

Text Data Augmentation for Deep Learning

Journal of Big Data

8, 101

DOI: [10.1186/s40537-021-00492-0](https://doi.org/10.1186/s40537-021-00492-0)

Citation Report

#	ARTICLE	IF	CITATIONS
1	Recent advances of deep learning in psychiatric disorders. <i>Precision Clinical Medicine</i> , 2020, 3, 202-213.	1.3	16
2	A Survey of Deep Learning for Lung Disease Detection on Medical Images: State-of-the-Art, Taxonomy, Issues and Future Directions. <i>Journal of Imaging</i> , 2020, 6, 131.	1.7	55
3	Hybrid-COVID: a novel hybrid 2D/3D CNN based on cross-domain adaptation approach for COVID-19 screening from chest X-ray images. <i>Physical and Engineering Sciences in Medicine</i> , 2020, 43, 1415-1431.	1.3	29
4	Early Prediction of Single-Cell Derived Sphere Formation Rate Using Convolutional Neural Network Image Analysis. <i>Analytical Chemistry</i> , 2020, 92, 7717-7724.	3.2	14
5	Video Image Enhancement and Machine Learning Pipeline for Underwater Animal Detection and Classification at Cabled Observatories. <i>Sensors</i> , 2020, 20, 726.	2.1	40
6	COVID-19 open source data sets: a comprehensive survey. <i>Applied Intelligence</i> , 2021, 51, 1296-1325.	3.3	145
7	A generative flow-based model for volumetric data augmentation in 3D deep learning for computed tomographic colonography. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2021, 16, 81-89.	1.7	11
8	COVID-19 detection and disease progression visualization: Deep learning on chest X-rays for classification and coarse localization. <i>Applied Intelligence</i> , 2021, 51, 1010-1021.	3.3	127
9	Deep Learning and Its Application to Function Approximation for MR in Medicine: An Overview. <i>Magnetic Resonance in Medical Sciences</i> , 2022, 21, 553-568.	1.1	2
10	A machine learning-based framework for diagnosis of COVID-19 from chest X-ray images. <i>Interdisciplinary Sciences, Computational Life Sciences</i> , 2021, 13, 103-117.	2.2	129
11	COVINet: a convolutional neural network approach for predicting COVID-19 from chest X-ray images. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 2022, 13, 535-547.	3.3	67
12	Review of deep learning: concepts, CNN architectures, challenges, applications, future directions. <i>Journal of Big Data</i> , 2021, 8, 53.	6.9	2,200
13	Transfer learning-based ensemble support vector machine model for automated COVID-19 detection using lung computerized tomography scan data. <i>Medical and Biological Engineering and Computing</i> , 2021, 59, 825-839.	1.6	66
14	A novel multiple instance learning framework for COVID-19 severity assessment via data augmentation and self-supervised learning. <i>Medical Image Analysis</i> , 2021, 69, 101978.	7.0	40
15	COVID-19 in the Age of Artificial Intelligence: A Comprehensive Review. <i>Interdisciplinary Sciences, Computational Life Sciences</i> , 2021, 13, 153-175.	2.2	34
16	A new strategy to map landslides with a generalized convolutional neural network. <i>Scientific Reports</i> , 2021, 11, 9722.	1.6	51
17	Machine learning to determine the main factors affecting creep rates in laser powder bed fusion. <i>Journal of Intelligent Manufacturing</i> , 2021, 32, 2353-2373.	4.4	13
18	Developments in data science solutions for carnivore tooth pit classification. <i>Scientific Reports</i> , 2021, 11, 10209.	1.6	30

#	ARTICLE	IF	CITATIONS
19	CovidXrayNet: Optimizing data augmentation and CNN hyperparameters for improved COVID-19 detection from CXR. <i>Computers in Biology and Medicine</i> , 2021, 133, 104375.	3.9	77
20	A voting-based ensemble deep learning method focusing on image augmentation and preprocessing variations for tuberculosis detection. <i>Neural Computing and Applications</i> , 2021, 33, 15541-15555.	3.2	40
21	DenseNet Convolutional Neural Networks Application for Predicting COVID-19 Using CT Image. <i>SN Computer Science</i> , 2021, 2, 389.	2.3	63
22	A BERT model generates diagnostically relevant semantic embeddings from pathology synopses with active learning. <i>Communications Medicine</i> , 2021, 1, .	1.9	6
23	Improving effectiveness of different deep learning-based models for detecting COVID-19 from computed tomography (CT) images. <i>Neural Computing and Applications</i> , 2021, 33, 17589-17609.	3.2	17
24	Timeâ€“Frequency Decomposition of Scalp Electroencephalograms Improves Deep Learning-Based Epilepsy Diagnosis. <i>International Journal of Neural Systems</i> , 2021, 31, 2150032.	3.2	20
25	Automatic segmentation of brain metastases using T1 magnetic resonance and computed tomography images. <i>Physics in Medicine and Biology</i> , 2021, 66, 175014.	1.6	21
26	Medical imaging and computational image analysis in COVID-19 diagnosis: A review. <i>Computers in Biology and Medicine</i> , 2021, 135, 104605.	3.9	26
27	Deep insight: Convolutional neural network and its applications for COVID-19 prognosis. <i>Biomedical Signal Processing and Control</i> , 2021, 69, 102814.	3.5	21
28	Linking Human And Machine Behavior: A New Approach to Evaluate Training Data Quality for Beneficial Machine Learning. <i>Minds and Machines</i> , 2021, 31, 563-593.	2.7	14
29	Development of a yoga posture coaching system using an interactive display based on transfer learning. <i>Journal of Supercomputing</i> , 2022, 78, 5269-5284.	2.4	25
30	Deep learning and lung ultrasound for Covid-19 pneumonia detection and severity classification. <i>Computers in Biology and Medicine</i> , 2021, 136, 104742.	3.9	43
31	Learning-to-augment strategy using noisy and denoised data: Improving generalizability of deep CNN for the detection of COVID-19 in X-ray images. <i>Computers in Biology and Medicine</i> , 2021, 136, 104704.	3.9	33
32	A comprehensive survey of recent trends in deep learning for digital images augmentation. <i>Artificial Intelligence Review</i> , 2022, 55, 2351-2377.	9.7	91
33	A Joint Multitask Learning Model for Cross-sectional and Longitudinal Predictions of Visual Field Using OCT. <i>Ophthalmology Science</i> , 2021, 1, 100055.	1.0	7
34	Patterns of Pretreatment Reward Task Brain Activation Predict Individual Antidepressant Response: Key Results From the EMBARC Randomized Clinical Trial. <i>Biological Psychiatry</i> , 2022, 91, 550-560.	0.7	9
35	Classification of COVID-19 in X-ray images with Genetic Fine-tuning. <i>Computers and Electrical Engineering</i> , 2021, 96, 107467.	3.0	7
36	Coronavirus disease analysis using chest X-ray images and a novel deep convolutional neural network. <i>Photodiagnosis and Photodynamic Therapy</i> , 2021, 35, 102473.	1.3	36

#	ARTICLE	IF	CITATIONS
37	Hybrid COVID-19 segmentation and recognition framework (HMB-HCF) using deep learning and genetic algorithms. <i>Artificial Intelligence in Medicine</i> , 2021, 119, 102156.	3.8	20
38	Three-dimensional map of Descemet membrane endothelial keratoplasty detachment: development and application of a deep learning model. <i>Ophthalmology Science</i> , 2021, , 100067.	1.0	4
39	Diagnosis of Pediatric Pneumonia with Ensemble of Deep Convolutional Neural Networks in Chest X-Ray Images. <i>Arabian Journal for Science and Engineering</i> , 2022, 47, 2123-2139.	1.7	37
40	Randomly initialized convolutional neural network for the recognition of COVID-19 using X-ray images. <i>International Journal of Imaging Systems and Technology</i> , 2022, 32, 55-73.	2.7	37
41	A comparative analysis of eleven neural networks architectures for small datasets of lung images of COVID-19 patients toward improved clinical decisions. <i>Computers in Biology and Medicine</i> , 2021, 139, 104887.	3.9	25
42	Weakly unsupervised conditional generative adversarial network for image-based prognostic prediction for COVID-19 patients based on chest CT. <i>Medical Image Analysis</i> , 2021, 73, 102159.	7.0	11
43	COVID-19 detection in chest X-ray images using deep boosted hybrid learning. <i>Computers in Biology and Medicine</i> , 2021, 137, 104816.	3.9	52
44	CovH2SD: A COVID-19 detection approach based on Harris Hawks Optimization and stacked deep learning. <i>Expert Systems With Applications</i> , 2021, 186, 115805.	4.4	41
45	Learning-Based Cancer Treatment Outcome Prognosis Using Multimodal Biomarkers. <i>IEEE Transactions on Radiation and Plasma Medical Sciences</i> , 2022, 6, 231-244.	2.7	1
46	Robust chest CT image segmentation of COVID-19 lung infection based on limited data. <i>Informatics in Medicine Unlocked</i> , 2021, 25, 100681.	1.9	60
47	Automated Iterative Label Transfer Improves Segmentation of Noisy Cells in Adaptive Optics Retinal Images. <i>Lecture Notes in Computer Science</i> , 2021, 13003, 201-208.	1.0	0
48	Exploring optimal control of epidemic spread using reinforcement learning. <i>Scientific Reports</i> , 2020, 10, 22106.	1.6	19
49	Image-based shading correction for narrow-FOV truncated pelvic CBCT with deep convolutional neural networks and transfer learning. <i>Medical Physics</i> , 2021, 48, 7112-7126.	1.6	13
50	A Machine Learning Framework for Balancing Training Sets of Sensor Sequential Data Streams. <i>Sensors</i> , 2021, 21, 6892.	2.1	5
51	A deep learning approach in predicting products™ sentiment ratings: a comparative analysis. <i>Journal of Supercomputing</i> , 2022, 78, 7206-7226.	2.4	23
52	A deep learning approach using effective preprocessing techniques to detect COVID-19 from chest CT-scan and X-ray images. <i>Computers in Biology and Medicine</i> , 2021, 139, 105014.	3.9	56
53	Computer-aided COVID-19 diagnosis and a comparison of deep learners using augmented CXRs. <i>Journal of X-Ray Science and Technology</i> , 2022, 30, 89-109.	0.7	10
54	Medical image processing and COVID-19: A literature review and bibliometric analysis. <i>Journal of Infection and Public Health</i> , 2022, 15, 75-93.	1.9	28

