

Deep Learning in Medical Image Analysis

Annual Review of Biomedical Engineering
19, 221-248

DOI: [10.1146/annurev-bioeng-071516-044442](https://doi.org/10.1146/annurev-bioeng-071516-044442)

Citation Report

#	ARTICLE	IF	CITATIONS
1	Deep Learning in Gastrointestinal Endoscopy. Critical Reviews in Biomedical Engineering, 2016, 44, 493-504.	0.5	8
2	Comparison of machine learning methods for classifying mediastinal lymph node metastasis of non-small cell lung cancer from 18F-FDG PET/CT images. EJNMMI Research, 2017, 7, 11.	1.1	194
3	Breast Cancer Multi-classification from Histopathological Images with Structured Deep Learning Model. Scientific Reports, 2017, 7, 4172.	1.6	354
4	Ultrasound Standard Plane Detection Using a Composite Neural Network Framework. IEEE Transactions on Cybernetics, 2017, 47, 1576-1586.	6.2	118
5	Computational medicine: A cybernetic eye for rare disease. Nature Biomedical Engineering, 2017, 1, .	11.6	9
6	Diagnosis of attention deficit hyperactivity disorder using deep belief network based on greedy approach. , 2017, , .		10
7	High-Definition Medicine. Cell, 2017, 170, 828-843.	13.5	168
8	Brain tumor segmentation using cascaded deep convolutional neural network. , 2017, 2017, 1998-2001.		68
9	Medical Image Synthesis with Context-Aware Generative Adversarial Networks. Lecture Notes in Computer Science, 2017, 10435, 417-425.	1.0	321
10	Surgical data science for next-generation interventions. Nature Biomedical Engineering, 2017, 1, 691-696.	11.6	283
11	An Early Experience Toward Developing Computer Aided Diagnosis for Gram-Stained Smears Images. , 2017, , .		7
12	A deep learning approach to estimate chemically-treated collagenous tissue nonlinear anisotropic stress-strain responses from microscopy images. Acta Biomaterialia, 2017, 63, 227-235.	4.1	40
13	A survey on deep learning in medical image analysis. Medical Image Analysis, 2017, 42, 60-88.	7.0	7,976
14	Searching for prostate cancer by fully automated magnetic resonance imaging classification: deep learning versus non-deep learning. Scientific Reports, 2017, 7, 15415.	1.6	131
15	Deep Multimodal Learning: A Survey on Recent Advances and Trends. IEEE Signal Processing Magazine, 2017, 34, 96-108.	4.6	509
16	Automatic skin lesion segmentation. , 2017, , .		5
17	MagNet. , 2017, , .		551
18	A pilot study to utilize a deep convolutional network to segment lungs with complex opacities. , 2017, , .		3

#	ARTICLE	IF	CITATIONS
19	Bio-medical image fusion based on phase-congruency and guided filter. , 2017, , .		3
20	Random Forest Algorithm for the Classification of Neuroimaging Data in Alzheimer's Disease: A Systematic Review. Frontiers in Aging Neuroscience, 2017, 9, 329.	1.7	379
21	Gastric precancerous diseases classification using CNN with a concise model. PLoS ONE, 2017, 12, e0185508.	1.1	50
22	Interleaved 3D CNNs for joint segmentation of small volume structures in head and neck CT images. Medical Physics, 2018, 45, 2063-2075.	1.6	119
23	Automatic classification of tissue malignancy for breast carcinoma diagnosis. Computers in Biology and Medicine, 2018, 96, 41-51.	3.9	57
24	Improving the Accuracy of Simultaneously Reconstructed Activity and Attenuation Maps Using Deep Learning. Journal of Nuclear Medicine, 2018, 59, 1624-1629.	2.8	124
25	On modeling. Magnetic Resonance in Medicine, 2018, 79, 3172-3193.	1.9	286
26	Machine learning for medical ultrasound: status, methods, and future opportunities. Abdominal Radiology, 2018, 43, 786-799.	1.0	161
27	Review on plantar data analysis for disease diagnosis. Biocybernetics and Biomedical Engineering, 2018, 38, 342-361.	3.3	38
28	Automatic Organ Segmentation for CT Scans Based on Super-Pixel and Convolutional Neural Networks. Journal of Digital Imaging, 2018, 31, 748-760.	1.6	45
29	Computer-aided diagnosis of prostate cancer using a deep convolutional neural network from multiparametric MRI. Journal of Magnetic Resonance Imaging, 2018, 48, 1570-1577.	1.9	142
30	Recent Deep Learning Methods for Melanoma Detection: A Review. Communications in Computer and Information Science, 2018, , 118-132.	0.4	17
31	Opportunities and obstacles for deep learning in biology and medicine. Journal of the Royal Society Interface, 2018, 15, 20170387.	1.5	1,282
32	Deformable Image Registration Using a Cue-Aware Deep Regression Network. IEEE Transactions on Biomedical Engineering, 2018, 65, 1900-1911.	2.5	86
33	Brain Metabolic, Structural, and Behavioral Pattern Learning for Early Predictive Diagnosis of Alzheimer's Disease. Journal of Alzheimer's Disease, 2018, 63, 935-939.	1.2	10
34	Superpixel-based and boundary-sensitive convolutional neural network for automated liver segmentation. Physics in Medicine and Biology, 2018, 63, 095017.	1.6	73
35	Multi-scale context-aware networks for quantitative assessment of colorectal liver metastases. , 2018, , .		3
36	Automatic breast ultrasound image segmentation: A survey. Pattern Recognition, 2018, 79, 340-355.	5.1	166

#	ARTICLE	IF	CITATIONS
37	Machine Learning in Medical Imaging. <i>Journal of the American College of Radiology</i> , 2018, 15, 512-520.	0.9	383
38	Use of transfer learning to detect diffuse degenerative hepatic diseases from ultrasound images in dogs: A methodological study. <i>Veterinary Journal</i> , 2018, 233, 35-40.	0.6	31
39	Deep EHR: A Survey of Recent Advances in Deep Learning Techniques for Electronic Health Record (EHR) Analysis. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2018, 22, 1589-1604.	3.9	782
40	NiftyNet: a deep-learning platform for medical imaging. <i>Computer Methods and Programs in Biomedicine</i> , 2018, 158, 113-122.	2.6	407
41	DAGAN: Deep De-Aliasing Generative Adversarial Networks for Fast Compressed Sensing MRI Reconstruction. <i>IEEE Transactions on Medical Imaging</i> , 2018, 37, 1310-1321.	5.4	724
42	Fully Automatic Lesion Localization and Characterization: Application to Brain Tumors Using Multiparametric Quantitative MRI Data. <i>IEEE Transactions on Medical Imaging</i> , 2018, 37, 1678-1689.	5.4	36
43	Deep Learning Applications in Medical Image Analysis. <i>IEEE Access</i> , 2018, 6, 9375-9389.	2.6	903
44	Machine Learning Methods for Histopathological Image Analysis. <i>Computational and Structural Biotechnology Journal</i> , 2018, 16, 34-42.	1.9	573
45	Machine learning in cardiovascular medicine: are we there yet?. <i>Heart</i> , 2018, 104, 1156-1164.	1.2	329
46	A Survey on Computer Vision for Assistive Medical Diagnosis From Faces. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2018, 22, 1497-1511.	3.9	114
47	Core microbiomes for sustainable agroecosystems. <i>Nature Plants</i> , 2018, 4, 247-257.	4.7	639
48	Biomedical Informatics on the Cloud. <i>Circulation Research</i> , 2018, 122, 1290-1301.	2.0	22
49	Deep Learning Enhanced Mobile-Phone Microscopy. <i>ACS Photonics</i> , 2018, 5, 2354-2364.	3.2	142
50	Super-resolution reconstruction of MR image with a novel residual learning network algorithm. <i>Physics in Medicine and Biology</i> , 2018, 63, 085011.	1.6	88
51	Multi-Modality Cascaded Convolutional Neural Networks for Alzheimer's Disease Diagnosis. <i>Neuroinformatics</i> , 2018, 16, 295-308.	1.5	251
52	Deep Learning for Prediction of Obstructive Disease From Fast Myocardial Perfusion SPECT. <i>JACC: Cardiovascular Imaging</i> , 2018, 11, 1654-1663.	2.3	246
53	SV-RCNet: Workflow Recognition From Surgical Videos Using Recurrent Convolutional Network. <i>IEEE Transactions on Medical Imaging</i> , 2018, 37, 1114-1126.	5.4	184
54	Deep learning applications in ophthalmology. <i>Current Opinion in Ophthalmology</i> , 2018, 29, 254-260.	1.3	91

#	ARTICLE	IF	CITATIONS
55	MIMoSA: An Automated Method for Intermodal Segmentation Analysis of Multiple Sclerosis Brain Lesions. <i>Journal of Neuroimaging</i> , 2018, 28, 389-398.	1.0	44
56	Zero-Echo-Time and Dixon Deep Pseudo-CT (ZeDD CT): Direct Generation of Pseudo-CT Images for Pelvic PET/MRI Attenuation Correction Using Deep Convolutional Neural Networks with Multiparametric MRI. <i>Journal of Nuclear Medicine</i> , 2018, 59, 852-858.	2.8	206
57	Large-scale retrieval for medical image analytics: A comprehensive review. <i>Medical Image Analysis</i> , 2018, 43, 66-84.	7.0	151
58	Radiomics in Brain Tumor: Image Assessment, Quantitative Feature Descriptors, and Machine-Learning Approaches. <i>American Journal of Neuroradiology</i> , 2018, 39, 208-216.	1.2	281
59	Prediction of breast cancer risk using a machine learning approach embedded with a locality preserving projection algorithm. <i>Physics in Medicine and Biology</i> , 2018, 63, 035020.	1.6	70
60	Machine learning in heart failure. <i>Current Opinion in Cardiology</i> , 2018, 33, 190-195.	0.8	71
61	An Efficient Methodology of Brain Abnormalities Detection using CNN Deep Learning Network. , 2018, , .		15
62	Pulmonary Textures Classification Using A Deep Neural Network with Appearance and Geometry Cues. , 2018, , .		4
63	Classification of Benign and Malignant Breast Mass in Digital Mammograms with Convolutional Neural Networks. , 2018, , .		7
64	A Tale of a Deep Learning Approach to Image Forgery Detection. , 2018, , .		4
65	Detection of epithelial growth factor receptor (EGFR) mutations on CT images of patients with lung adenocarcinoma using radiomics and/or multi-level residual convolutionary neural networks. <i>Journal of Thoracic Disease</i> , 2018, 10, 6624-6635.	0.6	31
66	Multicenter Imaging Studies: Automated Approach to Evaluating Data Variability and the Role of Outliers. , 2018, , .		1
67	Deep Learning and Medical Diagnosis: A Review of Literature. <i>Multimodal Technologies and Interaction</i> , 2018, 2, 47.	1.7	278
68	Research on Convolutional Neural Network Model for Sonar IMAGE Segmentation. <i>MATEC Web of Conferences</i> , 2018, 220, 10004.	0.1	3
69	Data-driven deconvolution for large eddy simulations of Kraichnan turbulence. <i>Physics of Fluids</i> , 2018, 30, 125109.	1.6	72
70	A Practical Review on Medical Image Registration: From Rigid to Deep Learning Based Approaches. , 2018, , .		16
71	Deep Bv: A Fully Automated System for Brain Ventricle Localization and Segmentation In 3D Ultrasound Images of Embryonic Mice. , 2018, 2018, .		9
72	Training Region Selector for Gram Stained Slides with Limited Data: A Data Distillation Approach. , 2018, , .		0

#	ARTICLE	IF	CITATIONS
73	DeepPCA Based Objective Function for Melanoma Detection. , 2018, , .		1
74	Deep Learning and its Importance for Early Signature of Neuronal Disorders. , 2018, , .		14
75	Using deep-learning to predict outcome of patients with Parkinsonâ€™s disease. , 2018, , .		15
76	An Argument in Favor of Strong Scaling for Deep Neural Networks with Small Datasets. , 2018, , .		0
77	Leveraging Disease Progression Learning for Medical Image Recognition. , 2018, , .		0
78	Medical Images Sequence Normalization and Augmentation: Improve Liver Tumor Segmentation from Small Dataset. , 2018, , .		3
80	Ensemble of subspace discriminant classifiers for schistosomal liver fibrosis staging in mice microscopic images. Health Information Science and Systems, 2018, 6, 21.	3.4	33
81	Performance of Deep Learning Architectures and Transfer Learning for Detecting Glaucomatous Optic Neuropathy in Fundus Photographs. Scientific Reports, 2018, 8, 16685.	1.6	211
82	Automatic Analysis of Lesion in Cardiovascular Image using Fully Convolutional Neural Networks. , 2018, , .		1
83	Chest X-Ray Analysis of Tuberculosis by Deep Learning with Segmentation and Augmentation. , 2018, , .		74
84	Localisation of Colorectal Polyps by Convolutional Neural Network Features Learnt from White Light and Narrow Band Endoscopic Images of Multiple Databases. , 2018, 2018, 4142-4145.		30
85	Deep Radiomic Analysis of MRI Related to Alzheimerâ€™s Disease. IEEE Access, 2018, 6, 58213-58221.	2.6	67
86	Deep transfer learning-based hologram classification for molecular diagnostics. Scientific Reports, 2018, 8, 17003.	1.6	48
87	A deep learning approach to photovoltaic cell defect classification. , 2018, , .		5
88	Deep Learning Electronic Cleansing for Single- and Dual-Energy CT Colonography. Radiographics, 2018, 38, 2034-2050.	1.4	23
89	Intravascular Imaging and Computer Assisted Stenting and Large-Scale Annotation of Biomedical Data and Expert Label Synthesis. Lecture Notes in Computer Science, 2018, , .	1.0	1
90	Hyper Parameters Selection for Image Classification in Convolutional Neural Networks. , 2018, , .		7
91	Breast cancer histology images classification: Training from scratch or transfer learning?. ICT Express, 2018, 4, 247-254.	3.3	187

#	ARTICLE	IF	CITATIONS
92	A new approach to predict lymph node metastasis in solid lung adenocarcinoma: a radiomics nomogram. <i>Journal of Thoracic Disease</i> , 2018, 10, S807-S819.	0.6	60
93	Binary Seeds Auto Generation Model for Knee Cartilage Segmentation. , 2018, , .		3
94	An Improved ORB Image Feature Matching Algorithm Based on SURF. , 2018, , .		19
95	Digital Microscopy, Image Analysis, and Virtual Slide Repository. <i>ILAR Journal</i> , 2018, 59, 66-79.	1.8	45
96	Facial Expression Recognition Using Convolutional Neural Network. , 2018, , .		30
97	Sparse coding of pathology slides compared to transfer learning with deep neural networks. <i>BMC Bioinformatics</i> , 2018, 19, 489.	1.2	10
98	The use of deep learning to automate the segmentation of the skeleton from CT volumes of pigs1. <i>Translational Animal Science</i> , 2018, 2, 324-335.	0.4	11
99	Point-of-care, smartphone-based, dual-modality, dual-view, oral cancer screening device with neural network classification for low-resource communities. <i>PLoS ONE</i> , 2018, 13, e0207493.	1.1	101
100	Multi-Modality Imaging. , 2018, , .		1
101	Automatic Multi-Atlas Segmentation for Abdominal Images Using Template Construction and Robust Principal Component Analysis. , 2018, , .		1
102	Glioma Grading on Conventional MR Images: A Deep Learning Study With Transfer Learning. <i>Frontiers in Neuroscience</i> , 2018, 12, 804.	1.4	216
103	SequentialSegNet: Combination with Sequential Feature for Multi-Organ Segmentation. , 2018, , .		8
104	Automatic and Efficient Standard Plane Recognition in Fetal Ultrasound Images via Multi-scale Dense Networks. <i>Lecture Notes in Computer Science</i> , 2018, , 160-168.	1.0	8
105	Distinction between phyllodes tumor and fibroadenoma in breast ultrasound using deep learning image analysis. <i>European Journal of Radiology Open</i> , 2018, 5, 165-170.	0.7	32
106	On the Effect of Inter-observer Variability for a Reliable Estimation of Uncertainty of Medical Image Segmentation. <i>Lecture Notes in Computer Science</i> , 2018, , 682-690.	1.0	35
107	Alzheimer's disease diagnosis based on multiple cluster dense convolutional networks. <i>Computerized Medical Imaging and Graphics</i> , 2018, 70, 101-110.	3.5	114
108	CT-based radiomics signature for differentiating solitary granulomatous nodules from solid lung adenocarcinoma. <i>Lung Cancer</i> , 2018, 125, 109-114.	0.9	56
109	A methodological approach for deep learning to distinguish between meningiomas and gliomas on canine MR-images. <i>BMC Veterinary Research</i> , 2018, 14, 317.	0.7	38

#	ARTICLE	IF	CITATIONS
110	Quantitative imaging of cancer in the postgenomic era: Radio(genom)ics, deep learning, and habitats. <i>Cancer</i> , 2018, 124, 4633-4649.	2.0	125
111	A competitive scheme for storing sparse representation of X-Ray medical images. <i>PLoS ONE</i> , 2018, 13, e0201455.	1.1	6
112	Deep learning enables automated scoring of liver fibrosis stages. <i>Scientific Reports</i> , 2018, 8, 16016.	1.6	81
113	Prediction of FFR from IVUS Images Using Machine Learning. <i>Lecture Notes in Computer Science</i> , 2018, , 73-81.	1.0	2
114	Application of Radiomics and Decision Support Systems for Breast MR Differential Diagnosis. <i>Computational and Mathematical Methods in Medicine</i> , 2018, 2018, 1-8.	0.7	22
115	Combining Heterogeneously Labeled Datasets For Training Segmentation Networks. <i>Lecture Notes in Computer Science</i> , 2018, , 276-284.	1.0	5
116	Fusion of deep learning models of MRI scans, Mini-“Mental State Examination, and logical memory test enhances diagnosis of mild cognitive impairment. <i>Alzheimer’s and Dementia: Diagnosis, Assessment and Disease Monitoring</i> , 2018, 10, 737-749.	1.2	50
117	A novel computational method for automatic segmentation, quantification and comparative analysis of immunohistochemically labeled tissue sections. <i>BMC Bioinformatics</i> , 2018, 19, 357.	1.2	17
118	Nanoparticles Based Drug Delivery for Tissue Regeneration Using Biodegradable Scaffolds: a Review. <i>Current Pathobiology Reports</i> , 2018, 6, 219-224.	1.6	25
119	Contact Lens Detection using Transfer Learning with Deep Representations. , 2018, , .		8
120	Classification and mutation prediction from non-“small cell lung cancer histopathology images using deep learning. <i>Nature Medicine</i> , 2018, 24, 1559-1567.	15.2	1,768
121	Handwritten Bangla Character Recognition Using the State-of-the-Art Deep Convolutional Neural Networks. <i>Computational Intelligence and Neuroscience</i> , 2018, 2018, 1-13.	1.1	67
122	Retinal Image Understanding Emerges from Self-Supervised Multimodal Reconstruction. <i>Lecture Notes in Computer Science</i> , 2018, , 321-328.	1.0	18
123	Densely Deep Supervised Networks with Threshold Loss for Cancer Detection in Automated Breast Ultrasound. <i>Lecture Notes in Computer Science</i> , 2018, , 641-648.	1.0	17
124	Semantic Organ Segmentation in 3D Whole-Body MR Images. , 2018, , .		5
125	Quantitative-Morphological and Cytological Analyses in Leukemia. , 0, , .		1
126	Survey on deep learning for radiotherapy. <i>Computers in Biology and Medicine</i> , 2018, 98, 126-146.	3.9	219
127	Artificial intelligence in radiology. <i>Nature Reviews Cancer</i> , 2018, 18, 500-510.	12.8	1,953

#	ARTICLE	IF	CITATIONS
128	Monitoring tool usage in surgery videos using boosted convolutional and recurrent neural networks. <i>Medical Image Analysis</i> , 2018, 47, 203-218.	7.0	53
129	Cell dynamic morphology classification using deep convolutional neural networks. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2018, 93, 628-638.	1.1	17
130	Polyp detection during colonoscopy using a regression-based convolutional neural network with a tracker. <i>Pattern Recognition</i> , 2018, 83, 209-219.	5.1	122
131	GAN-based synthetic brain MR image generation. , 2018, , .		173
132	Current Applications and Future Impact of Machine Learning in Radiology. <i>Radiology</i> , 2018, 288, 318-328.	3.6	541
133	Automatic lesion detection and segmentation of 18F-FET PET in gliomas: A full 3D U-Net convolutional neural network study. <i>PLoS ONE</i> , 2018, 13, e0195798.	1.1	112
134	Towards Light-Weight Deep Learning Based Malware Detection. , 2018, , .		20
136	A Data Mining Framework for Glaucoma Decision Support Based on Optic Nerve Image Analysis Using Machine Learning Methods. <i>Journal of Healthcare Informatics Research</i> , 2018, 2, 370-401.	5.3	10
137	Deep Learning Approach for Evaluating Knee MR Images: Achieving High Diagnostic Performance for Cartilage Lesion Detection. <i>Radiology</i> , 2018, 289, 160-169.	3.6	193
138	Gastric Pathology Image Classification Using Stepwise Fine-Tuning for Deep Neural Networks. <i>Journal of Healthcare Engineering</i> , 2018, 2018, 1-13.	1.1	52
139	Learning-based nonparametric autofocusing for digital holography. <i>Optica</i> , 2018, 5, 337.	4.8	180
140	Personalizing Medicine Through Hybrid Imaging and Medical Big Data Analysis. <i>Frontiers in Physics</i> , 2018, 6, .	1.0	22
141	Camera-Based Peripheral Edema Measurement Using Machine Learning. , 2018, , .		1
142	Deep residual network with regularised fisher framework for detection of melanoma. <i>IET Computer Vision</i> , 2018, 12, 1096-1104.	1.3	38
143	Classification of Alzheimer's Disease by Combination of Convolutional and Recurrent Neural Networks Using FDG-PET Images. <i>Frontiers in Neuroinformatics</i> , 2018, 12, 35.	1.3	168
144	Machine Learning and Radiogenomics: Lessons Learned and Future Directions. <i>Frontiers in Oncology</i> , 2018, 8, 228.	1.3	54
145	A similarity-based approach to leverage multi-cohort medical data on the diagnosis and prognosis of Alzheimer's disease. <i>GigaScience</i> , 2018, 7, .	3.3	5
146	Information-Based Medicine in Glioma Patients: A Clinical Perspective. <i>Computational and Mathematical Methods in Medicine</i> , 2018, 2018, 1-6.	0.7	9

#	ARTICLE	IF	CITATIONS
147	DDA: A deep neural network-based cognitive system for IoT-aided dermatosis discrimination. Ad Hoc Networks, 2018, 80, 95-103.	3.4	13
148	AI for medical imaging goes deep. Nature Medicine, 2018, 24, 539-540.	15.2	138
149	A machine learning approach as a surrogate of finite element analysis-based inverse method to estimate the zero-pressure geometry of human thoracic aorta. International Journal for Numerical Methods in Biomedical Engineering, 2018, 34, e3103.	1.0	29
150	Quiet sleep detection in preterm infants using deep convolutional neural networks. Journal of Neural Engineering, 2018, 15, 066006.	1.8	47
151	From hype to reality: data science enabling personalized medicine. BMC Medicine, 2018, 16, 150.	2.3	278
152	An unsupervised convolutional neural network-based algorithm for deformable image registration. Physics in Medicine and Biology, 2018, 63, 185017.	1.6	48
153	Development of deep neural network for individualized hepatobiliary toxicity prediction after liver <scp>SBRT</scp>. Medical Physics, 2018, 45, 4763-4774.	1.6	103
154	Multi-Modality Imaging: A Software Fusion and Image-Guided Therapy Perspective. Frontiers in Physics, 2018, 6, .	1.0	6
155	Beyond Retinal Layers: A Deep Voting Model for Automated Geographic Atrophy Segmentation in SD-OCT Images. Translational Vision Science and Technology, 2018, 7, 1.	1.1	54
156	Echocardiography segmentation based on a shape-guided deformable model driven by a fully convolutional network prior. , 2018, , .		12
157	Integrating support vector machine and graph cuts for medical image segmentation. Journal of Visual Communication and Image Representation, 2018, 55, 157-165.	1.7	25
158	3D fully convolutional networks for co-segmentation of tumors on PET-CT images. , 2018, 2018, 228-231.		60
159	Unsupervised Reverse Domain Adaptation for Synthetic Medical Images via Adversarial Training. IEEE Transactions on Medical Imaging, 2018, 37, 2572-2581.	5.4	164
160	Improving tumor co-segmentation on PET-CT images with 3D co-matting. , 2018, 2018, 224-227.		3
161	<i>Natsumushi</i>: Image measuring software for entomological studies. Entomological Science, 2018, 21, 347-360.	0.3	13
162	Exploring the use of adaptive gradient methods in effective deep learning systems. , 2018, , .		1
163	Deep learning model management for coronary heart disease early warning research. , 2018, , .		5
164	Emerging Intraoperative Imaging Modalities to Improve Surgical Precision. Molecular Imaging and Biology, 2018, 20, 705-715.	1.3	61

#	ARTICLE	IF	CITATIONS
165	Quantitative Phase Imaging and Artificial Intelligence: A Review. IEEE Journal of Selected Topics in Quantum Electronics, 2019, 25, 1-14.	1.9	123
166	Towards Automated Semantic Segmentation in Prenatal Volumetric Ultrasound. IEEE Transactions on Medical Imaging, 2019, 38, 180-193.	5.4	77
167	Smart connected electronic gastroscope system for gastric cancer screening using multi-column convolutional neural networks. International Journal of Production Research, 2019, 57, 6795-6806.	4.9	29
168	Multi-scale CNN based on region proposals for efficient breast abnormality recognition. Multimedia Tools and Applications, 2019, 78, 12939-12960.	2.6	20
169	Non-invasive imaging techniques and assessment of carotid vasa vasorum neovascularization: Promises and pitfalls. Trends in Cardiovascular Medicine, 2019, 29, 71-80.	2.3	8
170	Computer-Aided Diagnostic System for Early Detection of Acute Renal Transplant Rejection Using Diffusion-Weighted MRI. IEEE Transactions on Biomedical Engineering, 2019, 66, 539-552.	2.5	39
171	User-Guided Segmentation of Multi-modality Medical Imaging Datasets with ITK-SNAP. Neuroinformatics, 2019, 17, 83-102.	1.5	97
172	Machine learning approach for homolog chromosome classification. International Journal of Imaging Systems and Technology, 2019, 29, 161-167.	2.7	18
173	Hospital Information Technology is critical to the success of a point-of-care ultrasound program. American Journal of Emergency Medicine, 2019, 37, 558-559.	0.7	3
174	Automated Layer Segmentation of Retinal Optical Coherence Tomography Images Using a Deep Feature Enhanced Structured Random Forests Classifier. IEEE Journal of Biomedical and Health Informatics, 2019, 23, 1404-1416.	3.9	44
175	Deep Learning-Based Structure-Activity Relationship Modeling for Multi-Category Toxicity Classification: A Case Study of 10K Tox21 Chemicals With High-Throughput Cell-Based Androgen Receptor Bioassay Data. Frontiers in Physiology, 2019, 10, 1044.	1.3	52
176	Medical Image Segmentation Algorithm Based on Feedback Mechanism CNN. Contrast Media and Molecular Imaging, 2019, 2019, 1-13.	0.4	24
177	Automated Segmentation of Tissues Using CT and MRI: A Systematic Review. Academic Radiology, 2019, 26, 1695-1706.	1.3	82
178	Brain Image Recognition Algorithm and High Performance Computing of Internet of Medical Things Based on Convolutional Neural Network. IEEE Access, 2019, 7, 108633-108646.	2.6	2
179	Early Diagnosis of Alzheimer's Disease Using Deep Learning. , 2019, , .		44
180	CNN-based Method for Lung Cancer Detection in Whole Slide Histopathology Images. , 2019, , .		50
181	Intelligent Imaging: Anatomy of Machine Learning and Deep Learning. Journal of Nuclear Medicine Technology, 2019, 47, 273-281.	0.4	42
182	A Comparison of Shallow and Deep Learning Methods for Predicting Cognitive Performance of Stroke Patients From MRI Lesion Images. Frontiers in Neuroinformatics, 2019, 13, 53.	1.3	70

#	ARTICLE	IF	CITATIONS
183	ISeeU: Visually interpretable deep learning for mortality prediction inside the ICU. Journal of Biomedical Informatics, 2019, 98, 103269.	2.5	54
184	Deep learning in drug discovery: opportunities, challenges and future prospects. Drug Discovery Today, 2019, 24, 2017-2032.	3.2	182
185	Evaluation of algorithms for Multi-Modality Whole Heart Segmentation: An open-access grand challenge. Medical Image Analysis, 2019, 58, 101537.	7.0	180
186	MRI Gibbsâ€ringing artifact reduction by means of machine learning using convolutional neural networks. Magnetic Resonance in Medicine, 2019, 82, 2133-2145.	1.9	26
187	Deep membrane systems for multitask segmentation in diabetic retinopathy. Knowledge-Based Systems, 2019, 183, 104887.	4.0	42
188	Multi-projection deep learning network for segmentation of 3D medical images. Pattern Recognition Letters, 2019, 125, 791-797.	2.6	26
189	HaraliCU: GPU-Powered Haralick Feature Extraction on Medical Images Exploiting the Full Dynamics of Gray-Scale Levels. Lecture Notes in Computer Science, 2019, , 304-318.	1.0	10
190	Image quality assessment for advertising applications based on neural network. Journal of Visual Communication and Image Representation, 2019, 63, 102593.	1.7	1
191	Transfer Learning for Alzheimer's Disease Detection on MRI Images. , 2019, , .		41
192	An Improved Semi-Supervised Learning Method on Cataract Fundus Image Classification. , 2019, , .		11
193	Region Extraction and Classification of Skin Cancer: A Heterogeneous framework of Deep CNN Features Fusion and Reduction. Journal of Medical Systems, 2019, 43, 289.	2.2	167
194	Explainable Deep Learning for Analysing Brain Data. , 2019, , .		0
195	CT Metal Artefacts Reduction Using Convolutional Neural Networks. , 2019, , .		2
196	Implementation Strategy of a CNN Model Affects the Performance of CT Assessment of EGFR Mutation Status in Lung Cancer Patients. IEEE Access, 2019, 7, 64583-64591.	2.6	15
197	Intracranial Vascular Structure Extraction: A Machine Learning Approach. IEEE Access, 2019, 7, 100933-100942.	2.6	2
198	Computational pathology definitions, best practices, and recommendations for regulatory guidance: a white paper from the Digital Pathology Association. Journal of Pathology, 2019, 249, 286-294.	2.1	263
199	Deep learning-based digital subtraction angiography image generation. International Journal of Computer Assisted Radiology and Surgery, 2019, 14, 1775-1784.	1.7	21
200	Probing the 3D architecture of the plant nucleus with microscopy approaches: challenges and solutions. Nucleus, 2019, 10, 181-212.	0.6	30

