Strategy to Learn Part Discovery for Visible-Infrared Person Re-Identification. , 2023, , .		4
4457	Convolutional neural networks for vehicle damage detection. AIP Conference Proceedings, 2023, , .	0.3	0
4461	Using Forestnets for Partial Fine-Tuning Prior to Breast Cancer Detection in Ultrasounds. , 2023, , .		0
4463	Improving Machine Learning Robustness via Adversarial Training. , 2023, , .		O
4464	Denoising Diffusion Medical Models., 2023,,.		0
4467	Semi-supervised Classification for Remote Sensing Datasets. Lecture Notes in Computer Science, 2023, , 463-474.	1.0	O

#	Article	IF	CITATIONS
4468	VM-NeRF: Tackling Sparsity inÂNeRF withÂView Morphing. Lecture Notes in Computer Science, 2023, , 63-74.	1.0	1
4469	Exploiting Exif Data to Improve Image Classification Using Convolutional Neural Networks. Lecture Notes in Computer Science, 2023, , 475-486.	1.0	0
4471	An efficient novel approach for early detection of lung cancer through document image classification with distributed machine learning paradigms. AIP Conference Proceedings, 2023, , .	0.3	0
4475	Comparison of Prostate Cell Image Classification Using CNN: ResNet-101 and VGG-19., 2023,,.		2
4480	Self-Attention-based Data Augmentation Method for Text Classification. , 2023, , .		0
4488	HDR-LMDA: A Local Area-Based Mixed Data Augmentation Method for Hdr Video Reconstruction. , 2023, , .		0
4490	End to End Generative Meta Curriculum Learning for Medical Data Augmentation., 2023,,.		0
4491	ADA-VIT: Attention-Guided Data Augmentation for Vision Transformers. , 2023, , .		0
4492	Deep Active Learning Based on Saliency-Guided Data Augmentation for Image Classification. , 2023, , .		0
4498	Enhancing Brain Tumor Classification in Medical Imaging Through Image Fusion and Data Augmentation Techniques. Lecture Notes in Networks and Systems, 2023, , 257-271.	0.5	0
4504	Improving DFU Image Classification by an Adaptive Augmentation Pool and Voting with Expertise. , 2023, , .		0
4512	IndoBERT Based Data Augmentation for Indonesian Text Classification. , 2023, , .		0
4514	A Strategic Framework for Evaluating Data Augmentation in Microscopic IC Image Analysis., 2023,,.		0
4516	Natural Scene Text Detection in Video with Hybrid Text Augmentation and Fusion-Transferred Learning. Advances in Intelligent Systems and Computing, 2023, , 183-197.	0.5	0
4517	A Survey onÂlndian Sign Language Translation Using Artificial Intelligence. Lecture Notes in Networks and Systems, 2023, , 425-442.	0.5	0
4518	Deep Learning Model with Progressive GAN for Diabetic Retinopathy. Advances in Intelligent Systems and Computing, 2023, , 611-621.	0.5	0
4519	Development of Intraoral Clinical Image Dataset for Deep Learning Caries Detection., 2023,,.		0
4521	Mixing Domains forÂSmartly Picking andÂUsing Limited Datasets inÂlndustrial Object Detection. Lecture Notes in Computer Science, 2023, , 270-282.	1.0	0

#	Article	IF	CITATIONS
4523	Regularization forÂHybrid N-Bit Weight Quantization ofÂNeural Networks onÂUltra-Low Power Microcontrollers. Lecture Notes in Computer Science, 2023, , 435-446.	1.0	0
4528	An Automated Approach for Identification of Oral Squamous Cell Carcinoma based on 2D-ICNN. , 2023, , .		0
4529	Modulation Recognition Method of Underwater Acoustic Signal Based on Parallel Network. , 2023, , .		0
4531	Robustness Assessment of Neural Network Architectures to Geometric Transformations: A Comparative Study with Data Augmentation. , 2023, , .		0
4532	A Survey onÂCross-Domain Few-Shot Image Classification. Lecture Notes in Computer Science, 2023, , 3-17.	1.0	1
4535	Deep learning techniques for in-crop weed recognition in large-scale grain production systems: a review. Precision Agriculture, 2024, 25, 1-29.	3.1	4
4540	Skin Cancer Image Augmentation Techniques Using Al: A Survey of the State-of-the-Art. Lecture Notes in Networks and Systems, 2023, , 569-579.	0.5	0
4548	An Improved Res-UperNet Method for Retinal Feature Segmentation. , 2023, , .		0
4552	Reinforcement Learning Based Black-Box Adversarial Attack for Robustness Improvement., 2023,,.		0
4554	Time-Spatial Feature Fusion for Contact Detection in Sports Using Multi-Sensor Data. , 2023, , .		0
4556	Deep Learning-Based Connector Detection for Robotized Assembly of Automotive Wire Harnesses. , 2023, , .		0
4560	Improving Robustness of CNN on Noisy Labels with Hinge Loss Function. , 2023, , .		0
4564	Practically Adopting Human Activity Recognition., 2023,,.		0
4565	TherapyPal: Towards a Privacy-Preserving Companion Diagnostic Tool based on Digital Symptomatic Phenotyping. , 2023, , .		0
4566	Performance Improvement with Optimization Algorithm in Isolating Left Ventricle and Non-Left Ventricle Cardiac., 2023,, 195-216.		0
4567	Label-Preserving Data Augmentation inÂLatent Space forÂDiabetic Retinopathy Recognition. Lecture Notes in Computer Science, 2023, , 284-294.	1.0	0
4568	CellGAN: Conditional Cervical Cell Synthesis forÂAugmenting Cytopathological Image Classification. Lecture Notes in Computer Science, 2023, , 487-496.	1.0	0
4569	Semantic Segmentation ofÂSurgical Hyperspectral Images Under Geometric Domain Shifts. Lecture Notes in Computer Science, 2023, , 618-627.	1.0	2