#	ARTICLE	IF	CITATIONS
56	Learning Data Augmentation Schedules for Natural Language Processing. , 2021, , .		0
57	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
58	Image-Based Differentiation of Bacterial and Fungal Keratitis Using Deep Convolutional Neural Networks. Ophthalmology Science, 2022, 2, 100119.	1.0	22
59	General and custom deep learning autosegmentation models for organs in head and neck, abdomen, and male pelvis. Medical Physics, 2022, 49, 1686-1700.	1.6	16
60	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
61	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
62	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
63	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
64	Applications of Explainable Artificial Intelligence in Diagnosis and Surgery. Diagnostics, 2022, 12, 237.	1.3	100
65	A Computer Vision-Based Approach for Tick Identification Using Deep Learning Models. Insects, 2022, 13, 116.	1.0	8
66	Modified U-NET Architecture for Segmentation of Skin Lesion. Sensors, 2022, 22, 867.	2.1	72
67	Photometric Stereo-Based Defect Detection System for Steel Components Manufacturing Using a Deep Segmentation Network. Sensors, 2022, 22, 882.	2.1	7
68	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
69	SAM: Self-augmentation mechanism for COVID-19 detection using chest X-ray images. Knowledge-Based Systems, 2022, 241, 108207.	4.0	30
70	AI-Based Pipeline for Classifying Pediatric Medulloblastoma Using Histopathological and Textural Images. Life, 2022, 12, 232.	1.1	23
71	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
72	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
73	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

#	ARTICLE	IF	CITATIONS
74	Chest X-ray Classification for the Detection of COVID-19 Using Deep Learning Techniques. <i>Sensors</i> , 2022, 22, 1211.	2.1	66
76	Style-Consistent Image Translation: A Novel Data Augmentation Paradigm to Improve Plant Disease Recognition. <i>Frontiers in Plant Science</i> , 2021, 12, 773142.	1.7	19
77	Research Highlight: Use of Generative Images Created with Artificial Intelligence for Brain Tumor Imaging. <i>Korean Journal of Radiology</i> , 2022, 23, 500.	1.5	5
78	Transfer learning for data-efficient abdominal muscle segmentation with convolutional neural networks. <i>Medical Physics</i> , 2022, 49, 3107-3120.	1.6	5
79	Augmentation of Transcriptomic Data for Improved Classification of Patients with Respiratory Diseases of Viral Origin. <i>International Journal of Molecular Sciences</i> , 2022, 23, 2481.	1.8	6
80	A Deep Learning Image Data Augmentation Method for Single Tumor Segmentation. <i>Frontiers in Oncology</i> , 2022, 12, 782988.	1.3	5
81	Crop Pest Recognition in Real Agricultural Environment Using Convolutional Neural Networks by a Parallel Attention Mechanism. <i>Frontiers in Plant Science</i> , 2022, 13, 839572.	1.7	9
82	Introducing and applying Newtonian blurring: an augmented dataset of 126,000 human connectomes at braingraph.org . <i>Scientific Reports</i> , 2022, 12, 3102.	1.6	0
83	Kidney Tumor Semantic Segmentation Using Deep Learning: A Survey of State-of-the-Art. <i>Journal of Imaging</i> , 2022, 8, 55.	1.7	17
84	Three-dimensional deep learning to automatically generate cranial implant geometry. <i>Scientific Reports</i> , 2022, 12, 2683.	1.6	10
85	Study of Different Deep Learning Methods for Coronavirus (COVID-19) Pandemic: Taxonomy, Survey and Insights. <i>Sensors</i> , 2022, 22, 1890.	2.1	14
86	A Comprehensive Evaluation of Metabolomics Data Preprocessing Methods for Deep Learning. <i>Metabolites</i> , 2022, 12, 202.	1.3	4
87	Investigation of Eye-Tracking Scan Path as a Biomarker for Autism Screening Using Machine Learning Algorithms. <i>Diagnostics</i> , 2022, 12, 518.	1.3	27
88	Magnetic Resonance-Based Synthetic Computed Tomography Using Generative Adversarial Networks for Intracranial Tumor Radiotherapy Treatment Planning. <i>Journal of Personalized Medicine</i> , 2022, 12, 361.	1.1	3
89	ACTIVA: realistic single-cell RNA-seq generation with automatic cell-type identification using introspective variational autoencoders. <i>Bioinformatics</i> , 2022, 38, 2194-2201.	1.8	13
90	Patchless Multi-Stage Transfer Learning for Improved Mammographic Breast Mass Classification. <i>Cancers</i> , 2022, 14, 1280.	1.7	14
91	EDNC: Ensemble Deep Neural Network for COVID-19 Recognition. <i>Tomography</i> , 2022, 8, 869-890.	0.8	23
92	A Deep Learning-Based Workflow for Dendritic Spine Segmentation. <i>Frontiers in Neuroanatomy</i> , 2022, 16, 817903.	0.9	6

#	ARTICLE	IF	CITATIONS
93	DeepBiomarker: Identifying Important Lab Tests from Electronic Medical Records for the Prediction of Suicide-Related Events among PTSD Patients. <i>Journal of Personalized Medicine</i> , 2022, 12, 524.	1.1	7
94	High-throughput measurement of plant fitness traits with an object detection method using Faster R-CNN. <i>New Phytologist</i> , 2022, 234, 1521-1533.	3.5	7
95	Modality specific U-Net variants for biomedical image segmentation: a survey. <i>Artificial Intelligence Review</i> , 2022, 55, 5845-5889.	9.7	68
96	Motor-related signals support localization invariance for stable visual perception. <i>PLoS Computational Biology</i> , 2022, 18, e1009928.	1.5	7
97	Four Types of Multiclass Frameworks for Pneumonia Classification and Its Validation in X-ray Scans Using Seven Types of Deep Learning Artificial Intelligence Models. <i>Diagnostics</i> , 2022, 12, 652.	1.3	23
98	Deep-Learning-Based Parking Area and Collision Risk Area Detection Using AVM in Autonomous Parking Situation. <i>Sensors</i> , 2022, 22, 1986.	2.1	5
99	Counterfactual Explanation of Brain Activity Classifiers Using Image-To-Image Transfer by Generative Adversarial Network. <i>Frontiers in Neuroinformatics</i> , 2021, 15, 802938.	1.3	1
100	Computational pathology for musculoskeletal conditions using machine learning: advances, trends, and challenges. <i>Arthritis Research and Therapy</i> , 2022, 24, 68.	1.6	8
101	Leveraging Artificial Intelligence to Improve the Diversity of Dermatological Skin Color Pathology: Protocol for an Algorithm Development and Validation Study. <i>JMIR Research Protocols</i> , 2022, 11, e34896.	0.5	13
102	DeepSpectrumLite: A Power-Efficient Transfer Learning Framework for Embedded Speech and Audio Processing From Decentralized Data. <i>Frontiers in Artificial Intelligence</i> , 2022, 5, 856232.	2.0	14
103	Vectorized rooftop area data for 90 cities in China. <i>Scientific Data</i> , 2022, 9, 66.	2.4	35
104	Dual-Branch Convolutional Neural Network Based on Ultrasound Imaging in the Early Prediction of Neoadjuvant Chemotherapy Response in Patients With Locally Advanced Breast Cancer. <i>Frontiers in Oncology</i> , 2022, 12, 812463.	1.3	6
105	A New Deep Hybrid Boosted and Ensemble Learning-Based Brain Tumor Analysis Using MRI. <i>Sensors</i> , 2022, 22, 2726.	2.1	41
106	Learning cortical representations through perturbed and adversarial dreaming. <i>ELife</i> , 2022, 11, .	2.8	10
107	Analysis of Cataract Surgery Instrument Identification Performance of Convolutional and Recurrent Neural Network Ensembles Leveraging BigCat. <i>Translational Vision Science and Technology</i> , 2022, 11, 1.	1.1	5
108	Industry 4.0 technologies and their applications in fighting COVID-19 pandemic using deep learning techniques. <i>Computers in Biology and Medicine</i> , 2022, 145, 105418.	3.9	16
109	Investigating the Generalization of Image Classifiers with Augmented Test Sets. , 2021, , .		1
110	Listening to Mental Health Crisis Needs at Scale: Using Natural Language Processing to Understand and Evaluate a Mental Health Crisis Text Messaging Service. <i>Frontiers in Digital Health</i> , 2021, 3, 779091.	1.5	5

#	ARTICLE	IF	CITATIONS
111	Software Systems Security Vulnerabilities Management by Exploring the Capabilities of Language Models Using NLP. Computational Intelligence and Neuroscience, 2021, 2021, 1-19.	1.1	13
112	Transforming Fake News: Robust Generalisable News Classification Using Transformers. , 2021, , .		6
113	KerasBERT: Modeling the Keras Language. , 2021, , .		5
114	Addressing Motion Blurs in Brain MRI Scans Using Conditional Adversarial Networks and Simulated Curvilinear Motions. Journal of Imaging, 2022, 8, 84.	1.7	0
115	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
116	Deep Learning for Type 1 Diabetes Mellitus Diagnosis Using Infrared Quantum Cascade Laser Spectroscopy. Materials, 2022, 15, 2984.	1.3	11
117	Chess AI: Competing Paradigms for Machine Intelligence. Entropy, 2022, 24, 550.	1.1	12
118	Ranking the information content of distance measures. , 2022, 1, .		13
119	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
120	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
121	Cross subkey side channel analysis based on small samples. Scientific Reports, 2022, 12, 6254.	1.6	6
122	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
123	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
124	Segmentation Performance Comparison Considering Regional Characteristics in Chest X-ray Using Deep Learning. Sensors, 2022, 22, 3143.	2.1	3
125	A generative adversarial network for synthetization of regions of interest based on digital mammograms. Scientific Reports, 2022, 12, 6166.	1.6	23
126	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
127	Using deep learning to predict abdominal age from liver and pancreas magnetic resonance images. Nature Communications, 2022, 13, 1979.	5.8	17
128	Numerical learning of deep features from drug-exposed cell images to calculate IC50 without staining. Scientific Reports, 2022, 12, 6610.	1.6	5