#	ARTICLE	IF	CITATIONS
201	Data Driven Intelligent Diagnostics for Parkinsonâ€™s Disease. IEEE Access, 2019, 7, 106941-106950.	2.6	19
202	Morphology-based classification of mycobacteria-infected macrophages with convolutional neural network: reveal EsxA-induced morphologic changes indistinguishable by naked eyes. Translational Research, 2019, 212, 1-13.	2.2	6
203	Deep Learning and Big Data in Healthcare: A Double Review for Critical Beginners. Applied Sciences (Switzerland), 2019, 9, 2331.	1.3	71
204	Deep learning in medical image analysis: A third eye for doctors. Journal of Stomatology, Oral and Maxillofacial Surgery, 2019, 120, 279-288.	0.5	152
205	Automatic Kidney Lesion Detection for CT Images Using Morphological Cascade Convolutional Neural Networks. IEEE Access, 2019, 7, 83001-83011.	2.6	25
206	Image Registration in Medical Robotics and Intelligent Systems: Fundamentals and Applications. Advanced Intelligent Systems, 2019, 1, 1900048.	3.3	13
207	Applications for deep learning in ecology. Methods in Ecology and Evolution, 2019, 10, 1632-1644.	2.2	302
208	Image Based Brain Segmentation: From Multi-Atlas Fusion to Deep Learning. Current Medical Imaging, 2019, 15, 443-452.	0.4	8
209	Virtual Hospital with Real-Time Image Diagnosis. Journal of Physics: Conference Series, 2019, 1302, 042051.	0.3	0
210	Prediction of BAP1 Expression in Uveal Melanoma Using Densely-Connected Deep Classification Networks. Cancers, 2019, 11, 1579.	1.7	29
211	The application of artificial neural networks in metabolomics: a historical perspective. Metabolomics, 2019, 15, 142.	1.4	66
212	A memristor-based transient chaotic neural network model and its application. Journal of Applied Physics, 2019, 126, .	1.1	6
214	Application of Deep Learning in Food: A Review. Comprehensive Reviews in Food Science and Food Safety, 2019, 18, 1793-1811.	5.9	291
215	Toward a grey box approach for cardiovascular physiome. Korean Journal of Physiology and Pharmacology, 2019, 23, 305.	0.6	5
217	Deep Neural Network for Automatic Characterization of Lesions on 68Ga-PSMA PET/CT Images. , 2019, 2019, 951-954.		7
218	A distance map regularized CNN for cardiac cine MR image segmentation. Medical Physics, 2019, 46, 5637-5651.	1.6	53
219	Synthesizing diffusion tensor imaging from functional MRI using fully convolutional networks. Computers in Biology and Medicine, 2019, 115, 103528.	3.9	6
220	Fusing of Medical Images and Reports in Diagnostics of Brain Diseases. , 2019, , .		4

#	ARTICLE	IF	CITATIONS
221	Machine Learning and Deep Learning in Medical Imaging: Intelligent Imaging. <i>Journal of Medical Imaging and Radiation Sciences</i> , 2019, 50, 477-487.	0.2	217
222	Artificial Intelligence in Interventional Radiology: A Literature Review and Future Perspectives. <i>Journal of Oncology</i> , 2019, 2019, 1-5.	0.6	21
225	Data-Driven Adversarial Learning for Sinogram-Based Iterative Low-Dose CT Image Reconstruction. , 2019, , .		2
226	Deep learning-based accurate and rapid tracking of 3D positional information of microparticles using digital holographic microscopy. <i>Experiments in Fluids</i> , 2019, 60, 1.	1.1	9
227	Human-level recognition of blast cells in acute myeloid leukaemia with convolutional neural networks. <i>Nature Machine Intelligence</i> , 2019, 1, 538-544.	8.3	122
228	Accuracy of whole genome prediction with single-step GBLUP in a Chinese yellow-feathered chicken population. <i>Livestock Science</i> , 2019, 230, 103817.	0.6	10
229	3D Convolutional Neural Networks for Remote Pulse Rate Measurement and Mapping from Facial Video. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 4364.	1.3	76
230	A Neuronal Morphology Classification Approach Based on Locally Cumulative Connected Deep Neural Networks. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 3876.	1.3	10
231	Evaluation of a deep learning-based pelvic synthetic CT generation technique for MRI-based prostate proton treatment planning. <i>Physics in Medicine and Biology</i> , 2019, 64, 205022.	1.6	45
232	Deep reinforcement learning for quantum Szilard engine optimization. <i>Physical Review A</i> , 2019, 100, .	1.0	11
233	Brain and Human Body Modeling. , 2019, , .		10
234	Caveolae and scaffold detection from single molecule localization microscopy data using deep learning. <i>PLoS ONE</i> , 2019, 14, e0211659.	1.1	13
235	In and out of the nucleus. , 2019, , .		0
236	Toward an interpretable Alzheimer's disease diagnostic model with regional abnormality representation via deep learning. <i>NeuroImage</i> , 2019, 202, 116113.	2.1	36
237	DLBench: An Experimental Evaluation of Deep Learning Frameworks. , 2019, , .		2
238	Personalized Breast Cancer Treatments Using Artificial Intelligence in Radiomics and Pathomics. <i>Journal of Medical Imaging and Radiation Sciences</i> , 2019, 50, S32-S41.	0.2	48
239	DeepVolume: Brain Structure and Spatial Connection-Aware Network for Brain MRI Super-Resolution. <i>IEEE Transactions on Cybernetics</i> , 2021, 51, 3441-3454.	6.2	20
240	Unsupervised spectral clustering for shield tunneling machine monitoring data with complex network theory. <i>Automation in Construction</i> , 2019, 107, 102924.	4.8	32

#	ARTICLE	IF	CITATIONS
241	Multi-Scale Regularized Deep Network for Retinal Vessel Segmentation. , 2019, , .		3
242	Artificial Intelligence in Imaging: The Radiologist's Role. Journal of the American College of Radiology, 2019, 16, 1309-1317.	0.9	60
243	Conditional Generative Adversarial Networks (cGANs) for Near Real-Time Precipitation Estimation from Multispectral GOES-16 Satellite Imageries" PERSIANN-cGAN. Remote Sensing, 2019, 11, 2193.	1.8	37
244	Research on Target Object Recognition Based on Transfer-Learning Convolutional SAE in Intelligent Urban Construction. IEEE Access, 2019, 7, 125357-125368.	2.6	2
245	A General and Balanced Region-Based Metric for Evaluating Medical Image Segmentation Algorithms. , 2019, , .		8
246	Towards pixel-to-pixel deep nucleus detection in microscopy images. BMC Bioinformatics, 2019, 20, 472.	1.2	16
247	Near-Infrared Hyperspectral Imaging Combined with Deep Learning to Identify Cotton Seed Varieties. Molecules, 2019, 24, 3268.	1.7	72
248	Post-processing radio-frequency signal based on deep learning method for ultrasonic microbubble imaging. BioMedical Engineering OnLine, 2019, 18, 95.	1.3	10
249	Enhanced Deep Learning Approach for Predicting Invasive Ductal Carcinoma from Histopathology Images. , 2019, , .		21
250	Qualifying antibodies for image-based immune profiling and multiplexed tissue imaging. Nature Protocols, 2019, 14, 2900-2930.	5.5	92
251	Hover-Net: Simultaneous segmentation and classification of nuclei in multi-tissue histology images. Medical Image Analysis, 2019, 58, 101563.	7.0	562
252	An Augmentation Strategy for Medical Image Processing Based on Statistical Shape Model and 3D Thin Plate Spline for Deep Learning. IEEE Access, 2019, 7, 133111-133121.	2.6	36
253	CNN-based diagnosis models for canine ulcerative keratitis. Scientific Reports, 2019, 9, 14209.	1.6	36
254	Review on the Applications of Deep Learning in the Analysis of Gastrointestinal Endoscopy Images. IEEE Access, 2019, 7, 142053-142069.	2.6	64
255	Classification of diffuse liver diseases based on ultrasound images with multimodal features. , 2019, , .		13
256	A gentle introduction to deep learning in medical image processing. Zeitschrift Fur Medizinische Physik, 2019, 29, 86-101.	0.6	344
257	Automated analysis of cardiovascular magnetic resonance myocardial native T1 mapping images using fully convolutional neural networks. Journal of Cardiovascular Magnetic Resonance, 2019, 21, 7.	1.6	71
258	Rheumatoid Arthritis: Atherosclerosis Imaging and Cardiovascular Risk Assessment Using Machine and Deep Learning-Based Tissue Characterization. Current Atherosclerosis Reports, 2019, 21, 7.	2.0	64

#	ARTICLE	IF	CITATIONS
259	RNN-based longitudinal analysis for diagnosis of Alzheimer's disease. Computerized Medical Imaging and Graphics, 2019, 73, 1-10.	3.5	137
260	PIXER: an automated particle-selection method based on segmentation using a deep neural network. BMC Bioinformatics, 2019, 20, 41.	1.2	36
261	Two-stage CNNs for computerized BI-RADS categorization in breast ultrasound images. BioMedical Engineering OnLine, 2019, 18, 8.	1.3	44
262	Identifying Protein Features Responsible for Improved Drug Repurposing Accuracies Using the CANDO Platform: Implications for Drug Design. Molecules, 2019, 24, 167.	1.7	24
263	Artificial intelligence and machine learning for human reproduction and embryology presented at ASRM and ESHRE 2018. Journal of Assisted Reproduction and Genetics, 2019, 36, 591-600.	1.2	98
264	Prediction of Conversion From Amnesic Mild Cognitive Impairment to Alzheimer's Disease Based on the Brain Structural Connectome. Frontiers in Neurology, 2018, 9, 1178.	1.1	29
265	Prior Information Guided Regularized Deep Learning for Cell Nucleus Detection. IEEE Transactions on Medical Imaging, 2019, 38, 2047-2058.	5.4	55
266	Convolutional Neural Networks for Radiologic Images: A Radiologist's Guide. Radiology, 2019, 290, 590-606.	3.6	339
267	Deep Learning in Medical Ultrasound Analysis: A Review. Engineering, 2019, 5, 261-275.	3.2	459
268	A deep learning method to more accurately recall known lysine acetylation sites. BMC Bioinformatics, 2019, 20, 49.	1.2	39
269	Section Editor's Notebook: Augmented Intelligence in Women's Imaging—A Compelling Value Proposition. American Journal of Roentgenology, 2019, 212, 248-249.	1.0	0
270	Thyroid Diagnosis from SPECT Images Using Convolutional Neural Network with Optimization. Computational Intelligence and Neuroscience, 2019, 2019, 1-11.	1.1	77
271	Limited-View Cone-Beam CT Reconstruction Based on an Adversarial Autoencoder Network With Joint Loss. IEEE Access, 2019, 7, 7104-7116.	2.6	11
272	WGAN-Based Synthetic Minority Over-Sampling Technique: Improving Semantic Fine-Grained Classification for Lung Nodules in CT Images. IEEE Access, 2019, 7, 18450-18463.	2.6	73
273	Feasibility of Image Registration for Ultrasound-Guided Prostate Radiotherapy Based on Similarity Measurement by a Convolutional Neural Network. Technology in Cancer Research and Treatment, 2019, 18, 153303381882196.	0.8	8
274	Deep Learning Algorithms with Demographic Information Help to Detect Tuberculosis in Chest Radiographs in Annual Workers' Health Examination Data. International Journal of Environmental Research and Public Health, 2019, 16, 250.	1.2	70
275	Framework for the Development of Data-Driven Mamdani-Type Fuzzy Clinical Decision Support Systems. Diagnostics, 2019, 9, 52.	1.3	24
276	Fine-Tuning ResNet for Breast Cancer Classification from Mammography. Lecture Notes in Electrical Engineering, 2019, , 83-96.	0.3	21

#	ARTICLE	IF	CITATIONS
277	Tools to reverse-engineer multicellular systems: case studies using the fruit fly. <i>Journal of Biological Engineering</i> , 2019, 13, 33.	2.0	9
278	Deep Learning with Convolutional Neural Networks for Histopathology Image Analysis. <i>Computational Biology</i> , 2019, , 453-469.	0.1	8
279	Medical image segmentation algorithm based on feedback mechanism convolutional neural network. <i>Biomedical Signal Processing and Control</i> , 2019, 53, 101589.	3.5	23
280	Automatic identification of atherosclerosis subjects in a heterogeneous MR brain imaging data set. <i>Magnetic Resonance Imaging</i> , 2019, 62, 18-27.	1.0	10
282	Automatic segmentation of the mandible from computed tomography scans for 3D virtual surgical planning using the convolutional neural network. <i>Physics in Medicine and Biology</i> , 2019, 64, 175020.	1.6	44
283	Combined Wireless Network Intrusion Detection Model Based on Deep Learning. <i>IEEE Access</i> , 2019, 7, 82624-82632.	2.6	25
284	Deep Learning and Multiplex Networks for Accurate Modeling of Brain Age. <i>Frontiers in Aging Neuroscience</i> , 2019, 11, 115.	1.7	41
285	A review on brain tumor segmentation of MRI images. <i>Magnetic Resonance Imaging</i> , 2019, 61, 247-259.	1.0	217
286	AVRA: Automatic visual ratings of atrophy from MRI images using recurrent convolutional neural networks. <i>NeuroImage: Clinical</i> , 2019, 23, 101872.	1.4	20
287	Deep transfer learning methods for colon cancer classification in confocal laser microscopy images. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2019, 14, 1837-1845.	1.7	24
288	Applications of deep learning for the analysis of medical data. <i>Archives of Pharmacal Research</i> , 2019, 42, 492-504.	2.7	64
289	The Use of Deep Learning to Predict Stroke Patient Mortality. <i>International Journal of Environmental Research and Public Health</i> , 2019, 16, 1876.	1.2	81
290	Deep Learning Techniques for Medical Image Segmentation: Achievements and Challenges. <i>Journal of Digital Imaging</i> , 2019, 32, 582-596.	1.6	972
291	Dynamic prediction for attitude and position in shield tunneling: A deep learning method. <i>Automation in Construction</i> , 2019, 105, 102840.	4.8	98
292	Computational intelligence techniques for medical diagnosis and prognosis: Problems and current developments. <i>Biocybernetics and Biomedical Engineering</i> , 2019, 39, 638-672.	3.3	31
293	Diagnosis of Alzheimer's disease with Sobolev gradient-based optimization and 3D convolutional neural network. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2019, 35, e3225.	1.0	88
294	Learning image-based spatial transformations via convolutional neural networks: A review. <i>Magnetic Resonance Imaging</i> , 2019, 64, 142-153.	1.0	30
295	Detection and Classification of Pulmonary Nodules Using Convolutional Neural Networks: A Survey. <i>IEEE Access</i> , 2019, 7, 78075-78091.	2.6	82

#	ARTICLE	IF	CITATIONS
296	Enabling machine learning in X-ray-based procedures via realistic simulation of image formation. International Journal of Computer Assisted Radiology and Surgery, 2019, 14, 1517-1528.	1.7	37
297	Medical Image Analysis Using Deep Learning: A Systematic Literature Review. Communications in Computer and Information Science, 2019, , 81-97.	0.4	13
298	Breast cancer outcome prediction with tumour tissue images and machine learning. Breast Cancer Research and Treatment, 2019, 177, 41-52.	1.1	80
299	Pig Brains Have Homologous Resting-State Networks with Human Brains. Brain Connectivity, 2019, 9, 566-579.	0.8	26
300	Deep Learning Framework for Alzheimer's Disease Diagnosis via 3D-CNN and FSBi-LSTM. IEEE Access, 2019, 7, 63605-63618.	2.6	150
301	Fully Automated Diagnosis of Anterior Cruciate Ligament Tears on Knee MR Images by Using Deep Learning. Radiology: Artificial Intelligence, 2019, 1, 180091.	3.0	94
302	Artificial intelligence in breast ultrasound. World Journal of Radiology, 2019, 11, 19-26.	0.5	67
303	StomataCounter: a neural network for automatic stomata identification and counting. New Phytologist, 2019, 223, 1671-1681.	3.5	69
304	Interpretable classification of Alzheimer's disease pathologies with a convolutional neural network pipeline. Nature Communications, 2019, 10, 2173.	5.8	116
305	A new era: artificial intelligence and machine learning in prostate cancer. Nature Reviews Urology, 2019, 16, 391-403.	1.9	294
306	Dilated Dense U-Net for Infant Hippocampus Subfield Segmentation. Frontiers in Neuroinformatics, 2019, 13, 30.	1.3	38
307	Classification of 3D Digital Heritage. Remote Sensing, 2019, 11, 847.	1.8	89
308	A convolutional neural network-based system to prevent patient misidentification in FDG-PET examinations. Scientific Reports, 2019, 9, 7192.	1.6	15
309	Image reconstruction in cardiovascular CT: Part 2 " Iterative reconstruction; potential and pitfalls. Journal of Cardiovascular Computed Tomography, 2019, 13, 3-10.	0.7	10
310	Multi-attention Network for Thoracic Disease Classification and Localization. , 2019, , .		14
311	Decoding Behavior Tasks From Brain Activity Using Deep Transfer Learning. IEEE Access, 2019, 7, 43222-43232.	2.6	21
312	Low-Rank Based Image Analyses for Pathological MR Image Segmentation and Recovery. Frontiers in Neuroscience, 2019, 13, 333.	1.4	5
313	3D convolutional neural networks applied to CT angiography in the detection of acute ischemic stroke. European Radiology Experimental, 2019, 3, 8.	1.7	55

#	ARTICLE	IF	CITATIONS
314	Deep learning only by normal brain PET identify unheralded brain anomalies. <i>EBioMedicine</i> , 2019, 43, 447-453.	2.7	51
315	Design and Development of Integrated Deep Convolution Neural Network Approach for Handling Heterogeneous Medical Data. , 2019, , .		0
316	Automated brain extraction from head CT and CTA images using convex optimization with shape propagation. <i>Computer Methods and Programs in Biomedicine</i> , 2019, 176, 1-8.	2.6	20
317	Real-time gastric polyp detection using convolutional neural networks. <i>PLoS ONE</i> , 2019, 14, e0214133.	1.1	86
318	Deep Learning for Diagnosis of Chronic Myocardial Infarction on Nonenhanced Cardiac Cine MRI. <i>Radiology</i> , 2019, 291, 606-617.	3.6	144
319	A Special Report on Changing Trends in Preventive Stroke/Cardiovascular Risk Assessment Via B-Mode Ultrasonography. <i>Current Atherosclerosis Reports</i> , 2019, 21, 25.	2.0	33
320	A practical computerized decision support system for predicting the severity of Alzheimer's disease of an individual. <i>Expert Systems With Applications</i> , 2019, 130, 157-171.	4.4	73
321	Automatic localization of anatomical regions in medical ultrasound images of rheumatoid arthritis using deep learning. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2019, 233, 657-667.	1.0	38
322	Automation of the kidney function prediction and classification through ultrasound-based kidney imaging using deep learning. <i>Npj Digital Medicine</i> , 2019, 2, 29.	5.7	117
323	Data-driven synthetic MRI FLAIR artifact correction via deep neural network. <i>Journal of Magnetic Resonance Imaging</i> , 2019, 50, 1413-1423.	1.9	16
324	Artificial intelligence in medical imaging of the liver. <i>World Journal of Gastroenterology</i> , 2019, 25, 672-682.	1.4	149
325	Identification of the presence of ischaemic stroke lesions by means of texture analysis on brain magnetic resonance images. <i>Computerized Medical Imaging and Graphics</i> , 2019, 74, 12-24.	3.5	42
326	CT male pelvic organ segmentation using fully convolutional networks with boundary sensitive representation. <i>Medical Image Analysis</i> , 2019, 54, 168-178.	7.0	72
327	Prediction of Forelimb Reach Results From Motor Cortex Activities Based on Calcium Imaging and Deep Learning. <i>Frontiers in Cellular Neuroscience</i> , 2019, 13, 88.	1.8	15
328	White matter connectomes at birth accurately predict cognitive abilities at age 2. <i>NeuroImage</i> , 2019, 192, 145-155.	2.1	47
329	Benign and malignant classification of mammogram images based on deep learning. <i>Biomedical Signal Processing and Control</i> , 2019, 51, 347-354.	3.5	123
330	A multi-scale data fusion framework for bone age assessment with convolutional neural networks. <i>Computers in Biology and Medicine</i> , 2019, 108, 161-173.	3.9	30
331	Multi-scale gradual integration CNN for false positive reduction in pulmonary nodule detection. <i>Neural Networks</i> , 2019, 115, 1-10.	3.3	56

#	ARTICLE	IF	CITATIONS
332	DeepQSM - using deep learning to solve the dipole inversion for quantitative susceptibility mapping. <i>NeuroImage</i> , 2019, 195, 373-383.	2.1	84
333	Snails In Silico: A Review of Computational Studies on the Conopeptides. <i>Marine Drugs</i> , 2019, 17, 145.	2.2	21
334	Automatic segmentation of levator hiatus from ultrasound images using U-net with dense connections. <i>Physics in Medicine and Biology</i> , 2019, 64, 075015.	1.6	17
335	Application of deep learning to the diagnosis of cervical lymph node metastasis from thyroid cancer with CT. <i>European Radiology</i> , 2019, 29, 5452-5457.	2.3	79
336	Prognostic Value of Deep Learning PET/CT-Based Radiomics: Potential Role for Future Individual Induction Chemotherapy in Advanced Nasopharyngeal Carcinoma. <i>Clinical Cancer Research</i> , 2019, 25, 4271-4279.	3.2	234
337	Big data analytics for personalized medicine. <i>Current Opinion in Biotechnology</i> , 2019, 58, 161-167.	3.3	152
338	β -Dropout: A Unified Dropout. <i>IEEE Access</i> , 2019, 7, 36140-36153.	2.6	14
339	Automation and artificial intelligence in the clinical laboratory. <i>Critical Reviews in Clinical Laboratory Sciences</i> , 2019, 56, 98-110.	2.7	54
340	Imaging in Neurodegeneration: Movement Disorders. <i>IEEE Transactions on Radiation and Plasma Medical Sciences</i> , 2019, 3, 262-274.	2.7	4
341	Systems Metabolic Engineering Meets Machine Learning: A New Era for Data-Driven Metabolic Engineering. <i>Biotechnology Journal</i> , 2019, 14, e1800416.	1.8	45
342	A Technical Review of Convolutional Neural Network-Based Mammographic Breast Cancer Diagnosis. <i>Computational and Mathematical Methods in Medicine</i> , 2019, 2019, 1-16.	0.7	75
343	Deep Brain Stimulation Programming 2.0: Future Perspectives for Target Identification and Adaptive Closed Loop Stimulation. <i>Frontiers in Neurology</i> , 2019, 10, 314.	1.1	56
344	Artificial intelligence: a survey on evolution, models, applications and future trends. <i>Journal of Management Analytics</i> , 2019, 6, 1-29.	1.6	241
345	A Novel Texture Extraction Technique with T1 Weighted MRI for the Classification of Alzheimer's Disease. <i>Journal of Neuroscience Methods</i> , 2019, 318, 84-99.	1.3	43
346	Early Diagnosis of Alzheimer's Disease. , 2019, , 7-12.		0
347	Deep neural networks in psychiatry. <i>Molecular Psychiatry</i> , 2019, 24, 1583-1598.	4.1	166
348	Deep-learning cardiac motion analysis for human survival prediction. <i>Nature Machine Intelligence</i> , 2019, 1, 95-104.	8.3	179
349	Pixel-to-Pixel Learning With Weak Supervision for Single-Stage Nucleus Recognition in Ki67 Images. <i>IEEE Transactions on Biomedical Engineering</i> , 2019, 66, 3088-3097.	2.5	39

#	ARTICLE	IF	CITATIONS
350	Deep learning in head & neck cancer outcome prediction. Scientific Reports, 2019, 9, 2764.	1.6	145
351	Alzheimer Therapeutics. , 2019, , 59-65.		0
352	Evaluation of Functional Decline in Alzheimer's Dementia Using 3D Deep Learning and Group ICA for rs-fMRI Measurements. Frontiers in Aging Neuroscience, 2019, 11, 8.	1.7	29
353	Automatic segmentation of left ventricle from cardiac MRI via deep learning and region constrained dynamic programming. Neurocomputing, 2019, 347, 139-148.	3.5	35
354	An Adaptive Boosting Strategy for GLCM-CNN Model in Differentiating the Malignant from Benign Polyps. , 2019, , .		0
355	Supervised Sparse Components Analysis with Application to Brain Imaging Data. , 0, , .		0
356	Unsupervised Contour-Aware Registration Network for Eyeball B-mode Ocular Ultrasound Images. , 2019, , .		0
357	Ensemble Bayesian Decision Making with Redundant Deep Perceptual Control Policies. , 2019, , .		9
358	A Comparative Study on Lane-changing Decision Model Using Deep learning Methods. , 2019, , .		2
359	Research on Underwater Acoustic Channel Denoising Algorithm based on Auto-Encoder. , 2019, , .		0
360	Diagnosis of Lumbar Spondylolisthesis via Convolutional Neural Networks. , 2019, , .		5
361	Invasive Ductal Carcinoma Detection by A Gated Recurrent Unit Network with Self Attention. , 2019, , .		2
362	A Matlab Toolbox for Feature Importance Ranking. , 2019, , .		7
363	DP-CGAN: Differentially Private Synthetic Data and Label Generation. , 2019, , .		73
364	Region-based Convolutional Neural Network as Object Detection in Images. , 2019, , .		10
365	Deep learning-based research on the influence of training data size for breast cancer pathology detection. Journal of Engineering, 2019, 2019, 8729-8732.	0.6	4
366	Detection of SQL Injection Attacks: A Machine Learning Approach. , 2019, , .		28
367	Convolution neural network-based Alzheimer's disease classification using hybrid enhanced independent component analysis based segmented gray matter of T2 weighted magnetic resonance imaging with clinical valuation. Alzheimer's and Dementia: Translational Research and Clinical Interventions, 2019, 5, 974-986.	1.8	57

#	ARTICLE	IF	CITATIONS
368	Automatic detection of the support points in relational clustering. , 2019, , .		0
369	Upper gastrointestinal anatomy detection with multi-task convolutional neural networks. Healthcare Technology Letters, 2019, 6, 176-180.	1.9	13
370	Few-Shot Object Detection via Feature Reweighting. , 2019, , .		371
371	Domain-Enriched Deep Network for Micro-CT Image Segmentation. , 2019, , .		4
372	A 2.5d Yolo-Based Fusion Algorithm for 3d Localization Of Cells. , 2019, , .		3
373	3D Convolutional Networks Based Automatic Diagnosis of Alzheimer's Disease Using Structural MRI. , 2019, , .		2
374	Enhancement of U-Net Performance in MRI Brain Tumour Segmentation using HardELiSH Activation Function. , 2019, , .		3
375	Automatic Mouse Embryo Brain Ventricle & Body Segmentation and Mutant Classification From Ultrasound Data Using Deep Learning. , 2019, , .		5
376	Glioma Brain Tumors Diagnosis and Classification in MR Images based on Convolutional Neural Networks. , 2019, , .		5
377	Lung Nodules Classification Using Massive-Training Self-Organizing Map and Learning Vector Quantization. , 2019, , .		0
378	Disease Prediction Model Based on BiLSTM and Attention Mechanism. , 2019, , .		7
379	Multi-Stage Attention-Unet for Wireless Capsule Endoscopy Image Bleeding Area Segmentation. , 2019, , .		15
380	Towards International Standards for the Evaluation of Artificial Intelligence for Health. , 2019, , .		4
381	An Introduction to Deep Learning Applications In MRI Images. , 2019, , .		7
382	Deep Neural Networks with Broad Views for Parkinson's Disease Screening. , 2019, , .		10
383	Deep Feature Extraction in Intrusion Detection System. , 2019, , .		3
384	A Deep Convolutional-Recurrent Neural Network Architecture for Parkinson's Disease EEG Classification. , 2019, , .		23
385	Extraction of Regions Related to Cardiac Sarcoidosis in Polar Map Images. , 2019, , .		0

#	ARTICLE	IF	CITATIONS
386	Artificial intelligence and deep learning in retinal image analysis. , 2019, , 379-404.		5
387	Automatic Segmentation of the Left Ventricle From Cardiac MRI Using Deep Learning and Double Snake Model. IEEE Access, 2019, 7, 128641-128650.	2.6	15
388	Artificial Intelligence for Automatic Measurement of Sagittal Vertical Axis Using ResUNet Framework. Journal of Clinical Medicine, 2019, 8, 1826.	1.0	39
389	Multimodal Brain Tumour Segmentation using Densely Connected 3D Convolutional Neural Network. , 2019, , .		7
390	Challenges and Recent Solutions for Image Segmentation in the Era of Deep Learning. , 2019, , .		45
391	Real-time intraoperative diagnosis by deep neural network driven multiphoton virtual histology. Npj Precision Oncology, 2019, 3, 33.	2.3	29
392	Deep Learning in Musculoskeletal Imaging. Advances in Clinical Radiology, 2019, 1, 83-94.	0.1	9
393	Artificial intelligence and augmented reality in gynecology. Current Opinion in Obstetrics and Gynecology, 2019, 31, 345-348.	0.9	17
394	A Survey on Nature-Inspired Medical Image Analysis: A Step Further in Biomedical Data Integration. Fundamenta Informaticae, 2019, 171, 345-365.	0.3	31
395	Glomerular Microscopic Image Segmentation Based on Convolutional Neural Network. , 2019, , .		1
396	Recent Trends, Technical Concepts and Components of Computer-Assisted Orthopedic Surgery Systems: A Comprehensive Review. Sensors, 2019, 19, 5199.	2.1	33
397	Deep learning based generation of synthetic blood vessel surfaces. , 2019, , .		0
398	Data Augmentation Based on Substituting Regional MRIs Volume Scores. Lecture Notes in Computer Science, 2019, 11851, 32-41.	1.0	4
399	Boundary-aware Semi-supervised Deep Learning for Breast Ultrasound Computer-Aided Diagnosis. , 2019, 2019, 947-950.		7
401	A Deep Learning Approach to Horse Bone Segmentation from Digitally Reconstructed Radiographs. , 2019, , .		4
402	ShapeNet: Age-focused Landmark Shape Prediction with Regressive CNN. , 2019, , .		1
403	Fuzzy tissue detection for real-time focal control in corneal confocal microscopy. Automatisierungstechnik, 2019, 67, 879-888.	0.4	1
404	ki67 nuclei detection and ki67-index estimation: a novel automatic approach based on human vision modeling. BMC Bioinformatics, 2019, 20, 733.	1.2	11