#	Article	IF	CITATIONS
4570	Anatomy-Informed Data Augmentation forÂEnhanced Prostate Cancer Detection. Lecture Notes in Computer Science, 2023, , 531-540.	1.0	1
4574	Ensemble Learning for Medical Image Character Recognition based on Enhanced Lenet-5., 2023,,.		0
4576	Machine Learning in Computer Aided Engineering. Computational Methods in Engineering & the Sciences, 2023, , 1-83.	0.3	0
4577	Data Readiness and Data Exploration for Successful Power Line Inspection. Artificial Intelligence, 0, , .	2.0	0
4580	Transfer Learning Approach Based on MobileNet Architecture for Human Smile Detection. Lecture Notes in Electrical Engineering, 2023, , 759-768.	0.3	0
4582	Batch and Lossless Image Hiding Via Super Resolution. , 2023, , .		0
4583	Automatic Emotion Detection in the Learning of Algorithms. , 2023, , .		0
4584	A Comparison of Machine Learning Models with Data Augmentation Techniques for Skeleton-based Human Action Recognition. , 2023, , .		1
4587	Generating Control Command for an Autonomous Vehicle Based on Environmental Information. Communications in Computer and Information Science, 2023, , 194-204.	0.4	0
4590	Practical Accuracy Evaluation for Deep Learning Systems via Latent Representation Discrepancy. , 2023, , .		0
4593	Machine Learning Models for Micro-bubble Image Detection in Mosquito Sprayer Quality Control:Addressing Class and Scale Imbalance., 2023,,.		0
4596	EarBender: Enabling Rich IMU-based Natural Hand-to-Ear Interaction in Commodity Earables. , 2023, , .		0
4597	Multi-task Learning forÂFew-Shot Differential Diagnosis ofÂBreast Cancer Histopathology Images. Lecture Notes in Computer Science, 2023, , 202-210.	1.0	0
4598	Can Data Augmentation Improve Daily Mood Prediction from Wearable Data? An Empirical Study. , 2023, , .		0
4600	SmartWasteCloud: An Intelligent Waste Management System Based on IoT and Neural Networks. , 2023, , .		0
4601	Safety Helmet Wearing Detection Based on Particle Swarm Optimization YOLOv7., 2023,,.		0
4602	Research on Natural Scene Rice Pest Detection Method Based on YOLOv5., 2023,,.		0
4606	Estimating theÂOptimal Training Set Size ofÂKeyword Spotting forÂHistorical Handwritten Document Transcription. Lecture Notes in Computer Science, 2023, , 165-177.	1.0	O

#	Article	IF	CITATIONS
4609	Web-based geolocated, teleoperated and interactive XR tours for cultural inheritance., 2023,,.		O
4610	Heritage of India: Advanced Monuments Classification using Artificial Intelligence. , 2023, , .		0
4611	Data Augmentation Method for Meter Instance Segmentation Under Data Balancing Strategy. , 2023, , .		0
4626	Apple Tree Health Recognition Through the Application of Transfer Learning for UAV Imagery., 2023,,.		O
4631	Towards the Automatic Generation of Models for Prediction, Monitoring, and Testing of Cyber-Physical Systems. , 2023, , .		0
4636	The use of generative adversarial networks in medical image augmentation. Neural Computing and Applications, 2023, 35, 24055-24068.	3.2	0
4642	Lightweight Gesture Tracking Algorithm for Mobile Smart Devices. , 2023, , .		0
4644	Early Crops Diseases Identification Using Deep Transfer Learning., 2023,,.		O
4645	Context-Aware Invasive Plant Instance Synthesis for UAV-Based Crop Field Image Augmentation. , 2023, , .		0
4646	Image Labeling Using Convolutional Neural Network. , 2023, , .		0
4647	Analysis of CNN Optimizer for Classifying Letter Images. , 2023, , .		1
4654	Utilizing YOLO for Efficient Indonesian Sign Language Recognition. , 2023, , .		0
4660	A Light-Weight Deep Learning Model for Remote Sensing Image Classification., 2023,,.		2
4663	Exchange Data Augmentation for Change Detection. , 2023, , .		0
4668	Evaluating Data Augmentation for Grapevine Varieties Identification. , 2023, , .		0
4669	D-Fast-SCNN + Combo Loss: Improved Road Marking Extraction on Mobile Lidar Sparse Point Cloud-Derived Images. , 2023, , .		0
4671	Tackling Diverse Minorities in Imbalanced Classification. , 2023, , .		0
4672	Robust Finger Interactions with COTS Smartwatches via Unsupervised Siamese Adaptation., 2023,,.		2