#	ARTICLE	IF	CITATIONS
129	Artificial Intelligence in Neuro-Oncologic Imaging: A Brief Review for Clinical Use Cases and Future Perspectives. <i>Brain Tumor Research and Treatment</i> , 2022, 10, 69.	0.4	3
130	A Contrastive Learning Pre-Training Method for Motif Occupancy Identification. <i>International Journal of Molecular Sciences</i> , 2022, 23, 4699.	1.8	0
131	Automated measurement of total kidney volume from 3D ultrasound images of patients affected by polycystic kidney disease and comparison to MR measurements. <i>Abdominal Radiology</i> , 2022, 47, 2408-2419.	1.0	12
132	AI Student: A Machine Reading Comprehension System for the Korean College Scholastic Ability Test. <i>Mathematics</i> , 2022, 10, 1486.	1.1	0
133	Corroded Bolt Identification Using Mask Region-Based Deep Learning Trained on Synthesized Data. <i>Sensors</i> , 2022, 22, 3340.	2.1	8
134	Automatic Cancer Cell Taxonomy Using an Ensemble of Deep Neural Networks. <i>Cancers</i> , 2022, 14, 2224.	1.7	5
135	Automatic Fire Detection and Notification System Based on Improved YOLOv4 for the Blind and Visually Impaired. <i>Sensors</i> , 2022, 22, 3307.	2.1	40
136	Explainability-Based Mix-Up Approach for Text Data Augmentation. <i>ACM Transactions on Knowledge Discovery From Data</i> , 2023, 17, 1-14.	2.5	3
137	Essential Oils Biofilm Modulation Activity and Machine Learning Analysis on <i>Pseudomonas aeruginosa</i> Isolates from Cystic Fibrosis Patients. <i>Microorganisms</i> , 2022, 10, 887.	1.6	11
138	Deep Learning-Based Total Kidney Volume Segmentation in Autosomal Dominant Polycystic Kidney Disease Using Attention, Cosine Loss, and Sharpness Aware Minimization. <i>Diagnostics</i> , 2022, 12, 1159.	1.3	21
139	A Two-Stage Method to Detect the Sex Ratio of Hemp Ducks Based on Object Detection and Classification Networks. <i>Animals</i> , 2022, 12, 1177.	1.0	4
140	A comparison of strategies for generating artificial replicates in RNA-seq experiments. <i>Scientific Reports</i> , 2022, 12, 7170.	1.6	3
141	Malignant Bone Tumors Diagnosis Using Magnetic Resonance Imaging Based on Deep Learning Algorithms. <i>Medicina (Lithuania)</i> , 2022, 58, 636.	0.8	11
142	A computer-aided diagnosis system for detecting various diabetic retinopathy grades based on a hybrid deep learning technique. <i>Medical and Biological Engineering and Computing</i> , 2022, 60, 2015-2038.	1.6	23
143	An Intelligent ECG-Based Tool for Diagnosing COVID-19 via Ensemble Deep Learning Techniques. <i>Biosensors</i> , 2022, 12, 299.	2.3	27
144	Deep learning identification of stiffness markers in breast cancer. <i>Biomaterials</i> , 2022, 285, 121540.	5.7	8
145	AI-based Twitter framework for assessing the involvement of government schemes in electoral campaigns. <i>Expert Systems With Applications</i> , 2022, , 117338.	4.4	3
146	Ensemble model for rail surface defects detection. <i>PLoS ONE</i> , 2022, 17, e0268518.	1.1	9

#	ARTICLE	IF	CITATIONS
147	Artificial Intelligence for the Estimation of Visual Acuity Using Multi-Source Anterior Segment Optical Coherence Tomographic Images in Senile Cataract. <i>Frontiers in Medicine</i> , 2022, 9, .	1.2	0
148	Multi-Class CNN for Classification of Multispectral and Autofluorescence Skin Lesion Clinical Images. <i>Journal of Clinical Medicine</i> , 2022, 11, 2833.	1.0	9
149	A Review of the Trends and Challenges in Adopting Natural Language Processing Methods for Education Feedback Analysis. <i>IEEE Access</i> , 2022, 10, 56720-56739.	2.6	37
150	Label efficient segmentation of single slice thigh CT with two-stage pseudo labels. <i>Journal of Medical Imaging</i> , 2022, 9, .	0.8	5
151	A Deep Learning Approach for the Morphological Recognition of Reactive Lymphocytes in Patients with COVID-19 Infection. <i>Bioengineering</i> , 2022, 9, 229.	1.6	6
152	Prediction of GPCR activity using machine learning. <i>Computational and Structural Biotechnology Journal</i> , 2022, 20, 2564-2573.	1.9	16
153	Framework for denoising Monte Carlo photon transport simulations using deep learning. <i>Journal of Biomedical Optics</i> , 2022, 27, .	1.4	2
154	Robust High-Throughput Phenotyping with Deep Segmentation Enabled by a Web-Based Annotator. <i>Plant Phenomics</i> , 2022, 2022, .	2.5	2
155	Image Augmentation Techniques for Mammogram Analysis. <i>Journal of Imaging</i> , 2022, 8, 141.	1.7	43
156	Machine Learning for the Detection and Segmentation of Benign Tumors of the Central Nervous System: A Systematic Review. <i>Cancers</i> , 2022, 14, 2676.	1.7	7
157	Diagnostic-Quality Guided Wave Signals Synthesized Using Generative Adversarial Neural Networks. <i>Sensors</i> , 2022, 22, 3848.	2.1	1
158	Deep learning network for integrated coil inhomogeneity correction and brain extraction of mixed MRI data. <i>Scientific Reports</i> , 2022, 12, .	1.6	2
159	Convolutional neural network-based automatic cervical vertebral maturation classification method. <i>Dentomaxillofacial Radiology</i> , 2022, 51, .	1.3	4
160	Towards Deep Radar Perception for Autonomous Driving: Datasets, Methods, and Challenges. <i>Sensors</i> , 2022, 22, 4208.	2.1	31
161	Prediction-Based Human-Robot Collaboration in Assembly Tasks Using a Learning from Demonstration Model. <i>Sensors</i> , 2022, 22, 4279.	2.1	8
162	Novelty detection for metabolic dynamics established on breast cancer tissue using 2D NMR TOCSY spectra. <i>Computational and Structural Biotechnology Journal</i> , 2022, 20, 2965-2977.	1.9	2
163	Synthetic 18F-FDG PET Image Generation Using a Combination of Biomathematical Modeling and Machine Learning. <i>Cancers</i> , 2022, 14, 2786.	1.7	10
164	Deep Learning in Neuroimaging: Overcoming Challenges With Emerging Approaches. <i>Frontiers in Psychiatry</i> , 2022, 13, .	1.3	5

#	ARTICLE	IF	CITATIONS
165	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
166	Efficient Approaches for Data Augmentation by Using Generative Adversarial Networks. Communications in Computer and Information Science, 2022, , 386-399.	0.4	2
167	Agricultural plant cataloging and establishment of a data framework from UAV-based crop images by computer vision. GigaScience, 2022, 11, .	3.3	11
168	A New Multi-Sensor Stream Data Augmentation Method for Imbalanced Learning in Complex Manufacturing Process. Sensors, 2022, 22, 4042.	2.1	2
169	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
170	Machine Learning of Raman Spectroscopy Data for Classifying Cancers: A Review of the Recent Literature. Diagnostics, 2022, 12, 1491.	1.3	14
171	Deep learning for emergency ascites diagnosis using ultrasonography images. Journal of Applied Clinical Medical Physics, 2022, 23, .	0.8	12
172	deepNIR: Datasets for Generating Synthetic NIR Images and Improved Fruit Detection System Using Deep Learning Techniques. Sensors, 2022, 22, 4721.	2.1	10
173	Deep learning for necrosis detection using canine perivascular wall tumour whole slide images. Scientific Reports, 2022, 12, .	1.6	5
174	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
175	Applying convolutional neural networks to speed up environmental DNA annotation in a highly diverse ecosystem. Scientific Reports, 2022, 12, .	1.6	2
176	GAN augmentation for multiclass image classification using hemorrhage detection as a case-study. Journal of Medical Imaging, 2022, 9, .	0.8	1
177	MixPatch: A New Method for Training Histopathology Image Classifiers. Diagnostics, 2022, 12, 1493.	1.3	1
178	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
179	Fast and Efficient Method for Optical Coherence Tomography Images Classification Using Deep Learning Approach. Sensors, 2022, 22, 4675.	2.1	5
180	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
181	An MRI Scans-Based Alzheimer's Disease Detection via Convolutional Neural Network and Transfer Learning. Diagnostics, 2022, 12, 1531.	1.3	32
182	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

#	ARTICLE	IF	CITATIONS
183	On the Automatic Detection and Classification of Skin Cancer Using Deep Transfer Learning. <i>Sensors</i> , 2022, 22, 4963.	2.1	36
184	Predicting terrorist attacks in the United States using localized news data. <i>PLoS ONE</i> , 2022, 17, e0270681.	1.1	3
185	How Many Private Data Are Needed for Deep Learning in Lung Nodule Detection on CT Scans? A Retrospective Multicenter Study. <i>Cancers</i> , 2022, 14, 3174.	1.7	4
186	A Secure Framework toward IoMT-Assisted Data Collection, Modeling, and Classification for Intelligent Dermatology Healthcare Services. <i>Contrast Media and Molecular Imaging</i> , 2022, 2022, 1-18.	0.4	6
187	Automated Cardiac Chamber Size and Cardiac Physiology Measurement in Water Fleas by U-Net and Mask RCNN Convolutional Networks. <i>Animals</i> , 2022, 12, 1670.	1.0	2
188	Easyâ€”Ensemble Augmented-Shot-Y-Shaped Learning: State-of-the-Art Few-Shot Classification with Simple Components. <i>Journal of Imaging</i> , 2022, 8, 179.	1.7	20
189	An End-To-End Pipeline for Fully Automatic Morphological Quantification of Mouse Brain Structures From MRI Imagery. <i>Frontiers in Bioinformatics</i> , 0, 2, .	1.0	1
190	Species determination using AI machine-learning algorithms: Hebeloma as a case study. <i>IMA Fungus</i> , 2022, 13, .	1.7	6
191	An optimized deep learning architecture for breast cancer diagnosis based on improved marine predators algorithm. <i>Neural Computing and Applications</i> , 2022, 34, 18015-18033.	3.2	43
192	Systematic literature review of arabic aspect-based sentiment analysis. <i>Journal of King Saud University - Computer and Information Sciences</i> , 2022, , .	2.7	3
193	Application of artificial intelligence in nuclear medicine and molecular imaging: a review of current status and future perspectives for clinical translation. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2022, 49, 4452-4463.	3.3	29
194	Meta-Learning for Decoding Neural Activity Data With Noisy Labels. <i>Frontiers in Computational Neuroscience</i> , 0, 16, .	1.2	2
195	An Integrated Goat Head Detection and Automatic Counting Method Based on Deep Learning. <i>Animals</i> , 2022, 12, 1810.	1.0	5
196	Deep learning for fast low-field MRI acquisitions. <i>Scientific Reports</i> , 2022, 12, .	1.6	13
197	Accurate classification of white blood cells by coupling pre-trained ResNet and DenseNet with SCAM mechanism. <i>BMC Bioinformatics</i> , 2022, 23, .	1.2	20
198	Advantages of deep learning with convolutional neural network in detecting disc displacement of the temporomandibular joint in magnetic resonance imaging. <i>Scientific Reports</i> , 2022, 12, .	1.6	12
199	Languageâ€”agnostic pharmacovigilant text mining to elicit side effects from clinical notes and hospital medication records. <i>Basic and Clinical Pharmacology and Toxicology</i> , 2022, 131, 282-293.	1.2	5
200	Deep learning methods for enhancing coneâ€”beam CT image quality toward adaptive radiation therapy: A systematic review. <i>Medical Physics</i> , 2022, 49, 6019-6054.	1.6	22