#	ARTICLE	IF	CITATIONS
405	Automatic Detection and Segmentation of Lung Lesions using Deep Residual CNNs. , 2019, , .		4
406	Using Synthetic Training Data for Deep Learning-Based GBM Segmentation. , 2019, 2019, 6724-6729.		13
408	D2NN. , 2019, , .		16
409	Classification and Visualization of Alzheimer's Disease using Volumetric Convolutional Neural Network and Transfer Learning. Scientific Reports, 2019, 9, 18150.	1.6	172
410	U-NetPlus: A Modified Encoder-Decoder U-Net Architecture for Semantic and Instance Segmentation of Surgical Instruments from Laparoscopic Images. , 2019, 2019, 7205-7211.		28
411	Functional Neuroimaging in the New Era of Big Data. Genomics, Proteomics and Bioinformatics, 2019, 17, 393-401.	3.0	25
412	Epilogue: Artificial Intelligence Methods. , 2019, , 285-290.		0
413	Deep convolutional neural networks for brain image analysis on magnetic resonance imaging: a review. Artificial Intelligence in Medicine, 2019, 95, 64-81.	3.8	257
414	Dixon-VIBE Deep Learning (DIVIDE) Pseudo-CT Synthesis for Pelvis PET/MR Attenuation Correction. Journal of Nuclear Medicine, 2019, 60, 429-435.	2.8	103
415	Automated Neuron Detection in High-Content Fluorescence Microscopy Images Using Machine Learning. Neuroinformatics, 2019, 17, 253-269.	1.5	7
416	Cascaded Multi-Column RVFL+ Classifier for Single-Modal Neuroimaging-Based Diagnosis of Parkinson's Disease. IEEE Transactions on Biomedical Engineering, 2019, 66, 2362-2371.	2.5	51
417	Leukocyte classification based on spatial and spectral features of microscopic hyperspectral images. Optics and Laser Technology, 2019, 112, 530-538.	2.2	48
418	Perinodular and Intranodular Radiomic Features on Lung CT Images Distinguish Adenocarcinomas from Granulomas. Radiology, 2019, 290, 783-792.	3.6	226
419	Lung Cancer Detection: A Deep Learning Approach. Advances in Intelligent Systems and Computing, 2019, , 699-705.	0.5	97
420	A deep learning based method for large-scale classification, registration, and clustering of in-situ hybridization experiments in the mouse olfactory bulb. Journal of Neuroscience Methods, 2019, 312, 162-168.	1.3	2
421	An overview of deep learning in medical imaging focusing on MRI. Zeitschrift Fur Medizinische Physik, 2019, 29, 102-127.	0.6	1,266
422	Estimation of in vivo constitutive parameters of the aortic wall using a machine learning approach. Computer Methods in Applied Mechanics and Engineering, 2019, 347, 201-217.	3.4	57
423	Deep Learning-Based Image Segmentation on Multimodal Medical Imaging. IEEE Transactions on Radiation and Plasma Medical Sciences, 2019, 3, 162-169.	2.7	226

#	ARTICLE	IF	CITATIONS
424	Deep Learning in Image Cytometry: A Review. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2019, 95, 366-380.	1.1	145
425	MILD-Net: Minimal information loss dilated network for gland instance segmentation in colon histology images. Medical Image Analysis, 2019, 52, 199-211.	7.0	208
426	Efficient automated detection of mitotic cells from breast histological images using deep convolution neural network with wavelet decomposed patches. Computers in Biology and Medicine, 2019, 104, 29-42.	3.9	28
427	Using a Deep Learning Network to Diagnose Congestive Heart Failure. Radiology, 2019, 290, 523-524.	3.6	1
428	Deep learning analysis of left ventricular myocardium in CT angiographic intermediate-degree coronary stenosis improves the diagnostic accuracy for identification of functionally significant stenosis. European Radiology, 2019, 29, 2350-2359.	2.3	73
429	Artificial Intelligence in Breast Imaging: Potentials and Limitations. American Journal of Roentgenology, 2019, 212, 293-299.	1.0	81
430	Comparative effectiveness of convolutional neural network (CNN) and recurrent neural network (RNN) architectures for radiology text report classification. Artificial Intelligence in Medicine, 2019, 97, 79-88.	3.8	158
431	Knowledge-Aided Convolutional Neural Network for Small Organ Segmentation. IEEE Journal of Biomedical and Health Informatics, 2019, 23, 1363-1373.	3.9	159
432	Semi-Supervised Automatic Segmentation of Layer and Fluid Region in Retinal Optical Coherence Tomography Images Using Adversarial Learning. IEEE Access, 2019, 7, 3046-3061.	2.6	70
433	Deep learning for image analysis: Personalizing medicine closer to the point of care. Critical Reviews in Clinical Laboratory Sciences, 2019, 56, 61-73.	2.7	35
434	Content-Based Brain Tumor Retrieval for MR Images Using Transfer Learning. IEEE Access, 2019, 7, 17809-17822.	2.6	142
435	Deep Geodesic Learning for Segmentation and Anatomical Landmarking. IEEE Transactions on Medical Imaging, 2019, 38, 919-931.	5.4	98
436	Ultrasound Image Segmentation: A Deeply Supervised Network With Attention to Boundaries. IEEE Transactions on Biomedical Engineering, 2019, 66, 1637-1648.	2.5	103
437	Curved planar reformatting and convolutional neural network-based segmentation of the small bowel for visualization and quantitative assessment of pediatric Crohn's disease from MRI. Journal of Magnetic Resonance Imaging, 2019, 49, 1565-1576.	1.9	20
438	A framework for Fourier decomposition free-breathing pulmonary 1 H MRI ventilation measurements. Magnetic Resonance in Medicine, 2019, 81, 2135-2146.	1.9	12
439	Fully convolutional networks for automated segmentation of abdominal adipose tissue depots in multicenter water-fat MRI. Magnetic Resonance in Medicine, 2019, 81, 2736-2745.	1.9	38
440	STRAINet: Spatially Varying Stochastic Residual Adversarial Networks for MRI Pelvic Organ Segmentation. IEEE Transactions on Neural Networks and Learning Systems, 2019, 30, 1552-1564.	7.2	45
441	Ultra-Low-Dose F-Fluorodeoxyglucose PET Imaging Using Deep Learning with Multi-Contrast MRI Inputs. Radiology, 2019, 290, 649-656.	3.6	182

#	ARTICLE	IF	CITATIONS
442	Simultaneous cosegmentation of tumors in PET-CT images using deep fully convolutional networks. <i>Medical Physics</i> , 2019, 46, 619-633.	1.6	66
443	Artificial intelligence and computer-aided diagnosis in colonoscopy: current evidence and future directions. <i>The Lancet Gastroenterology and Hepatology</i> , 2019, 4, 71-80.	3.7	142
444	Machine learning studies on major brain diseases: 5-year trends of 2014-2018. <i>Japanese Journal of Radiology</i> , 2019, 37, 34-72.	1.0	100
445	Deep learning in omics: a survey and guideline. <i>Briefings in Functional Genomics</i> , 2019, 18, 41-57.	1.3	119
446	Automatic lung segmentation in low-dose chest CT scans using convolutional deep and wide network (CDWN). <i>Neural Computing and Applications</i> , 2020, 32, 15845-15855.	3.2	16
447	Fuzzy clustering recognition algorithm of medical image with multi-resolution feature. <i>Concurrency Computation Practice and Experience</i> , 2020, 32, e4886.	1.4	5
448	Hierarchical Fully Convolutional Network for Joint Atrophy Localization and Alzheimer's Disease Diagnosis Using Structural MRI. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2020, 42, 880-893.	9.7	298
449	Radiation Therapy Quality Assurance Tasks and Tools: The Many Roles of Machine Learning. <i>Medical Physics</i> , 2020, 47, e168-e177.	1.6	48
450	Deep learning-based breast cancer classification through medical imaging modalities: state of the art and research challenges. <i>Artificial Intelligence Review</i> , 2020, 53, 1655-1720.	9.7	161
451	Breast cancer histopathological image classification using a hybrid deep neural network. <i>Methods</i> , 2020, 173, 52-60.	1.9	204
452	A Deep Learning Approach for Assessment of Regional Wall Motion Abnormality From Echocardiographic Images. <i>JACC: Cardiovascular Imaging</i> , 2020, 13, 374-381.	2.3	133
453	Breast Cancer Multi-classification through Deep Neural Network and Hierarchical Classification Approach. <i>Multimedia Tools and Applications</i> , 2020, 79, 15481-15511.	2.6	40
454	A fully convolutional network feature descriptor: Application to left ventricle motion estimation based on graph matching in short-axis MRI. <i>Neurocomputing</i> , 2020, 392, 196-208.	3.5	8
455	Segmenting Diabetic Retinopathy Lesions in Multispectral Images Using Low-Dimensional Spatial-Spectral Matrix Representation. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2020, 24, 493-502.	3.9	17
456	Deep learning for variational multimodality tumor segmentation in PET/CT. <i>Neurocomputing</i> , 2020, 392, 277-295.	3.5	90
457	Open access image repositories: high-quality data to enable machine learning research. <i>Clinical Radiology</i> , 2020, 75, 7-12.	0.5	39
458	Detection of rheumatoid arthritis from hand radiographs using a convolutional neural network. <i>Clinical Rheumatology</i> , 2020, 39, 969-974.	1.0	52
459	Decoding Brain States From fMRI Signals by Using Unsupervised Domain Adaptation. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2020, 24, 1677-1685.	3.9	20

#	ARTICLE	IF	CITATIONS
460	Three dimensional convolutional neural network-based classification of conduct disorder with structural MRI. <i>Brain Imaging and Behavior</i> , 2020, 14, 2333-2340.	1.1	16
461	IDRiD: Diabetic Retinopathy " Segmentation and Grading Challenge. <i>Medical Image Analysis</i> , 2020, 59, 101561.	7.0	162
462	BreakHis based breast cancer automatic diagnosis using deep learning: Taxonomy, survey and insights. <i>Neurocomputing</i> , 2020, 375, 9-24.	3.5	95
463	Sequential Saliency Guided Deep Neural Network for Joint Mitosis Identification and Localization in Time-Lapse Phase Contrast Microscopy Images. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2020, 24, 1367-1378.	3.9	15
464	Noise Adaptation Generative Adversarial Network for Medical Image Analysis. <i>IEEE Transactions on Medical Imaging</i> , 2020, 39, 1149-1159.	5.4	43
465	CR-Unet: A Composite Network for Ovary and Follicle Segmentation in Ultrasound Images. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2020, 24, 974-983.	3.9	59
466	Brain Tumor Segmentation Using OTSU Embedded Adaptive Particle Swarm Optimization Method and Convolutional Neural Network. <i>Lecture Notes on Data Engineering and Communications Technologies</i> , 2020, , 171-194.	0.5	33
467	Machine learning applications to clinical decision support in neurosurgery: an artificial intelligence augmented systematic review. <i>Neurosurgical Review</i> , 2020, 43, 1235-1253.	1.2	123
468	Cytokeratin-Supervised Deep Learning for Automatic Recognition of Epithelial Cells in Breast Cancers Stained for ER, PR, and Ki-67. <i>IEEE Transactions on Medical Imaging</i> , 2020, 39, 534-542.	5.4	33
469	Classification and Segmentation of Hyperspectral Data of Hepatocellular Carcinoma Samples Using 1D Convolutional Neural Network. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2020, 97, 31-38.	1.1	21
470	A Review of Automated Methods for the Detection of Sickle Cell Disease. <i>IEEE Reviews in Biomedical Engineering</i> , 2020, 13, 309-324.	13.1	55
471	CT Super-Resolution GAN Constrained by the Identical, Residual, and Cycle Learning Ensemble (GAN-CIRCLE). <i>IEEE Transactions on Medical Imaging</i> , 2020, 39, 188-203.	5.4	289
472	Use of a Tracer-Specific Deep Artificial Neural Net to Denoise Dynamic PET Images. <i>IEEE Transactions on Medical Imaging</i> , 2020, 39, 366-376.	5.4	18
473	Automatic liver tumour segmentation in CT combining FCN and NMF-based deformable model. <i>Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization</i> , 2020, 8, 468-477.	1.3	9
474	Deeply-Supervised Networks With Threshold Loss for Cancer Detection in Automated Breast Ultrasound. <i>IEEE Transactions on Medical Imaging</i> , 2020, 39, 866-876.	5.4	102
475	An artificial intelligence-based deep learning algorithm for the diagnosis of diabetic neuropathy using corneal confocal microscopy: a development and validation study. <i>Diabetologia</i> , 2020, 63, 419-430.	2.9	88
476	An Improved Deep Polynomial Network Algorithm for Transcranial Sonography-Based Diagnosis of Parkinson's Disease. <i>Cognitive Computation</i> , 2020, 12, 553-562.	3.6	12
477	Classification of DNA damages on segmented comet assay images using convolutional neural network. <i>Computer Methods and Programs in Biomedicine</i> , 2020, 186, 105192.	2.6	15

#	ARTICLE	IF	CITATIONS
478	Postoperative glioma segmentation in CT image using deep feature fusion model guided by multi-sequence MRIs. <i>European Radiology</i> , 2020, 30, 823-832.	2.3	23
479	Digital breast tomosynthesis versus digital mammography: integration of image modalities enhances deep learning-based breast mass classification. <i>European Radiology</i> , 2020, 30, 778-788.	2.3	35
480	Are multi-contrast magnetic resonance images necessary for segmenting multiple sclerosis brains? A large cohort study based on deep learning. <i>Magnetic Resonance Imaging</i> , 2020, 65, 8-14.	1.0	19
481	Automatic Diagnosis Based on Spatial Information Fusion Feature for Intracranial Aneurysm. <i>IEEE Transactions on Medical Imaging</i> , 2020, 39, 1448-1458.	5.4	33
482	Deep Learning Based on Standard H&E Images of Primary Melanoma Tumors Identifies Patients at Risk for Visceral Recurrence and Death. <i>Clinical Cancer Research</i> , 2020, 26, 1126-1134.	3.2	78
483	Deep Learning for Quantitative Cardiac MRI. <i>American Journal of Roentgenology</i> , 2020, 214, 529-535.	1.0	20
484	Assisted quantification of abdominal adipose tissue based on magnetic resonance images. <i>Multimedia Tools and Applications</i> , 2020, 79, 1519-1534.	2.6	0
485	Deep learning, reusable and problem-based architectures for detection of consolidation on chest X-ray images. <i>Computer Methods and Programs in Biomedicine</i> , 2020, 185, 105162.	2.6	72
486	Deep Learning Techniques for Biomedical and Health Informatics. <i>Studies in Big Data</i> , 2020, , .	0.8	36
487	Deep Learning-Based Neural Tissue Segmentation of MRI in Multiple Sclerosis: Effect of Training Set Size. <i>Journal of Magnetic Resonance Imaging</i> , 2020, 51, 1487-1496.	1.9	31
488	Unsupervised machine learning for exploratory data analysis in imaging mass spectrometry. <i>Mass Spectrometry Reviews</i> , 2020, 39, 245-291.	2.8	147
489	Image registration using machine and deep learning. , 2020, , 319-342.		12
490	Breast Cancer Image Classification via Multi-Network Features and Dual-Network Orthogonal Low-Rank Learning. <i>IEEE Access</i> , 2020, 8, 27779-27792.	2.6	53
492	Deep learning for electronic health records: A comparative review of multiple deep neural architectures. <i>Journal of Biomedical Informatics</i> , 2020, 101, 103337.	2.5	133
493	Improving cardiac MRI convolutional neural network segmentation on small training datasets and dataset shift: A continuous kernel cut approach. <i>Medical Image Analysis</i> , 2020, 61, 101636.	7.0	42
494	Proceeding of International Conference on Computational Science and Applications. <i>Algorithms for Intelligent Systems</i> , 2020, , .	0.5	1
495	Deep learning-based interpretation of basal/acetazolamide brain perfusion SPECT leveraging unstructured reading reports. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2020, 47, 2186-2196.	3.3	7
496	Follow the Sound of Children's Heart: A Deep-Learning-Based Computer-Aided Pediatric CHDs Diagnosis System. <i>IEEE Internet of Things Journal</i> , 2020, 7, 1994-2004.	5.5	45

#	ARTICLE	IF	CITATIONS
497	Biomedical Imaging and Analysis in the Age of Big Data and Deep Learning [Scanning the Issue]. Proceedings of the IEEE, 2020, 108, 3-10.	16.4	27
498	A fast deep learning approach for beam orientation optimization for prostate cancer treated with intensity-modulated radiation therapy. Medical Physics, 2020, 47, 880-897.	1.6	18
499	Deep learning for geographical discrimination of Panax notoginseng with directly near-infrared spectra image. Chemometrics and Intelligent Laboratory Systems, 2020, 197, 103913.	1.8	24
500	Analysis of quantum noise-reducing filters on chest X-ray images: A review. Measurement: Journal of the International Measurement Confederation, 2020, 153, 107426.	2.5	31
501	Deep learning-based attenuation correction in the absence of structural information for whole-body positron emission tomography imaging. Physics in Medicine and Biology, 2020, 65, 055011.	1.6	97
502	Deep learning-based detection and segmentation-assisted management of brain metastases. Neuro-Oncology, 2020, 22, 505-514.	0.6	69
503	Multi-modal latent space inducing ensemble SVM classifier for early dementia diagnosis with neuroimaging data. Medical Image Analysis, 2020, 60, 101630.	7.0	60
504	Possibility of Deep Learning in Medical Imaging Focusing Improvement of Computed Tomography Image Quality. Journal of Computer Assisted Tomography, 2020, 44, 161-167.	0.5	33
505	Rosâ€NET: A deep convolutional neural network for automatic identification of rosacea lesions. Skin Research and Technology, 2020, 26, 413-421.	0.8	34
506	Modeling Brain Diverse and Complex Hemodynamic Response Patterns via Deep Recurrent Autoencoder. IEEE Transactions on Cognitive and Developmental Systems, 2020, 12, 733-743.	2.6	9
507	Human Versus Machine: Comparing a Deep Learning Algorithm to Human Gradings for Detecting Glaucoma on Fundus Photographs. American Journal of Ophthalmology, 2020, 211, 123-131.	1.7	69
508	Deep Learning in Healthcare. Intelligent Systems Reference Library, 2020, , .	1.0	45
509	Deep learning in biomedical image analysis. , 2020, , 239-263.		14
510	Toward large-scale histopathological image analysis via deep learning. , 2020, , 397-414.		1
511	A multi-context CNN ensemble for small lesion detection. Artificial Intelligence in Medicine, 2020, 103, 101749.	3.8	53
512	High-performance dynamic magnetic resonance image reconstruction and synthesis employing deep feature learning convolutional networks. International Journal of Imaging Systems and Technology, 2020, 30, 380-390.	2.7	4
513	A survey of fracture detection techniques in bone X-ray images. Artificial Intelligence Review, 2020, 53, 4475-4517.	9.7	31
514	Group behavior recognition based on deep hierarchical network. Neural Computing and Applications, 2020, 32, 5389-5398.	3.2	6

#	ARTICLE	IF	CITATIONS
515	A deep residual learning network for predicting lung adenocarcinoma manifesting as ground-glass nodule on CT images. <i>European Radiology</i> , 2020, 30, 1847-1855.	2.3	67
516	Graph temporal ensembling based semi-supervised convolutional neural network with noisy labels for histopathology image analysis. <i>Medical Image Analysis</i> , 2020, 60, 101624.	7.0	40
517	Multimodal feature learning and fusion on B-mode ultrasonography and sonoelastography using point-wise gated deep networks for prostate cancer diagnosis. <i>Biomedizinische Technik</i> , 2020, 65, 87-98.	0.9	14
518	Denoising ambient seismic field correlation functions with convolutional autoencoders. <i>Geophysical Journal International</i> , 2020, 220, 1521-1535.	1.0	16
519	Deep neural network for automatic characterization of lesions on 68Ga-PSMA-11 PET/CT. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2020, 47, 603-613.	3.3	66
520	Inter-foetus Membrane Segmentation for TTTS Using Adversarial Networks. <i>Annals of Biomedical Engineering</i> , 2020, 48, 848-859.	1.3	20
521	A survey of semi- and weakly supervised semantic segmentation of images. <i>Artificial Intelligence Review</i> , 2020, 53, 4259-4288.	9.7	58
522	Improving brain tumor segmentation on MRI based on the deep U-net and residual units. <i>Journal of X-Ray Science and Technology</i> , 2020, 28, 95-110.	0.7	16
523	Survey on deep learning for pulmonary medical imaging. <i>Frontiers of Medicine</i> , 2020, 14, 450-469.	1.5	61
524	Automatic multi-organ segmentation in dual-energy CT (DECT) with dedicated 3D fully convolutional DECT networks. <i>Medical Physics</i> , 2020, 47, 552-562.	1.6	33
525	Decoding and mapping task states of the human brain via deep learning. <i>Human Brain Mapping</i> , 2020, 41, 1505-1519.	1.9	61
526	Advancement of Machine Intelligence in Interactive Medical Image Analysis. <i>Algorithms for Intelligent Systems</i> , 2020, , .	0.5	2
527	Quantification of sheet nacre morphogenesis using X-ray nanotomography and deep learning. <i>Journal of Structural Biology</i> , 2020, 209, 107432.	1.3	16
528	Wireless Capsule Endoscopy: A New Tool for Cancer Screening in the Colon With Deep-Learning-Based Polyp Recognition. <i>Proceedings of the IEEE</i> , 2020, 108, 178-197.	16.4	53
529	Gibbs-ringing artifact suppression with knowledge transfer from natural images to MR images. <i>Multimedia Tools and Applications</i> , 2020, 79, 33711-33733.	2.6	10
530	Automatic classification of male and female skeletal muscles using ultrasound imaging. <i>Biomedical Signal Processing and Control</i> , 2020, 57, 101731.	3.5	9
531	Algorithm-improved high-speed and non-invasive confocal Raman imaging of 2D materials. <i>National Science Review</i> , 2020, 7, 620-628.	4.6	20
532	Cerebrovascular segmentation from TOF-MRA using model- and data-driven method via sparse labels. <i>Neurocomputing</i> , 2020, 380, 162-179.	3.5	25

#	ARTICLE	IF	CITATIONS
533	Deep Learning for Lesion Detection, Progression, and Prediction of Musculoskeletal Disease. Journal of Magnetic Resonance Imaging, 2020, 52, 1607-1619.	1.9	55
534	Using deep learning techniques in medical imaging: a systematic review of applications on CT and PET. Artificial Intelligence Review, 2020, 53, 4093-4160.	9.7	90
535	Emerging Devices for Biologically Accurate Neuron. ACS Applied Electronic Materials, 2020, 2, 389-397.	2.0	7
536	Automatic generation of pedicle contours in 3D vertebral models. Computers in Biology and Medicine, 2020, 116, 103565.	3.9	5
537	Deep learning to detect Alzheimer's disease from neuroimaging: A systematic literature review. Computer Methods and Programs in Biomedicine, 2020, 187, 105242.	2.6	198
538	UNet++: Redesigning Skip Connections to Exploit Multiscale Features in Image Segmentation. IEEE Transactions on Medical Imaging, 2020, 39, 1856-1867.	5.4	1,697
539	Brain Deformable Registration Using Global and Local Label-Driven Deep Regression Learning in the First Year of Life. IEEE Access, 2020, 8, 25691-25705.	2.6	5
540	Deep Learning Detection of Penumbra Tissue on Arterial Spin Labeling in Stroke. Stroke, 2020, 51, 489-497.	1.0	39
541	AI-based computer-aided diagnosis (AI-CAD): the latest review to read first. Radiological Physics and Technology, 2020, 13, 6-19.	1.0	146
542	Decision support systems in breast cancer. , 2020, , 319-327.		1
543	Bridge Segmentation Performance Gap Via Evolving Shape Prior. IEEE Access, 2020, 8, 173961-173973.	2.6	1
544	An Approach to Detecting Diabetic Retinopathy Based on Integrated Shallow Convolutional Neural Networks. IEEE Access, 2020, 8, 178552-178562.	2.6	36
545	Application of Machine Learning to Stomatology: A Comprehensive Review. IEEE Access, 2020, 8, 184360-184374.	2.6	22
546	Lumbar Vertebrae Synthetic Segmentation in Computed Tomography Images Using Hybrid Deep Generative Adversarial Networks. , 2020, 2020, 1327-1330.		2
547	Semantic segmentation of HeLa cells: An objective comparison between one traditional algorithm and four deep-learning architectures. PLoS ONE, 2020, 15, e0230605.	1.1	15
548	Deep MLP-CNN Model Using Mixed-Data to Distinguish between COVID-19 and Non-COVID-19 Patients. Symmetry, 2020, 12, 1526.	1.1	77
549	Rapid MR relaxometry using deep learning: An overview of current techniques and emerging trends. NMR in Biomedicine, 2022, 35, e4416.	1.6	29
550	Detection and severity identification of control valve stiction in industrial loops using integrated partially retrained CNN-PCA frameworks. Chemometrics and Intelligent Laboratory Systems, 2020, 206, 104143.	1.8	17

#	ARTICLE	IF	CITATIONS
551	Computer-aided recognition of myopic tilted optic disc using deep learning algorithms in fundus photography. <i>BMC Ophthalmology</i> , 2020, 20, 407.	0.6	16
552	Automated measurement network for accurate segmentation and parameter modification in fetal head ultrasound images. <i>Medical and Biological Engineering and Computing</i> , 2020, 58, 2879-2892.	1.6	25
553	70 years of machine learning in geoscience in review. <i>Advances in Geophysics</i> , 2020, , 1-55.	1.1	118
554	fMRI volume classification using a 3D convolutional neural network robust to shifted and scaled neuronal activations. <i>NeuroImage</i> , 2020, 223, 117328.	2.1	17
555	Deep Learning-Based Approach for the Diagnosis of Moyamoya Disease. <i>Journal of Stroke and Cerebrovascular Diseases</i> , 2020, 29, 105322.	0.7	19
556	TSASNet: Tooth segmentation on dental panoramic X-ray images by Two-Stage Attention Segmentation Network. <i>Knowledge-Based Systems</i> , 2020, 206, 106338.	4.0	66
557	Computer-aided diagnosis of liver lesions using CT images: A systematic review. <i>Computers in Biology and Medicine</i> , 2020, 127, 104035.	3.9	36
558	New era of personalised epilepsy management. <i>BMJ, The</i> , 2020, 371, m3658.	3.0	20
559	A Survey on Deep Learning for Neuroimaging-Based Brain Disorder Analysis. <i>Frontiers in Neuroscience</i> , 2020, 14, 779.	1.4	111
560	A descriptive framework for the field of deep learning applications in medical images. <i>Knowledge-Based Systems</i> , 2020, 210, 106445.	4.0	23
561	Anatomical classification of upper gastrointestinal organs under various image capture conditions using AlexNet. <i>Computers in Biology and Medicine</i> , 2020, 124, 103950.	3.9	54
562	Deep Sequential Feature Learning in Clinical Image Classification of Infectious Keratitis. <i>Engineering</i> , 2021, 7, 1002-1010.	3.2	31
563	Deep-learning method for data association in particle tracking. <i>Bioinformatics</i> , 2020, 36, 4935-4941.	1.8	22
564	S3F: A Multi-View Slow-Fast Network For Alzheimer's Disease Diagnosis. , 2020, , .		0
565	Shallow buried improvised explosive device detection via convolutional neural networks. <i>Integrated Computer-Aided Engineering</i> , 2020, 27, 403-416.	2.5	11
566	Learn from one data set to classify all " A multi-target domain adaptation approach for white blood cell classification. <i>Computer Methods and Programs in Biomedicine</i> , 2020, 196, 105645.	2.6	12
567	State-of-the-Art CNN Optimizer for Brain Tumor Segmentation in Magnetic Resonance Images. <i>Brain Sciences</i> , 2020, 10, 427.	1.1	100
568	Automatic Measurements of Fetal Lateral Ventricles in 2D Ultrasound Images Using Deep Learning. <i>Frontiers in Neurology</i> , 2020, 11, 526.	1.1	19

#	ARTICLE	IF	CITATIONS
569	A review of experimental and numerical modeling of digital coalbed methane: Imaging, segmentation, fracture modeling and permeability prediction. <i>International Journal of Coal Geology</i> , 2020, 228, 103552.	1.9	49
570	Automated classification of acoustic startle reflex waveforms in young CBA/CaJ mice using machine learning. <i>Journal of Neuroscience Methods</i> , 2020, 344, 108853.	1.3	4
571	Performance Evaluation of Physical Attacks against E2E Autoencoder over Rayleigh Fading Channel. , 2020, , .		3
572	Multi-site fMRI analysis using privacy-preserving federated learning and domain adaptation: ABIDE results. <i>Medical Image Analysis</i> , 2020, 65, 101765.	7.0	213
573	Artificial Intelligence (AI) and Big Data for Coronavirus (COVID-19) Pandemic: A Survey on the State-of-the-Arts. <i>IEEE Access</i> , 2020, 8, 130820-130839.	2.6	212
574	3D Inception U-Net with Asymmetric Loss for Cancer Detection in Automated Breast Ultrasound. <i>Medical Physics</i> , 2020, 47, 5582-5591.	1.6	15
576	Automatic Classification of Volumetric Optical Coherence Tomography Images via Recurrent Neural Network. <i>Sensing and Imaging</i> , 2020, 21, 1.	1.0	8
577	Deep Learning in Selected Cancersâ€™ Image Analysisâ€™ A Survey. <i>Journal of Imaging</i> , 2020, 6, 121.	1.7	42
578	Breast cancer images classification by clustering of ROI and mapping of features by CNN with XGBOOST learning. <i>Materials Today: Proceedings</i> , 2020, , .	0.9	5
579	Machine Learning for Electronically Excited States of Molecules. <i>Chemical Reviews</i> , 2021, 121, 9873-9926.	23.0	207
580	Deep learning for brain disorder diagnosis based on fMRI images. <i>Neurocomputing</i> , 2022, 469, 332-345.	3.5	51
581	Machine-learning classification of texture features of portable chest X-ray accurately classifies COVID-19 lung infection. <i>BioMedical Engineering OnLine</i> , 2020, 19, 88.	1.3	79
582	Training confounder-free deep learning models for medical applications. <i>Nature Communications</i> , 2020, 11, 6010.	5.8	81
583	Multi-Task Learning for Small Brain Tumor Segmentation from MRI. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 7790.	1.3	23
584	Self-Supervised Learning to Increase the Performance of Skin Lesion Classification. <i>Electronics (Switzerland)</i> , 2020, 9, 1930.	1.8	20
585	Rapid COVID-19 diagnosis using ensemble deep transfer learning models from chest radiographic images. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 2023, 14, 5541-5553.	3.3	84
586	Evaluation of Scalability and Degree of Fine-Tuning of Deep Convolutional Neural Networks for COVID-19 Screening on Chest X-ray Images Using Explainable Deep-Learning Algorithm. <i>Journal of Personalized Medicine</i> , 2020, 10, 213.	1.1	41
587	Efficient Bone Metastasis Diagnosis in Bone Scintigraphy Using a Fast Convolutional Neural Network Architecture. <i>Diagnostics</i> , 2020, 10, 532.	1.3	38