#	Article	IF	CITATIONS
4677	A deep learning model for the estimation of RF field trained from an analytical solution. , 2023, , .		2
4678	Modern Deep Learning Models for Skin Disease Diagnosis. , 2023, , .		0
4681	View it Like a Radiologist: Shifted Windows for Deep Learning Augmentation Of CT Images., 2023,,.		0
4685	A New Approach for Human Body Orientation Detection Using Camera Footage. , 2023, , .		0
4686	Municipal solid waste classification using transfer learning. , 2023, , .		0
4692	Performance Analysis of DCT Based Latent Space Image Data Augmentation Technique. Lecture Notes in Networks and Systems, 2024, , 217-228.	0.5	0
4721	Semantic Data Augmentation for Deep Learning Testing Using Generative Al. , 2023, , .		0
4729	Generative Adversarial Learning for Medical Thermal Imaging Analysis. , 2023, , 143-156.		0
4739	OrcoDCS: An IoT-Edge Orchestrated Online Deep Compressed Sensing Framework. , 2023, , .		0
4740	Advances in Deep Learning Models for Resolving Medical Image Segmentation Data Scarcity Problem: A Topical Review. Archives of Computational Methods in Engineering, 0, , .	6.0	0
4742	Classification of Steel Microstructure Image Using CNN. Lecture Notes on Data Engineering and Communications Technologies, 2024, , 59-68.	0.5	0
4744	Evaluation of the Timber Internal Crack Using CNN. Lecture Notes on Data Engineering and Communications Technologies, 2024, , 263-273.	0.5	O
4746	Performance Evaluation of Oversampling Methods on Deep Learning-Based Skin Cancer Classification. , 2023, , .		0
4748	QNNRepair: Quantized Neural Network Repair. Lecture Notes in Computer Science, 2023, , 320-339.	1.0	0
4749	Classification of various crops with CNN deep learning model. , 2023, , .		0
4750	Convolutional Neural Network (CNN) toÂReduce Construction Loss inÂJPEG Compression Caused byÂDiscrete Fourier Transform (DFT). Communications in Computer and Information Science, 2024, , 290-298.	0.4	0
4751	Hydrological Image Data Enhancement Based on Generative Adversarial Network and Image Pyramid Mechanism., 2023,,.		0
4752	LatentCluster: Clustering GANs Latent Space for Massive Conditional Sampling. , 2023, , .		0

#	Article	IF	CITATIONS
4754	Detection of Breast Cancer in Mammography Using Pretrained Convolutional Neural Networks with Fine-Tuning. Transactions on Computational Science and Computational Intelligence, 2024, , 225-248.	0.3	0
4756	GAF and CBAM-ResNet: An Efficient Combination for Identifying the Degree of Safety Valve Leakage. , 2023, , .		0
4758	Enhancing the Performance of Multi-Objective Regression for Pelvic Organ Prolapse Prediction via Data Augmentation., 2023,,.		0
4760	Data Augmentation Based on Active Virtual Sample Selection for Bearing Fault Diagnosis., 2023,,.		0
4761	D-Score: A White-Box Diagnosis Score forÂCNNs Based onÂMutation Operators. Lecture Notes in Computer Science, 2023, , 343-358.	1.0	0
4762	Exploring CycleGAN for Bias Reduction in Gender Classification: Generative Modelling for Diversifying Data Augmentation. Lecture Notes in Computer Science, 2023, , 26-40.	1.0	0
4763	Synergizing Chest X-ray Image Normalization andÂDiscriminative Feature Selection forÂEfficient andÂAutomatic COVID-19 Recognition. Lecture Notes in Computer Science, 2023, , 216-229.	1.0	0
4767	PMGN Data Augmentation: Pioneering Imbalance Correction in Security Data Analysis., 2023,,.		0
4771	Radio Frequency Fingerprints Identification based on GAN Networks. , 2023, , .		0
4772	Australian Animal Species Selection and Image Data Collection. , 2023, , .		0
4778	CertPri: Certifiable Prioritization for Deep Neural Networks via Movement Cost in Feature Space. , 2023, , .		0
4780	ATOM: Automated Black-Box Testing of Multi-Label Image Classification Systems. , 2023, , .		0
4787	Adaptive Speech Recognition via Dual-Level Sequential Pseudo Labels. , 2023, , .		0
4791	Data Augmentation Approaches Using Cycle Consistent Adversarial Networks. , 2023, , 111-131.		0
4794	Land Cover Classification Using Remote Sensing andÂSupervised Convolutional Neural Networks. Communications in Computer and Information Science, 2024, , 13-24.	0.4	0
4795	Geometric Transformations-Based Medical Image Augmentation. , 2023, , 133-141.		0
4799	A Novel Network Architecture forÂMicroplankton Classification inÂDigital Holographic Images. Lecture Notes in Computer Science, 2023, , 473-482.	1.0	0
4800	On the Effectiveness of Graph Data Augmentation for Source Code Learning. , 2023, , .		O