#	ARTICLE	IF	CITATIONS
201	Use data augmentation for a deep learning classification model with chest X-ray clinical imaging featuring coal workers' pneumoconiosis. <i>BMC Pulmonary Medicine</i> , 2022, 22, .	0.8	7
202	Multi-mask self-supervised learning for physics-guided neural networks in highly accelerated magnetic resonance imaging. <i>NMR in Biomedicine</i> , 2022, 35, .	1.6	12
203	Quantification of lung ventilation defects on hyperpolarized MRI: The Multi-Ethnic Study of Atherosclerosis (MESA) COPD study. <i>Magnetic Resonance Imaging</i> , 2022, 92, 140-149.	1.0	5
204	Data Privacy Enhancing in the IoT User/Device Behavior Analytics. <i>ACM Transactions on Sensor Networks</i> , 2023, 19, 1-13.	2.3	0
205	LDADN: a local discriminant auxiliary disentangled network for key-region-guided chest X-ray image synthesis augmented in pneumoconiosis detection. <i>Biomedical Optics Express</i> , 2022, 13, 4353.	1.5	2
206	The Impact of Data Augmentations on Deep Learning-Based Marine Object Classification in Benthic Image Transects. <i>Sensors</i> , 2022, 22, 5383.	2.1	1
207	Applying Image Recognition and Tracking Methods for Fish Physiology Detection Based on a Visual Sensor. <i>Sensors</i> , 2022, 22, 5545.	2.1	3
208	A deep semantic vegetation health monitoring platform for citizen science imaging data. <i>PLoS ONE</i> , 2022, 17, e0270625.	1.1	0
209	Gurmukhi handwritten word conversion using feature extraction using deep learning. , 2022, , .		2
210	A Comparative Analysis of Deep Learning Models for Automated Cross-Preparation Diagnosis of Multi-Cell Liquid Pap Smear Images. <i>Diagnostics</i> , 2022, 12, 1838.	1.3	10
211	Surrogate- and invariance-boosted contrastive learning for data-scarce applications in science. <i>Nature Communications</i> , 2022, 13, .	5.8	4
212	End-to-end deep learning framework for printed circuit board manufacturing defect classification. <i>Scientific Reports</i> , 2022, 12, .	1.6	29
213	Generalising from conventional pipelines using deep learning in high-throughput screening workflows. <i>Scientific Reports</i> , 2022, 12, .	1.6	2
214	ArchShapesNet: a novel dataset for benchmarking architectural building information modeling element classification algorithms. <i>Journal of Computational Design and Engineering</i> , 2022, 9, 1449-1466.	1.5	2
215	Lung cancer CT image generation from a free-form sketch using style-based pix2pix for data augmentation. <i>Scientific Reports</i> , 2022, 12, .	1.6	13
216	FocusedDropout for Convolutional Neural Network. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 7682.	1.3	5
217	Deep Convolutional Generative Adversarial Networks to Enhance Artificial Intelligence in Healthcare: A Skin Cancer Application. <i>Sensors</i> , 2022, 22, 6145.	2.1	9
218	Deep learning for quality assessment of optical coherence tomography angiography images. <i>Scientific Reports</i> , 2022, 12, .	1.6	4

#	ARTICLE	IF	CITATIONS
219	Detection of developmental dysplasia of the hip in X-ray images using deep transfer learning. <i>BMC Medical Informatics and Decision Making</i> , 2022, 22, .	1.5	8
220	An automated solid waste detection using the optimized YOLO model for riverine management. <i>Frontiers in Public Health</i> , 0, 10, .	1.3	5
221	Connected-SegNets: A Deep Learning Model for Breast Tumor Segmentation from X-ray Images. <i>Cancers</i> , 2022, 14, 4030.	1.7	7
222	An AI toolkit to support teacher reflection. <i>International Journal of Artificial Intelligence in Education</i> , 2023, 33, 635-658.	3.9	1
223	A shallow deep learning approach to classify skin cancer using down-scaling method to minimize time and space complexity. <i>PLoS ONE</i> , 2022, 17, e0269826.	1.1	12
224	Weighted average ensemble-based semantic segmentation in biological electron microscopy images. <i>Histochemistry and Cell Biology</i> , 2022, 158, 447-462.	0.8	11
225	Developing artificial intelligence models for medical student suturing and knot-tying video-based assessment and coaching. <i>Surgical Endoscopy and Other Interventional Techniques</i> , 2023, 37, 402-411.	1.3	10
226	Accurate species identification of food-contaminating beetles with quality-improved elytral images and deep learning. <i>Frontiers in Artificial Intelligence</i> , 0, 5, .	2.0	0
227	SMArTE: A Segment-Level Feature Mixing and Temporal Encoding Framework for Facial Expression Recognition. <i>Sensors</i> , 2022, 22, 5753.	2.1	1
228	Dual-Biometric Human Identification Using Radar Deep Transfer Learning. <i>Sensors</i> , 2022, 22, 5782.	2.1	4
229	Analysis of the Current Situation of Teaching and Learning of Ideological and Political Theory Courses by Deep Learning. <i>Computational Intelligence and Neuroscience</i> , 2022, 2022, 1-11.	1.1	1
230	Mitigating Bias in Radiology Machine Learning: 2. Model Development. <i>Radiology: Artificial Intelligence</i> , 2022, 4, .	3.0	29
231	Generalisable 3D printing error detection and correction via multi-head neural networks. <i>Nature Communications</i> , 2022, 13, .	5.8	21
232	Poultry diseases diagnostics models using deep learning. <i>Frontiers in Artificial Intelligence</i> , 0, 5, .	2.0	11
233	A Deep Learning Computer-Aided Diagnosis Approach for Breast Cancer. <i>Bioengineering</i> , 2022, 9, 391.	1.6	12
234	Visual state estimation in unseen environments through domain adaptation and metric learning. <i>Frontiers in Robotics and AI</i> , 0, 9, .	2.0	1
235	Artificial intelligence in the radiomic analysis of glioblastomas: A review, taxonomy, and perspective. <i>Frontiers in Oncology</i> , 0, 12, .	1.3	9
236	PointTransformer: Encoding Human Local Features for Small Target Detection. <i>Computational Intelligence and Neuroscience</i> , 2022, 2022, 1-10.	1.1	0

#	ARTICLE	IF	CITATIONS
237	GamaComet: A Deep Learning-Based Tool for the Detection and Classification of DNA Damage from Buccal Mucosa Comet Assay Images. <i>Diagnostics</i> , 2022, 12, 2002.	1.3	3
238	Automated Detection and Characterization of Colon Cancer with Deep Convolutional Neural Networks. <i>Journal of Healthcare Engineering</i> , 2022, 2022, 1-12.	1.1	18
239	Learnability of the Boolean Innerproduct in Deep Neural Networks. <i>Entropy</i> , 2022, 24, 1117.	1.1	1
240	Automatic Segmentation and Quantitative Assessment of Stroke Lesions on MR Images. <i>Diagnostics</i> , 2022, 12, 2055.	1.3	7
241	A Conditional GAN for Generating Time Series Data for Stress Detection in Wearable Physiological Sensor Data. <i>Sensors</i> , 2022, 22, 5969.	2.1	6
242	Horizontal Data Augmentation Strategy for Industrial Quality Prediction. <i>ACS Omega</i> , 0, , .	1.6	2
243	Segmentation of the prostate, its zones, anterior fibromuscular stroma, and urethra on the MRIs and multimodality image fusion using U-Net model. <i>Quantitative Imaging in Medicine and Surgery</i> , 2022, 12, 4786-4804.	1.1	27
244	Application of multilayer perceptron with data augmentation in nuclear physics. <i>Applied Soft Computing Journal</i> , 2022, 128, 109470.	4.1	3
245	A wavelet-based deep learning pipeline for efficient COVID-19 diagnosis via CT slices. <i>Applied Soft Computing Journal</i> , 2022, 128, 109401.	4.1	28
246	Visual Field Prediction. <i>Ophthalmology Science</i> , 2023, 3, 100222.	1.0	6
247	Transformation, vectorization, and optimization. , 2022, , 35-84.		1
248	Knowledge Graph Augmentation for Increased Question Answering Accuracy. <i>Lecture Notes in Computer Science</i> , 2022, , 70-85.	1.0	0
249	LCDAE: Data Augmented Ensemble Framework for Lung Cancer Classification. <i>Technology in Cancer Research and Treatment</i> , 2022, 21, 153303382211243.	0.8	29
250	Augmentation-Based Ensemble Learning for Stance and Fake News Detection. <i>Communications in Computer and Information Science</i> , 2022, , 29-41.	0.4	5
251	A deep learning-based diagnostic tool for identifying various diseases via facial images. <i>Digital Health</i> , 2022, 8, 205520762211244.	0.9	11
252	F-Measure Optimization for Multi-class, Imbalanced Emotion Classification Tasks. <i>Lecture Notes in Computer Science</i> , 2022, , 158-170.	1.0	1
253	ChestX-Ray6: Prediction of multiple diseases including COVID-19 from chest X-ray images using convolutional neural network. <i>Expert Systems With Applications</i> , 2023, 211, 118576.	4.4	16
254	A New Approach for Detecting Fundus Lesions Using Image Processing and Deep Neural Network Architecture Based on YOLO Model. <i>Sensors</i> , 2022, 22, 6441.	2.1	15