#	ARTICLE	IF	CITATIONS
588	A deep learning and grad-CAM based color visualization approach for fast detection of COVID-19 cases using chest X-ray and CT-Scan images. <i>Chaos, Solitons and Fractals</i> , 2020, 140, 110190.	2.5	308
589	Big Data in Ophthalmology. <i>Asia-Pacific Journal of Ophthalmology</i> , 2020, 9, 291-298.	1.3	33
590	Deep neural networks for ECG-free cardiac phase and end-diastolic frame detection on coronary angiographies. <i>Computerized Medical Imaging and Graphics</i> , 2020, 84, 101749.	3.5	10
591	Auto-GAN: Self-Supervised Collaborative Learning for Medical Image Synthesis. <i>Proceedings of the AAAI Conference on Artificial Intelligence</i> , 2020, 34, 10486-10493.	3.6	38
592	Understanding important features of deep learning models for segmentation of high-resolution transmission electron microscopy images. <i>Npj Computational Materials</i> , 2020, 6, .	3.5	96
593	A promising approach for screening pulmonary hypertension based on frontal chest radiographs using deep learning: A retrospective study. <i>PLoS ONE</i> , 2020, 15, e0236378.	1.1	21
594	Deep learning applications in pulmonary medical imaging: recent updates and insights on COVID-19. <i>Machine Vision and Applications</i> , 2020, 31, 53.	1.7	48
596	Deep learning to find colorectal polyps in colonoscopy: A systematic literature review. <i>Artificial Intelligence in Medicine</i> , 2020, 108, 101923.	3.8	92
597	Automatic human identification from panoramic dental radiographs using the convolutional neural network. <i>Forensic Science International</i> , 2020, 314, 110416.	1.3	27
598	Multi-view secondary input collaborative deep learning for lung nodule 3D segmentation. <i>Cancer Imaging</i> , 2020, 20, 53.	1.2	20
599	Automatic ischemic stroke lesion segmentation from computed tomography perfusion images by image synthesis and attention-based deep neural networks. <i>Medical Image Analysis</i> , 2020, 65, 101787.	7.0	48
600	Task Decomposition and Synchronization for Semantic Biomedical Image Segmentation. <i>IEEE Transactions on Image Processing</i> , 2020, 29, 7497-7510.	6.0	14
601	R2D2: A scalable deep learning toolkit for medical imaging segmentation. <i>Software - Practice and Experience</i> , 2020, 50, 1966-1985.	2.5	3
602	Artificial Intelligence and Radiomics: Outlook into the Future. , 2020, , 335-342.		0
603	A bird's-eye view of deep learning in bioimage analysis. <i>Computational and Structural Biotechnology Journal</i> , 2020, 18, 2312-2325.	1.9	94
604	Pilot study: Application of artificial intelligence for detecting left atrial enlargement on canine thoracic radiographs. <i>Veterinary Radiology and Ultrasound</i> , 2020, 61, 611-618.	0.4	29
605	Semantic segmentation of cerebrospinal fluid and brain volume with a convolutional neural network in pediatric hydrocephalus—transfer learning from existing algorithms. <i>Acta Neurochirurgica</i> , 2020, 162, 2463-2474.	0.9	18
606	3D Automatic Segmentation of Aortic Computed Tomography Angiography Combining Multi-View 2D Convolutional Neural Networks. <i>Cardiovascular Engineering and Technology</i> , 2020, 11, 576-586.	0.7	43

#	ARTICLE	IF	CITATIONS
607	A Deep CNN Technique for Detection of Breast Cancer Using Histopathology Images. , 2020, , .		9
608	Features addition and dimensionality reduction in classification. IOP Conference Series: Materials Science and Engineering, 2020, 919, 042018.	0.3	0
609	Pattern Classification Approaches for Breast Cancer Identification via MRI: State-Of-The-Art and Vision for the Future. Applied Sciences (Switzerland), 2020, 10, 7201.	1.3	4
610	Image segmentation of plexiform neurofibromas from a deep neural network using multiple b-value diffusion data. Scientific Reports, 2020, 10, 17857.	1.6	5
611	Assessing the Reliability of Visual Explanations of Deep Models with Adversarial Perturbations. , 2020, , .		1
612	Detection of hand osteoarthritis from hand radiographs using convolutional neural networks with transfer learning. Turkish Journal of Electrical Engineering and Computer Sciences, 2020, 28, 2968-2978.	0.9	7
613	An effective approach for the diagnosis of melanoma using the sparse auto-encoder for features detection and the SVM for classification. , 2020, , .		8
614	Development and evaluation of an AI System for early detection of Covid-19 pneumonia using X-ray (Student Consortium). , 2020, , .		25
615	An Explainable Machine Learning Model for Early Detection of Parkinson's Disease using LIME on DaTSCAN Imagery. Computers in Biology and Medicine, 2020, 126, 104041.	3.9	120
616	Generative Adversarial Domain Adaptation for Nucleus Quantification in Images of Tissue Immunohistochemically Stained for Ki-67. JCO Clinical Cancer Informatics, 2020, 4, 666-679.	1.0	8
617	Combining deep learning with 3D stereophotogrammetry for craniosynostosis diagnosis. Scientific Reports, 2020, 10, 15346.	1.6	30
619	3D tumor detection in automated breast ultrasound using deep convolutional neural network. Medical Physics, 2020, 47, 5669-5680.	1.6	15
620	Vehicle Detection in High Resolution Satellite Remote Sensing Images Based on Deep Learning. IEEE Access, 2020, 8, 153394-153402.	2.6	19
621	Hybrid bio-inspired algorithm and convolutional neural network for automatic lung tumor detection. Neural Computing and Applications, 2023, 35, 23711-23724.	3.2	21
622	Detection of HER2 from Haematoxylin-Eosin Slides Through a Cascade of Deep Learning Classifiers via Multi-Instance Learning. Journal of Imaging, 2020, 6, 82.	1.7	15
623	3D Deep Learning on Medical Images: A Review. Sensors, 2020, 20, 5097.	2.1	268
624	DeepLRHE: A Deep Convolutional Neural Network Framework to Evaluate the Risk of Lung Cancer Recurrence and Metastasis From Histopathology Images. Frontiers in Genetics, 2020, 11, 768.	1.1	30
625	Development of Convolutional Neural Networks to identify bone metastasis for prostate cancer patients in bone scintigraphy. Annals of Nuclear Medicine, 2020, 34, 824-832.	1.2	24

#	ARTICLE	IF	CITATIONS
626	Deep Learning-Based Radiomics of B-Mode Ultrasonography and Shear-Wave Elastography: Improved Performance in Breast Mass Classification. <i>Frontiers in Oncology</i> , 2020, 10, 1621.	1.3	37
627	From leaf to label: A robust automated workflow for stomata detection. <i>Ecology and Evolution</i> , 2020, 10, 9178-9191.	0.8	22
628	Deep Learning in Radiation Oncology Treatment Planning for Prostate Cancer: A Systematic Review. <i>Journal of Medical Systems</i> , 2020, 44, 179.	2.2	26
629	Automatic Segmentation and Visualization of Choroid in OCT with Knowledge Infused Deep Learning. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2020, 24, 3408-3420.	3.9	34
630	Improving radiograph analysis throughput through transfer learning and object detection. <i>Journal of Medical Artificial Intelligence</i> , 2020, 3, 9-9.	1.1	1
631	Distributed Parameter Estimation in Randomized One-hidden-layer Neural Networks. , 2020, , .		1
632	Machine Vision Inspection of Electrical Connectors Based on Improved Yolo v3. <i>IEEE Access</i> , 2020, 8, 166184-166196.	2.6	32
633	Generation of Virtual Non-Contrast CT From Intravenous Enhanced CT in Radiotherapy Using Convolutional Neural Networks. <i>Frontiers in Oncology</i> , 2020, 10, 1715.	1.3	6
634	Group-based local adaptive deep multiple kernel learning with lp norm. <i>PLoS ONE</i> , 2020, 15, e0238535.	1.1	2
635	Dynamic image reconstruction and synthesis framework using deep learning algorithm. <i>IET Image Processing</i> , 2020, 14, 1219-1226.	1.4	8
636	Exploring the Structural and Strategic Bases of Autism Spectrum Disorders With Deep Learning. <i>IEEE Access</i> , 2020, 8, 153341-153352.	2.6	42
637	Analyzing the Contribution of Training Algorithms on Deep Neural Networks for Hyperspectral Image Classification. <i>Photogrammetric Engineering and Remote Sensing</i> , 2020, 86, 581-588.	0.3	15
638	Radiomics Improves Cancer Screening and Early Detection. <i>Cancer Epidemiology Biomarkers and Prevention</i> , 2020, 29, 2556-2567.	1.1	67
639	Bone metastasis classification using whole body images from prostate cancer patients based on convolutional neural networks application. <i>PLoS ONE</i> , 2020, 15, e0237213.	1.1	61
641	FALCON: A Fourier Transform Based Approach for Fast and Secure Convolutional Neural Network Predictions. , 2020, , .		29
642	Efficient and Effective Training of COVID-19 Classification Networks With Self-Supervised Dual-Track Learning to Rank. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2020, 24, 2787-2797.	3.9	56
643	Assessing Hyper Parameter Optimization and Speedup for Convolutional Neural Networks. <i>International Journal of Artificial Intelligence and Machine Learning</i> , 2020, 10, 1-17.	0.4	2
644	Automatic recognition of murmurs of ventricular septal defect using convolutional recurrent neural networks with temporal attentive pooling. <i>Scientific Reports</i> , 2020, 10, 21797.	1.6	16

#	ARTICLE	IF	CITATIONS
645	Flat-Feet Prediction Based on a Designed Wearable Sensing Shoe and a PCA-Based Deep Neural Network Model. IEEE Access, 2020, 8, 199070-199080.	2.6	2
646	Robust Technique to Detect COVID-19 using Chest X-ray Images. , 2020, , .		14
647	An Evolutionary DenseRes Deep Convolutional Neural Network for Medical Image Segmentation. IEEE Access, 2020, 8, 212298-212314.	2.6	16
648	Teeth Detection and Dental Problem Classification in Panoramic X-Ray Images using Deep Learning and Image Processing Techniques. , 2020, , .		37
649	Semi-Supervised Learning for limited medical data using Generative Adversarial Network and Transfer Learning. , 2020, , .		1
650	Bone Age Estimation by Deep Learning in X-Ray Medical Images. , 2020, , .		1
651	Deep learning networks reflect cytoarchitectonic features used in brain mapping. Scientific Reports, 2020, 10, 22039.	1.6	6
652	A Semisupervised Learning Scheme with Self-Paced Learning for Classifying Breast Cancer Histopathological Images. Computational Intelligence and Neuroscience, 2020, 2020, 1-16.	1.1	8
653	PICCOLO White-Light and Narrow-Band Imaging Colonoscopic Dataset: A Performance Comparative of Models and Datasets. Applied Sciences (Switzerland), 2020, 10, 8501.	1.3	41
654	Towards Generating Anomaly Prediction based on Health Checkup Results. Procedia Computer Science, 2020, 176, 1773-1782.	1.2	0
655	Meta-neural-network for real-time and passive deep-learning-based object recognition. Nature Communications, 2020, 11, 6309.	5.8	49
656	Establishment of a morphological atlas of the Caenorhabditis elegans embryo using deep-learning-based 4D segmentation. Nature Communications, 2020, 11, 6254.	5.8	45
657	Convolutional Support Vector Models: Prediction of Coronavirus Disease Using Chest X-rays. Information (Switzerland), 2020, 11, 548.	1.7	12
658	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
659	MRI Manufacturer Shift and Adaptation: Increasing the Generalizability of Deep Learning Segmentation for MR Images Acquired with Different Scanners. Radiology: Artificial Intelligence, 2020, 2, e190195.	3.0	30
660	Automated Myocardial T2 and Extracellular Volume Quantification in Cardiac MRI Using Transfer Learning-based Myocardium Segmentation. Radiology: Artificial Intelligence, 2020, 2, e190034.	3.0	22
661	Three-dimensional MRI Bone Models of the Glenohumeral Joint Using Deep Learning: Evaluation of Normal Anatomy and Glenoid Bone Loss. Radiology: Artificial Intelligence, 2020, 2, e190116.	3.0	9
662	Evaluation of multislice inputs to convolutional neural networks for medical image segmentation. Medical Physics, 2020, 47, 6216-6231.	1.6	29

#	ARTICLE	IF	CITATIONS
663	Machine Learning's Application in Deep Brain Stimulation for Parkinson's Disease: A Review. <i>Brain Sciences</i> , 2020, 10, 809.	1.1	23
664	Towards a Domain-Specific Deep Learning Models for Medical Image Analysis. , 2020, , .		0
665	Prediction of miRNA targets by learning from interaction sequences. <i>PLoS ONE</i> , 2020, 15, e0232578.	1.1	14
666	Integrating Convolutional Neural Networks and Multi-Task Dictionary Learning for Cognitive Decline Prediction with Longitudinal Images. <i>Journal of Alzheimer's Disease</i> , 2020, 75, 971-992.	1.2	9
667	AI in Medical Imaging Informatics: Current Challenges and Future Directions. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2020, 24, 1837-1857.	3.9	215
668	Automated Detection of Presymptomatic Conditions in Spinocerebellar Ataxia Type 2 Using Monte Carlo Dropout and Deep Neural Network Techniques with Electrooculogram Signals. <i>Sensors</i> , 2020, 20, 3032.	2.1	20
669	Class-Center Involved Triplet Loss for Skin Disease Classification on Imbalanced Data. , 2020, , .		13
670	Breast cancer pathological image classification based on deep learning. <i>Journal of X-Ray Science and Technology</i> , 2020, 28, 727-738.	0.7	20
671	Physics-informed neural networks for solving nonlinear diffusivity and Biot's equations. <i>PLoS ONE</i> , 2020, 15, e0232683.	1.1	69
672	Clinically Feasible and Accurate View Classification of Echocardiographic Images Using Deep Learning. <i>Biomolecules</i> , 2020, 10, 665.	1.8	49
673	Deep learning for identification of critical regions associated with toxicities after liver stereotactic body radiation therapy. <i>Medical Physics</i> , 2020, 47, 3721-3731.	1.6	22
674	Artificial Intelligence for the Computer-aided Detection of Periapical Lesions in Cone-beam Computed Tomographic Images. <i>Journal of Endodontics</i> , 2020, 46, 987-993.	1.4	89
675	Segmenting nailfold capillaries using an improved U-net network. <i>Microvascular Research</i> , 2020, 130, 104011.	1.1	17
676	Automated identification and characterization of two-dimensional materials via machine learning-based processing of optical microscope images. <i>Extreme Mechanics Letters</i> , 2020, 39, 100771.	2.0	28
677	Automated high content image analysis of dendritic arborization in primary mouse hippocampal and rat cortical neurons in culture. <i>Journal of Neuroscience Methods</i> , 2020, 341, 108793.	1.3	7
678	Automatic Brain Organ Segmentation with 3D Fully Convolutional Neural Network for Radiation Therapy Treatment Planning. , 2020, 2020, 758-762.		5
679	Image Classification of Crop Diseases and Pests Based on Deep Learning and Fuzzy System. <i>International Journal of Data Warehousing and Mining</i> , 2020, 16, 34-47.	0.4	24
680	DeepCDA: deep cross-domain compound-protein affinity prediction through LSTM and convolutional neural networks. <i>Bioinformatics</i> , 2020, 36, 4633-4642.	1.8	110

#	ARTICLE	IF	CITATIONS
682	A Survey on Blood Image Diseases Detection Using Deep Learning. International Journal of Service Science, Management, Engineering, and Technology, 2020, 11, 18-32.	0.7	7
683	Deep learning in mental health outcome research: a scoping review. Translational Psychiatry, 2020, 10, 116.	2.4	144
684	Deep Learning-Based Spectral Unmixing for Optoacoustic Imaging of Tissue Oxygen Saturation. IEEE Transactions on Medical Imaging, 2020, 39, 3643-3654.	5.4	39
685	Graph convolutional network-based interactive prostate segmentation in MR images. Medical Physics, 2020, 47, 4164-4176.	1.6	38
686	Hypergraph membrane system based $ 1.6 16 $	1.6	16
687	Classification of Reflection High-Energy Electron Diffraction Pattern Using Machine Learning. Crystal Growth and Design, 2020, 20, 5289-5293.	1.4	17
688	Efficient Pneumonia Detection in Chest Xray Images Using Deep Transfer Learning. Diagnostics, 2020, 10, 417.	1.3	179
689	The Project Baseline Health Study: a step towards a broader mission to map human health. Npj Digital Medicine, 2020, 3, 84.	5.7	38
690	CoroNet: A deep neural network for detection and diagnosis of COVID-19 from chest x-ray images. Computer Methods and Programs in Biomedicine, 2020, 196, 105581.	2.6	882
691	A Noise-Robust Framework for Automatic Segmentation of COVID-19 Pneumonia Lesions From CT Images. IEEE Transactions on Medical Imaging, 2020, 39, 2653-2663.	5.4	323
692	Automated MRI-Based Deep Learning Model for Detection of Alzheimer's Disease Process. International Journal of Neural Systems, 2020, 30, 2050032.	3.2	100
693	Hematologist-Level Classification of Mature B-Cell Neoplasm Using Deep Learning on Multiparameter Flow Cytometry Data. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2020, 97, 1073-1080.	1.1	32
694	Computing schizophrenia: ethical challenges for machine learning in psychiatry. Psychological Medicine, 2021, 51, 2515-2521.	2.7	33
695	A Medical Image Segmentation Method With Anti-Noise and Bias-Field Correction. IEEE Access, 2020, 8, 98548-98561.	2.6	6
696	Deep Model-Based Semi-Supervised Learning Way for Outlier Detection in Wireless Capsule Endoscopy Images. IEEE Access, 2020, 8, 81621-81632.	2.6	9
697	Computational techniques in biomedical image analysis: overview. , 2020, , 3-31.		5
698	Applications of Resting-State fNIRS in the Developing Brain: A Review From the Connectome Perspective. Frontiers in Neuroscience, 2020, 14, 476.	1.4	31
699	A special report on changing trends in preventive stroke/cardiovascular risk assessment via B-mode ultrasonography. , 2020, , 291-318.		4

#	ARTICLE	IF	CITATIONS
700	CryptoDL: Predicting Dyslexia Biomarkers from Encrypted Neuroimaging Dataset Using Energy-Efficient Residue Number System and Deep Convolutional Neural Network. <i>Symmetry</i> , 2020, 12, 836.	1.1	14
701	A survey on U-shaped networks in medical image segmentations. <i>Neurocomputing</i> , 2020, 409, 244-258.	3.5	157
702	Imbalanced Breast Cancer Classification Using Transfer Learning. <i>IEEE/ACM Transactions on Computational Biology and Bioinformatics</i> , 2020, 18, 1-1.	1.9	50
703	A convolutional neural network-based system to classify patients using FDG PET/CT examinations. <i>BMC Cancer</i> , 2020, 20, 227.	1.1	49
704	Denosing of multi b-value diffusion-weighted MR images using deep image prior. <i>Physics in Medicine and Biology</i> , 2020, 65, 105003.	1.6	18
705	BIRADS features-oriented semi-supervised deep learning for breast ultrasound computer-aided diagnosis. <i>Physics in Medicine and Biology</i> , 2020, 65, 125005.	1.6	38
706	Deep Learning for Cardiac Image Segmentation: A Review. <i>Frontiers in Cardiovascular Medicine</i> , 2020, 7, 25.	1.1	467
707	A toolbox for brain network construction and classification (BrainNetClass). <i>Human Brain Mapping</i> , 2020, 41, 2808-2826.	1.9	52
708	Detection of extremity chronic traumatic osteomyelitis by machine learning based on computed-tomography images. <i>Medicine (United States)</i> , 2020, 99, e19239.	0.4	4
709	Crowdsourcing human-based computation for medical image analysis: A systematic literature review. <i>Health Informatics Journal</i> , 2020, 26, 2446-2469.	1.1	4
710	Ischemic Stroke Lesion Segmentation Using Multi-Plane Information Fusion. <i>IEEE Access</i> , 2020, 8, 45715-45725.	2.6	26
711	Machine learning in nephrology: scratching the surface. <i>Chinese Medical Journal</i> , 2020, , 687-698.	0.9	14
712	Automatic segmentation of whole-slide H&E stained breast histopathology images using a deep convolutional neural network architecture. <i>Expert Systems With Applications</i> , 2020, 151, 113387.	4.4	49
713	Artificial intelligence in oncology. <i>Cancer Science</i> , 2020, 111, 1452-1460.	1.7	166
714	A-phase classification using convolutional neural networks. <i>Medical and Biological Engineering and Computing</i> , 2020, 58, 1003-1014.	1.6	9
715	Alzheimer's disease diagnosis from diffusion tensor images using convolutional neural networks. <i>PLoS ONE</i> , 2020, 15, e0230409.	1.1	46
716	The top 100 most cited articles in medical artificial intelligence: a bibliometric analysis. <i>Journal of Medical Artificial Intelligence</i> , 2020, 3, 3-3.	1.1	5
717	Overview of quantitative susceptibility mapping using deep learning: Current status, challenges and opportunities. <i>NMR in Biomedicine</i> , 2022, 35, e4292.	1.6	41

#	ARTICLE	IF	CITATIONS
718	Recent Advances of Bioresponsive Nano-Sized Contrast Agents for Ultra-High-Field Magnetic Resonance Imaging. <i>Frontiers in Chemistry</i> , 2020, 8, 203.	1.8	27
719	Deep learning in medical image registration: a review. <i>Physics in Medicine and Biology</i> , 2020, 65, 20TR01.	1.6	330
720	DeepBrainSeg: Automated Brain Region Segmentation for Micro-Optical Images With a Convolutional Neural Network. <i>Frontiers in Neuroscience</i> , 2020, 14, 179.	1.4	14
721	A physics-guided modular deep-learning based automated framework for tumor segmentation in PET. <i>Physics in Medicine and Biology</i> , 2020, 65, 245032.	1.6	43
722	Sparse Data-Driven Learning for Effective and Efficient Biomedical Image Segmentation. <i>Annual Review of Biomedical Engineering</i> , 2020, 22, 127-153.	5.7	3
723	Computer-aided diagnosis of external and middle ear conditions: A machine learning approach. <i>PLoS ONE</i> , 2020, 15, e0229226.	1.1	49
724	A neutrosophic-entropy based adaptive thresholding segmentation algorithm: A special application in MR images of Parkinson's disease. <i>Artificial Intelligence in Medicine</i> , 2020, 104, 101838.	3.8	25
725	An Introduction to Machine Learning. <i>Clinical Pharmacology and Therapeutics</i> , 2020, 107, 871-885.	2.3	186
726	A bibliometric analysis on deep learning during 2007-2019. <i>International Journal of Machine Learning and Cybernetics</i> , 2020, 11, 2807-2826.	2.3	39
727	Unravelling the Kinetic Model of Photochemical Reactions via Deep Learning. <i>Journal of Physical Chemistry B</i> , 2020, 124, 6358-6368.	1.2	14
728	A New Deep Learning Network for Mitigating Limited-view and Under-sampling Artifacts in Ring-shaped Photoacoustic Tomography. <i>Computerized Medical Imaging and Graphics</i> , 2020, 84, 101720.	3.5	32
729	The state-of-the-art in ultrasound-guided spine interventions. <i>Medical Image Analysis</i> , 2020, 65, 101769.	7.0	20
730	Detection of Parkinson's Disease from 3T T1 Weighted MRI Scans Using 3D Convolutional Neural Network. <i>Diagnostics</i> , 2020, 10, 402.	1.3	58
731	Computer-Aided Bacillus Detection in Whole-Slide Pathological Images Using a Deep Convolutional Neural Network. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 4059.	1.3	12
732	Volumetric Segmentation of Brain Regions From MRI Scans Using 3D Convolutional Neural Networks. <i>IEEE Access</i> , 2020, 8, 103697-103709.	2.6	39
733	Pulmonary nodule detection on chest radiographs using balanced convolutional neural network and classic candidate detection. <i>Artificial Intelligence in Medicine</i> , 2020, 107, 101881.	3.8	19
734	Notice of Violation of IEEE Publication Principles: Deep Learning Assisted Image Interactive Framework for Brain Image Segmentation. <i>IEEE Access</i> , 2020, 8, 117028-117035.	2.6	3
735	Medical Image Segmentation based on U-Net: A Review. <i>Journal of Imaging Science and Technology</i> , 2020, 64, 020508-1-020508-12.	0.3	197

#	ARTICLE	IF	CITATIONS
736	Deep learning LI-RADS grading system based on contrast enhanced multiphase MRI for differentiation between LR-3 and LR-4/LR-5 liver tumors. <i>Annals of Translational Medicine</i> , 2020, 8, 701-701.	0.7	32
737	Computer-aided classification of hepatocellular ballooning in liver biopsies from patients with NASH using persistent homology. <i>Computer Methods and Programs in Biomedicine</i> , 2020, 195, 105614.	2.6	18
738	Deep learning recognition of diseased and normal cell representation. <i>Transactions on Emerging Telecommunications Technologies</i> , 2021, 32, e4017.	2.6	31
739	A review of deep learning with special emphasis on architectures, applications and recent trends. <i>Knowledge-Based Systems</i> , 2020, 194, 105596.	4.0	222
740	Magnetic Resonance Image Segmentation Based on Multi-Scale Convolutional Neural Network. <i>IEEE Access</i> , 2020, 8, 65758-65768.	2.6	8
741	Improved Accuracy in Optical Diagnosis of Colorectal Polyps Using Convolutional Neural Networks with Visual Explanations. <i>Gastroenterology</i> , 2020, 158, 2169-2179.e8.	0.6	92
742	Looking for Mimicry in a Snake Assemblage Using Deep Learning. <i>American Naturalist</i> , 2020, 196, 74-86.	1.0	9
743	4D-CT deformable image registration using multiscale unsupervised deep learning. <i>Physics in Medicine and Biology</i> , 2020, 65, 085003.	1.6	51
744	A Voxel-Based Fully Convolution Network and Continuous Max-Flow for Carotid Vessel-Wall-Volume Segmentation From 3D Ultrasound Images. <i>IEEE Transactions on Medical Imaging</i> , 2020, 39, 2844-2855.	5.4	40
745	AIDAN: An Attention-Guided Dual-Path Network for Pediatric Echocardiography Segmentation. <i>IEEE Access</i> , 2020, 8, 29176-29187.	2.6	22
746	Identification of COPD From Multi-View Snapshots of 3D Lung Airway Tree via Deep CNN. <i>IEEE Access</i> , 2020, 8, 38907-38919.	2.6	30
747	Probabilistic Analysis of Targeted Attacks Using Transform-Domain Adversarial Examples. <i>IEEE Access</i> , 2020, 8, 33855-33869.	2.6	11
748	Automatic Recognition of Laryngoscopic Images Using a Deep Learning Technique. <i>Laryngoscope</i> , 2020, 130, E686-E693.	1.1	61
749	Nondestructive internal quality inspection of pear fruit by X-ray CT using machine learning. <i>Food Control</i> , 2020, 113, 107170.	2.8	38
750	A Deep-Learning Approach for Diagnosis of Metastatic Breast Cancer in Bones from Whole-Body Scans. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 997.	1.3	55
751	Patient-derived model systems and the development of next-generation anticancer therapeutics. <i>Current Opinion in Chemical Biology</i> , 2020, 56, 72-78.	2.8	10
752	Graph-based description of tertiary lymphoid organs at single-cell level. <i>PLoS Computational Biology</i> , 2020, 16, e1007385.	1.5	7
753	Robust Vehicle Detection on Multi-Resolution Aerial Images. <i>IOP Conference Series: Materials Science and Engineering</i> , 2020, 719, 012064.	0.3	2

#	ARTICLE	IF	CITATIONS
754	Multi-View Spatial Aggregation Framework for Joint Localization and Segmentation of Organs at Risk in Head and Neck CT Images. <i>IEEE Transactions on Medical Imaging</i> , 2020, 39, 2794-2805.	5.4	32
755	Deep learning uncertainty and confidence calibration for the five-class polyp classification from colonoscopy. <i>Medical Image Analysis</i> , 2020, 62, 101653.	7.0	42
756	Genetic Modifiers and Rare Mendelian Disease. <i>Genes</i> , 2020, 11, 239.	1.0	96
757	An efficient method for image forgery detection based on trigonometric transforms and deep learning. <i>Multimedia Tools and Applications</i> , 2020, 79, 18221-18243.	2.6	29
758	A novel CNN based Alzheimer's disease classification using hybrid enhanced ICA segmented gray matter of MRI. <i>Computerized Medical Imaging and Graphics</i> , 2020, 81, 101713.	3.5	45
759	Automatic classification of cognitively normal, mild cognitive impairment and Alzheimer's disease using structural MRI analysis. <i>Informatics in Medicine Unlocked</i> , 2020, 18, 100305.	1.9	55
760	Decoding rejuvenating effects of mechanical loading on skeletal aging using in vivo μ CT imaging and deep learning. <i>Acta Biomaterialia</i> , 2020, 106, 193-207.	4.1	7
761	Predicting in vitro human mesenchymal stromal cell expansion based on individual donor characteristics using machine learning. <i>Cytotherapy</i> , 2020, 22, 82-90.	0.3	17
762	Auto-segmentation of pancreatic tumor in multi-parametric MRI using deep convolutional neural networks. <i>Radiotherapy and Oncology</i> , 2020, 145, 193-200.	0.3	61
763	Parameter Extraction Based on Deep Neural Network for SAR Target Simulation. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2020, 58, 4901-4914.	2.7	20
764	How much are we exposed to alcohol in electronic media? Development of the Alcoholic Beverage Identification Deep Learning Algorithm (ABIDLA). <i>Drug and Alcohol Dependence</i> , 2020, 208, 107841.	1.6	13
765	Denoising arterial spin labeling perfusion MRI with deep machine learning. <i>Magnetic Resonance Imaging</i> , 2020, 68, 95-105.	1.0	59
766	Deep neural networks for human microRNA precursor detection. <i>BMC Bioinformatics</i> , 2020, 21, 17.	1.2	18
767	A Hybrid End-to-End Approach Integrating Conditional Random Fields into CNNs for Prostate Cancer Detection on MRI. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 338.	1.3	19
768	Classification of white blood cells using capsule networks. <i>Computerized Medical Imaging and Graphics</i> , 2020, 80, 101699.	3.5	71
769	Slice-selective learning for Alzheimer's disease classification using a generative adversarial network: a feasibility study of external validation. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2020, 47, 2197-2206.	3.3	16
770	Deep learning approaches to biomedical image segmentation. <i>Informatics in Medicine Unlocked</i> , 2020, 18, 100297.	1.9	204
771	Automated Quantification of Immunohistochemical Staining of Large Animal Brain Tissue Using QuPath Software. <i>Neuroscience</i> , 2020, 429, 235-244.	1.1	24