#	ARTICLE	IF	CITATIONS
4802	A Comprehensive and Credible Assessment Method for Model Adversarial Robustness under Modulated Signal Identification. , 2023, , .		0
4807	Image Remapping Data Augmentation Approach for Improving Fisheye Face Recognition., 2023,,.		O
4810	Image Augmentation with Convolutional Neural Networks. , 2023, , .		0
4817	A Novel Knowledge Distillation Technique for Colonoscopy and Medical Image Segmentation. Smart Innovation, Systems and Technologies, 2023, , 85-97.	0.5	0
4820	A Data Augmentation Algorithm for Trajectory Data. , 2023, , .		0
4822	The Danger of Minimum Exposures: Understanding Cross-App Information Leaks on iOS through Multi-Side-Channel Learning. , 2023, , .		O
4827	Arabic-Latin Scene Text Detection based on YOLO Models. , 2023, , .		0
4834	Generative Adversarial Networks. , 2023, , .		0
4835	CNN and Transfer Learning Modeling for Jujube Spices Recognition. , 2023, , .		0
4837	Classification of Retinal Fundus Images using VGG16 and Inception V3., 2023,,.		O
4838	Detection of Covid Disease using Computed Tomography Images. , 2023, , .		0
4839	Performance Analysis of Dimensionality Reduction Techniques for Datasets using Deep Learning. , 2023, , .		O
4843	Restore Translation Using Equivariant Neural Networks. Communications in Computer and Information Science, 2024, , 583-603.	0.4	0
4846	Real-Time Instance Segmentation andÂTip Detection forÂNeuroendoscopic Surgical Instruments. Communications in Computer and Information Science, 2024, , 579-593.	0.4	0
4847	Dynamic Data Augmentation viaÂMonte-Carlo Tree Search forÂProstate MRI Segmentation. Communications in Computer and Information Science, 2024, , 272-282.	0.4	1
4850	Real-time Translation of American Sign Language into Text Using Machine Learning. , 2023, , .		0
4853	Facial Emotion Recognition Under Mask Coverage Using a Data Augmentation Technique., 2023,,.		0
4858	The Heterogeneity-Intensified and Heterogeneity Ratio-Stratified Bootstrap (HiS- and HeRS-Boot) Oversampling to Boost a Detector Performance. , 2023, , .		O

#	Article	IF	CITATIONS
4859	Segment-based and Patient-based Segmentation of CTPA Image in Pulmonary Embolism using CBAM ResU-Net. , 2023, , .		0
4862	Deep Neural Network for Underwater Microplankton Classification using Holograms. , 2023, , .		0
4870	An Adversarial Active Sampling-Based Data Augmentation Framework for Al-Assisted Lithography Modeling. , 2023, , .		0
4871	Augmented Reality (AR) Application Superimposing theÂFalling Risks ofÂOlder Adults inÂResidential Settings andÂCoping Strategies: Building anÂImage-Based Scene Detection Model. Lecture Notes in Computer Science, 2023, , 117-124.	1.0	O
4875	LaneNet++: Uncertainty-Aware Lane Detection forÂAutonomous Vehicle. Lecture Notes in Computer Science, 2023, , 245-258.	1.0	0
4880	Random Padding Data Augmentation. Communications in Computer and Information Science, 2024, , 3-18.	0.4	0
4881	Automated Ensemble Deep Learning for Chest X-Ray Covid-19 Image Classification Using Multiple Hyperparameter Optimizations. , 2023, , .		0
4882	Mitigating theÂAdverse Effects ofÂLong-Tailed Data onÂDeep Learning Models. Communications in Computer and Information Science, 2024, , 150-162.	0.4	0
4886	Classification of breast ultrasound images in BI-RADS categories using binary decomposition strategies with convolutional neural networks. , 2023, , .		0
4888	What Are We Automating? On the Need for Vision and Expertise When Deploying Al Systems. , 2024, , 17-43.		O
4889	Detecting Gastro-Intestinal Cancer from Wireless Capsule Endoscopy Images using Efficient Net Model., 2023,,.		0
4890	Multiclass Skin Disease Classification within Dermoscopic Images Using Deep Neural Networks. , 2023, ,		0
4893	Performance Evaluation of EfficientNetB0, EfficientNetV2, and MobileNetV3 for American Sign Language Classification., 2023,,.		0
4912	EMaGer: A Wearable Full-Circumference HD-EMG Sensor and Data Augmentation Method for Robust Hand Gesture Recognition. , 2023, , .		O
4913	Car Body Damage Detection System Using YOLOv7., 2023,,.		0
4917	Measuring Ground Cover in Long Term Hill Country Photography using Weakly Supervised Convolutional Neural Networks. , 2023, , .		O
4920	Towards Efficient Record and Replay: A Case Study in WeChat. , 2023, , .		0
4930	Diffusion Model with Clustering-based Conditioning for Food Image Generation. , 2023, , .		1