#	ARTICLE	IF	CITATIONS
255	Use of Data Augmentation Techniques in Detection of Antisocial Behavior Using Deep Learning Methods. <i>Future Internet</i> , 2022, 14, 260.	2.4	7
256	A Novel Method for COVID-19 Detection Based on DCNNs and Hierarchical Structure. <i>Computational and Mathematical Methods in Medicine</i> , 2022, 2022, 1-12.	0.7	0
257	On the analysis of data augmentation methods for spectral imaged based heart sound classification using convolutional neural networks. <i>BMC Medical Informatics and Decision Making</i> , 2022, 22, .	1.5	4
258	MineBL: A Battery-Free Localization Scheme with Binocular Camera for Coal Mine. <i>Sensors</i> , 2022, 22, 6511.	2.1	3
259	MobileSkin: Classification of Skin Lesion Images Acquired Using Mobile Phone-Attached Hand-Held Dermoscopes. <i>Journal of Clinical Medicine</i> , 2022, 11, 5102.	1.0	5
260	An Enhanced Scheme for Reducing the Complexity of Pointwise Convolutions in CNNs for Image Classification Based on Interleaved Grouped Filters without Divisibility Constraints. <i>Entropy</i> , 2022, 24, 1264.	1.1	4
261	Optimal Facial Feature Based Emotional Recognition Using Deep Learning Algorithm. <i>Computational Intelligence and Neuroscience</i> , 2022, 2022, 1-10.	1.1	4
262	A bi-directional deep learning architecture for lung nodule semantic segmentation. <i>Visual Computer</i> , 2023, 39, 5245-5261.	2.5	7
263	Lifelong Adaptive Machine Learning for Sensor-Based Human Activity Recognition Using Prototypical Networks. <i>Sensors</i> , 2022, 22, 6881.	2.1	2
265	Reducing data dimension boosts neural network-based stage-specific malaria detection. <i>Scientific Reports</i> , 2022, 12, .	1.6	4
266	Investigation of Applying Machine Learning and Hyperparameter Tuned Deep Learning Approaches for Arrhythmia Detection in ECG Images. <i>Computational and Mathematical Methods in Medicine</i> , 2022, 2022, 1-12.	0.7	6
267	Machine learning for autism spectrum disorder diagnosis using structural magnetic resonance imaging: Promising but challenging. <i>Frontiers in Neuroinformatics</i> , 0, 16, .	1.3	17
268	Evaluating the use of synthetic T1-w images in new T2 lesion detection in multiple sclerosis. <i>Frontiers in Neuroscience</i> , 0, 16, .	1.4	1
269	A conditional GAN-based approach for enhancing transfer learning performance in few-shot HCR tasks. <i>Scientific Reports</i> , 2022, 12, .	1.6	4
270	Detecting COVID-19 infection status from chest X-ray and CT scan via single transfer learning-driven approach. <i>Frontiers in Genetics</i> , 0, 13, .	1.1	13
271	Photoacoustic image synthesis with generative adversarial networks. <i>Photoacoustics</i> , 2022, 28, 100402.	4.4	6
272	One shot ancient character recognition with siamese similarity network. <i>Scientific Reports</i> , 2022, 12, .	1.6	4
273	Improved Monitoring of Wildlife Invasion through Data Augmentation by Extracting Append of a Segmented Entity. <i>Sensors</i> , 2022, 22, 7383.	2.1	4

#	ARTICLE	IF	CITATIONS
274	Gamma Radiation Image Noise Prediction Method Based on Statistical Analysis and Random Walk. <i>Sensors</i> , 2022, 22, 7325.	2.1	0
275	Neural Networks-Based On-Site Dermatologic Diagnosis through Hyperspectral Epidermal Images. <i>Sensors</i> , 2022, 22, 7139.	2.1	5
276	SupMPN: Supervised Multiple Positives and Negatives Contrastive Learning Model for Semantic Textual Similarity. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 9659.	1.3	3
277	Research and Implementation of Text Generation Based on Text Augmentation and Knowledge Understanding. <i>Computational Intelligence and Neuroscience</i> , 2022, 2022, 1-10.	1.1	0
278	Positron Range Corrections and Denoising Techniques for Gallium-68 PET Imaging: A Literature Review. <i>Diagnostics</i> , 2022, 12, 2335.	1.3	5
279	IoT malware detection architecture using a novel channel boosted and squeezed CNN. <i>Scientific Reports</i> , 2022, 12, .	1.6	30
280	Mitigating bias in deep learning for diagnosis of coronary artery disease from myocardial perfusion SPECT images. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2023, 50, 387-397.	3.3	5
281	Deep learning-based automatic-bone-destruction-evaluation system using contextual information from other joints. <i>Arthritis Research and Therapy</i> , 2022, 24, .	1.6	5
282	Revisiting data augmentation for subspace clustering. <i>Knowledge-Based Systems</i> , 2022, 258, 109974.	4.0	1
283	Question classification using limited labelled data. <i>Information Processing and Management</i> , 2022, 59, 103094.	5.4	9
284	Center Loss Guided Prototypical Networks for Unbalance Few-Shot Industrial Fault Diagnosis. <i>Mobile Information Systems</i> , 2022, 2022, 1-14.	0.4	1
285	An extended machine learning technique for polycystic ovary syndrome detection using ovary ultrasound image. <i>Scientific Reports</i> , 2022, 12, .	1.6	32
286	Occluded object detection and exposure in cluttered environments with automated hyperspectral anomaly detection. <i>Frontiers in Robotics and AI</i> , 0, 9, .	2.0	3
287	Saliency guided data augmentation strategy for maximally utilizing an object's visual information. <i>PLoS ONE</i> , 2022, 17, e0274767.	1.1	0
288	Data augmentation with improved regularisation and sampling for imbalanced blood cell image classification. <i>Scientific Reports</i> , 2022, 12, .	1.6	4
289	Monitoring Subsidence Area with the Use of Satellite Radar Images and Deep Transfer Learning. <i>Sensors</i> , 2022, 22, 7931.	2.1	1
290	Cognitive Assessment of Japanese Older Adults with Text Data Augmentation. <i>Healthcare (Switzerland)</i> , 2022, 10, 2051.	1.0	2
291	Semi-supervised segmentation of metastasis lesions in bone scan images. <i>Frontiers in Molecular Biosciences</i> , 0, 9, .	1.6	2

#	ARTICLE	IF	CITATIONS
292	Recognition of terminal buds of densely-planted Chinese fir seedlings using improved YOLOv5 by integrating attention mechanism. <i>Frontiers in Plant Science</i> , 0, 13, .	1.7	9
293	Transfer learning: a friendly introduction. <i>Journal of Big Data</i> , 2022, 9, .	6.9	48
294	Real-Time Ship Segmentation in Maritime Surveillance Videos Using Automatically Annotated Synthetic Datasets. <i>Sensors</i> , 2022, 22, 8090.	2.1	10
295	Automatic identification of early ischemic lesions on non-contrast CT with deep learning approach. <i>Scientific Reports</i> , 2022, 12, .	1.6	6
296	Computer vision in surgery: from potential to clinical value. <i>Npj Digital Medicine</i> , 2022, 5, .	5.7	29
297	Prediction of Voice Fundamental Frequency and Intensity from Surface Electromyographic Signals of the Face and Neck. <i>Vibration</i> , 2022, 5, 692-710.	0.9	0
298	Recent Progress in the Discovery and Design of Antimicrobial Peptides Using Traditional Machine Learning and Deep Learning. <i>Antibiotics</i> , 2022, 11, 1451.	1.5	22
299	Determining the Stir-Frying Degree of Gardeniae Fructus Praeparatus Based on Deep Learning and Transfer Learning. <i>Sensors</i> , 2022, 22, 8091.	2.1	3
300	Automation of generative adversarial network-based synthetic data-augmentation for maximizing the diagnostic performance with paranasal imaging. <i>Scientific Reports</i> , 2022, 12, .	1.6	2
301	Judicial knowledge-enhanced magnitude-aware reasoning for numerical legal judgment prediction. <i>Artificial Intelligence and Law</i> , 2023, 31, 773-806.	3.0	2
302	Invariance of object detection in untrained deep neural networks. <i>Frontiers in Computational Neuroscience</i> , 0, 16, .	1.2	4
303	Computer Vision System for Mango Fruit Defect Detection Using Deep Convolutional Neural Network. <i>Foods</i> , 2022, 11, 3483.	1.9	18
304	Wavelet attention network for the segmentation of layer structures on OCT images. <i>Biomedical Optics Express</i> , 2022, 13, 6167.	1.5	3
305	Uncovering commercial activity in informal cities. <i>Royal Society Open Science</i> , 2022, 9, .	1.1	1
306	Deep Learning for Image Enhancement and Correction in Magnetic Resonance Imaging—State-of-the-Art and Challenges. <i>Journal of Digital Imaging</i> , 2023, 36, 204-230.	1.6	30
307	MTDOT: A Multilingual Translation-Based Data Augmentation Technique for Offensive Content Identification in Tamil Text Data. <i>Electronics (Switzerland)</i> , 2022, 11, 3574.	1.8	6
308	Parkinson's disease is characterized by sub-second resting-state spatio-oscillatory patterns: A contribution from deep convolutional neural network. <i>NeuroImage: Clinical</i> , 2022, 36, 103266.	1.4	3
309	Data Acquisition and Image Augmentation using Adversarial Networks. , 2022, , .		0