#	ARTICLE	IF	CITATIONS
772	Deep learning-based automated detection of glaucomatous optic neuropathy on color fundus photographs. Graefe's Archive for Clinical and Experimental Ophthalmology, 2020, 258, 851-867.	1.0	54
773	Radiomics and Machine Learning in Oral Healthcare. Proteomics - Clinical Applications, 2020, 14, e1900040.	0.8	78
774	Research on Hierarchical Data Fusion of Intelligent Medical Monitoring. IEEE Access, 2020, 8, 38355-38367.	2.6	21
775	Deep Retinal Image Segmentation With Regularization Under Geometric Priors. IEEE Transactions on Image Processing, 2020, 29, 2552-2567.	6.0	44
776	Iterative Label Denoising Network: Segmenting Male Pelvic Organs in CT From 3D Bounding Box Annotations. IEEE Transactions on Biomedical Engineering, 2020, 67, 2710-2720.	2.5	19
777	Fusion High-Resolution Network for Diagnosing ChestX-ray Images. Electronics (Switzerland), 2020, 9, 190.	1.8	14
778	CT Male Pelvic Organ Segmentation via Hybrid Loss Network With Incomplete Annotation. IEEE Transactions on Medical Imaging, 2020, 39, 2151-2162.	5.4	14
779	Predicting Brain Age of Healthy Adults Based on Structural MRI Parcellation Using Convolutional Neural Networks. Frontiers in Neurology, 2019, 10, 1346.	1.1	61
780	Validation of Deep Learning-Based Artifact Correction on Synthetic FLAIR Images in a Different Scanning Environment. Journal of Clinical Medicine, 2020, 9, 364.	1.0	3
781	Automated detection of COVID-19 cases using deep neural networks with X-ray images. Computers in Biology and Medicine, 2020, 121, 103792.	3.9	1,856
782	Predicting cell lineages using autoencoders and optimal transport. PLoS Computational Biology, 2020, 16, e1007828.	1.5	29
783	Dental Images Recognition Technology and Applications: A Literature Review. Applied Sciences (Switzerland), 2020, 10, 2856.	1.3	25
784	Classification of breast density categories based on SE-Attention neural networks. Computer Methods and Programs in Biomedicine, 2020, 193, 105489.	2.6	30
785	Steganographic universal adversarial perturbations. Pattern Recognition Letters, 2020, 135, 146-152.	2.6	16
786	Soft Computing for Problem Solving 2019. Advances in Intelligent Systems and Computing, 2020, , .	0.5	0
787	Toward Effective Medical Image Analysis Using Hybrid Approaches—Review, Challenges and Applications. Information (Switzerland), 2020, 11, 155.	1.7	7
788	LED-Based Photoacoustic Imaging. Progress in Optical Science and Photonics, 2020, , .	0.3	17
789	Deep learning in precision medicine. , 2020, , 61-90.		2

#	ARTICLE	IF	CITATIONS
790	Deep residual learning for neuroimaging: An application to predict progression to Alzheimer's disease. Journal of Neuroscience Methods, 2020, 339, 108701.	1.3	83
791	Prediction of Cancer Drug Effectiveness Based on Multi-Fusion Deep Learning Model. , 2020, , .		2
792	Coarse-to-Fine Adversarial Networks and Zone-Based Uncertainty Analysis for NK/T-Cell Lymphoma Segmentation in CT/PET Images. IEEE Journal of Biomedical and Health Informatics, 2020, 24, 2599-2608.	3.9	31
793	Deep learning for the determination of myometrial invasion depth and automatic lesion identification in endometrial cancer MR imaging: a preliminary study in a single institution. European Radiology, 2020, 30, 4985-4994.	2.3	46
794	Spatial Metabolomics and Imaging Mass Spectrometry in the Age of Artificial Intelligence. Annual Review of Biomedical Data Science, 2020, 3, 61-87.	2.8	128
795	Multi-Modality Medical Image Fusion Using Convolutional Neural Network and Contrast Pyramid. Sensors, 2020, 20, 2169.	2.1	82
796	Exploration of marine ship anomaly real-time monitoring system based on deep learning. Journal of Intelligent and Fuzzy Systems, 2020, 38, 1235-1240.	0.8	3
797	Surgical spectral imaging. Medical Image Analysis, 2020, 63, 101699.	7.0	82
798	Mammographic Classification Based on XGBoost and DCNN With Multi Features. IEEE Access, 2020, 8, 75011-75021.	2.6	32
799	Artificial Intelligence System Approaching Neuroradiologist-level Differential Diagnosis Accuracy at Brain MRI. Radiology, 2020, 295, 626-637.	3.6	77
800	Brain Morphometry Estimation: From Hours to Seconds Using Deep Learning. Frontiers in Neurology, 2020, 11, 244.	1.1	14
801	Predicting Body Mass Index From Structural MRI Brain Images Using a Deep Convolutional Neural Network. Frontiers in Neuroinformatics, 2020, 14, 10.	1.3	14
802	An Introductory Review of Deep Learning for Prediction Models With Big Data. Frontiers in Artificial Intelligence, 2020, 3, 4.	2.0	316
803	Evaluating severity of white matter lesions from computed tomography images with convolutional neural network. Neuroradiology, 2020, 62, 1257-1263.	1.1	8
804	Automated Detection of Vestibular Schwannoma Growth Using a Two-Dimensional Convolutional Neural Network. Laryngoscope, 2021, 131, E619-E624.	1.1	13
805	Pseudo CT Image Synthesis and Bone Segmentation From MR Images Using Adversarial Networks With Residual Blocks for MR-Based Attenuation Correction of Brain PET Data. IEEE Transactions on Radiation and Plasma Medical Sciences, 2021, 5, 193-201.	2.7	17
806	Unsupervised Tumor Characterization via Conditional Generative Adversarial Networks. IEEE Journal of Biomedical and Health Informatics, 2021, 25, 348-357.	3.9	7
807	Augmented deep learning model for improved quantitative accuracy of MR-based PET attenuation correction in PSMA PET-MRI prostate imaging. European Journal of Nuclear Medicine and Molecular Imaging, 2021, 48, 9-20.	3.3	29

#	ARTICLE	IF	CITATIONS
808	Multi-View Mammographic Density Classification by Dilated and Attention-Guided Residual Learning. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2021, 18, 1003-1013.	1.9	38
809	Antibody Supervised Training of a Deep Learning Based Algorithm for Leukocyte Segmentation in Papillary Thyroid Carcinoma. IEEE Journal of Biomedical and Health Informatics, 2021, 25, 422-428.	3.9	16
810	Radiomics for precision medicine: Current challenges, future prospects, and the proposal of a new framework. Methods, 2021, 188, 20-29.	1.9	129
811	Deep learning techniques for skin lesion analysis and melanoma cancer detection: a survey of state-of-the-art. Artificial Intelligence Review, 2021, 54, 811-841.	9.7	142
812	Quantitative neurotoxicology: Potential role of artificial intelligence/deep learning approach. Journal of Applied Toxicology, 2021, 41, 996-1006.	1.4	5
813	Lung Respiratory Motion Estimation Based on Fast Kalman Filtering and 4D CT Image Registration. IEEE Journal of Biomedical and Health Informatics, 2021, 25, 2007-2017.	3.9	5
814	Deep learning and medical image processing for coronavirus (COVID-19) pandemic: A survey. Sustainable Cities and Society, 2021, 65, 102589.	5.1	300
815	Potentials of AI in medical image analysis in Gastroenterology and Hepatology. Journal of Gastroenterology and Hepatology (Australia), 2021, 36, 31-38.	1.4	27
816	Fundus image-based cataract classification using a hybrid convolutional and recurrent neural network. Visual Computer, 2021, 37, 2407-2417.	2.5	27
817	Deep Learning Based Supervised Image Classification Using UAV Images for Forest Areas Classification. Journal of the Indian Society of Remote Sensing, 2021, 49, 601-606.	1.2	68
818	LOW: Training deep neural networks by learning optimal sample weights. Pattern Recognition, 2021, 110, 107585.	5.1	18
819	Secure and Robust Machine Learning for Healthcare: A Survey. IEEE Reviews in Biomedical Engineering, 2021, 14, 156-180.	13.1	230
820	A Review of Deep-Learning-Based Approaches for Attenuation Correction in Positron Emission Tomography. IEEE Transactions on Radiation and Plasma Medical Sciences, 2021, 5, 160-184.	2.7	58
821	MRI-Based Deep Learning Model for Distant Metastasis-Free Survival in Locoregionally Advanced Nasopharyngeal Carcinoma. Journal of Magnetic Resonance Imaging, 2021, 53, 167-178.	1.9	24
822	Machine Learning Algorithms for Industrial Applications. Studies in Computational Intelligence, 2021, , .	0.7	15
823	Deep computational pathology in breast cancer. Seminars in Cancer Biology, 2021, 72, 226-237.	4.3	30
824	Uncertainty modelling in deep learning for safer neuroimage enhancement: Demonstration in diffusion MRI. NeuroImage, 2021, 225, 117366.	2.1	59
825	Deep neural network models for computational histopathology: A survey. Medical Image Analysis, 2021, 67, 101813.	7.0	331

#	ARTICLE	IF	CITATIONS
826	Deep ensemble neural-like P systems for segmentation of central serous chorioretinopathy lesion. Information Fusion, 2021, 65, 84-94.	11.7	17
827	Boundary loss for highly unbalanced segmentation. Medical Image Analysis, 2021, 67, 101851.	7.0	124
828	Dual-branch combination network (DCN): Towards accurate diagnosis and lesion segmentation of COVID-19 using CT images. Medical Image Analysis, 2021, 67, 101836.	7.0	129
829	Diagnosis of Autism Spectrum Disorder Based on Functional Brain Networks with Deep Learning. Journal of Computational Biology, 2021, 28, 146-165.	0.8	60
830	Automated diagnosis of COVID-19 with limited posteroanterior chest X-ray images using fine-tuned deep neural networks. Applied Intelligence, 2021, 51, 2689-2702.	3.3	128
831	Structural displacement monitoring based on mask regions with convolutional neural network. Construction and Building Materials, 2021, 267, 120923.	3.2	19
832	The state of the art in kidney and kidney tumor segmentation in contrast-enhanced CT imaging: Results of the KiTS19 challenge. Medical Image Analysis, 2021, 67, 101821.	7.0	226
833	The emerging role of deep learning in cytology. Cytopathology, 2021, 32, 154-160.	0.4	17
834	Intelligence-Based Spine Care Model: A New Era of Research and Clinical Decision-Making. Global Spine Journal, 2021, 11, 135-145.	1.2	24
835	Deep hybrid neural-like P systems for multiorgan segmentation in head and neck CT/MR images. Expert Systems With Applications, 2021, 168, 114446.	4.4	19
836	Artificial intelligence for pathology. , 2021, , 183-221.		2
837	Artificial Intelligence for Response Evaluation With PET/CT. Seminars in Nuclear Medicine, 2021, 51, 157-169.	2.5	12
838	Deep Convolutional Encoder-Decoder algorithm for MRI brain reconstruction. Medical and Biological Engineering and Computing, 2021, 59, 85-106.	1.6	3
839	Implementation of Machine Learning-Aided Imaging Analytics for Histopathological Image Diagnosis. , 2021, , 208-221.		0
840	Prediction of mediastinal lymph node metastasis based on 18F-FDG PET/CT imaging using support vector machine in non-small cell lung cancer. European Radiology, 2021, 31, 3983-3992.	2.3	16
841	Robust Imaging-Free Object Recognition Through Anderson Localizing Optical Fiber. Journal of Lightwave Technology, 2021, 39, 920-926.	2.7	7
842	Models Genesis. Medical Image Analysis, 2021, 67, 101840.	7.0	132
843	Accelerating geostatistical modeling using geostatistics-informed machine Learning. Computers and Geosciences, 2021, 146, 104663.	2.0	15

#	ARTICLE	IF	CITATIONS
844	Quantitative analysis of brain herniation from non-contrast CT images using deep learning. <i>Journal of Neuroscience Methods</i> , 2021, 349, 109033.	1.3	6
845	3D multi-view tumor detection in automated whole breast ultrasound using deep convolutional neural network. <i>Expert Systems With Applications</i> , 2021, 168, 114410.	4.4	17
846	Deep learning in systems medicine. <i>Briefings in Bioinformatics</i> , 2021, 22, 1543-1559.	3.2	22
847	Reducing scan time of paediatric 99mTc-DMSA SPECT via deep learning. <i>Clinical Radiology</i> , 2021, 76, 315.e13-315.e20.	0.5	10
848	Deep Learning Methods for Lung Cancer Segmentation in Whole-Slide Histopathology Imagesâ€”The ACDC@LungHP Challenge 2019. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2021, 25, 429-440.	3.9	51
849	Improving rib fracture detection accuracy and reading efficiency with deep learning-based detection software: a clinical evaluation. <i>British Journal of Radiology</i> , 2021, 94, 20200870.	1.0	30
850	Image registration: Maximum likelihood, minimum entropy and deep learning. <i>Medical Image Analysis</i> , 2021, 69, 101939.	7.0	13
851	Application of an attention U-Net incorporating transfer learning for optic disc and cup segmentation. <i>Signal, Image and Video Processing</i> , 2021, 15, 913-921.	1.7	19
852	Towards effective machine learning in medical imaging analysis: A novel approach and expert evaluation of high-grade glioma â€”ground truthâ€™ simulation on MRI. <i>International Journal of Medical Informatics</i> , 2021, 146, 104348.	1.6	6
853	pymia: A Python package for data handling and evaluation in deep learning-based medical image analysis. <i>Computer Methods and Programs in Biomedicine</i> , 2021, 198, 105796.	2.6	25
854	Engineering 2D Multifunctional Ultrathin Bismuthene for Multiple Photonic Nanomedicine. <i>Advanced Functional Materials</i> , 2021, 31, 2005093.	7.8	40
855	A deep learning framework for pancreas segmentation with multi-atlas registration and 3D level-set. <i>Medical Image Analysis</i> , 2021, 68, 101884.	7.0	53
856	A deep learning networkâ€”assisted bladder tumour recognition under cystoscopy based on Caffe deep learning framework and EasyDL platform. <i>International Journal of Medical Robotics and Computer Assisted Surgery</i> , 2021, 17, 1-8.	1.2	18
857	From classical to deep learning: review on cartilage and bone segmentation techniques in knee osteoarthritis research. <i>Artificial Intelligence Review</i> , 2021, 54, 2445-2494.	9.7	21
858	Plant leaf disease classification using EfficientNet deep learning model. <i>Ecological Informatics</i> , 2021, 61, 101182.	2.3	360
860	RUNâ€”UP: Accelerated multishot diffusionâ€”weighted MRI reconstruction using an unrolled network with Uâ€”Net as priors. <i>Magnetic Resonance in Medicine</i> , 2021, 85, 709-720.	1.9	29
862	Morph_SPCNN model and its application in breast density segmentation. <i>Multimedia Tools and Applications</i> , 2021, 80, 2821-2845.	2.6	11
863	Corporate political activity and greenwashing: Can <scp>CPA</scp> clarify which firm communications on social & environmental events are genuine?. <i>Corporate Social Responsibility and Environmental Management</i> , 2021, 28, 1-10.	5.0	12

#	ARTICLE	IF	CITATIONS
864	The state of the art of deep learning models in medical science and their challenges. Multimedia Systems, 2021, 27, 599-613.	3.0	89
865	Comparison of performances of conventional and deep learning-based methods in segmentation of lung vessels and registration of chest radiographs. Radiological Physics and Technology, 2021, 14, 6-15.	1.0	4
866	Cascaded MultiTask 3-D Fully Convolutional Networks for Pancreas Segmentation. IEEE Transactions on Cybernetics, 2021, 51, 2153-2165.	6.2	34
867	Deep learning and generative adversarial networks in oral and maxillofacial surgery. , 2021, , 55-82.		0
868	CovidNet: A Light-Weight CNN for the Detection of COVID-19 Using Chest X-Ray Images. Communications in Computer and Information Science, 2021, , 169-179.	0.4	1
869	Deep learning for biomedical applications. , 2021, , 71-94.		0
870	Computed tomography and artificial intelligence. , 2021, , 211-239.		3
871	A Deep Learning Approach for Segmentation, Classification and Visualization of 3D High Frequency Ultrasound Images of Mouse Embryos. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2021, 68, 1-1.	1.7	8
872	Deep neural network in medical image processing. , 2021, , 271-292.		3
873	A robust identification method for nonferrous metal scraps based on deep learning and superpixel optimization. Waste Management and Research, 2021, 39, 573-583.	2.2	7
874	A Novel Network With Parallel Resolution Encoders for the Diagnosis of Corneal Diseases. IEEE Transactions on Biomedical Engineering, 2021, 68, 3671-3680.	2.5	6
875	Fundamentals of Radiomics in Nuclear Medicine and Hybrid Imaging. , 2021, , 441-469.		1
876	Asymmetric 3D Context Fusion for Universal Lesion Detection. Lecture Notes in Computer Science, 2021, , 571-580.	1.0	11
877	Domain Composition and Attention for Unseen-Domain Generalizable Medical Image Segmentation. Lecture Notes in Computer Science, 2021, , 241-250.	1.0	10
878	Taking Care of the Discretization Problem: A Comprehensive Study of the Discretization Problem and a Black-Box Adversarial Attack in Discrete Integer Domain. IEEE Transactions on Dependable and Secure Computing, 2022, 19, 3200-3217.	3.7	8
880	Cardiac MRI Left Ventricular Segmentation and Function Quantification Using Pre-trained Neural Networks. Lecture Notes in Computer Science, 2021, , 46-54.	1.0	6
881	Building Multifunctional Metasystems via Algorithmic Construction. ACS Nano, 2021, 15, 2318-2326.	7.3	42
882	Advances in sensing plant diseases by imaging and machine learning methods for precision crop protection. , 2021, , 157-183.		3

#	ARTICLE	IF	CITATIONS
883	An Optimized NL2SQL System for Enterprise Data Mart. Lecture Notes in Computer Science, 2021, , 335-350.	1.0	1
884	Preliminary study of AI-assisted diagnosis using FDG-PET/CT for axillary lymph node metastasis in patients with breast cancer. EJNMMI Research, 2021, 11, 10.	1.1	20
885	Deep Learning Applications for COVID-19 Analysis: A State-of-the-Art Survey. CMES - Computer Modeling in Engineering and Sciences, 2021, 129, 65-98.	0.8	7
886	BDD4BNN: A BDD-Based Quantitative Analysis Framework for Binarized Neural Networks. Lecture Notes in Computer Science, 2021, , 175-200.	1.0	18
887	Illustrative Discussion of MC-Dropout in General Dataset: Uncertainty Estimation in Bitcoin. Neural Processing Letters, 2021, 53, 1001-1011.	2.0	17
888	Deep Learning Architectures and Techniques for Multi-organ Segmentation. International Journal of Advanced Computer Science and Applications, 2021, 12, .	0.5	0
889	Evaluation of Auto-encoder Network with Photoacoustic Signal for Unsupervised Classification of Prostate Cancer. Communications in Computer and Information Science, 2021, , 420-429.	0.4	0
890	On the Sufficient Condition for Solving the Gap-Filling Problem Using Deep Convolutional Neural Networks. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 6194-6205.	7.2	2
891	Automated multiclass tissue segmentation of clinical brain MRIs with lesions. NeuroImage: Clinical, 2021, 31, 102769.	1.4	10
892	Privacy and Security Issues in Deep Learning: A Survey. IEEE Access, 2021, 9, 4566-4593.	2.6	120
893	Hypergraph-based persistent cohomology (HPC) for molecular representations in drug design. Briefings in Bioinformatics, 2021, 22, .	3.2	22
894	A deep learning approach for staging embryonic tissue isolates with small data. PLoS ONE, 2021, 16, e0244151.	1.1	10
895	Automated image segmentation for cardiac septal defects based on contour region with convolutional neural networks: A preliminary study. Informatics in Medicine Unlocked, 2021, 24, 100601.	1.9	11
896	Multi-Disease Prediction Based on Deep Learning: A Survey. CMES - Computer Modeling in Engineering and Sciences, 2021, 128, 489-522.	0.8	123
897	Biomedical image classification using deep convolutional neural networks – overview. IOP Conference Series: Materials Science and Engineering, 2021, 1022, 012020.	0.3	4
898	A review of deep learning-based three-dimensional medical image registration methods. Quantitative Imaging in Medicine and Surgery, 2021, 11, 4895-4916.	1.1	33
899	How big data analytics is changing the face of precision medicine in women’s health. , 2021, , 339-350.		1
900	Hippocampus segmentation in MR images: Multiatlas methods and deep learning methods. , 2021, , 181-215.		1

#	ARTICLE	IF	CITATIONS
901	Computer-aided diagnosis of renal masses. , 2021, , 179-195.		1
902	True ultra-low-dose amyloid PET/MRI enhanced with deep learning for clinical interpretation. European Journal of Nuclear Medicine and Molecular Imaging, 2021, 48, 2416-2425.	3.3	27
903	FCOD: Fast COVID-19 Detector based on deep learning techniques. Informatics in Medicine Unlocked, 2021, 22, 100506.	1.9	26
904	Multi-scale Segmentation Network for Rib Fracture Classification from CT Images. Lecture Notes in Computer Science, 2021, , 546-554.	1.0	2
905	RNN-Test: Towards Adversarial Testing for Recurrent Neural Network Systems. IEEE Transactions on Software Engineering, 2022, 48, 4167-4180.	4.3	5
906	Automatic Segmentation and Intuitive Visualisation of the Epiretinal Membrane in 3D OCT Images Using Deep Convolutional Approaches. IEEE Access, 2021, 9, 75993-76004.	2.6	12
907	Cascaded Coarse-to-Fine Neural Network for Brain Tumor Segmentation. Lecture Notes in Computer Science, 2021, , 458-469.	1.0	0
908	CANet: Context Aware Network for Brain Glioma Segmentation. IEEE Transactions on Medical Imaging, 2021, 40, 1763-1777.	5.4	41
909	Deep Learning Approach for COVID-19 Detection in Computed Tomography Images. Computers, Materials and Continua, 2021, 67, 2093-2110.	1.5	9
910	An Enhanced Novel Dynamic Data Processing (ENDDP) Algorithm for Predicting Heart Disease in Machine Learning. International Journal of Scientific Research in Computer Science Engineering and Information Technology, 2021, , 94-104.	0.2	110
911	A Smart Agricultural System to Classify Agricultural Plants and Fungus Diseases Using Deep Learning. Advances in Science, Technology and Innovation, 2021, , 229-239.	0.2	2
912	Deep Learning for Anterior Segment Optical Coherence Tomography to Predict the Presence of Plateau Iris. Translational Vision Science and Technology, 2021, 10, 7.	1.1	16
913	A Review of Deep-Learning-Based Medical Image Segmentation Methods. Sustainability, 2021, 13, 1224.	1.6	295
914	Double U-Nets for Image Segmentation by Integrating the Region and Boundary Information. IEEE Access, 2021, 9, 69382-69390.	2.6	4
915	ECT-LSTM-RNN: An Electrical Capacitance Tomography Model-Based Long Short-Term Memory Recurrent Neural Networks for Conductive Materials. IEEE Access, 2021, 9, 76325-76339.	2.6	8
916	Deep Learning for Brain Tumor Segmentation: A Survey of State-of-the-Art. Journal of Imaging, 2021, 7, 19.	1.7	85
917	Spatio-Temporal Split Learning for Privacy-Preserving Medical Platforms: Case Studies With COVID-19 CT, X-Ray, and Cholesterol Data. IEEE Access, 2021, 9, 121046-121059.	2.6	12
918	A novel classification method of lymph node metastasis in colorectal cancer. Bioengineered, 2021, 12, 2007-2021.	1.4	5

#	ARTICLE	IF	CITATIONS
919	Selective Learning from External Data for CT Image Segmentation. Lecture Notes in Computer Science, 2021, , 420-430.	1.0	2
920	Joint Registration and Segmentation via Multi-Task Learning for Adaptive Radiotherapy of Prostate Cancer. IEEE Access, 2021, 9, 95551-95568.	2.6	8
921	A review of deep learning models for medical diagnosis. , 2021, , 389-404.		5
922	Methods for the segmentation and classification of breast ultrasound images: a review. Journal of Ultrasound, 2021, 24, 367-382.	0.7	20
923	Harmony Loss for Unbalanced Prediction. IEEE Journal of Biomedical and Health Informatics, 2022, 26, 828-839.	3.9	2
924	Utilizing Transfer Learning and a Customized Loss Function for Optic Disc Segmentation from Retinal Images. Lecture Notes in Computer Science, 2021, , 687-703.	1.0	1
925	PMED-Net: Pyramid Based Multi-Scale Encoder-Decoder Network for Medical Image Segmentation. IEEE Access, 2021, 9, 55988-55998.	2.6	16
927	MIScnn: a framework for medical image segmentation with convolutional neural networks and deep learning. BMC Medical Imaging, 2021, 21, 12.	1.4	74
928	Application of deep learning algorithm to detect and visualize vertebral fractures on plain frontal radiographs. PLoS ONE, 2021, 16, e0245992.	1.1	24
929	Accuracy of deep learning model-assisted amyloid positron emission tomography scan in predicting Alzheimer's disease: A Systematic Review and meta-analysis. Informatics in Medicine Unlocked, 2021, 25, 100710.	1.9	13
930	An Ensemble-based Approach by Fine-Tuning the Deep Transfer Learning Models to Classify Pneumonia from Chest X-Ray Images. , 2021, , .		6
932	Multiclass Stomach Diseases Classification Using Deep Learning Features Optimization. Computers, Materials and Continua, 2021, 67, 3381-3399.	1.5	14
933	Transfer Learning Through Weighted Loss Function and Group Normalization for Vessel Segmentation from Retinal Images. , 2021, , .		7
934	Deep Learning With Radiogenomics Towards Personalized Management of Gliomas. IEEE Reviews in Biomedical Engineering, 2023, 16, 579-593.	13.1	4
935	Improvement of Multiparametric MR Image Segmentation by Augmenting the Data With Generative Adversarial Networks for Glioma Patients. Frontiers in Computational Neuroscience, 2020, 14, 495075.	1.2	12
936	Wide-Range Measurement of Thermal Preferenceâ€”A Novel Method for Detecting Analgesics Reducing Thermally-Evoked Pain in Mice. Molecules, 2021, 26, 612.	1.7	2
937	Some Problematic Aspects of Coliform Bacteria Clustering on Medical Images in the Task of Identifying Possible Diseases. Journal of Asian Multicultural Research for Medical and Health Science Study, 2021, 2, 1-7.	0.1	0
938	Semi-supervised Learning in Computer-aided Diagnosis. , 2021, , .		0

#	ARTICLE	IF	CITATIONS
939	Machine Learning Approach for Biopsy-Based Identification of Eosinophilic Esophagitis Reveals Importance of Global features. IEEE Open Journal of Engineering in Medicine and Biology, 2021, 2, 218-223.	1.7	19
940	A deep learning based automatic segmentation approach for anatomical structures in intensity modulation radiotherapy. Mathematical Biosciences and Engineering, 2021, 18, 7506-7524.	1.0	2
941	Artificial intelligence for diagnosis of fractures on plain radiographs: A scoping review of current literature. Intelligence-based Medicine, 2021, 5, 100033.	1.4	11
942	Deep learning encodes robust discriminative neuroimaging representations to outperform standard machine learning. Nature Communications, 2021, 12, 353.	5.8	114
943	A 3D-CNN model with CT-based parametric response mapping for classifying COPD subjects. Scientific Reports, 2021, 11, 34.	1.6	40
944	Different Machine Learning and Deep Learning Methods for the Classification of Colorectal Cancer Lymph Node Metastasis Images. Frontiers in Bioengineering and Biotechnology, 2020, 8, 620257.	2.0	6
945	Transformer Network for Significant Stenosis Detection in CCTA of Coronary Arteries. Lecture Notes in Computer Science, 2021, , 516-525.	1.0	14
946	Cooperative Training and Latent Space Data Augmentation for Robust Medical Image Segmentation. Lecture Notes in Computer Science, 2021, , 149-159.	1.0	12
947	A Multi-attribute Controllable Generative Model for Histopathology Image Synthesis. Lecture Notes in Computer Science, 2021, , 613-623.	1.0	3
948	One Representative-Shot Learning Using a Population-Driven Template with Application to Brain Connectivity Classification and Evolution Prediction. Lecture Notes in Computer Science, 2021, , 25-36.	1.0	2
949	Breast Cancer Classification Using Deep Convolution Neural Network with Transfer Learning. Intelligent Automation and Soft Computing, 2021, 29, 803-814.	1.6	5
950	Biomedical Imaging Informatics. , 2021, , 299-362.		3
951	AIM in MÃ©niÃ©reâ€™s Disease. , 2021, , 1-13.		0
952	A Review on Deep Learning Architecture and Methods for MRI Brain Tumour Segmentation. Current Medical Imaging, 2021, 17, 695-706.	0.4	20
953	Generation of Brain Dual-Energy CT from Single-Energy CT Using Deep Learning. Journal of Digital Imaging, 2021, 34, 149-161.	1.6	9
954	Hyperspectral Remote Sensing Image Classification Based On Deep Learning. Journal of Physics: Conference Series, 2021, 1744, 042185.	0.3	2
955	A New Pooling Approach Based on Zeckendorfâ€™s Theorem for Texture Transfer Information. Entropy, 2021, 23, 279.	1.1	4
956	Diagnosis of COVID-19 using CT scan images and deep learning techniques. Emergency Radiology, 2021, 28, 497-505.	1.0	202