#	Article	IF	Citations
4931	Detection and Classification of Copra Meat Dryness Using Faster Region-Based Convolutional Neural Network with Inception $\nu 2$ Architecture., 2023,,.		0
4932	Zero-Shot Learning by Harnessing Adversarial Samples. , 2023, , .		1
4935	Robust Representation Learning for Speech Emotion Recognition with Moment Exchange. , 2023, , .		0
4937	Wavelet and Cutout in YOLO Architecture for Road Pothole Detection., 2023,,.		1
4940	DeltaNN: Assessing the Impact of Computational Environment Parameters on the Performance of Image Recognition Models., 2023,,.		0
4943	Automated Nonverbal Cue Detection in Political-Debate Videos: An Optimized RNN-LSTM Approach. Communications in Computer and Information Science, 2024, , 32-40.	0.4	0
4944	A Comprehensive Review on the Application of 3D Convolutional Neural Networks in Medical Imaging. , 0, , .		0
4946	Empirical Study of Mix-based Data Augmentation Methods in Physiological Time Series Data. , 2023, , .		0
4948	Enhancing Value Estimation Policies by Post-Hoc Symmetry Exploitation in Motion Planning Tasks. , 2023, , .		0
4950	RADA: Robust Adversarial Data Augmentation for Camera Localization in Challenging Conditions. , 2023, , .		0
4955	Multi-type Vehicle Detection and Classification Using YOLOV5., 2023,,.		1
4957	Improved U-Net Performance with Augmentation for Retinal Optic Segmentation., 2023,,.		0
4958	Generalization Ability in Medical Image Analysis with Small-Scale Imbalanced Datasets: Insights from Neural Network Learning. Lecture Notes in Computer Science, 2023, , 234-246.	1.0	0
4963	Histogram Equalization Methodologies Comparison for Deep Learning model in Fetal Heart Image Semantic Segmentation., 2023,,.		0
4964	Image-to-image Translation for Enlargement of Aircraft Skin Defect Datasets. , 2023, , .		0
4965	Analysis of Methods of Augmentation of Images of the Branding of Cast Billet at A. A. Ugarov Oskol Electrometallurgical Plant., 2023, , .		0
4967	EARLY: A Tool for Real-Time Security Attack Detection. , 2024, , 225-251.		0
4968	Glaucoma Detection Using CNN and Study on Class Imbalance Problem. Lecture Notes in Networks and Systems, 2023, , 187-198.	0.5	O

#	Article	IF	CITATIONS
4971	Evaluating the Quality and Diversity of DCGAN-Based Generatively Synthesized Diabetic Retinopathy Imagery. Studies in Computational Intelligence, 2023, , 83-109.	0.7	O
4972	Analysis ofÂGAN-Based Data Augmentation forÂGI-Tract Disease Classification. Studies in Computational Intelligence, 2023, , 43-64.	0.7	0
4979	Open-Set Face Recognition with Neural Ensemble, Maximal Entropy Loss and Feature Augmentation. , 2023, , .		0
4981	SRAM Memory Testing Methods and Analysis. Advances in Systems Analysis, Software Engineering, and High Performance Computing Book Series, 2023, , 295-317.	0.5	0
4984	Development of robot semi-autonomous control method for teleoperation support in nuclear power plants., 2023,,.		0
4985	Analysis of the Monkeypox Outbreak Using CNN Model: A Systematic Review. , 2023, , .		0
4989	A Location-Independent Flood Prediction Model for Bangladesh's Rivers. , 2023, , .		0
4990	Synthetic Data for 2D Road Marking Detection in Autonomous Driving. , 0, , .		0
4992	Learning approaches and tricks. Unsupervised and Semi-supervised Learning, 2024, , 105-130.	0.4	0
4993	Application of the image detection technology on dairy goat management. , 2023, , .		0
5002	InterAug: A Tuning-Free Augmentation Policy for Data-Efficient and Robust Object Detection., 2023,,.		0
5003	OMG-Attack: Self-Supervised On-Manifold Generation of Transferable Evasion Attacks., 2023,,.		0
5004	Artificial Dataset Generation for Modeling and Simulation of Shared Electric Automated and Connected Mobility Systems with Autonomous Repositioning: A Survey., 2023,,.		0
5005	Exploring Inlier and Outlier Specification for Improved Medical OOD Detection. , 2023, , .		0
5006	Aster: Encoding Data Augmentation Relations into Seed Test Suites for Robustness Assessment and Fuzzing of Data-Augmented Deep Learning Models., 2023,,.		0
5007	Ripeness Classification of Cavendish Bananas using Multi-object Detection Approach. , 2023, , .		0
5008	Data Augmentation Method for Improving Object Detection Accuracy of Recumbent Human in Disaster. Lecture Notes on Data Engineering and Communications Technologies, 2024, , 354-364.	0.5	0
5009	Movie Sentiment Analysis Using Data Augmentation And LSTM-Recurrent Neural Network. , 2023, , .		0

#	Article	IF	CITATIONS
5016	Recognition of Masked Facial Expressions Based on Convolutional Neural Networks and Data Augmentation. , 2023, , .		0
5017	An Evolutionary Approach toÂAutomated Class-Specific Data Augmentation forÂlmage Classification. Lecture Notes in Computer Science, 2024, , 170-185.	1.0	0
5019	Application of Data Augmentation on SSD Mobilenet for Detection of Kenaf Plant Disease and Pest. , 2023, , .		0
5025	Robust Radar Micro-Doppler Target Classification of Small Drones by Data Augmentation. , 2023, , .		0
5029	Classification of Subspecies of Honey Bees using Convolutional Neural Network. , 2023, , .		0
5030	Generative AI Enables EEG Data Augmentation for Alzheimer's Disease Detection Via Diffusion Model. , 2023, , .		0
5047	tf.data service., 2023,,.		1
5055	High-Fidelity Synthetic Data Applications for Data Augmentation. Artificial Intelligence, 0, , .	2.0	1
5067	Utilizing Graph Neural Networks for Breast Cancer Prognosis Prediction with High-dimensional Genomic Data., 2023,,.		0
5071	SOFTCUTMIX: Data Augmentation and Algorithmic Enhancements for Cross-Modality Person Re-Identification., 2023,,.		0
5073	Feasibility Study of Breast Cancer Detection Using Microwave Imaging with the Machine Learning Approach., 2023,,.		0
5076	Identification of Rice Leaf Diseases Using CNN and Transfer Learning Models. , 2023, , .		0
5077	ResNet50-based classification of footwear in nuclear power plants surveillance images., 2023,,.		0
5083	Multimodal and Multitask Approaches for Cataract Grading. , 2024, , .		0
5088	Medical Plants Identification Using Leaves Based on Convolutional Neural Networks. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2024, , 163-171.	0.2	0
5105	Detecting Targeted Phishing Websites for Brand Protection and Cyber Defence Using Computer Vision. , 2023, , .		0
5109	Probabilistic Linguistic Knowledge and Token-Level Text Augmentation. Signals and Communication Technology, 2024, , 1-20.	0.4	0
5112	Data Augmentation Method on Drone Object Detection with YOLOv5 Algorithm. , 2023, , .		1