#	ARTICLE	IF	CITATIONS
310	Intelligent Grouping Method of Science and Technology Projects Based on Data Augmentation and SMOTE. <i>Applied Artificial Intelligence</i> , 2022, 36, .	2.0	1
311	A Multi-Considered Seed Coat Pattern Classification of Allium L. Using Unsupervised Machine Learning. <i>Plants</i> , 2022, 11, 3097.	1.6	1
312	Performance analysis of seven Convolutional Neural Networks (CNNs) with transfer learning for Invasive Ductal Carcinoma (IDC) grading in breast histopathological images. <i>Scientific Reports</i> , 2022, 12, .	1.6	14
313	A novel Multi-Layer Attention Framework for visual description prediction using bidirectional LSTM. <i>Journal of Big Data</i> , 2022, 9, .	6.9	5
314	GCP-Based Automated Fine Alignment Method for Improving the Accuracy of Coordinate Information on UAV Point Cloud Data. <i>Sensors</i> , 2022, 22, 8735.	2.1	2
315	Multi-Barley Seed Detection Using iPhone Images and YOLOv5 Model. <i>Foods</i> , 2022, 11, 3531.	1.9	4
316	Fully Convolutional Network for the Semantic Segmentation of Medical Images: A Survey. <i>Diagnostics</i> , 2022, 12, 2765.	1.3	5
317	Generative adversarial network-created brain SPECTs of cerebral ischemia are indistinguishable to scans from real patients. <i>Scientific Reports</i> , 2022, 12, .	1.6	1
318	Diverse COVID-19 CT Image-to-Image Translation with Stacked Residual Dropout. <i>Bioengineering</i> , 2022, 9, 698.	1.6	5
319	Data augmentation: A comprehensive survey of modern approaches. <i>Array</i> , 2022, 16, 100258.	2.5	65
320	Generalization of Deep Learning in Digital Pathology: Experience in Breast Cancer Metastasis Detection. <i>Cancers</i> , 2022, 14, 5424.	1.7	9
321	Single Infrared Image Stripe Removal via Residual Attention Network. <i>Sensors</i> , 2022, 22, 8734.	2.1	2
322	BdSLW-11: Dataset of Bangladeshi sign language words for recognizing 11 daily useful BdSL words. <i>Data in Brief</i> , 2022, 45, 108747.	0.5	4
323	AugLog: System Log Anomaly Detection Based on Contrastive Learning and Data Augmentation. , 2022, , .		2
324	Distress Detection in Subway Tunnel Images via Data Augmentation Based on Selective Image Cropping and Patching. <i>Sensors</i> , 2022, 22, 8932.	2.1	1
325	UnMICST: Deep learning with real augmentation for robust segmentation of highly multiplexed images of human tissues. <i>Communications Biology</i> , 2022, 5, .	2.0	14
326	A deep learning based framework for the classification of multi- class capsule gastroscop image in gastroenterologic diagnosis. <i>Frontiers in Physiology</i> , 0, 13, .	1.3	2
327	Enhanced dataset synthesis using conditional generative adversarial networks. <i>Biomedical Engineering Letters</i> , 2023, 13, 41-48.	2.1	4

#	ARTICLE	IF	CITATIONS
328	Now, Later, Never: A Study of Urgency in Mobile Push-Notifications. Lecture Notes in Computer Science, 2022, , 38-44.	1.0	0
329	Classification and Impact of Call-to-Actions in Push-Notifications. Lecture Notes in Computer Science, 2022, , 3-17.	1.0	1
330	Decoding degeneration: the implementation of machine learning for clinical detection of neurodegenerative disorders. Neural Regeneration Research, 2023, 18, 1235.	1.6	3
331	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
332	Application of deep learning ultrasound imaging in monitoring bone healing after fracture surgery. Journal of Radiation Research and Applied Sciences, 2023, 16, 100493.	0.7	1
333	Cross-Modal Data Augmentation for Tasks of Different Modalities. IEEE Transactions on Multimedia, 2023, 25, 7814-7824.	5.2	0
334	AI-Based Assistant for Determining the Required Performance Level for a Safety Function. , 2022, , .		2
335	Self-Super-Resolution of an MRI Image with Assistance of the DSTTD System. Journal of Healthcare Engineering, 2022, 2022, 1-11.	1.1	0
336	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
337	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
338	A Framework for Lung and Colon Cancer Diagnosis via Lightweight Deep Learning Models and Transformation Methods. Diagnostics, 2022, 12, 2926.	1.3	19
339	Robust Ulcer Classification: Contrast and Illumination Invariant Approach. Diagnostics, 2022, 12, 2898.	1.3	0
340	Self-Supervised Action Representation Learning Based on Asymmetric Skeleton Data Augmentation. Sensors, 2022, 22, 8989.	2.1	0
341	Revisiting Contextual Toxicity Detection in Conversations. Journal of Data and Information Quality, 2023, 15, 1-22.	1.5	1
342	Deep Learning in Diverse Intelligent Sensor Based Systems. Sensors, 2023, 23, 62.	2.1	7
343	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
344	Learning for Data Synthesis: Joint Local Salient Projection and Adversarial Network Optimization for Vehicle Re-Identification. Sensors, 2022, 22, 9539.	2.1	0
345	Scarce Data in Intelligent Technical Systems: Causes, Characteristics, and Implications. Sci, 2022, 4, 49.	1.8	1

#	ARTICLE	IF	CITATIONS
346	An Optimal Artificial Intelligence System for Real-Time Endoscopic Prediction of Invasion Depth in Early Gastric Cancer. <i>Cancers</i> , 2022, 14, 6000.	1.7	3
347	Structure and Base Analysis of Receptive Field Neural Networks in a Character Recognition Task. <i>Sensors</i> , 2022, 22, 9743.	2.1	0
348	Capsule robot pose and mechanism state detection in ultrasound using attention-based hierarchical deep learning. <i>Scientific Reports</i> , 2022, 12, .	1.6	4
349	Defect Detection of MEMS Based on Data Augmentation, WGAN-DIV-DC, and a YOLOv5 Model. <i>Sensors</i> , 2022, 22, 9400.	2.1	1
350	A Survey on Deep Learning in COVID-19 Diagnosis. <i>Journal of Imaging</i> , 2023, 9, 1.	1.7	7
351	Deep Learning Model for Computer-Aided Diagnosis of Urolithiasis Detection from Kidneyâ€“Ureterâ€“Bladder Images. <i>Bioengineering</i> , 2022, 9, 811.	1.6	5
352	DeepEOR: automated perioperative volumetric assessment of variable grade gliomas using deep learning. <i>Acta Neurochirurgica</i> , 2023, 165, 555-566.	0.9	1
353	Nucleotide augmentation for machine learning-guided protein engineering. <i>Bioinformatics Advances</i> , 2023, 3, .	0.9	3
354	Deep learning classification of urinary sediment crystals with optimal parameter tuning. <i>Scientific Reports</i> , 2022, 12, .	1.6	5
355	Predicting age from resting-state scalp EEG signals with deep convolutional neural networks on TD-brain dataset. <i>Frontiers in Aging Neuroscience</i> , 0, 14, .	1.7	6
356	Deep neural network automated segmentation of cellular structures in volume electron microscopy. <i>Journal of Cell Biology</i> , 2023, 222, .	2.3	9
357	Inhalation Injury Grading Using Transfer Learning Based on Bronchoscopy Images and Mechanical Ventilation Period. <i>Sensors</i> , 2022, 22, 9430.	2.1	1
358	Distributed Raman Spectrum Data Augmentation System Using Federated Learning with Deep Generative Models. <i>Sensors</i> , 2022, 22, 9900.	2.1	6
359	Deep Learning-Based Artificial Intelligence to Investigate Targeted Nanoparticlesâ€™ Uptake in TNBC Cells. <i>International Journal of Molecular Sciences</i> , 2022, 23, 16070.	1.8	8
360	3D deep convolution neural network for radiation pneumonitis prediction following stereotactic body radiotherapy. <i>Journal of Applied Clinical Medical Physics</i> , 2023, 24, .	0.8	5
361	Invariance encoding in sliced-Wasserstein space for image classification with limited training data. <i>Pattern Recognition</i> , 2023, 137, 109268.	5.1	0
362	High-fidelity diabetic retina fundus image synthesis from freestyle lesion maps. <i>Biomedical Optics Express</i> , 2023, 14, 533.	1.5	3
363	Water Meter Reading for Smart Grid Monitoring. <i>Sensors</i> , 2023, 23, 75.	2.1	9

#	ARTICLE	IF	CITATIONS
364	Improving Inertial Sensor-Based Activity Recognition in Neurological Populations. <i>Sensors</i> , 2022, 22, 9891.	2.1	3
365	S-ResNet: An improved ResNet neural model capable of the identification of small insects. <i>Frontiers in Plant Science</i> , 0, 13, .	1.7	5
366	Robust Data Augmentation Generative Adversarial Network for Object Detection. <i>Sensors</i> , 2023, 23, 157.	2.1	4
367	GabROP: Gabor Wavelets-Based CAD for Retinopathy of Prematurity Diagnosis via Convolutional Neural Networks. <i>Diagnostics</i> , 2023, 13, 171.	1.3	12
368	A Codeword-Independent Localization Technique for Reconfigurable Intelligent Surface Enhanced Environments Using Adversarial Learning. <i>Sensors</i> , 2023, 23, 984.	2.1	0
369	Catch Recognition in Automated American Football Training Using Machine Learning. <i>Sensors</i> , 2023, 23, 840.	2.1	0
370	Automatic segmentation of human knee anatomy by a convolutional neural network applying a 3D MRI protocol. <i>BMC Musculoskeletal Disorders</i> , 2023, 24, .	0.8	6
371	Augmenting ECG Data with Multiple Filters for a Better Emotion Recognition System. <i>Arabian Journal for Science and Engineering</i> , 2023, 48, 10313-10334.	1.7	5
372	A MobileNet-based CNN model with a novel fine-tuning mechanism for COVID-19 infection detection. <i>Soft Computing</i> , 2023, 27, 5521-5535.	2.1	20
373	Deep Learning Model for Static Ocular Torsion Detection Using Synthetically Generated Fundus Images. <i>Translational Vision Science and Technology</i> , 2023, 12, 17.	1.1	1
374	3D reconstruction of proximal femoral fracture from biplanar radiographs with fractural representative learning. <i>Scientific Reports</i> , 2023, 13, .	1.6	0
375	A method to create real-like point clouds for 3D object classification. <i>Frontiers in Robotics and AI</i> , 0, 9, .	2.0	0
376	Computer-Aided Detection and Classification of Monkeypox and Chickenpox Lesion in Human Subjects Using Deep Learning Framework. <i>Diagnostics</i> , 2023, 13, 292.	1.3	22
377	Neural representations of the perception of handwritten digits and visual objects from a convolutional neural network compared to humans. <i>Human Brain Mapping</i> , 2023, 44, 2018-2038.	1.9	2
378	Early-stage fusion of EEG and fNIRS improves classification of motor imagery. <i>Frontiers in Neuroscience</i> , 0, 16, .	1.4	8
379	Resting state network mapping in individuals using deep learning. <i>Frontiers in Neurology</i> , 0, 13, .	1.1	3
380	RADIC:A tool for diagnosing COVID-19 from chest CT and X-ray scans using deep learning and quad-radiomics. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2023, 233, 104750.	1.8	15
381	Next generation insect taxonomic classification by comparing different deep learning algorithms. <i>PLoS ONE</i> , 2022, 17, e0279094.	1.1	3