#	ARTICLE	IF	CITATIONS
957	An Extensive Study on Deep Learning: Techniques, Applications. Archives of Computational Methods in Engineering, 2021, 28, 4471-4485.	6.0	8
958	Human Symmetry Uncertainty Detected by a Self-Organizing Neural Network Map. Symmetry, 2021, 13, 299.	1.1	6
959	R-JaunLab: Automatic Multi-Class Recognition of Jaundice on Photos of Subjects with Region Annotation Networks. Journal of Digital Imaging, 2021, 34, 337-350.	1.6	5
960	UTILIZAÃÃ DE REDES NEURAIS ARTIFICIAS APLICADAS NA DETECAÃÃ DE MELANOMA CUTÃNEO. Revint, 2021, 8, 48-57.	0.0	0
961	Knee Cartilage Thickness Differs Alongside Ages: A 3-T Magnetic Resonance Research Upon 2,481 Subjects via Deep Learning. Frontiers in Medicine, 2020, 7, 600049.	1.2	15
962	U-Net convolutional neural network-based modification method for precise fabrication of three-dimensional microstructures using laser direct writing lithography. Optics Express, 2021, 29, 6236.	1.7	5
963	Prediction of squamous cell carcinoma cases from squamous cell hyperplasia in throat lesions using CT radiomics model. Journal of King Abdulaziz University, Islamic Economics, 2021, 42, 284-292.	0.5	2
964	A Review of an Early Detection and Quantification of Osteoarthritis Severity in Knee using Machine Learning Techniques. IOP Conference Series: Materials Science and Engineering, 2021, 1057, 012095.	0.3	2
965	Applying artificial intelligence for cancer immunotherapy. Acta Pharmaceutica Sinica B, 2021, 11, 3393-3405.	5.7	33
966	Application of deep learning algorithms in geotechnical engineering: a short critical review. Artificial Intelligence Review, 2021, 54, 5633-5673.	9.7	223
967	Case Report: Utilizing AI and NLP to Assist with Healthcare and Rehabilitation During the COVID-19 Pandemic. Frontiers in Artificial Intelligence, 2021, 4, 613637.	2.0	23
968	Deep learning based automated diagnosis of bone metastases with SPECT thoracic bone images. Scientific Reports, 2021, 11, 4223.	1.6	24
969	MR Images, Brain Lesions, and Deep Learning. Applied Sciences (Switzerland), 2021, 11, 1675.	1.3	14
970	Identification and Validation of Efficacy of Immunological Therapy for Lung Cancer From Histopathological Images Based on Deep Learning. Frontiers in Genetics, 2021, 12, 642981.	1.1	7
971	Automatic segmentation of coronary lumen and external elastic membrane in intravascular ultrasound images using 8-layer U-Net. BioMedical Engineering OnLine, 2021, 20, 16.	1.3	12
972	Performance Evaluation of Deep Learning-Based Prostate Cancer Screening Methods in Histopathological Images: Measuring the Impact of the Model's Complexity on Its Processing Speed. Sensors, 2021, 21, 1122.	2.1	13
973	Numerical Evaluation on Parametric Choices Influencing Segmentation Results in Radiology Images: A Multi-Dataset Study. Electronics (Switzerland), 2021, 10, 431.	1.8	5
974	Boosted EfficientNet: Detection of Lymph Node Metastases in Breast Cancer Using Convolutional Neural Networks. Cancers, 2021, 13, 661.	1.7	60

#	ARTICLE	IF	CITATIONS
975	Effectiveness of autoencoder for lake area extraction from high-resolution RGB imagery: an experimental study. <i>Environmental Science and Pollution Research</i> , 2021, 28, 31084-31096.	2.7	5
976	Brain Tumor Detection and Classification by Hybrid CNN-DWA Model Using MR Images. <i>Current Medical Imaging</i> , 2021, 17, 1248-1255.	0.4	14
977	SOM-LWL method for identification of COVID-19 on chest X-rays. <i>PLoS ONE</i> , 2021, 16, e0247176.	1.1	21
978	Polen TaÄ±yan Bal ArÄ±larÄ±n MobileNetV2 Mimarisi ile SÄ±nÄ±flandÄ±rÄ±masÄ±. <i>European Journal of Science and Technology</i> , 0, , .	0.5	7
979	Artificial Intelligence and Machine Learning in Prostate Cancer Patient Managementâ€”Current Trends and Future Perspectives. <i>Diagnostics</i> , 2021, 11, 354.	1.3	64
980	DLBench: a comprehensive experimental evaluation of deep learning frameworks. <i>Cluster Computing</i> , 2021, 24, 2017-2038.	3.5	32
981	Fast and Automated Segmentation for the Three-Directional Multi-Slice Cine Myocardial Velocity Mapping. <i>Diagnostics</i> , 2021, 11, 346.	1.3	27
982	Imaging mitotic processes in three dimensions with lattice light-sheet microscopy. <i>Chromosome Research</i> , 2021, 29, 37-50.	1.0	7
984	M-region Segmentation of Pharyngeal Swab Image Based on Improved U-Net Model. , 2021, , .		0
985	A Deep Transfer Learning-based Edge Computing Method for Home Health Monitoring. , 2021, , .		10
986	Deep Learning Algorithm for the Confirmation of Mucosal Healing in Crohnâ€™s Disease, Based on Confocal Laser Endomicroscopy Images. <i>Journal of Gastrointestinal and Liver Diseases</i> , 2021, 30, 59-65.	0.5	15
987	A novel lightweight deep convolutional neural network for early detection of oral cancer. <i>Oral Diseases</i> , 2022, 28, 1123-1130.	1.5	62
988	Use of deep learning for detection, characterisation and prediction of metastatic disease from computerised tomography: a systematic review. <i>Postgraduate Medical Journal</i> , 2022, 98, e20-e20.	0.9	1
989	Human attentionâ€”inspired volume reconstruction method on serial section electron microscopy images. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2021, 99, 575-585.	1.1	0
990	Efficient Medical Image Segmentation Of COVID-19 Chest CT Images Based on Deep Learning Techniques. , 2021, , .		12
991	Brain tumor classification using deep convolutional autoencoder-based neural network: multi-task approach. <i>Multimedia Tools and Applications</i> , 2021, 80, 19909-19929.	2.6	10
992	Computer-aided diagnosis of ground glass pulmonary nodule by fusing deep learning and radiomics features. <i>Physics in Medicine and Biology</i> , 2021, 66, 065015.	1.6	22
993	A Deep Learning Approach to Diagnostic Classification of Prostate Cancer Using Pathologyâ€”Radiology Fusion. <i>Journal of Magnetic Resonance Imaging</i> , 2021, 54, 462-471.	1.9	41

#	ARTICLE	IF	CITATIONS
994	Fundamental functional differences between gyri and sulci: implications for brain function, cognition, and behavior. <i>Psychoradiology</i> , 2021, 1, 23-41.	1.0	33
995	Automatic brain extraction from 3D fetal MR image with deep learning-based multi-step framework. <i>Computerized Medical Imaging and Graphics</i> , 2021, 88, 101848.	3.5	6
997	Metaheuristic-based Deep COVID-19 Screening Model from Chest X-Ray Images. <i>Journal of Healthcare Engineering</i> , 2021, 2021, 1-9.	1.1	67
998	AI4AD: Artificial intelligence analysis for Alzheimer's disease classification based on a multisite DTI database. <i>Brain Disorders</i> , 2021, 1, 100005.	1.1	14
999	Advanced Object Detection in Bio-Medical X-Ray Images for Anomaly Detection and Recognition. <i>International Journal of E-Health and Medical Communications</i> , 2021, 12, 93-110.	1.4	2
1000	CvDeep-COVID-19 Detection Model. <i>SN Computer Science</i> , 2021, 2, 145.	2.3	4
1001	Deep learning predicts boiling heat transfer. <i>Scientific Reports</i> , 2021, 11, 5622.	1.6	36
1002	The Neurobiology of Zika Virus: New Models, New Challenges. <i>Frontiers in Neuroscience</i> , 2021, 15, 654078.	1.4	3
1003	AI-enabled remote monitoring of vital signs for COVID-19: methods, prospects and challenges. <i>Computing (Vienna/New York)</i> , 0, , 1.	3.2	34
1004	Challenges facing quantitative large-scale optical super-resolution, and some simple solutions. <i>IScience</i> , 2021, 24, 102134.	1.9	17
1005	Retinal Image Analysis to Detect Neovascularization using Deep Segmentation. , 2021, , .		2
1006	Artificial intelligence: Deep learning in oncological radiomics and challenges of interpretability and data harmonization. <i>Physica Medica</i> , 2021, 83, 108-121.	0.4	85
1007	Pre-trained VGG-16 with CNN Architecture to classify X-Rays images into Normal or Pneumonia. , 2021, , .		13
1009	Determining the invasiveness of ground-glass nodules using a 3D multi-task network. <i>European Radiology</i> , 2021, 31, 7162-7171.	2.3	9
1010	A crowdsourcing semi-automatic image segmentation platform for cell biology. <i>Computers in Biology and Medicine</i> , 2021, 130, 104204.	3.9	6
1011	Machine Learning Quantitation of Cardiovascular and Cerebrovascular Disease: A Systematic Review of Clinical Applications. <i>Diagnostics</i> , 2021, 11, 551.	1.3	9
1012	Application of physics-based flow models in cardiovascular medicine: Current practices and challenges. <i>Biophysics Reviews</i> , 2021, 2, .	1.0	5
1013	Intelligent Imaging in Nuclear Medicine: the Principles of Artificial Intelligence, Machine Learning and Deep Learning. <i>Seminars in Nuclear Medicine</i> , 2021, 51, 102-111.	2.5	38

#	ARTICLE	IF	CITATIONS
1014	The role of computer-assisted systems for upper-endoscopy quality monitoring and assessment of gastric lesions. <i>Gastroenterology Report</i> , 2021, 9, 185-204.	0.6	1
1015	Artificial intelligence in OCT angiography. <i>Progress in Retinal and Eye Research</i> , 2021, 85, 100965.	7.3	54
1016	Blinded Clinical Evaluation for Dementia of Alzheimer's Type Classification Using FDG-PET: A Comparison Between Feature-Engineered and Non-Feature-Engineered Machine Learning Methods. <i>Journal of Alzheimer's Disease</i> , 2021, 80, 715-726.	1.2	11
1017	Review of deep learning for photoacoustic imaging. <i>Photoacoustics</i> , 2021, 21, 100215.	4.4	86
1018	An Overview of Current Trends, Techniques, Prospects, and Pitfalls of Artificial Intelligence in Breast Imaging. <i>Reports in Medical Imaging</i> , 0, Volume 14, 15-25.	0.8	5
1019	Deep learning with a convolutional neural network model to differentiate renal parenchymal tumors: a preliminary study. <i>Abdominal Radiology</i> , 2021, 46, 3260-3268.	1.0	13
1020	Requirements and reliability of AI in the medical context. <i>Physica Medica</i> , 2021, 83, 72-78.	0.4	30
1021	Novel Data Augmentation Employing Multivariate Gaussian Distribution for Neural Network-Based Blood Pressure Estimation. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 3923.	1.3	6
1022	Artificial intelligence for pancreatic cancer detection: Recent development and future direction. <i>Artificial Intelligence in Gastroenterology</i> , 2021, 2, 56-68.	0.2	2
1024	A survey on incorporating domain knowledge into deep learning for medical image analysis. <i>Medical Image Analysis</i> , 2021, 69, 101985.	7.0	128
1025	Nerve recognition in percutaneous transforaminal endoscopic discectomy using convolutional neural network. <i>Medical Physics</i> , 2021, 48, 2279-2288.	1.6	4
1026	A Deep Learning Streaming Methodology for Trajectory Classification. <i>ISPRS International Journal of Geo-Information</i> , 2021, 10, 250.	1.4	21
1027	Artificial Intelligence-based methods in head and neck cancer diagnosis: an overview. <i>British Journal of Cancer</i> , 2021, 124, 1934-1940.	2.9	64
1028	Semi-supervised learning for an improved diagnosis of COVID-19 in CT images. <i>PLoS ONE</i> , 2021, 16, e0249450.	1.1	12
1029	Three ways of knowing: the integration of clinical expertise, evidence-based medicine, and artificial intelligence in assisted reproductive technologies. <i>Journal of Assisted Reproduction and Genetics</i> , 2021, 38, 1617-1625.	1.2	14
1030	Detection and Classification of COVID 19 using Convolutional Neural Network from Chest X-ray Images. , 2021, , .		6
1031	Improving Domain Generalization in Segmentation Models with Neural Style Transfer. , 2021, , .		3
1033	Grand Challenges in AI in Radiology. <i>Frontiers in Radiology</i> , 2021, 1, .	1.2	3

#	ARTICLE	IF	CITATIONS
1034	Data Augmentation for Improved Brain Tumor Segmentation. IETE Journal of Research, 2023, 69, 2772-2782.	1.8	8
1035	Richer fusion network for breast cancer classification based on multimodal data. BMC Medical Informatics and Decision Making, 2021, 21, 134.	1.5	22
1036	Autosegmentation of Prostate Zones and Cancer Regions from Biparametric Magnetic Resonance Images by Using Deep-Learning-Based Neural Networks. Sensors, 2021, 21, 2709.	2.1	14
1037	Artificial intelligence in gastroenterology and hepatology: Status and challenges. World Journal of Gastroenterology, 2021, 27, 1664-1690.	1.4	17
1038	Quantitative Molecular Positron Emission Tomography Imaging Using Advanced Deep Learning Techniques. Annual Review of Biomedical Engineering, 2021, 23, 249-276.	5.7	30
1039	Deep learning for the radiographic diagnosis of proximal femur fractures: Limitations and programming issues. Orthopaedics and Traumatology: Surgery and Research, 2021, 107, 102837.	0.9	13
1040	Automated segmentation of left ventricular myocardium using cascading convolutional neural networks based on echocardiography. AIP Advances, 2021, 11, .	0.6	1
1041	Symmetric Deformable Registration via Learning a Pseudomean for MR Brain Images. Journal of Healthcare Engineering, 2021, 2021, 1-8.	1.1	2
1042	Fighting Deepfakes Using Body Language Analysis. Forecasting, 2021, 3, 303-321.	1.6	7
1043	Optimized imaging methods for species-level identification of food-contaminating beetles. Scientific Reports, 2021, 11, 7957.	1.6	1
1044	Constrained generative adversarial network ensembles for sharable synthetic medical images. Journal of Medical Imaging, 2021, 8, 024004.	0.8	11
1045	A Comprehensive Overview of Image Enhancement Techniques. Archives of Computational Methods in Engineering, 2022, 29, 583-607.	6.0	42
1046	Quantitative Radiomic Features as New Biomarkers for Alzheimer's Disease: An Amyloid PET Study. Cerebral Cortex, 2021, 31, 3950-3961.	1.6	18
1048	A Lightweight Deep Learning-Based Pneumonia Detection Approach for Energy-Efficient Medical Systems. Wireless Communications and Mobile Computing, 2021, 2021, 1-14.	0.8	13
1049	Multi-modal neuroimaging feature fusion via 3D Convolutional Neural Network architecture for schizophrenia diagnosis. Intelligent Data Analysis, 2021, 25, 527-540.	0.4	6
1050	The Multi-Task Deep Model-Based Pneumonia Detection. Journal of Physics: Conference Series, 2021, 1883, 012034.	0.3	0
1051	Regenerative medicine meets mathematical modelling: developing symbiotic relationships. Npj Regenerative Medicine, 2021, 6, 24.	2.5	31
1052	A through-focus scanning optical microscopy dimensional measurement method based on deep learning classification model. Journal of Microscopy, 2021, 283, 117-126.	0.8	4

#	ARTICLE	IF	CITATIONS
1053	Application of Artificial Intelligence techniques for the detection of Alzheimer's disease using structural MRI images. <i>Biocybernetics and Biomedical Engineering</i> , 2021, 41, 456-473.	3.3	42
1054	Current and emerging artificial intelligence applications for pediatric abdominal imaging. <i>Pediatric Radiology</i> , 2021, , 1.	1.1	7
1055	Detection of COVID-19 Disease in Chest X-Ray Images with capsule networks: application with cloud computing. <i>Journal of Experimental and Theoretical Artificial Intelligence</i> , 0, , 1-15.	1.8	5
1056	Deep Learning Based Airway Segmentation Using Key Point Prediction. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 3501.	1.3	11
1057	Prospective assessment of breast cancer risk from multimodal multiview ultrasound images via clinically applicable deep learning. <i>Nature Biomedical Engineering</i> , 2021, 5, 522-532.	11.6	109
1058	CNN based Covid-aid: Covid 19 Detection using Chest X-ray. , 2021, , .		20
1059	Improving the quality of care for patients requiring continuous renal replacement therapy. <i>Seminars in Dialysis</i> , 2021, 34, 501-509.	0.7	4
1060	Use of artificial intelligence to enhance phenotypic drug discovery. <i>Drug Discovery Today</i> , 2021, 26, 887-901.	3.2	30
1061	Surgical planning of pelvic tumor using multi-view CNN with relation-context representation learning. <i>Medical Image Analysis</i> , 2021, 69, 101954.	7.0	20
1062	A Novel Method for COVID-19 Diagnosis Using Artificial Intelligence in Chest X-ray Images. <i>Healthcare (Switzerland)</i> , 2021, 9, 522.	1.0	58
1063	Multimodal, multitask, multiattention (M3) deep learning detection of reticular pseudodrusen: Toward automated and accessible classification of age-related macular degeneration. <i>Journal of the American Medical Informatics Association: JAMIA</i> , 2021, 28, 1135-1148.	2.2	11
1064	Flame: an open source framework for model development, hosting, and usage in production environments. <i>Journal of Cheminformatics</i> , 2021, 13, 31.	2.8	9
1065	A multi-resolution model for histopathology image classification and localization with multiple instance learning. <i>Computers in Biology and Medicine</i> , 2021, 131, 104253.	3.9	54
1066	Grand Challenges in Radiology. <i>Frontiers in Radiology</i> , 2021, 1, .	1.2	0
1067	Voxel-Wise Feature Selection Method for CNN Binary Classification of Neuroimaging Data. <i>Frontiers in Neuroscience</i> , 2021, 15, 630747.	1.4	2
1068	MedMNIST Classification Decathlon: A Lightweight AutoML Benchmark for Medical Image Analysis. , 2021, , .		99
1069	The influence of axial myopia on optic disc characteristics of glaucoma eyes. <i>Scientific Reports</i> , 2021, 11, 8854.	1.6	21
1070	Convolutional neural networks for Alzheimer's disease detection on MRI images. <i>Journal of Medical Imaging</i> , 2021, 8, 024503.	0.8	31

#	ARTICLE	IF	CITATIONS
1071	Automatic Fault Mapping in Remote Optical Images and Topographic Data With Deep Learning. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, e2020JB021269.	1.4	11
1072	Unsupervised deformable image registration network for 3D medical images. <i>Applied Intelligence</i> , 2022, 52, 766-779.	3.3	8
1073	NeuroCrypt: Machine Learning Over Encrypted Distributed Neuroimaging Data. <i>Neuroinformatics</i> , 2022, 20, 91-108.	1.5	6
1074	Spatio-Temporal Mitosis Detection in Time-Lapse Phase-Contrast Microscopy Image Sequences: A Benchmark. <i>IEEE Transactions on Medical Imaging</i> , 2021, 40, 1319-1328.	5.4	16
1075	Efficient 3D Junction Detection in Biomedical Images Based on a Circular Sampling Model and Reverse Mapping. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2021, 25, 1612-1623.	3.9	3
1076	Improved Prediction of Imminent Progression to Clinically Significant Memory Decline Using Surface Multivariate Morphometry Statistics and Sparse Coding. <i>Journal of Alzheimer's Disease</i> , 2021, 81, 209-220.	1.2	6
1077	Transfer learning-assisted multi-resolution breast cancer histopathological images classification. <i>Visual Computer</i> , 2022, 38, 2751-2770.	2.5	41
1078	Detection and Grading of Gliomas Using a Novel Two-Phase Machine Learning Method Based on MRI Images. <i>Frontiers in Neuroscience</i> , 2021, 15, 650629.	1.4	10
1079	Convolutional Extreme Learning Machines: A Systematic Review. <i>Informatics</i> , 2021, 8, 33.	2.4	10
1080	Detecting the pulmonary trunk in CT scout views using deep learning. <i>Scientific Reports</i> , 2021, 11, 10215.	1.6	4
1081	A deep learning-based model for characterization of atherosclerotic plaque in coronary arteries using optical coherence tomography images. <i>Medical Physics</i> , 2021, 48, 3511-3524.	1.6	12
1082	Adaptive factorization rank selection-based NMF and its application in tumor recognition. <i>International Journal of Machine Learning and Cybernetics</i> , 2021, 12, 2673-2691.	2.3	3
1083	A Deep Neural Network-Based Method for Prediction of Dementia Using Big Data. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 5386.	1.2	13
1084	3E-Net: Entropy-Based Elastic Ensemble of Deep Convolutional Neural Networks for Grading of Invasive Breast Carcinoma Histopathological Microscopic Images. <i>Entropy</i> , 2021, 23, 620.	1.1	21
1085	A review on Deep Learning approaches for low-dose Computed Tomography restoration. <i>Complex & Intelligent Systems</i> , 2023, 9, 2713-2745.	4.0	34
1086	Role of machine learning in medical research: A survey. <i>Computer Science Review</i> , 2021, 40, 100370.	10.2	78
1087	Interactive prostate MR image segmentation based on ConvLSTMs and GGNN. <i>Neurocomputing</i> , 2021, 438, 84-93.	3.5	15
1088	Automated Prediction of Ischemic Brain Tissue Fate from Multiphase Computed Tomographic Angiography in Patients with Acute Ischemic Stroke Using Machine Learning. <i>Journal of Stroke</i> , 2021, 23, 234-243.	1.4	13

#	ARTICLE	IF	CITATIONS
1089	A novel convolutional neural network method for subject-independent driver drowsiness detection based on single-channel data and EEG alpha spindles. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2021, 235, 1069-1078.	1.0	6
1090	Tumor bagging: a novel framework for brain tumor segmentation using metaheuristic optimization algorithms. Multimedia Tools and Applications, 2021, 80, 26969-26995.	2.6	12
1091	A deep learning system for detecting diabetic retinopathy across the disease spectrum. Nature Communications, 2021, 12, 3242.	5.8	188
1092	A deep-learning semantic segmentation approach to fully automated MRI-based left-ventricular deformation analysis in cardiotoxicity. Magnetic Resonance Imaging, 2021, 78, 127-139.	1.0	13
1093	Anatomy-aided deep learning for medical image segmentation: a review. Physics in Medicine and Biology, 2021, 66, 11TR01.	1.6	32
1094	Segmentation of neurons from fluorescence calcium recordings beyond real time. Nature Machine Intelligence, 2021, 3, 590-600.	8.3	27
1095	Performance Analysis of Deep Learning Frameworks for COVID 19 Detection. , 2021, , .		4
1096	A novel method for multispectral image pansharpening based on high dimensional model representation. Expert Systems With Applications, 2021, 170, 114512.	4.4	11
1097	A Review of Deep Learning in Medical Imaging: Imaging Traits, Technology Trends, Case Studies With Progress Highlights, and Future Promises. Proceedings of the IEEE, 2021, 109, 820-838.	16.4	339
1098	The Promise of AI in Detection, Diagnosis, and Epidemiology for Combating COVID-19: Beyond the Hype. Frontiers in Artificial Intelligence, 2021, 4, 652669.	2.0	27
1099	Generative Adversarial Networks in Medical Image Processing. Current Pharmaceutical Design, 2021, 27, 1856-1868.	0.9	26
1100	Hybrid analysis and modeling, eclecticism, and multifidelity computing toward digital twin revolution. GAMM Mitteilungen, 2021, 44, e202100007.	2.7	26
1101	Artificial Intelligence Based Algorithms for Prostate Cancer Classification and Detection on Magnetic Resonance Imaging: A Narrative Review. Diagnostics, 2021, 11, 959.	1.3	43
1102	Histopathology Image Segmentation Using MobileNetV2 based U-net Model. , 2021, , .		9
1103	LRNet: Skin Cancer Classification using Low-Resolution Images. , 2021, , .		2
1104	Weighted Ensemble of Deep Learning Models based on Comprehensive Learning Particle Swarm Optimization for Medical Image Segmentation. , 2021, , .		11
1105	Machine learning and deep learning algorithms used to diagnosis of Alzheimerâ€™s: Review. Materials Today: Proceedings, 2021, 47, 5151-5156.	0.9	7
1106	Advances in Deep Learning-Based Medical Image Analysis. Health Data Science, 2021, 2021, .	1.1	36

#	ARTICLE	IF	CITATIONS
1107	Yet Another Automated Gleason Grading System (YAAGGS) by weakly supervised deep learning. Npj Digital Medicine, 2021, 4, 99.	5.7	29
1108	An integrated framework for COVID-19 classification based on classical and quantum transfer learning from a chest radiograph. Concurrency Computation Practice and Experience, 2022, 34, e6434.	1.4	28
1109	Using Hybrid Artificial Intelligence and Evolutionary Optimization Algorithms for Estimating Soybean Yield and Fresh Biomass Using Hyperspectral Vegetation Indices. Remote Sensing, 2021, 13, 2555.	1.8	44
1110	A Deep Learning Approach for Molecular Classification Based on AFM Images. Nanomaterials, 2021, 11, 1658.	1.9	15
1111	Convolutional Autoencoder based Deep Learning Approach for Alzheimer's Disease Diagnosis using Brain MRI. , 2021, , .		6
1112	A new scheme for the assessment of the robustness of Explainable Methods Applied to Brain Age estimation. , 2021, , .		8
1113	Automatic knee cartilage and bone segmentation using multi-stage convolutional neural networks: data from the osteoarthritis initiative. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2021, 34, 859-875.	1.1	15
1114	Application of deep learning as a noninvasive tool to differentiate muscle-invasive bladder cancer and non-muscle-invasive bladder cancer with CT. European Journal of Radiology, 2021, 139, 109666.	1.2	16
1115	3PCNNB-Net: Three Parallel CNN Branches for Breast Cancer Classification Through Histopathological Images. Journal of Medical and Biological Engineering, 2021, 41, 494-503.	1.0	14
1116	Identifying the histologic subtypes of non-small cell lung cancer with computed tomography imaging: a comparative study of capsule net, convolutional neural network, and radiomics. Quantitative Imaging in Medicine and Surgery, 2021, 11, 2756-2765.	1.1	16
1117	Feasibility of a deep learning-based algorithm for automated detection and classification of nasal polyps and inverted papillomas on nasal endoscopic images. International Forum of Allergy and Rhinology, 2021, 11, 1637-1646.	1.5	12
1118	Development and Validation of a Novel Computed-Tomography Enterography Radiomic Approach for Characterization of Intestinal Fibrosis in Crohn's Disease. Gastroenterology, 2021, 160, 2303-2316.e11.	0.6	57
1119	Volumetric Semantic Instance Segmentation of the Plasma Membrane of HeLa Cells. Journal of Imaging, 2021, 7, 93.	1.7	4
1120	Diffuse large B-cell lymphoma segmentation in PET-CT images via hybrid learning for feature fusion. Medical Physics, 2021, 48, 3665-3678.	1.6	16
1121	Multimodal medical image fusion review: Theoretical background and recent advances. Signal Processing, 2021, 183, 108036.	2.1	130
1122	Non-Alcoholic Fatty Liver Disease: Implementing Complete Automated Diagnosis and Staging. A Systematic Review. Diagnostics, 2021, 11, 1078.	1.3	13
1123	Clinical Application of Machine Learning Models for Brain Imaging in Epilepsy: A Review. Frontiers in Neuroscience, 2021, 15, 684825.	1.4	21
1124	A Deep Convolutional Neural Network for Detection of Malaria Parasite in Thin Blood Smear Images. , 2021, , .		3

#	ARTICLE	IF	CITATIONS
1125	A three-stage, deep learning, ensemble approach for prognosis in patients with Parkinson's disease. EJNMMI Research, 2021, 11, 52.	1.1	25
1126	Dual temporal convolutional network for single-lead fibrillation waveform extraction. Neural Computing and Applications, 2021, 33, 15281.	3.2	1
1127	Evaluation of the usefulness of deep neural networks in classifying X-ray images according to radiation exposure level for automatic exposure control of digital radiography. Journal of the Korean Physical Society, 2021, 79, 208-215.	0.3	0
1128	Automatic MR image quality evaluation using a Deep CNN: A reference-free method to rate motion artifacts in neuroimaging. Computerized Medical Imaging and Graphics, 2021, 90, 101897.	3.5	12
1130	Glaucoma classification based on scanning laser ophthalmoscopic images using a deep learning ensemble method. PLoS ONE, 2021, 16, e0252339.	1.1	11
1131	Visual interpretation of CNN decision-making process using Simulated Brain MRI. , 2021, , .		5
1132	Deep learning for biomedical photoacoustic imaging: A review. Photoacoustics, 2021, 22, 100241.	4.4	126
1133	The Impact of Using Different Color Spaces in Histological Image Classification using Convolutional Neural Networks. , 2021, , .		2
1134	An automatic hyperparameter optimization DNN model for precipitation prediction. Applied Intelligence, 2022, 52, 2703-2719.	3.3	11
1135	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
1136	Classification and Identification of Alzheimer Disease With Fuzzy Logic Method. , 2021, , .		1
1137	DisperNet: An Effective Method of Extracting and Classifying the Dispersion Curves in the Frequency-Bessel Dispersion Spectrum. Bulletin of the Seismological Society of America, 2021, 111, 3420-3431.	1.1	18
1138	Impact of Upstream Medical Image Processing on Downstream Performance of a Head CT Triage Neural Network. Radiology: Artificial Intelligence, 2021, 3, e200229.	3.0	6
1139	Multi-site MRI harmonization via attention-guided deep domain adaptation for brain disorder identification. Medical Image Analysis, 2021, 71, 102076.	7.0	65
1140	The application of artificial intelligence to chest medical image analysis. Intelligent Medicine, 2021, 1, 104-117.	1.6	8
1141	Image-versus histogram-based considerations in semantic segmentation of pulmonary hyperpolarized gas images. Magnetic Resonance in Medicine, 2021, 86, 2822-2836.	1.9	6
1143	Deep learning for segmentation in radiation therapy planning: a review. Journal of Medical Imaging and Radiation Oncology, 2021, 65, 578-595.	0.9	40
1144	A novel graph attention model for predicting frequencies of drug's side effects from multi-view data. Briefings in Bioinformatics, 2021, 22, .	3.2	21

#	ARTICLE	IF	CITATIONS
1145	Deep Learning-Based Diabetic Retinopathy Detection. International Journal of Organizational and Collective Intelligence, 2021, 11, 38-48.	0.3	2
1146	DeepBreastNet: A novel and robust approach for automated breast cancer detection from histopathological images. Biocybernetics and Biomedical Engineering, 2021, 41, 1123-1139.	3.3	21
1147	Deep sequence modelling for Alzheimer's disease detection using MRI. Computers in Biology and Medicine, 2021, 134, 104537.	3.9	41
1148	<scp>Nonlocal</scp> convolutional block attention module <scp>VNet</scp> for gliomas automatic segmentation. International Journal of Imaging Systems and Technology, 2022, 32, 528-543.	2.7	14
1149	Parametric Evaluation of Improved Deep Learning Networks for Musculoskeletal Disorder (MSD) Classification. , 2021, , .		0
1150	Context encoder self-supervised approaches for eye fundus analysis. , 2021, , .		1
1151	Attack as defense: characterizing adversarial examples using robustness. , 2021, , .		21
1152	PScl-HDeep: image-based prediction of protein subcellular location in human tissue using ensemble learning of handcrafted and deep learned features with two-layer feature selection. Briefings in Bioinformatics, 2021, 22, .	3.2	27
1153	A Convolutional Neural Network Approach for Detecting Malignancy of Ovarian Cancer. Advances in Intelligent Systems and Computing, 2022, , 305-317.	0.5	1
1154	The application of artificial intelligence in hepatology: A systematic review. Digestive and Liver Disease, 2022, 54, 299-308.	0.4	13
1155	Automatic Diagnosis of Coronary Artery Disease in SPECT Myocardial Perfusion Imaging Employing Deep Learning. Applied Sciences (Switzerland), 2021, 11, 6362.	1.3	25
1156	DeepCUBIT: Predicting Lymphovascular Invasion or Pathological Lymph Node Involvement of Clinical T1 Stage Non-Small Cell Lung Cancer on Chest CT Scan Using Deep Cubical Nodule Transfer Learning Algorithm. Frontiers in Oncology, 2021, 11, 661244.	1.3	5
1157	Comparison of the Predicting Performance for Fate of Medial Meniscus Posterior Root Tear Based on Treatment Strategies: A Comparison between Logistic Regression, Gradient Boosting, and CNN Algorithms. Diagnostics, 2021, 11, 1225.	1.3	3
1159	A Novel Knowledge Distillation-Based Feature Selection for the Classification of ADHD. Biomolecules, 2021, 11, 1093.	1.8	9
1160	Early Esophageal Cancer detection using Deep learning Techniques. (Review Article). Journal of Physics: Conference Series, 2021, 1963, 012066.	0.3	5
1161	Hyperspectral Remote Sensing Images Deep Feature Extraction Based on Mixed Feature and Convolutional Neural Networks. Remote Sensing, 2021, 13, 2599.	1.8	16
1162	COVID-19 Diagnosis from CT Imaging using Imaging and Machine Analysis. International Journal of Innovative Technology and Exploring Engineering, 2021, 10, 80-83.	0.2	0
1163	Design of Multimedia Guiding System based on Compressed Sensing of Streaming Signal to Assist Vocal Music Guiding. , 2021, , .		0