#	Article	IF	Citations
5118	Automated Plant Disease Detection Using Efficient Deep Ensemble Learning Model for Smart Agriculture. Advances in Media, Entertainment and the Arts, 2024, , 318-336.	0.0	0
5120	Al on Oral Mucosal Lesion Detection. , 2023, , 143-176.		0
5133	Random Boxes Are Open-world Object Detectors. , 2023, , .		0
5134	Better May Not Be Fairer: A Study on Subgroup Discrepancy in Image Classification. , 2023, , .		0
5136	Shift from Texture-bias to Shape-bias: Edge Deformation-based Augmentation for Robust Object Recognition., 2023,,.		0
5137	Diverse Data Augmentation with Diffusions for Effective Test-time Prompt Tuning. , 2023, , .		0
5138	HSE: Hybrid Species Embedding for Deep Metric Learning. , 2023, , .		0
5139	MixBag: Bag-Level Data Augmentation for Learning from Label Proportions. , 2023, , .		0
5141	Reusing Deep Learning Models: Challenges and Directions in Software Engineering., 2023,,.		0
5142	Enhancing Sample Utilization through Sample Adaptive Augmentation in Semi-Supervised Learning. , 2023, , .		1
5143	Waffling around for Performance: Visual Classification with Random Words and Broad Concepts. , 2023, , .		0
5144	The Perils of Learning From Unlabeled Data: Backdoor Attacks on Semi-supervised Learning. , 2023, , .		0
5145	Domain Generalization via Rationale Invariance. , 2023, , .		1
5149	Efficient Plant Leaf Disease Detection Using aÂCustomized Convolutional Neural Network. Lecture Notes in Networks and Systems, 2024, , 383-394.	0.5	O
5153	Research on Surface Defect Detection Methods for Electronic Components. , 2023, , .		0
5154	REAF: ROI Extraction and Adaptive Fusion for Breast Cancer Diagnosis in Ultrasound Images., 2023,,.		O
5155	Postural Sway Classification using Modified Vision Transformer. , 2023, , .		0
5156	Accurately Identifying Muscle-Invasive Bladder Cancer from MRI via Weakly Supervised Learning. , 2023, , .		O

#	Article	IF	Citations
5165	Harnessing data from benchmark testing for the development of spalling detection techniques using deep learning., 2024,, 255-273.		0
5166	Combined Data Augmentation forÂHEp-2 Cells Image Classification. Lecture Notes in Computer Science, 2024, , 104-115.	1.0	0
5172	Uncertainty Estimation for a Dual-Embedding based Entity Extraction Service. , 2023, , .		0
5173	Enhancing the Classification Accuracy using CNN, GANs, and data Augmentation Techniques., 2023,,.		O
5174	Deep Learning Based Privacy Preserving for Object Classification Using High-Resolution Satellite Images. , 2023, , .		0
5175	Intelligent Watermarking for Data Security. Advances in Systems Analysis, Software Engineering, and High Performance Computing Book Series, 2023, , 262-282.	0.5	0
5176	Sustainable Advanced Techniques for Enhancing the Image Process. Impact of Meat Consumption on Health and Environmental Sustainability, 2024, , 350-374.	0.4	1
5183	Research on Surface Defect Detection in Submersible Pump Impellers Based on the Novel MXNet Deep Learning Model. , 2023, , .		0
5184	Pest and Disease Detection Based on Data Augmentation. , 2023, , .		0
5186	Segregation of Dehusked Arecanut using Artificial Intelligence Technique on Raspberry Pi. , 2023, , .		0
5187	Personality Detection Based on Tree Drawing Using Convolutional Neural Network., 2023, , .		0
5194	SEM: A Simple Yet Efficient Model-agnostic Local Training Mechanism to Tackle Data Sparsity and Scarcity in Federated Learning. , 2023, , .		0
5195	Cataract Disease Identification Using Transformer and Convolution Neural Network: A Novel Framework., 2023,,.		0
5198	Comparison of Data Augmentation Techniques for Training CNNs to Detect Pneumonia from Chest X-Ray Images. , 2023, , .		0
5199	Convolutional Neural Network for Pleural Effusion Classification. , 2023, , .		0
5201	Mice PET/CT Dataset Augmentation Using a 3D-Progressive Growing GAN., 2022,,.		1
5203	Real-Time Facial Expression Detection System for Amplifying User Experience and Feedback Collection. , 2023, , .		0
5207	Image Segmentation using Deep Neural Network for the Autonomous Aerial Refueling Mission. , 2024, , .		0