#	ARTICLE	IF	CITATIONS
382	A Framework to Predict Gastric Cancer Based on Tongue Features and Deep Learning. <i>Micromachines</i> , 2023, 14, 53.	1.4	6
383	An Overview of Deep-Learning-Based Methods for Cardiovascular Risk Assessment with Retinal Images. <i>Diagnostics</i> , 2023, 13, 68.	1.3	6
384	Automatic Segmentation of Cervical Cells Based on Star-Convex Polygons in Pap Smear Images. <i>Bioengineering</i> , 2023, 10, 47.	1.6	2
385	Data-Augmented Manifold Learning Thermography for Defect Detection and Evaluation of Polymer Composites. <i>Polymers</i> , 2023, 15, 173.	2.0	3
386	An Efficient Deep Learning Method for Detection of COVID-19 Infection Using Chest X-ray Images. <i>Diagnostics</i> , 2023, 13, 131.	1.3	17
387	Imbalanced classification for protein subcellular localization with multilabel oversampling. <i>Bioinformatics</i> , 2023, 39, .	1.8	2
388	High Quality Coal Foreign Object Image Generation Method Based on StyleGAN-DSAD. <i>Sensors</i> , 2023, 23, 374.	2.1	3
389	RANSAC for Robotic Applications: A Survey. <i>Sensors</i> , 2023, 23, 327.	2.1	18
390	Data Augmentation Methods for Semantic Similarity Detection in Vietnamese Questionnaire. , 2022, , .		1
391	Automatic detection of multilayer hexagonal boron nitride in optical images using deep learning-based computer vision. <i>Scientific Reports</i> , 2023, 13, .	1.6	5
392	Investigation of optimal convolutional neural network conditions for thyroid ultrasound image analysis. <i>Scientific Reports</i> , 2023, 13, .	1.6	1
393	A new generative approach for optical coherence tomography data scarcity: unpaired mutual conversion between scanning presets. <i>Medical and Biological Engineering and Computing</i> , 2023, 61, 1093-1112.	1.6	1
394	Multiview Deep Forest for Overall Survival Prediction in Cancer. <i>Computational and Mathematical Methods in Medicine</i> , 2023, 2023, 1-12.	0.7	1
395	Automatic Detection of Oral Squamous Cell Carcinoma from Histopathological Images of Oral Mucosa Using Deep Convolutional Neural Network. <i>International Journal of Environmental Research and Public Health</i> , 2023, 20, 2131.	1.2	11
396	Machine learning enabled orthogonal camera goniometry for accurate and robust contact angle measurements. <i>Scientific Reports</i> , 2023, 13, .	1.6	37
397	Enhanced Pathology Image Quality with Restoreâ€“Generative Adversarial Network. <i>American Journal of Pathology</i> , 2023, 193, 404-416.	1.9	3
398	Fruit Leaf Diseases Classification: A Hierarchical Deep Learning Framework. <i>Computers, Materials and Continua</i> , 2023, 75, 1179-1194.	1.5	2
399	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. <i>Cancers</i> , 2023, 15, 838.	1.7	3

#	ARTICLE	IF	CITATIONS
400	Natural language processing using text augmentation for chatbot. , 2022, , .		3
401	Automated Detection and Classification of Oral Squamous Cell Carcinoma Using Deep Neural Networks. Diagnostics, 2023, 13, 918.	1.3	4
402	Skill-level classification and performance evaluation for endoscopic sleeve gastropasty. Surgical Endoscopy and Other Interventional Techniques, 2023, 37, 4754-4765.	1.3	1
403	Classification of Ultrasound PCOS Image using Deep Learning based Hybrid Models. , 2023, , .		3
404	An estimation method of maize impurity rate based on the deep residual networks. Industrial Crops and Products, 2023, 196, 116455.	2.5	1
405	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
406	Autonomous Virtual Cognitive Assessment via NLP and Hand Gesture Recognition. , 2022, , .		1
407	A distributable German clinical corpus containing cardiovascular clinical routine doctorâ€™s letters. Scientific Data, 2023, 10, .	2.4	0
408	GRACE: Graph autoencoder based single-cell clustering through ensemble similarity learning. PLoS ONE, 2023, 18, e0284527.	1.1	0
409	As good as human experts in detecting plant roots in minirhizotron images but efficient and reproducible: the convolutional neural network â€œRootDetectorâ€•. Scientific Reports, 2023, 13, .	1.6	2
410	Cyberbully Detection Using BERT with Augmented Texts. , 2022, , .		2
411	A Stateâ€™ofâ€™Art Review on Prediction Model for Fatigue Performance of Welded Joints via Dataâ€™Driven Method. Advanced Engineering Materials, 2023, 25, .	1.6	3
412	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
413	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
414	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
415	ECG Classification Using an Optimal Temporal Convolutional Network for Remote Health Monitoring. Sensors, 2023, 23, 1697.	2.1	8
416	UX Framework Including Imbalanced UX Dataset Reduction Method for Analyzing Interaction Trends of Agent Systems. Sensors, 2023, 23, 1651.	2.1	0
417	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

#	ARTICLE	IF	CITATIONS
418	Modern Methods of Diagnostics and Treatment of Neurodegenerative Diseases and Depression. <i>Diagnostics</i> , 2023, 13, 573.	1.3	9
419	Monkeypox Detection Using CNN with Transfer Learning. <i>Sensors</i> , 2023, 23, 1783.	2.1	29
420	A Novel Framework for Melanoma Lesion Segmentation Using Multiparallel Depthwise Separable and Dilated Convolutions with Swish Activations. <i>Journal of Healthcare Engineering</i> , 2023, 2023, 1-15.	1.1	1
421	A New Regularization for Deep Learning-Based Segmentation of Images with Fine Structures and Low Contrast. <i>Sensors</i> , 2023, 23, 1887.	2.1	1
422	Eye Recognition by YOLO for Inner Canthus Temperature Detection in the Elderly Using a Transfer Learning Approach. <i>Sensors</i> , 2023, 23, 1851.	2.1	3
423	Intraclass Image Augmentation for Defect Detection Using Generative Adversarial Neural Networks. <i>Sensors</i> , 2023, 23, 1861.	2.1	6
424	Leaf-Counting in Monocot Plants Using Deep Regression Models. <i>Sensors</i> , 2023, 23, 1890.	2.1	4
425	Research Challenges, Recent Advances, and Popular Datasets in Deep Learning-Based Underwater Marine Object Detection: A Review. <i>Sensors</i> , 2023, 23, 1990.	2.1	7
426	Precision Detection and Assessment of Ash Death and Decline Caused by the Emerald Ash Borer Using Drones and Deep Learning. <i>Plants</i> , 2023, 12, 798.	1.6	5
427	Diagnosis and Mobile Application of Apple Leaf Disease Degree Based on a Small-Sample Dataset. <i>Plants</i> , 2023, 12, 786.	1.6	2
428	An End-to-End Steel Surface Classification Approach Based on EDCGAN and MobileNet V2. <i>Sensors</i> , 2023, 23, 1953.	2.1	2
429	DualDiscWaveGAN-Based Data Augmentation Scheme for Animal Sound Classification. <i>Sensors</i> , 2023, 23, 2024.	2.1	2
430	Interpretable Skin Cancer Classification based on Incremental Domain Knowledge Learning. <i>Journal of Healthcare Informatics Research</i> , 2023, 7, 59-83.	5.3	4
431	Automatic diagnosis of retention pseudocyst in the maxillary sinus on panoramic radiographs using a convolutional neural network algorithm. <i>Scientific Reports</i> , 2023, 13, .	1.6	2
432	Data Augmentation in Classification and Segmentation: A Survey and New Strategies. <i>Journal of Imaging</i> , 2023, 9, 46.	1.7	30
433	Developing precision agriculture using data augmentation framework for automatic identification of castor insect pests. <i>Frontiers in Plant Science</i> , 0, 14, .	1.7	1
434	Prostate Ultrasound Image Segmentation Based on DSU-Net. <i>Biomedicines</i> , 2023, 11, 646.	1.4	6
435	Perceptive SARS-CoV-2 End-To-End Ultrasound Video Classification through X3D and Key-Frames Selection. <i>Bioengineering</i> , 2023, 10, 282.	1.6	1