#	ARTICLE	IF	CITATIONS
1164	Estimating the Pose of a Guinea-pig Cochlea Without Medical Imaging. <i>Otology and Neurotology</i> , 2021, 42, e1219-e1226.	0.7	1
1165	Committee of NAS-based models. , 2021, , .		0
1166	Multiple Self-attention Network for Intracranial Vessel Segmentation. , 2021, , .		3
1167	Towards automatic diagnosis of rheumatic heart disease on echocardiographic exams through video-based deep learning. <i>Journal of the American Medical Informatics Association: JAMIA</i> , 2021, 28, 1834-1842.	2.2	23
1168	Second-order multi-instance learning model for whole slide image classification. <i>Physics in Medicine and Biology</i> , 2021, 66, 145006.	1.6	10
1169	Forecasting inflation in Latin American countries using a SARIMA+LSTM combination. <i>Soft Computing</i> , 2021, 25, 10851-10862.	2.1	7
1171	A Characterization Approach for the Review of CAD Systems Designed for Breast Tumor Classification Using B-Mode Ultrasound Images. <i>Archives of Computational Methods in Engineering</i> , 2022, 29, 1485-1523.	6.0	6
1172	Bayesian neural networks for stock price forecasting before and during COVID-19 pandemic. <i>PLoS ONE</i> , 2021, 16, e0253217.	1.1	22
1173	Intelligent Computer-Aided Prostate Cancer Diagnosis Systems: State-of-the-Art and Future Directions. <i>Mathematical Problems in Engineering</i> , 2021, 2021, 1-17.	0.6	1
1174	Tumor detection using deep learning method in automated breast ultrasound. <i>Biomedical Signal Processing and Control</i> , 2021, 68, 102677.	3.5	20
1175	Graph-Based Deep Learning for Medical Diagnosis and Analysis: Past, Present and Future. <i>Sensors</i> , 2021, 21, 4758.	2.1	90
1176	A fully automated deep learning-based network for detecting COVID-19 from a new and large lung CT scan dataset. <i>Biomedical Signal Processing and Control</i> , 2021, 68, 102588.	3.5	193
1177	A survey on active learning and human-in-the-loop deep learning for medical image analysis. <i>Medical Image Analysis</i> , 2021, 71, 102062.	7.0	237
1178	Multi-channel attention-fusion neural network for brain age estimation: Accuracy, generality, and interpretation with 16,705 healthy MRIs across lifespan. <i>Medical Image Analysis</i> , 2021, 72, 102091.	7.0	30
1179	What is new in computer vision and artificial intelligence in medical image analysis applications. <i>Quantitative Imaging in Medicine and Surgery</i> , 2021, 11, 3830-3853.	1.1	28
1180	Unpaired Stain Transfer Using Pathology-Consistent Constrained Generative Adversarial Networks. <i>IEEE Transactions on Medical Imaging</i> , 2021, 40, 1977-1989.	5.4	51
1181	A deep learning study on osteosarcoma detection from histological images. <i>Biomedical Signal Processing and Control</i> , 2021, 69, 102931.	3.5	38
1182	Transfer Learning-Based Brain Tumor Detection Using MR Images. <i>Smart Innovation, Systems and Technologies</i> , 2022, , 287-297.	0.5	0

#	ARTICLE	IF	CITATIONS
1183	Dataset Growth in Medical Image Analysis Research. <i>Journal of Imaging</i> , 2021, 7, 155.	1.7	11
1184	Data-Driven Modeling of Pregnancy-Related Complications. <i>Trends in Molecular Medicine</i> , 2021, 27, 762-776.	3.5	29
1185	Training of computational algorithms to predict NAFLD activity score and fibrosis stage from liver histopathology slides. <i>Computer Methods and Programs in Biomedicine</i> , 2021, 207, 106153.	2.6	17
1186	Non-destructive internal disorder detection of Conference pears by semantic segmentation of X-ray CT scans using deep learning. <i>Expert Systems With Applications</i> , 2021, 176, 114925.	4.4	23
1187	Classification of Lung Disease in Children by Using Lung Ultrasound Images and Deep Convolutional Neural Network. <i>Frontiers in Physiology</i> , 2021, 12, 693448.	1.3	4
1188	S3Reg: Superfast Spherical Surface Registration Based on Deep Learning. <i>IEEE Transactions on Medical Imaging</i> , 2021, 40, 1964-1976.	5.4	17
1189	Multi scale decomposition based medical image fusion using convolutional neural network and sparse representation. <i>Biomedical Signal Processing and Control</i> , 2021, 69, 102789.	3.5	24
1190	Discovery of Genetic Biomarkers for Alzheimer's Disease Using Adaptive Convolutional Neural Networks Ensemble and Genome-Wide Association Studies. <i>Interdisciplinary Sciences, Computational Life Sciences</i> , 2021, 13, 787-800.	2.2	5
1191	Scale- and Slice-aware Net (S ² aNet) for 3D segmentation of organs and musculoskeletal structures in pelvic MRI. <i>Magnetic Resonance in Medicine</i> , 2022, 87, 431-445.	1.9	1
1192	Influencing Factors and Strategies of the Flow of Academic Professionals in Colleges and Universities Based on Convolutional Neural Networks. <i>Mobile Information Systems</i> , 2021, 2021, 1-11.	0.4	0
1193	Content-Based Medical Image Retrieval and Intelligent Interactive Visual Browser for Medical Education, Research and Care. <i>Diagnostics</i> , 2021, 11, 1470.	1.3	4
1194	AI-Based Image Processing for COVID-19 Detection in Chest CT Scan Images. <i>Frontiers in Communications and Networks</i> , 2021, 2, .	1.9	20
1195	ABCnet: Adversarial bias correction network for infant brain MR images. <i>Medical Image Analysis</i> , 2021, 72, 102133.	7.0	6
1196	MedicalGuard: U-Net Model Robust against Adversarially Perturbed Images. <i>Security and Communication Networks</i> , 2021, 2021, 1-8.	1.0	10
1197	Multi-Input Dual-Stream Capsule Network for Improved Lung and Colon Cancer Classification. <i>Diagnostics</i> , 2021, 11, 1485.	1.3	36
1198	Classification for avian malaria parasite <i>Plasmodium gallinaceum</i> blood stages by using deep convolutional neural networks. <i>Scientific Reports</i> , 2021, 11, 16919.	1.6	16
1199	A unified framework for personalized regions selection and functional relation modeling for early MCI identification. <i>NeuroImage</i> , 2021, 236, 118048.	2.1	16
1200	Toward deep MRI segmentation for Alzheimer's disease detection. <i>Neural Computing and Applications</i> , 2022, 34, 1047-1063.	3.2	24

#	ARTICLE	IF	CITATIONS
1201	Artificial Intelligence in Quantitative Ultrasound Imaging. <i>Journal of Ultrasound in Medicine</i> , 2021, , .	0.8	2
1203	The Impact of Artificial Intelligence and Deep Learning in Eye Diseases: A Review. <i>Frontiers in Medicine</i> , 2021, 8, 710329.	1.2	26
1204	Prediction of Motor Function in Stroke Patients Using Machine Learning Algorithm: Development of Practical Models. <i>Journal of Stroke and Cerebrovascular Diseases</i> , 2021, 30, 105856.	0.7	15
1205	Improving the Accuracy in Classification of Blood Pressure from Photoplethysmography Using Continuous Wavelet Transform and Deep Learning. <i>International Journal of Hypertension</i> , 2021, 2021, 1-9.	0.5	17
1206	Machine learning in drug design: Use of artificial intelligence to explore the chemical structureâ€“biological activity relationship. <i>Wiley Interdisciplinary Reviews: Computational Molecular Science</i> , 2022, 12, e1568.	6.2	38
1207	Machine Learning-Assisted Sampling of Surface-Enhanced Raman Scattering (SERS) Substrates Improve Data Collection Efficiency. <i>Applied Spectroscopy</i> , 2022, 76, 485-495.	1.2	11
1208	Predicting cell behaviour parameters from glioblastoma on a chip images. A deep learning approach. <i>Computers in Biology and Medicine</i> , 2021, 135, 104547.	3.9	9
1209	Machine learning approaches for improving near-real-time IMERG rainfall estimates by integrating Cloud Properties from NOAA CDR PATMOSX. <i>Journal of Hydrometeorology</i> , 2021, , .	0.7	1
1210	MIDeepSeg: Minimally interactive segmentation of unseen objects from medical images using deep learning. <i>Medical Image Analysis</i> , 2021, 72, 102102.	7.0	48
1211	Artificial Intelligence Surgery: How Do We Get to Autonomous Actions in Surgery?. <i>Sensors</i> , 2021, 21, 5526.	2.1	51
1212	Identify glomeruli in human kidney tissue images using a deep learning approach. <i>Soft Computing</i> , 2023, 27, 2705-2716.	2.1	15
1213	Regularization based discriminative feature pattern selection for the classification of Parkinson cases using machine learning. <i>Bio-Algorithms and Med-Systems</i> , 2021, 17, 181-189.	1.0	1
1214	A review on deep learning in medical image analysis. <i>International Journal of Multimedia Information Retrieval</i> , 2022, 11, 19-38.	3.6	154
1215	Key Technology Considerations in Developing and Deploying Machine Learning Models in Clinical Radiology Practice. <i>JMIR Medical Informatics</i> , 2021, 9, e28776.	1.3	10
1216	Colorectal Polyp Image Detection and Classification through Grayscale Images and Deep Learning. <i>Sensors</i> , 2021, 21, 5995.	2.1	25
1217	Development of deep learning models for microglia analyses in brain tissue using DeePathologyâ„¢ STUDIO. <i>Journal of Neuroscience Methods</i> , 2021, 364, 109371.	1.3	14
1219	Radiomics analysis combining unsupervised learning and handcrafted features: A multipleâ€“disease study. <i>Medical Physics</i> , 2021, 48, 7003-7015.	1.6	9
1220	Machine learning based liver disease diagnosis: A systematic review. <i>Neurocomputing</i> , 2022, 468, 492-509.	3.5	33

#	ARTICLE	IF	CITATIONS
1221	Artificial intelligence for solid tumour diagnosis in digital pathology. <i>British Journal of Pharmacology</i> , 2021, 178, 4291-4315.	2.7	14
1222	A rapid segmentation method of cell boundary for developing embryos using machine learning with a personal computer. <i>Development Growth and Differentiation</i> , 2021, 63, 406-416.	0.6	4
1223	A two-tier feature selection method using Coalition game and Nystrom sampling for screening COVID-19 from chest X-Ray images. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 2023, 14, 3659-3674.	3.3	4
1224	Sample Preparation and Diagnostic Methods for a Variety of Settings: A Comprehensive Review. <i>Molecules</i> , 2021, 26, 5666.	1.7	10
1225	Chemistry-centric explanation of machine learning models. <i>Artificial Intelligence in the Life Sciences</i> , 2021, 1, 100009.	1.6	3
1226	Recognition Rate Advancement and Data Error Improvement of Pathology Cutting with H-DenseUNet for Hepatocellular Carcinoma Image. <i>Diagnostics</i> , 2021, 11, 1599.	1.3	0
1227	Dice-XMBD: Deep Learning-Based Cell Segmentation for Imaging Mass Cytometry. <i>Frontiers in Genetics</i> , 2021, 12, 721229.	1.1	12
1228	Pneumonia detection in chest X-ray images using compound scaled deep learning model. <i>Automatika</i> , 2021, 62, 397-406.	1.2	12
1229	Quality evaluation of induced pluripotent stem cell colonies by fusing multi-source features. <i>Computer Methods and Programs in Biomedicine</i> , 2021, 208, 106235.	2.6	5
1230	3D deformable registration of longitudinal abdominopelvic CT images using unsupervised deep learning. <i>Computer Methods and Programs in Biomedicine</i> , 2021, 208, 106261.	2.6	9
1231	Image-based modeling of carbon storage in fractured organic-rich shale with deep learning acceleration. <i>Fuel</i> , 2021, 299, 120795.	3.4	15
1232	Semi-Supervised Few-Shot Class-Incremental Learning. , 2021, , .		3
1233	Estimating Dispersion Coefficient in Flow Through Heterogeneous Porous Media by a Deep Convolutional Neural Network. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL094443.	1.5	9
1234	An Automated In-Depth Feature Learning Algorithm for Breast Abnormality Prognosis and Robust Characterization from Mammography Images Using Deep Transfer Learning. <i>Biology</i> , 2021, 10, 859.	1.3	29
1235	A Histogram-Based Low-Complexity Approach for the Effective Detection of COVID-19 Disease from CT and X-ray Images. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 8867.	1.3	6
1236	Multi-criterion decision making-based multi-channel hierarchical fusion of digital breast tomosynthesis and digital mammography for breast mass discrimination. <i>Knowledge-Based Systems</i> , 2021, 228, 107303.	4.0	2
1237	AKFNET: An Anatomical Knowledge Embedded Few-Shot Network For Medical Image Segmentation. , 2021, , .		2
1238	Hyperspectral imaging and artificial intelligence to detect oral malignancy “ part 1 - automated tissue classification of oral muscle, fat and mucosa using a light-weight 6-layer deep neural network. <i>Head & Face Medicine</i> , 2021, 17, 38.	0.8	13

#	ARTICLE	IF	CITATIONS
1239	Automated Segmentation of Fetal Ultrasound Images Using Feature Attention Supervised Network. <i>Ultrasound Quarterly</i> , 2021, 37, 278-286.	0.3	1
1240	Automatic whole slide pathology image diagnosis framework via unit stochastic selection and attention fusion. <i>Neurocomputing</i> , 2021, 453, 312-325.	3.5	17
1241	Wide & Deep neural network model for patch aggregation in CNN-based prostate cancer detection systems. <i>Computers in Biology and Medicine</i> , 2021, 136, 104743.	3.9	9
1242	Modified GAN Augmentation Algorithms for the MRI-Classification of Myocardial Scar Tissue in Ischemic Cardiomyopathy. <i>Frontiers in Cardiovascular Medicine</i> , 2021, 8, 726943.	1.1	5
1243	Multiclass recognition of Alzheimer's and Parkinson's disease using various machine learning techniques: A study. <i>International Journal of Modeling, Simulation, and Scientific Computing</i> , 2022, 13, .	0.9	8
1244	An [18F]FDG-PET/CT deep learning method for fully automated detection of pathological mediastinal lymph nodes in lung cancer patients. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2022, 49, 881-888.	3.3	15
1245	A Fully Automated Analytic System for Measuring Endolymphatic Hydrops Ratios in Patients With Ménière Disease via Magnetic Resonance Imaging: Deep Learning Model Development Study. <i>Journal of Medical Internet Research</i> , 2021, 23, e29678.	2.1	7
1246	A classification system of day 3 human embryos using deep learning. <i>Biomedical Signal Processing and Control</i> , 2021, 70, 102943.	3.5	9
1248	Optic disc segmentation by U-net and probability bubble in abnormal fundus images. <i>Pattern Recognition</i> , 2021, 117, 107971.	5.1	20
1249	Rectal Cancer Treatment Management: Deep-Learning Neural Network Based on Photoacoustic Microscopy Image Outperforms Histogram-Feature-Based Classification. <i>Frontiers in Oncology</i> , 2021, 11, 715332.	1.3	2
1250	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
1251	Identification of Specific Substances in the FAIMS Spectra of Complex Mixtures Using Deep Learning. <i>Sensors</i> , 2021, 21, 6160.	2.1	4
1252	Deep learning for diagnosing osteonecrosis of the femoral head based on magnetic resonance imaging. <i>Computer Methods and Programs in Biomedicine</i> , 2021, 208, 106229.	2.6	18
1253	ECG quality assessment based on hand-crafted statistics and deep-learned S-transform spectrogram features. <i>Computer Methods and Programs in Biomedicine</i> , 2021, 208, 106269.	2.6	34
1254	Automatic fluid segmentation in retinal optical coherence tomography images using attention based deep learning. <i>Neurocomputing</i> , 2021, 452, 576-591.	3.5	38
1255	Deformable registration of lateral cephalogram and cone-beam computed tomography image. <i>Medical Physics</i> , 2021, 48, 6901-6915.	1.6	4
1256	Laryngoscope8: Laryngeal image dataset and classification of laryngeal disease based on attention mechanism. <i>Pattern Recognition Letters</i> , 2021, 150, 207-213.	2.6	7
1257	Ethics of AI in Pathology. <i>American Journal of Pathology</i> , 2021, 191, 1673-1683.	1.9	33

#	ARTICLE	IF	CITATIONS
1258	Explaining clinical decision support systems in medical imaging using cycle-consistent activation maximization. <i>Neurocomputing</i> , 2021, 458, 141-156.	3.5	10
1259	Virtual restoration of the colored paintings on weathered beams in the Forbidden City using multiple deep learning algorithms. <i>Advanced Engineering Informatics</i> , 2021, 50, 101421.	4.0	12
1260	Few-Shot Learning by a Cascaded Framework With Shape-Constrained Pseudo Label Assessment for Whole Heart Segmentation. <i>IEEE Transactions on Medical Imaging</i> , 2021, 40, 2629-2641.	5.4	30
1261	Annotation-Efficient Learning for Medical Image Segmentation Based on Noisy Pseudo Labels and Adversarial Learning. <i>IEEE Transactions on Medical Imaging</i> , 2021, 40, 2795-2807.	5.4	14
1262	ULLNet for the detection of coronavirus (COVID-19) from chest X-ray images. <i>Computers in Biology and Medicine</i> , 2021, 137, 104834.	3.9	13
1263	Learning Hierarchical Attention for Weakly-Supervised Chest X-Ray Abnormality Localization and Diagnosis. <i>IEEE Transactions on Medical Imaging</i> , 2021, 40, 2698-2710.	5.4	53
1264	Study on strategy of CT image sequence segmentation for liver and tumor based on U-Net and Bi-ConvLSTM. <i>Expert Systems With Applications</i> , 2021, 180, 115008.	4.4	15
1265	Intravascular imaging of coronary artery: Bridging the gap between clinical needs and technical advances. <i>Medical Engineering and Physics</i> , 2021, 96, 71-80.	0.8	2
1266	Machine learning models for decision support in epilepsy management: A critical review. <i>Epilepsy and Behavior</i> , 2021, 123, 108273.	0.9	14
1267	Bidirectional Mapping-Based Domain Adaptation for Nucleus Detection in Cross-Modality Microscopy Images. <i>IEEE Transactions on Medical Imaging</i> , 2021, 40, 2880-2896.	5.4	12
1268	A novel weight pruning strategy for light weight neural networks with application to the diagnosis of skin disease. <i>Applied Soft Computing Journal</i> , 2021, 111, 107707.	4.1	8
1269	Fast mesh data augmentation via Chebyshev polynomial of spectral filtering. <i>Neural Networks</i> , 2021, 143, 198-208.	3.3	8
1270	A preliminary analysis of AI based smartphone application for diagnosis of COVID-19 using chest X-ray images. <i>Expert Systems With Applications</i> , 2021, 183, 115401.	4.4	40
1271	Identification and counting of Pacific oyster <i>Crassostrea gigas</i> larvae by object detection using deep learning. <i>Aquacultural Engineering</i> , 2021, 95, 102197.	1.4	9
1272	Reducing magnetic resonance image spacing by learning without ground-truth. <i>Pattern Recognition</i> , 2021, 120, 108103.	5.1	4
1273	Coarse-to-fine pseudo supervision guided meta-task optimization for few-shot object classification. <i>Pattern Recognition</i> , 2022, 122, 108296.	5.1	7
1275	Unbox the black-box for the medical explainable AI via multi-modal and multi-centre data fusion: A mini-review, two showcases and beyond. <i>Information Fusion</i> , 2022, 77, 29-52.	11.7	280
1276	Weakly Supervised Segmentation of COVID19 Infection with Scribble Annotation on CT Images. <i>Pattern Recognition</i> , 2022, 122, 108341.	5.1	88

#	ARTICLE	IF	CITATIONS
1277	Automated Deep Learning of COVID-19 and Pneumonia Detection Using Google AutoML. Intelligent Automation and Soft Computing, 2022, 31, 1143-1156.	1.6	5
1278	Autonomous Smart Device for COVID-19 Detection Using Artificial Intelligence. Advances in Healthcare Information Systems and Administration Book Series, 2022, , 128-147.	0.2	0
1279	Dementia detection using the deep convolution neural network method. , 2021, , 157-181.		4
1281	A Novel Approach for Predicting Atrial Fibrillation Recurrence After Ablation Using Deep Convolutional Neural Networks by Assessing Left Atrial Curved M-Mode Speckle-Tracking Images. Frontiers in Cardiovascular Medicine, 2020, 7, 605642.	1.1	7
1283	Integration of pre-surgical blood test results predict microvascular invasion risk in hepatocellular carcinoma. Computational and Structural Biotechnology Journal, 2021, 19, 826-834.	1.9	12
1284	Noise Sensitivity-Based Energy Efficient and Robust Adversary Detection in Neural Networks. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2022, 41, 1423-1435.	1.9	5
1285	Lung-GANs: Unsupervised Representation Learning for Lung Disease Classification Using Chest CT and X-Ray Images. IEEE Transactions on Engineering Management, 2023, 70, 2774-2786.	2.4	22
1286	Applications of the ESPNet architecture in medical imaging. , 2021, , 117-131.		0
1287	VoxelHop: Successive Subspace Learning for ALS Disease Classification Using Structural MRI. IEEE Journal of Biomedical and Health Informatics, 2022, 26, 1128-1139.	3.9	10
1288	Spatial Attention-Based Deep Learning System for Breast Cancer Pathological Complete Response Prediction with Serial Histopathology Images in Multiple Stains. Lecture Notes in Computer Science, 2021, , 550-560.	1.0	3
1289	Semantic Consistent Unsupervised Domain Adaptation for Cross-Modality Medical Image Segmentation. Lecture Notes in Computer Science, 2021, , 201-210.	1.0	14
1290	VinDr-SpineXR: A Deep Learning Framework for Spinal Lesions Detection and Classification from Radiographs. Lecture Notes in Computer Science, 2021, , 291-301.	1.0	11
1291	Robust chest CT image segmentation of COVID-19 lung infection based on limited data. Informatics in Medicine Unlocked, 2021, 25, 100681.	1.9	60
1292	Deep Learning-Based Phenotypic Assessment of Red Cell Storage Lesions for Safe Transfusions. IEEE Journal of Biomedical and Health Informatics, 2022, 26, 1318-1328.	3.9	6
1293	FU-Net: fast biomedical image segmentation model based on bottleneck convolution layers. Multimedia Systems, 2021, 27, 637-650.	3.0	22
1294	Edge-Aware Pyramidal Deformable Network for Unsupervised Registration of Brain MR Images. Frontiers in Neuroscience, 2020, 14, 620235.	1.4	7
1295	Cross-Tissue/Organ Transfer Learning for the Segmentation of Ultrasound Images Using Deep Residual U-Net. Journal of Medical and Biological Engineering, 2021, 41, 137-145.	1.0	6
1296	Recent Advancements in Medical Imaging: A Machine Learning Approach. Studies in Big Data, 2021, , 189-212.	0.8	1

#	ARTICLE	IF	CITATIONS
1297	Predicting Age From Optical Coherence Tomography Scans With Deep Learning. <i>Translational Vision Science and Technology</i> , 2021, 10, 12.	1.1	13
1298	Accuracy of computer-aided image analysis in the diagnosis of odontogenic cysts: A systematic review. <i>Medicina Oral, Patologia Oral Y Cirugia Bucal</i> , 2021, 26, e368-e378.	0.7	5
1299	Learn Fine-Grained Adaptive Loss for Multiple Anatomical Landmark Detection in Medical Images. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2021, 25, 3854-3864.	3.9	12
1300	A Tour of Unsupervised Deep Learning for Medical Image Analysis. <i>Current Medical Imaging</i> , 2021, 17, 1059-1077.	0.4	48
1301	The Application of Using Convolutional Neural Network to Classify MRI Brain Tumor. , 2021, , .		0
1302	Confidence-Aware Cascaded Network for Fetal Brain Segmentation on MR Images. <i>Lecture Notes in Computer Science</i> , 2021, , 584-593.	1.0	1
1303	Unsupervised Representation Learning Meets Pseudo-Label Supervised Self-Distillation: A New Approach to Rare Disease Classification. <i>Lecture Notes in Computer Science</i> , 2021, , 519-529.	1.0	7
1304	Unsupervised Domain Adaption via Similarity-Based Prototypes for Cross-Modality Segmentation. <i>Lecture Notes in Computer Science</i> , 2021, , 133-143.	1.0	0
1305	Superpixel-Guided Iterative Learning from Noisy Labels for Medical Image Segmentation. <i>Lecture Notes in Computer Science</i> , 2021, , 525-535.	1.0	15
1306	Differentiating Dementia with Lewy Bodies and Alzheimer's Disease by Deep Learning to Structural MRI. <i>Journal of Neuroimaging</i> , 2021, 31, 579-587.	1.0	15
1307	A CUDA-powered method for the feature extraction and unsupervised analysis of medical images. <i>Journal of Supercomputing</i> , 2021, 77, 8514-8531.	2.4	6
1308	A Review on Deep Learning Techniques for the Diagnosis of Novel Coronavirus (COVID-19). <i>IEEE Access</i> , 2021, 9, 30551-30572.	2.6	206
1309	Automatic Inter-Frame Patient Motion Correction for Dynamic Cardiac PET Using Deep Learning. <i>IEEE Transactions on Medical Imaging</i> , 2021, 40, 3293-3304.	5.4	18
1310	Applying Machine Learning for Integration of Multi-Modal Genomics Data and Imaging Data to Quantify Heterogeneity in Tumour Tissues. <i>Methods in Molecular Biology</i> , 2021, 2190, 209-228.	0.4	9
1311	Semi-automated Extraction of Crohns Disease MR Imaging Markers Using a 3D Residual CNN with Distance Prior. <i>Lecture Notes in Computer Science</i> , 2018, 11045, 218-226.	1.0	6
1312	Combining Deep Learning and Active Contours Opens The Way to Robust, Automated Analysis of Brain Cytoarchitectonics. <i>Lecture Notes in Computer Science</i> , 2018, , 179-187.	1.0	4
1313	RBC Semantic Segmentation for Sickle Cell Disease Based on Deformable U-Net. <i>Lecture Notes in Computer Science</i> , 2018, , 695-702.	1.0	20
1314	Left Ventricle Segmentation and Quantification from Cardiac Cine MR Images via Multi-task Learning. <i>Lecture Notes in Computer Science</i> , 2019, , 21-31.	1.0	10

#	ARTICLE	IF	CITATIONS
1315	Cardiac MRI Left Ventricle Segmentation and Quantification: A Framework Combining U-Net and Continuous Max-Flow. Lecture Notes in Computer Science, 2019, , 450-458.	1.0	9
1316	Brain Haemorrhage Detection Through SVM Classification of Electrical Impedance Tomography Measurements. , 2019, , 211-244.		2
1317	Case Study: Deep Convolutional Networks in Healthcare. Studies in Computational Intelligence, 2020, , 61-89.	0.7	1
1318	Texture-Based Classification of Significant Stenosis in CCTA Multi-view Images of Coronary Arteries. Lecture Notes in Computer Science, 2019, , 732-740.	1.0	11
1319	Medical Image Segmentation Using Deep Learning. Intelligent Systems Reference Library, 2020, , 17-31.	1.0	14
1320	Quantifying Uncertainty of Deep Neural Networks in Skin Lesion Classification. Lecture Notes in Computer Science, 2019, , 52-61.	1.0	4
1321	A Hybrid Multi-atrous and Multi-scale Network for Liver Lesion Detection. Lecture Notes in Computer Science, 2019, , 364-372.	1.0	5
1322	BOLD fMRI-Based Brain Perfusion Prediction Using Deep Dilated Wide Activation Networks. Lecture Notes in Computer Science, 2019, , 373-381.	1.0	2
1323	U-Net Fixed-Point Quantization for Medical Image Segmentation. Lecture Notes in Computer Science, 2019, , 115-124.	1.0	12
1324	Deep Learning and the Future of Biomedical Image Analysis. Studies in Big Data, 2020, , 329-345.	0.8	11
1325	Effect of Data Augmentation and Lung Mask Segmentation for Automated Chest Radiograph Interpretation of Some Lung Diseases. Communications in Computer and Information Science, 2019, , 333-340.	0.4	9
1326	Deep-Learning for Tidemark Segmentation in Human Osteochondral Tissues Imaged with Micro-computed Tomography. Lecture Notes in Computer Science, 2020, , 131-138.	1.0	4
1327	Learning and Exploiting Interclass Visual Correlations for Medical Image Classification. Lecture Notes in Computer Science, 2020, , 106-115.	1.0	3
1328	Realistic Adversarial Data Augmentation for MR Image Segmentation. Lecture Notes in Computer Science, 2020, , 667-677.	1.0	32
1329	Robust Medical Image Segmentation from Non-expert Annotations with Tri-network. Lecture Notes in Computer Science, 2020, , 249-258.	1.0	14
1330	Unsupervised Learning for CT Image Segmentation via Adversarial Redrawing. Lecture Notes in Computer Science, 2020, , 309-320.	1.0	5
1331	An Elastic Interaction-Based Loss Function for Medical Image Segmentation. Lecture Notes in Computer Science, 2020, , 755-764.	1.0	10
1332	First U-Net Layers Contain More Domain Specific Information Than the Last Ones. Lecture Notes in Computer Science, 2020, , 117-126.	1.0	15