#	ARTICLE	IF	CITATIONS
5209	Deep Neural Network-Based Visual Identification of Naval Surface Vessels. , 2024, , .		0
5211	Choroidal Nevi Classification in Fundus Images Using a Patch-Based Deep Learning Approach. , 2023, , .		0
5212	Data augmentation for inertial sensor based human action recognition using deep learning. AIP Conference Proceedings, 2024, , .	0.3	0
5213	Sensor Data Fusion for Improving Out of Domain Performance on SAR Image Classification. , 2024, , .		O
5215	Exemplar-Free Continual Learning in Vision Transformers via Feature Attention Distillation. , 2023, , .		0
5216	REIN: Reusing ImageNet to Improve Open-set Object Detection., 2023,,.		0
5217	An Adaptive Optimization Random Forest Algorithm for Water Quality Data Anomaly Detection. , 2023, , .		0
5218	Scenario-Based Synthetic Data Generation for an Al-based System Using a Flight Simulator. , 2024, , .		0
5219	Modified Snapshot Ensemble Algorithm forÂSkin Lesion Classification. Communications in Computer and Information Science, 2024, , 150-159.	0.4	0
5223	Tomato Ripeness Evaluation and Localization Using Mask R-CNN and DBSCAN Clustering. , 2023, , .		0
5224	Comparative Study of Deep Learning Model for Transient Image Classification. , 2023, , .		0
5232	Review of Al-Based Vision Detection Algorithms for Autonomous Mobile Robots. Lecture Notes in Networks and Systems, 2024, , 134-141.	0.5	0
5244	Intrusion object recognition of rail perimeter using an improved YOLOv5 algorithm. , 2023, , .		0
5249	Data Augmentation with Pseudo-Infrared Night-Vision Image Conversion for Improved Nighttime Object Detection., 2023,,.		0
5251	Enhancing Respiratory Diseases Detection Using GAN Augmentation and Transfer Learning., 2023,,.		0
5255	GMMDA: Gaussian Mixture Modeling of Graph in Latent Space for Graph Data Augmentation. , 2023, , .		0
5256	Potato Leaf Disease Detection Using the Convolutional Neural Network. , 2023, , .		0
5258	Modularizing while Training: A New Paradigm for Modularizing DNN Models. , 2024, , .		O

#	Article	IF	CITATIONS
5259	Parallel Dense Vision Transformer andÂAugmentation Network forÂOccluded Person Re-identification. Lecture Notes in Computer Science, 2024, , 138-153.	1.0	0
5263	Bidirectional Integrated Prediction: A Method to Improve the Accuracy of Image Classification. , 2023, , .		0
5270	Fourier Domain Adaptation for Image Augmentation in CNN-based Pneumonia Classification., 2023,,.		0
5276	Federated Learning for Breast Cancer Classification. Advances in Medical Diagnosis, Treatment, and Care, 2024, , 238-273.	0.1	0
5278	Optimizing Aortic Segmentation withÂanÂlnnovative Quality Assessment: The Role ofÂGlobal Sensitivity Analysis. Lecture Notes in Computer Science, 2024, , 110-126.	1.0	0
5281	Data-Augmented Few-Shot Object Detection for Efficient Identification of Invasive Weed Seedlings. , 2023, , .		0
5283	Using an Optimal then Enhanced YOLO Model for Multi-Lingual Scene Text Detection Containing the Arabic Scripts. Lecture Notes in Computer Science, 2024, , 451-464.	1.0	0
5284	A Holistic Approach toÂElderly Safety: Sensor Fusion, Fall Detection, andÂPrivacy-Preserving Techniques. Lecture Notes in Computer Science, 2024, , 380-393.	1.0	0
5286	Enhancing Official Policy Document Classification with BERT and Keyword Augmentation., 2023,,.		0
5294	Enhancing Human Activity Recognition Performance in Small-Sample Wi-Fi Sensing Using Data Augmentation Methods. , 2023, , .		0
5296	Analyzing and Comparing Results for Multiple Machine Learning Models., 2023,,.		0
5297	Identification of Sukun (Artocarpus altilis) and Kluwih (Artocarpus camansi) Leaves using Transfer Learning., 2023,,.		0
5299	MMDBench: A Benchmark forÂHybrid Query inÂMultimodal Database. Lecture Notes in Computer Science, 2024, , 87-103.	1.0	0
5303	Skin Cancer Diagnosis and Detection Using Deep Learning. , 2023, , .		0
5305	Convolutional Neural Networks and Feature-Visualization for Pathology Classification in Mammograms. IFMBE Proceedings, 2024, , 438-446.	0.2	0
5309	Generation ofÂSynthetic X-Rays Images ofÂRib Fractures Using aÂ2D Enhanced Alpha-GAN forÂData Augmentation. Lecture Notes in Networks and Systems, 2024, , 288-297.	0.5	0
5311	Digital holography with deep learning for algae identification and classification. , 2024, , .		0
5312	EfficientAD: A Deep Learning Approach for Multi-Stage AD Classification Using Transfer Learning. , 2023, , .		0