#	ARTICLE	IF	CITATIONS
436	Analysis of Government Policy Sentiment Regarding Vacation during the COVID-19 Pandemic Using the Bidirectional Encoder Representation from Transformers (BERT). <i>Data</i> , 2023, 8, 46.	1.2	3
437	Decoupled neural network training with re-computation and weight prediction. <i>PLoS ONE</i> , 2023, 18, e0276427.	1.1	0
438	Multi-phase attention network for face super-resolution. <i>PLoS ONE</i> , 2023, 18, e0280986.	1.1	1
439	Ground-level Post-Disaster Image Classification using DenseNet201 for Disaster Damage Assessment. , 2023, , .		1
440	Data-Augmented Deep Learning Models for Abnormal Road Manhole Cover Detection. <i>Sensors</i> , 2023, 23, 2676.	2.1	1
441	Application of Deep Learning System Technology in Identification of Womenâ€™s Breast Cancer. <i>Medicina (Lithuania)</i> , 2023, 59, 487.	0.8	0
442	Which data subset should be augmented for deep learning? a simulation study using urothelial cell carcinoma histopathology images. <i>BMC Bioinformatics</i> , 2023, 24, .	1.2	0
443	An interpretable transformer network for the retinal disease classification using optical coherence tomography. <i>Scientific Reports</i> , 2023, 13, .	1.6	11
444	Consecutive multiscale feature learning-based image classification model. <i>Scientific Reports</i> , 2023, 13, .	1.6	8
445	An explainable artificial intelligence system for diagnosing <i>Helicobacter Pylori</i> infection under endoscopy: a caseâ€™control study. <i>Therapeutic Advances in Gastroenterology</i> , 2023, 16, 175628482311550.	1.4	2
446	Data augmentation and multimodal learning for predicting drug response in patient-derived xenografts from gene expressions and histology images. <i>Frontiers in Medicine</i> , 0, 10, .	1.2	2
447	Deep learning enables image-based tree counting, crown segmentation, and height prediction at national scale. , 2023, 2, .		10
448	Using a deep learning approach for implanted seed detection on fluoroscopy images in prostate brachytherapy. <i>Journal of Contemporary Brachytherapy</i> , 2023, 15, 69-74.	0.4	0
449	Deformable image registration based on single or multi-atlas methods for automatic muscle segmentation and the generation of augmented imaging datasets. <i>PLoS ONE</i> , 2023, 18, e0273446.	1.1	1
450	Automatic Image Generation Pipeline for Instance Segmentation of Deformable Linear Objects. <i>Sensors</i> , 2023, 23, 3013.	2.1	3
451	Deep Learning-Based Computed Tomography Image Standardization to Improve Generalizability of Deep Learning-Based Hepatic Segmentation. <i>Korean Journal of Radiology</i> , 2023, 24, 294.	1.5	2
452	Simulating developmental diversity: Impact of neural stochasticity on atypical flexibility and hierarchy. <i>Frontiers in Psychiatry</i> , 0, 14, .	1.3	0
453	End to End Multitask Joint Learning Model for Osteoporosis Classification in CT Images. <i>Computational Intelligence and Neuroscience</i> , 2023, 2023, 1-18.	1.1	2

#	ARTICLE	IF	CITATIONS
454	Information set supported deep learning architectures for improving noisy image classification. Scientific Reports, 2023, 13, .	1.6	1
455	An Empirical Analysis of State-of-Art Classification Models in an IT Incident Severity Prediction Framework. Applied Sciences (Switzerland), 2023, 13, 3843.	1.3	2
456	Transfer Learning for Image-Based Malware Detection for IoT. Sensors, 2023, 23, 3253.	2.1	3
457	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
458	Domain-guided data augmentation for deep learning on medical imaging. PLoS ONE, 2023, 18, e0282532.	1.1	3
459	Using Natural Language Processing to Predict Costume Core Vocabulary of Historical Artifacts. , 2022, , .		0
460	Development of parallel forms of a brief smell identification test useful for longitudinal testing. Behavior Research Methods, 0, , .	2.3	1
461	Automatic Classification of Histopathology Images across Multiple Cancers Based on Heterogeneous Transfer Learning. Diagnostics, 2023, 13, 1277.	1.3	4
462	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
463	Deep Learning for Microstructural Characterization of Synchrotron Radiation-Based Collagen Bundle Imaging in Peri-Implant Soft Tissues. Applied Sciences (Switzerland), 2023, 13, 4423.	1.3	4
464	Waste Detection System Based on Data Augmentation and YOLO_EC. Sensors, 2023, 23, 3646.	2.1	3
465	Envy Prediction from Usersâ€™ Photos using Convolutional Neural Networks. , 2023, , .		5
466	Question-Answering Pair Matching Based on Question Classification and Ensemble Sentence Embedding. Computer Systems Science and Engineering, 2023, 46, 3471-3489.	1.9	0
467	Applying a GAN-based classifier to improve transcriptome-based prognostication in breast cancer. PLoS Computational Biology, 2023, 19, e1011035.	1.5	3
468	A Survey on Data Augmentation Techniques. , 2023, , .		2
469	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
470	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
471	Microstructural segmentation using a union of attention guided U-Net models with different color transformed images. Scientific Reports, 2023, 13, .	1.6	6

#	ARTICLE	IF	CITATIONS
472	Automatic Identification of Lung Opacities Due to COVID-19 from Chest X-ray Imagesâ€”Focussing Attention on the Lungs. <i>Diagnostics</i> , 2023, 13, 1381.	1.3	2
473	Evaluating diagnostic content of AI-generated chest radiography: A multi-center visual Turing test. <i>PLoS ONE</i> , 2023, 18, e0279349.	1.1	3
474	GCD-PKAug: A Gradient Consistency Discriminator-Based Augmentation Method forâ€”Pharmacokinetics Time Courses. <i>Communications in Computer and Information Science</i> , 2023, , 3-14.	0.4	0
475	A Bi-FPN-Based Encoderâ€”Decoder Model for Lung Nodule Image Segmentation. <i>Diagnostics</i> , 2023, 13, 1406.	1.3	1
476	Deep Learning Approaches for Data Augmentation in Medical Imaging: A Review. <i>Journal of Imaging</i> , 2023, 9, 81.	1.7	21
477	CoDE: Contrastive Learning Method forâ€”Document-Level Event Factuality Identification. <i>Lecture Notes in Computer Science</i> , 2023, , 497-512.	1.0	0
478	Physically informed machine-learning algorithms for the identification of two-dimensional atomic crystals. <i>Scientific Reports</i> , 2023, 13, .	1.6	1
479	A convolutional attention mapping deep neural network for classification and localization of cardiomegaly on chest X-rays. <i>Scientific Reports</i> , 2023, 13, .	1.6	5
480	Self-supervised semantic segmentation of retinal pigment epithelium cells in flatmount fluorescent microscopy images. <i>Bioinformatics</i> , 0, , .	1.8	0
481	Exploring Language-Interfaced Fine-Tuning for COVID-19 Patient Survival Classification. , 2022, , .		0
482	Assessment of adjunct cognitive functioning through intake interviews integrated with natural language processing models. <i>Frontiers in Medicine</i> , 0, 10, .	1.2	0
488	Next-Speaker Prediction Based on Non-Verbal Information in Multi-Party Video Conversation. , 2023, , .		1
493	Improving Automated Evaluation ofâ€”Student Text Responses Using GPT-3.5 forâ€”Text Data Augmentation. <i>Lecture Notes in Computer Science</i> , 2023, , 217-228.	1.0	1
494	Semantic-Preserving Augmentation for Robust Image-Text Retrieval. , 2023, , .		1
495	Self-Healing Through Error Detection, Attribution, and Retraining. , 2023, , .		0
496	Comparison of Pretrained BERT Embedding and NLTK Approach for Easy Data Augmentation in Research Title Document Classification Task. , 2022, , .		0
502	Leveraging Synonyms and Antonyms for Data Augmentation in Sarcasm Identification. <i>Lecture Notes in Networks and Systems</i> , 2023, , 703-713.	0.5	0
505	Text Data Augmentation Using Generative Adversarial Networks, Back Translation and EDA. <i>Communications in Computer and Information Science</i> , 2023, , 391-401.	0.4	0

#	ARTICLE	IF	CITATIONS
508	AVCA: Autonomous Virtual Cognitive Assessment. Lecture Notes in Computer Science, 2023, , 26-47.	1.0	0
520	Revisiting Data Augmentation in Model Compression: An Empirical and Comprehensive Study. , 2023, , .		0
522	A deep learning framework to generate synthetic mobility data. , 2023, , .		0
523	Modulation Recognition Method of Underwater Acoustic Signal Based on Parallel Network. , 2023, , .		0
524	An Augmentative and Alternative Communication Synthetic Corpus for Brazilian Portuguese. , 2023, , .		0
528	A Unified Framework for Detecting Domain and Intent Misclassifications in Large-Scale Dialogue Systems. , 2023, , .		0
532	Enhancing Sentiment Analysis Models through Multi-Technique Data Augmentation: A Study with IndoBERT. , 2023, , .		0
541	Computational Approaches to Persuasion Detection and Potential of Use in Social Engineering. Lecture Notes in Networks and Systems, 2023, , 394-409.	0.5	0
545	A Literature Mining Method Based on Curve Graph Information in Literature. , 2023, , .		0
546	Causal Inference and Natural Language Processing. , 2023, , 189-206.		0
548	A Token-Prioritization Strategy for Handling Data Imbalance in Network-Change Ticket Classification. , 2023, , .		0
550	Optimization of SVM Classification Accuracy with Bayesian Optimization Utilizing Data Augmentation. , 2023, , .		0
552	Robust Representation Learning for Speech Emotion Recognition with Moment Exchange. , 2023, , .		0
557	Learning approaches and tricks. Unsupervised and Semi-supervised Learning, 2024, , 105-130.	0.4	0
558	Iterative Mask Filling: An Effective Text Augmentation Method Using Masked Language Modeling. Communications in Computer and Information Science, 2024, , 450-463.	0.4	0
560	tf.data service. , 2023, , .		1
562	Automatic Generation of Training Data for AI Object Detection in Terms of Technical Drawings in Engineering. Lecture Notes in Networks and Systems, 2023, , 643-651.	0.5	0
565	Probabilistic Linguistic Knowledge and Token-Level Text Augmentation. Signals and Communication Technology, 2024, , 1-20.	0.4	0

#	ARTICLE	IF	CITATIONS
566	Random Boxes Are Open-world Object Detectors. , 2023, , .		0
569	Uncertainty Estimation for a Dual-Embedding based Entity Extraction Service. , 2023, , .		0
572	GDEMO-HAT: Knowledge-guided Medical Text Classification Using Heterogeneous Graph-based Dependency Modeling with Hierarchical Attention. , 2023, , .		0
573	Pest and Disease Detection Based on Data Augmentation. , 2023, , .		0
576	Automated Essay Grading of Constructive Response Test Responses for Mechanical Engineering Students. , 2023, , .		0
580	From Big to Small Without Losing It All: Text Augmentation with ChatGPT for Efficient Sentiment Analysis. , 2023, , .		0
584	Enhancing Official Policy Document Classification with BERT and Keyword Augmentation. , 2023, , .		0
589	Fine-Tuning a Named Entity Recognition Model using Data Augmentation and Oracle-based learning. , 2023, , .		0
590	Language Resource Acquisition for Low-Resource Languages in Digital Discourses. Advances in Computational Intelligence and Robotics Book Series, 2024, , 11-24.	0.4	0