#	Article	IF	Citations
5313	Raw Coffee Bean Classification for Roasting Suitability Assessment Using Transfer Learning. , 2023, , .		0
5319	Research on Prediction of the Effects of Oil-Increasing Measures Driven by Data. Springer Series in Geomechanics and Geoengineering, 2024, , 21-30.	0.0	O
5321	A Novel Deep Learning Method for Segmenting the Left Ventricle in Cardiac Cine MRI. , 2024, , .		0
5323	MAFF: A Novel MobileNetV3 Attention Feature Fusion Network for Automatic Vehicle Classification. , 2023, , .		O
5339	Analysis ofÂGenerative Data Augmentation forÂFace Antispoofing. Lecture Notes in Computer Science, 2024, , 69-94.	1.0	0
5357	Generating Realistic X-ray Images Using GANs. , 2023, , .		0
5367	Detection of Water Hyacinth (Eichhornia crassipes) on the Water Surface of Pasig River, Philippines, through YOLOv7., 2023,,.		0
5371	EndoEye: A Marker-Based Artificial Intelligence Monitoring System for Endotracheal Tube Displacement. , 2024, , .		O
5373	Advancements in Machine Learning and Computer Vision Approaches for Food and Nutrient Recognition from Images: A Survey. Lecture Notes in Networks and Systems, 2024, , 163-174.	0.5	0
5375	Semi-supervised Modulation Recognition Greatly Improved by Strong Data Augmentation. Lecture Notes in Electrical Engineering, 2024, , 387-394.	0.3	0
5379	Noisy-label learning techniques. , 2024, , 93-191.		0
5383	Deep Learning-Based Blood Cell Disease Classification: A CNN-Enhanced Approach for Accurate Hematological Diagnosis and Treatment. , 2023, , .		О
5386	Deep Feature-Based Matching of High-Resolution Multitemporal Images Using VGG16 and VGG19 Algorithms. Lecture Notes in Networks and Systems, 2024, , 516-521.	0.5	0
5387	Multi-Modal MRI Images Analysis for Improved Herniated Disc Diagnosis Using Deep Learning. Advances in Medical Diagnosis, Treatment, and Care, 2024, , 65-80.	0.1	0
5388	LEAD: Liberal Feature-based Distillation for Dense Retrieval. , 2024, , .		0
5391	Robust and Real-Time Detection of Underwater Sonar Image Representations by Using Fast Transferred Design Learning Method. Advances in Logistics, Operations, and Management Science Book Series, 2024, , 248-279.	0.3	0
5394	A Novel Human Embryo Microscope Image Classification Technique Based on ConvNeXtLarge Model. Advances in Medical Diagnosis, Treatment, and Care, 2024, , 224-238.	0.1	0
5395	Generative Adversarial Network (GAN) Based Data Augmentation for Enhancing DL Models on Façade Defect Identification. , 2024, , .		0

#	Article	IF	CITATIONS
5396	Training Data Sensitivity Analysis of Deep Neural Network for Differentiating Construction Laborers with/without Safety Helmets. , 2024, , .		0
5399	Comparing Different Deep-Learning Models for Classifying Masses in Ultrasound Images. Lecture Notes in Electrical Engineering, 2024, , 318-328.	0.3	0
5408	An Overview on Data Augmentation for Machine Learning. Lecture Notes in Networks and Systems, 2024, , 143-154.	0.5	0
5412	Early Diagnosis of Parkinson's Disease Based on Spiral and Wave Drawings Using Convolutional Neural Networks and Machine Learning Classifier. Communications in Computer and Information Science, 2024, , 245-255.	0.4	0
5413	Performance of GAN-based augmentation for deep learning COVID-19 image classification. AIP Conference Proceedings, 2024, , .	0.3	0
5418	Enhancing Skin Lesion Classification with Ensemble Data Augmentation and Convolutional Neural Networks. EAI/Springer Innovations in Communication and Computing, 2024, , 131-145.	0.9	0
5422	Data Augmentation forÂTraffic Classification. Lecture Notes in Computer Science, 2024, , 159-186.	1.0	0
5423	MixUp Data Augmentation forÂHandwritten Arabic Mathematical Symbols Recognition. Communications in Computer and Information Science, 2024, , 17-30.	0.4	0
5436	Improving Explainable Object-induced Model through Uncertainty for Automated Vehicles. , 2024, , .		0
5438	Measuring Running Performance Through Technology: A Brief Review. Lecture Notes in Mechanical Engineering, 2024, , 263-272.	0.3	0
5447	Segmentation of Bridge Components from Various Real Scene Inspection Images. , 2024, , .		0
5456	Image Classification Algorithm Based on Improved Soft Thresholding and Residual Network. Lecture Notes in Electrical Engineering, 2024, , 231-239.	0.3	0
5457	Research onÂModel Evaluation Technology Based onÂModulated Signal Identification. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2024, , 79-90.	0.2	0
5459	Regression activation mapping detects the characteristic microstructures of rock physical properties: Insights from the combination of digital rock physics and convolutional neural networks. , 2024, , .		0
5460	A Lightweight Fault Diagnosis Model ofÂRolling Bearing Based onÂGramian Angular Field andÄEfficientNet-BO. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2024, , 188-199.	0.2	0
5468	Multi-lingual Scene Text Detection Containing the Arabic Scripts Using an Optimal then Enhanced YOLO Model. Communications in Computer and Information Science, 2024, , 47-61.	0.4	0