#	ARTICLE	IF	CITATIONS
1333	Automatic Liver Lesion Segmentation in CT Combining Fully Convolutional Networks and Non-negative Matrix Factorization. Lecture Notes in Computer Science, 2017, , 44-51.	1.0	3
1334	Non-rigid Craniofacial 2D-3D Registration Using CNN-Based Regression. Lecture Notes in Computer Science, 2017, , 117-125.	1.0	18
1336	Deep Learning Features for Lung Adenocarcinoma Classification with Tissue Pathology Images. Lecture Notes in Computer Science, 2017, , 742-751.	1.0	3
1337	Multimodal 3D Convolutional Neural Networks for Classification of Brain Disease Using Structural MR and FDG-PET Images. Communications in Computer and Information Science, 2019, , 658-668.	0.4	3
1338	A Review on Using Dental Images as a Screening Tool for Osteoporosis. Algorithms for Intelligent Systems, 2020, , 215-225.	0.5	1
1339	GAN-Based Novel Approach for Data Augmentation with Improved Disease Classification. Algorithms for Intelligent Systems, 2020, , 229-239.	0.5	13
1340	CT window trainable neural network for improving intracranial hemorrhage detection by combining multiple settings. Artificial Intelligence in Medicine, 2020, 106, 101850.	3.8	28
1341	Hybrid attention for automatic segmentation of whole fetal head in prenatal ultrasound volumes. Computer Methods and Programs in Biomedicine, 2020, 194, 105519.	2.6	12
1342	Automatic detection of tuberculosis related abnormalities in Chest X-ray images using hierarchical feature extraction scheme. Expert Systems With Applications, 2020, 158, 113514.	4.4	58
1343	Generating electrocardiogram signals by deep learning. Neurocomputing, 2020, 404, 122-136.	3.5	38
1344	Digital Rock Segmentation for Petrophysical Analysis With Reduced User Bias Using Convolutional Neural Networks. Water Resources Research, 2020, 56, e2019WR026597.	1.7	55
1345	Multi-Channel 3D Deep Feature Learning for Survival Time Prediction of Brain Tumor Patients Using Multi-Modal Neuroimages. Scientific Reports, 2019, 9, 1103.	1.6	133
1346	Quantification of Retinal Nerve Fibre Layer Thickness on Optical Coherence Tomography with a Deep Learning Segmentation-Free Approach. Scientific Reports, 2020, 10, 402.	1.6	33
1347	Classifying functional nuclear images with convolutional neural networks: a survey. IET Image Processing, 2020, 14, 3300-3313.	1.4	13
1348	Machine learning shadowgraph for particle size and shape characterization. Measurement Science and Technology, 2021, 32, 015406.	1.4	23
1349	Automated segmentation of the left ventricle from MR cine imaging based on deep learning architecture. Biomedical Physics and Engineering Express, 2020, 6, 025009.	0.6	5
1350	Introduction to radiomics and radiogenomics in neuro-oncology: implications and challenges. Neuro-Oncology Advances, 2020, 2, iv3-iv14.	0.4	20
1373	Respiratory Sound Classification Based on BiGRU-Attention Network with XGBoost. , 2020, , .		11

#	ARTICLE	IF	CITATIONS
1374	A Review on Medical Image Analysis with Convolutional Neural Networks. , 2020, , .		4
1375	Unsupervised Positron Emission Tomography Tumor Segmentation via GAN based Adversarial Auto-Encoder. , 2020, , .		5
1376	Prediction of Glioma Grade using Intratumoral and Peritumoral Radiomic Features from Multiparametric MRI Images. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2020, PP, 1-1.	1.9	20
1377	HIFUNet: Multi-Class Segmentation of Uterine Regions From MR Images Using Global Convolutional Networks for HIFU Surgery Planning. IEEE Transactions on Medical Imaging, 2020, 39, 3309-3320.	5.4	19
1378	End-to-end deep learning framework for digital holographic reconstruction. Advanced Photonics, 2019, 1, 1.	6.2	135
1379	Rapid tissue oxygenation mapping from snapshot structured-light images with adversarial deep learning. Journal of Biomedical Optics, 2020, 25, .	1.4	14
1380	Learning to segment key clinical anatomical structures in fetal neurosonography informed by a region-based descriptor. Journal of Medical Imaging, 2018, 5, 1.	0.8	7
1381	Evaluation of deep learning methods for parotid gland segmentation from CT images. Journal of Medical Imaging, 2018, 6, 1.	0.8	26
1382	Prostate zonal segmentation in 1.5T and 3T T2W MRI using a convolutional neural network. Journal of Medical Imaging, 2019, 6, 1.	0.8	13
1383	Automatic skin lesion segmentation by coupling deep fully convolutional networks and shallow network with textons. Journal of Medical Imaging, 2019, 6, 1.	0.8	38
1384	Using deep learning for a diffusion-based segmentation of the dentate nucleus and its benefits over atlas-based methods. Journal of Medical Imaging, 2019, 6, 1.	0.8	4
1385	Reconstruction of initial pressure from limited view photoacoustic images using deep learning. , 2018, , .		21
1386	Cine cardiac MRI slice misalignment correction towards full 3D left ventricle segmentation. , 2018, 10576, .		9
1387	Development of a dual-modality, dual-view smartphone-based imaging system for oral cancer detection. , 2018, , .		7
1388	Deep learning in computer-aided diagnosis incorporating mammographic characteristics of both tumor and parenchyma stroma. , 2018, , .		1
1389	Using multi-task learning to improve diagnostic performance of convolutional neural networks. , 2019, , .		3
1390	Automatic dental root CBCT image segmentation based on CNN and level set method. , 2019, , .		8
1391	PHT-bot: a deep learning based system for automatic risk stratification of COPD patients based upon signs of pulmonary hypertension. , 2019, , .		3

#	ARTICLE	IF	CITATIONS
1392	DDeep3M-based neuronal cell counting in 2D large-scale images. , 2019, , .		1
1393	Classification of brain lesions from MRI images using a novel neural network. , 2020, , .		2
1394	Automatic detection and counting of retina cell nuclei using deep learning. , 2020, , .		7
1395	Machine Learning Techniques for the Diagnosis of Alzheimerâ€™s Disease. ACM Transactions on Multimedia Computing, Communications and Applications, 2020, 16, 1-35.	3.0	128
1396	Research on Recognition Method of Zanthoxylum Armatum Rust Based on Deep Learning. , 2019, , .		2
1397	3D-ReG. ACM Journal on Emerging Technologies in Computing Systems, 2020, 16, 1-24.	1.8	14
1398	Deep Learning to Classify Radiology Free-Text Reports. Radiology, 2018, 286, 845-852.	3.6	154
1399	Fully Automated and Standardized Segmentation of Adipose Tissue Compartments via Deep Learning in 3D Whole-Body MRI of Epidemiologic Cohort Studies. Radiology: Artificial Intelligence, 2020, 2, e200010.	3.0	30
1400	A Review of Computer-Aided Heart Sound Detection Techniques. BioMed Research International, 2020, 2020, 1-10.	0.9	42
1401	DeeplyEssential: a deep neural network for predicting essential genes in microbes. BMC Bioinformatics, 2020, 21, 367.	1.2	17
1402	Deep learning detection of informative features in tau PET for Alzheimerâ€™s disease classification. BMC Bioinformatics, 2020, 21, 496.	1.2	37
1403	Opening the black box of machine learning in radiology: can the proximity of annotated cases be a way?. European Radiology Experimental, 2020, 4, 30.	1.7	28
1404	Artificial intelligence and hybrid imaging: the best match for personalized medicine in oncology. European Journal of Hybrid Imaging, 2020, 4, 24.	0.6	27
1406	Label-free optical imaging in developmental biology [Invited]. Biomedical Optics Express, 2020, 11, 2017.	1.5	29
1407	Deep learning in single-molecule microscopy: fundamentals, caveats, and recent developments [Invited]. Biomedical Optics Express, 2020, 11, 1633.	1.5	65
1408	Analyzing inter-reader variability affecting deep ensemble learning for COVID-19 detection in chest radiographs. PLoS ONE, 2020, 15, e0242301.	1.1	39
1409	Segmentation of the distal femur in ultrasound images. Current Directions in Biomedical Engineering, 2020, 6, .	0.2	5
1410	Predictive and generative machine learning models for photonic crystals. Nanophotonics, 2020, 9, 4183-4192.	2.9	58

#	ARTICLE	IF	CITATIONS
1411	New Roles for Clinicians in the Age of Artificial Intelligence. <i>BIO Integration</i> , 2020, 1, .	0.9	6
1412	Diagnosing Heart Failure from Chest X-Ray Images Using Deep Learning. <i>International Heart Journal</i> , 2020, 61, 781-786.	0.5	26
1413	Discrimination of pores and cracks in iron ore pellets using deep learning neural networks. <i>REM: International Engineering Journal</i> , 2020, 73, 197-203.	0.2	11
1414	Prediction of chronological and biological age from laboratory data. <i>Aging</i> , 2020, 12, 7626-7638.	1.4	16
1415	Different Medical Image Registration Techniques: A Comparative Analysis. <i>Current Medical Imaging</i> , 2019, 15, 911-921.	0.4	56
1416	Breast Infrared Thermography Segmentation Based on Adaptive Tuning of a Fully Convolutional Network. <i>Current Medical Imaging</i> , 2020, 16, 611-621.	0.4	9
1417	Multi-level 3D Densenets for False-positive Reduction in Lung Nodule Detection Based on Chest Computed Tomography. <i>Current Medical Imaging</i> , 2020, 16, 1004-1021.	0.4	6
1418	Deep Learning Intervention for Health Care Challenges: Some Biomedical Domain Considerations. <i>JMIR MHealth and UHealth</i> , 2019, 7, e11966.	1.8	110
1419	Age Assessment of Youth and Young Adults Using Magnetic Resonance Imaging of the Knee: A Deep Learning Approach. <i>JMIR Medical Informatics</i> , 2019, 7, e16291.	1.3	28
1421	How much deep learning is enough for automatic identification to be reliable?. <i>Angle Orthodontist</i> , 2020, 90, 823-830.	1.1	34
1422	Nuclear medicine radiomics in precision medicine: why we can't do without artificial intelligence. <i>Quarterly Journal of Nuclear Medicine and Molecular Imaging</i> , 2020, 64, 278-290.	0.4	9
1423	Detection of Fraud Transactions Using Recurrent Neural Network during COVID-19. <i>Journal of Advanced Research in Medical Science & Technology</i> , 2020, 07, 16-21.	0.6	8
1424	Applying 3D U-Net Architecture to the Task of Multi-Organ Segmentation in Computed Tomography. <i>Applied Computer Science</i> , 2020, 25, 43-50.	0.3	14
1425	Radiomic Machine Learning and Texture Analysis - New Horizons for Head and Neck Oncology. <i>MĂĭ dica</i> , 2019, 14, 126-130.	0.4	8
1426	Improved Glioma Grading Using Deep Convolutional Neural Networks. <i>American Journal of Neuroradiology</i> , 2021, 42, 233-239.	1.2	29
1427	Grading Method for Hypoxic-Ischemic Encephalopathy Based on Neonatal EEG. <i>CMES - Computer Modeling in Engineering and Sciences</i> , 2020, 122, 721-741.	0.8	5
1428	Automatic multi-class intertrochanteric femur fracture detection from CT images based on AO/OTA classification using faster R-CNN-BO method. <i>Journal of Applied Biomedicine</i> , 2020, 18, 97-105.	0.6	9
1429	Prognostic Value of Transfer Learning Based Features in Resectable Pancreatic Ductal Adenocarcinoma. <i>Frontiers in Artificial Intelligence</i> , 2020, 3, 550890.	2.0	9

#	ARTICLE	IF	CITATIONS
1430	Convolutional Neural Networks with Transfer Learning for Recognition of COVID-19: A Comparative Study of Different Approaches. <i>AI</i> , 2020, 1, 586-606.	2.1	20
1431	Attention-Based Residual Network with Scattering Transform Features for Hyperspectral Unmixing with Limited Training Samples. <i>Remote Sensing</i> , 2020, 12, 400.	1.8	14
1432	Artificial intelligence in gastric cancer: Application and future perspectives. <i>World Journal of Gastroenterology</i> , 2020, 26, 5408-5419.	1.4	72
1433	Application of machine learning in rheumatic disease research. <i>Korean Journal of Internal Medicine</i> , 2019, 34, 708-722.	0.7	48
1434	Convolutional neural networks for computer-aided detection or diagnosis in medical image analysis: An overview. <i>Mathematical Biosciences and Engineering</i> , 2019, 16, 6536-6561.	1.0	109
1436	Role of artificial intelligence in diagnostic oral pathology-A modern approach. <i>Journal of Oral and Maxillofacial Pathology</i> , 2020, 24, 152.	0.3	26
1437	Artificial Intelligence and Digital Pathology: Challenges and Opportunities. <i>Journal of Pathology Informatics</i> , 2018, 9, 38.	0.8	309
1438	Prognostic analysis of histopathological images using pre-trained convolutional neural networks: application to hepatocellular carcinoma. <i>PeerJ</i> , 2020, 8, e8668.	0.9	23
1439	Convolutional neural networks to automate the screening of malaria in low-resource countries. <i>PeerJ</i> , 2020, 8, e9674.	0.9	18
1440	Improving the Standard for Deep Brain Stimulation Therapy: Target Structures and Feedback Signals for Adaptive Stimulation. <i>Current Perspectives and Future Directions</i> . <i>Cureus</i> , 2018, 10, e2468.	0.2	6
1441	3D Graph-Connectivity Constrained Network for Hepatic Vessel Segmentation. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2022, 26, 1251-1262.	3.9	8
1442	Semi-Supervised Segmentation of Radiation-Induced Pulmonary Fibrosis From Lung CT Scans With Multi-Scale Guided Dense Attention. <i>IEEE Transactions on Medical Imaging</i> , 2022, 41, 531-542.	5.4	35
1443	Overview of Artificial Intelligence Systems in Ophthalmology. , 2021, , 31-53.		0
1444	Machine Learning Techniques for Biomedical Natural Language Processing: A Comprehensive Review. <i>IEEE Access</i> , 2021, 9, 140628-140653.	2.6	36
1445	Deep transfer learning for cerebral cortex using area-preserving geometry mapping. <i>Cerebral Cortex</i> , 2022, 32, 2972-2984.	1.6	7
1446	Tufts Dental Database: A Multimodal Panoramic X-Ray Dataset for Benchmarking Diagnostic Systems. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2022, 26, 1650-1659.	3.9	39
1447	Domain Adaptation for Medical Image Analysis: A Survey. <i>IEEE Transactions on Biomedical Engineering</i> , 2022, 69, 1173-1185.	2.5	218
1448	A Hybrid Method for Training Convolutional Neural Networks. <i>Lecture Notes in Networks and Systems</i> , 2021, , 298-308.	0.5	0

#	ARTICLE	IF	CITATIONS
1449	Modulation Signal Denoising Based on Auto-encoder. , 2021, , .		0
1450	A CNN Based Method for Detecting Covid-19 from CT Images. Bilgisayar Bilimleri, 0, , .	0.0	2
1451	Evaluation of the benchmark datasets for testing the efficacy of deep convolutional neural networks. Visual Informatics, 2021, 5, 92-101.	2.5	12
1452	Application of artificial intelligence systems in neuroradiology of acute ischemic stroke. Diagnostic Radiology and Radiotherapy, 2021, 12, 30-35.	0.0	0
1453	Automating classification of osteoarthritis according to Kellgren-Lawrence in the knee using deep learning in an unfiltered adult population. BMC Musculoskeletal Disorders, 2021, 22, 844.	0.8	26
1454	A transfer learning framework based on motor imagery rehabilitation for stroke. Scientific Reports, 2021, 11, 19783.	1.6	21
1455	A combination of feature extraction methods and deep learning for brain tumour classification. IET Image Processing, 2022, 16, 416-441.	1.4	12
1456	Prediction of dMRI Signals with Neural Architecture Search. Journal of Neuroscience Methods, 2021, 365, 109389.	1.3	0
1457	Curriculum learning for improved femur fracture classification: Scheduling data with prior knowledge and uncertainty. Medical Image Analysis, 2022, 75, 102273.	7.0	12
1458	MesoNet allows automated scaling and segmentation of mouse mesoscale cortical maps using machine learning. Nature Communications, 2021, 12, 5992.	5.8	26
1459	Artificial intelligence for the early detection of colorectal cancer: A comprehensive review of its advantages and misconceptions. World Journal of Gastroenterology, 2021, 27, 6399-6414.	1.4	14
1460	Analysis of mammograms using artificial intelligence to predict response to neoadjuvant chemotherapy in breast cancer patients: proof of concept. European Radiology, 2022, 32, 3131-3141.	2.3	10
1461	On the Necessity of a Customized Knee Spacer in Peri-Prosthetic Joint Infection Treatment: 3D Numerical Simulation Results. Journal of Personalized Medicine, 2021, 11, 1039.	1.1	5
1462	Annotation-efficient deep learning for automatic medical image segmentation. Nature Communications, 2021, 12, 5915.	5.8	59
1463	Research and Implementation of the Text Matching Algorithm in the Field of Housing Law and Policy Based on Deep Learning. Complexity, 2021, 2021, 1-9.	0.9	2
1464	Training Strategies for Radiology Deep Learning Models in Data-limited Scenarios. Radiology: Artificial Intelligence, 2021, 3, e210014.	3.0	35
1465	Prediction of Neoadjuvant Chemotherapy Response in Osteosarcoma Using Convolutional Neural Network of Tumor Center 18F-FDG PET Images. Diagnostics, 2021, 11, 1976.	1.3	8
1466	A Comparative Analysis of Pneumonia Detection Using Various Models of Transfer Learning. Smart Innovation, Systems and Technologies, 2022, , 143-155.	0.5	0

#	ARTICLE	IF	CITATIONS
1467	Dynamic Learning Rate in Deep CNN Model for Metastasis Detection and Classification of Histopathology Images. Computational and Mathematical Methods in Medicine, 2021, 2021, 1-13.	0.7	5
1468	Effective integration of object boundaries and regions for improving the performance of medical image segmentation by using two cascaded networks. Computer Methods and Programs in Biomedicine, 2021, 212, 106423.	2.6	6
1469	Intelligent knowledge consolidation: From data to wisdom. Knowledge-Based Systems, 2021, 234, 107578.	4.0	7
1470	Real-Time Noise Classification of Medical Image via Online Machine Learning Algorithm. Advances in Image and Video Processing, 2017, 5, .	0.1	0
1471	Geometric and Topological Modelling of Organs and Vascular Structures from CT Data. , 2018, , 217-247.		0
1472	SoLiD: Segmentation of Clostridioides Difficile Cells in the Presence of Inhomogeneous Illumination Using a Deep Adversarial Network. Lecture Notes in Computer Science, 2018, , 285-293.	1.0	1
1473	Deep Learning and Biomedical Engineering. Advances in Bioinformatics and Biomedical Engineering Book Series, 2018, , 283-296.	0.2	0
1474	A Deep Clustering Algorithm Based on Self-organizing Map Neural Network. Lecture Notes in Computer Science, 2018, , 182-192.	1.0	0
1475	TuMore: generation of synthetic brain tumor MRI data for deep learning based segmentation approaches. , 2018, , .		1
1476	Stacked Autoencoder for Segmentation of Bone Marrow Histological Images. Advances in Intelligent Systems and Computing, 2019, , 425-435.	0.5	2
1480	Slide Screening of Metastases in Lymph Nodes via Conditional, Fully Convolutional Segmentation. Lecture Notes in Computer Science, 2019, , 220-227.	1.0	0
1481	Histopathological Image Analysis on Mouse Testes for Automated Staging of Mouse Seminiferous Tubule. Lecture Notes in Computer Science, 2019, , 117-124.	1.0	4
1482	RISEC: Rotational Invariant Segmentation of Elongated Cells in SEM Images with Inhomogeneous Illumination. Lecture Notes in Computer Science, 2019, , 553-563.	1.0	0
1483	Dynamic Routing Capsule Networks for Mild Cognitive Impairment Diagnosis. Lecture Notes in Computer Science, 2019, 2019, 620-628.	1.0	7
1485	CNS: CycleGAN-Assisted Neonatal Segmentation Model for Cross-Datasets. Lecture Notes in Computer Science, 2019, , 172-179.	1.0	0
1486	Teeth and Landmarks Detection and Classification Based on Deep Neural Networks. Advances in Medical Technologies and Clinical Practice Book Series, 2019, , 129-150.	0.3	3
1487	Deep Learning and Biomedical Engineering. , 2019, , 562-575.		0
1488	A Combined Deep Learning-Gradient Boosting Machine Framework for Fluid Intelligence Prediction. Lecture Notes in Computer Science, 2019, , 1-8.	1.0	1

#	ARTICLE	IF	CITATIONS
1489	Visual Analytics for Classifier Construction and Evaluation for Medical Data. , 2019, , 267-287.		0
1491	Diabetic Retinopathy Recognition Using an Enhanced Semi-Supervised Generative Adversarial Networks. Journal of Image and Signal Processing, 2019, 08, 1-8.	0.1	1
1492	Effective Representation of Three-Dimension Nodules for False-Positive Reduction in Pulmonary Nodule Detection. , 2019, , .		1
1493	Cross Modality Microscopy Segmentation via Adversarial Adaptation. Lecture Notes in Computer Science, 2019, 11466, 469-478.	1.0	5
1494	Comparison of Local and Non-local Deep Feature on Malignancy Characterization of Hepatocellular Carcinoma. , 2019, , .		0
1496	Spatial and depth weighted neural network for diagnosis of Alzheimer's disease. , 2019, , .		1
1497	Body part and imaging modality classification for a general radiology cognitive assistant. , 2019, , .		0
1498	Deep learning image reconstruction method for limited-angle ultrasound tomography in prostate cancer. , 2019, , .		9
1500	Deep Learning Performance on Medical Image, Data and Signals. Sakarya University Journal of Computer and Information Sciences, 2019, 2, 28-40.	0.6	1
1504	Automatic Segmentation of Liver CT Image Based on Dense Pyramid Network. Lecture Notes in Computer Science, 2020, , 10-16.	1.0	1
1505	Feature Learning to Automatically Assess Radiographic Knee Osteoarthritis Severity. Intelligent Systems Reference Library, 2020, , 9-93.	1.0	2
1506	Deep Learning Models with Applications to Brain Image Analysis. , 2020, , 433-462.		1
1507	Operations-Intelligence-Strategy (OIS) Process in Healthcare. Advances in Healthcare Information Systems and Administration Book Series, 2020, , 88-105.	0.2	0
1511	Artificial Intelligence Based Medical Imaging: An Overview. Bangsaseon Gisul Gwahak, 2020, 43, 195-208.	0.1	6
1512	Does fixing bug increase robustness in deep learning?. , 2020, , .		2
1513	Few Shot Learning for Medical Imaging. Studies in Computational Intelligence, 2021, , 107-132.	0.7	11
1515	Improving Quantitative Magnetic Resonance Imaging Using Deep Learning. Seminars in Musculoskeletal Radiology, 2020, 24, 451-459.	0.4	5
1517	Review Research of Medical Image Analysis Using Deep Learning. UHD Journal of Science and Technology, 2020, 4, 75-90.	0.3	2

#	ARTICLE	IF	CITATIONS
1518	Transfer Learning with Convolutional Neural Network for Gastrointestinal Diseases Detection using Endoscopic Images. , 2020, , .		7
1519	Denosing for Intracranial Hemorrhage Images Using Autoencoder Based on CNN. , 2021, , .		0
1520	Full-Stack Application of Skin Cancer Diagnosis Based on CNN Model. , 2021, , .		4
1521	QQâ€œNET â€œ“ using deep learning to solve quantitative susceptibility mapping and quantitative blood oxygen level dependent magnitude (QSM+qBOLD or QQ) based oxygen extraction fraction (OEF) mapping. Magnetic Resonance in Medicine, 2022, 87, 1583-1594.	1.9	11
1522	Coastal Waste Detection Based on Deep Convolutional Neural Networks. Sensors, 2021, 21, 7269.	2.1	8
1523	Role of Deep Learning in Predicting Aging-Related Diseases: A Scoping Review. Cells, 2021, 10, 2924.	1.8	3
1524	Thoracoscopic surgical ablation versus catheter ablation as first-line treatment for long-standing persistent atrial fibrillation: the CASA-AF RCT. Efficacy and Mechanism Evaluation, 2021, 8, 1-122.	0.9	2
1525	Prediction of Shield Machine Attitude Based on Various Artificial Intelligence Technologies. Applied Sciences (Switzerland), 2021, 11, 10264.	1.3	25
1526	Prediction of Alzheimerâ€™s Disease Progression Based on Magnetic Resonance Imaging. ACS Chemical Neuroscience, 2021, 12, 4209-4223.	1.7	17
1527	Smart Care Using a DNN-Based Approach for Activities of Daily Living (ADL) Recognition. Applied Sciences (Switzerland), 2021, 11, 10.	1.3	11
1528	Artificial Intelligence Augmentation in Blood Transfusion, Biochemistry, and Hematology of Digital Pathology: A Comparative Performance Evaluation on Pathology Labs and Corporate Hospitals located in Bengaluru. SSRG International Journal of Engineering Trends and Technology, 2020, 68, 132-139.	0.3	0
1529	Lung Sound Classification Using Deep Neural Networks with Pre-training. IEEJ Transactions on Electronics, Information and Systems, 2020, 140, 1402-1409.	0.1	2
1530	Role of Artificial Intelligence in fighting against COVID -19. , 2020, , .		20
1531	Breast Cancer Prediction Using Stacked GRU-LSTM-BRNN. Applied Computer Science, 2020, 25, 163-171.	0.3	6
1532	Local Adaptive U-net for Medical Image Segmentation. , 2020, , .		11
1533	Alzheimer Disease Early Detection Using Convolutional Neural Networks. , 2020, , .		10
1535	Cascaded deep transfer learning on thoracic CT in COVID-19 patients treated with steroids. Journal of Medical Imaging, 2020, 8, 014501.	0.8	6
1536	Optimised CNN in conjunction with efficient pooling strategy for the multiâ€œclassification of breast cancer. IET Image Processing, 2021, 15, 936-946.	1.4	18

#	ARTICLE	IF	CITATIONS
1537	Application and Perspectives of Convolutional Neural Networks in Digital Intelligence. Advances in Intelligent Systems and Computing, 2021, , 33-58.	0.5	0
1538	Investigation of Lung Cancer detection Using 3D Convolutional Deep Neural Network. , 2020, , .		4
1540	Efficient Morphological Segmentation of Brain Hemorrhage Stroke Lesion Through MultiResUNet. Computers, Materials and Continua, 2022, 70, 5233-5249.	1.5	0
1541	Multi-label, multi-domain learning identifies compounding effects of HIV and cognitive impairment. Medical Image Analysis, 2022, 75, 102246.	7.0	5
1542	EEG-Based Neonatal Sleep Stage Classification Using Ensemble Learning. Computers, Materials and Continua, 2022, 70, 4619-4633.	1.5	14
1543	MRI Image Segmentation of Nasopharyngeal Carcinoma Using Multi-Scale Cascaded Fully Convolutional Network. Intelligent Automation and Soft Computing, 2022, 31, 1771-1782.	1.6	3
1544	An Anatomically-Informed 3D CNN for Brain Aneurysm Classification with Weak Labels. Lecture Notes in Computer Science, 2020, , 56-66.	1.0	1
1545	\$\$alpha\$\$-UNet++: A Data-Driven Neural Network Architecture for Medical Image Segmentation. Lecture Notes in Computer Science, 2020, , 3-12.	1.0	0
1546	Stepwise Transfer of Domain Knowledge for Computer-Aided Diagnosis in Pathology Using Deep Neural Networks. Communications in Computer and Information Science, 2020, , 105-119.	0.4	1
1547	Deep Reinforcement Active Learning for Medical Image Classification. Lecture Notes in Computer Science, 2020, , 33-42.	1.0	9
1549	Disease Diagnosis and Treatment Using Deep Learning Algorithms for the Healthcare System. Advances in Medical Technologies and Clinical Practice Book Series, 2020, , 99-114.	0.3	6
1550	An Effective Diagnostic Model for Personalized Healthcare Using Deep Learning Techniques. Advances in Medical Technologies and Clinical Practice Book Series, 2020, , 70-88.	0.3	9
1551	Self-taught Learning: Image Classification Using Stacked Autoencoders. Advances in Intelligent Systems and Computing, 2020, , 1-14.	0.5	0
1552	Autofocus Net: Auto-focused 3D CNN for Brain Tumour Segmentation. Communications in Computer and Information Science, 2020, , 43-55.	0.4	1
1553	Generative Adversarial Network-Based Semi-supervised Learning for Pathological Speech Classification. Lecture Notes in Computer Science, 2020, , 169-181.	1.0	0
1554	Radiological Perspective of the Novel Coronavirus Disease 2019 (COVID-19). Medical Virology, 2020, , 37-49.	2.1	0
1555	Deep Learning Techniques for Biomedical Image Analysis in Healthcare. Advances in Bioinformatics and Biomedical Engineering Book Series, 2020, , 31-46.	0.2	1
1556	Deep Learning for Image Processing and Reconstruction to Enhance LED-Based Photoacoustic Imaging. Progress in Optical Science and Photonics, 2020, , 203-241.	0.3	2

#	ARTICLE	IF	CITATIONS
1557	Amplification Method of Lung Nodule Data Based on DCGAN Generation Algorithm. Communications in Computer and Information Science, 2020, , 563-576.	0.4	1
1558	Imaging-Based Prediction Models. Medical Radiology, 2020, , 361-377.	0.0	0
1559	Protein Secondary Structure Prediction Using CNN and Random Forest. Communications in Computer and Information Science, 2020, , 267-277.	0.4	1
1560	Deep Learning in Computational Neuroscience. Advances in Computer and Electrical Engineering Book Series, 2020, , 43-63.	0.2	5
1561	Prediction of Thorax Diseases Using Deep and Transfer Learning. , 2020, , .		1
1562	An Open Medical Platform to Share Source Code and Various Pre-Trained Weights for Models to Use in Deep Learning Research. Korean Journal of Radiology, 2021, 22, 2073.	1.5	5
1563	DeepRayburst for Automatic Shape Analysis of Tree-Like Structures in Biomedical Images. IEEE Journal of Biomedical and Health Informatics, 2022, 26, 2204-2215.	3.9	2
1564	A Peek Into the Reasoning of Neural Networks: Interpreting with Structural Visual Concepts. , 2021, , .		20
1565	Incorporating minimal user input into deep learning based image segmentation. , 2020, 11313, .		3
1567	Performance Analysis of Machine Learning Algorithms for Prediction of Liver Disease. , 2021, , .		21
1568	Deep learning-based fully automated Z-axis coverage range definition from scout scans to eliminate overscanning in chest CT imaging. Insights Into Imaging, 2021, 12, 162.	1.6	31
1569	A novel data augmentation based on Gabor filter and convolutional deep learning for improving the classification of COVID-19 chest X-Ray images. Biomedical Signal Processing and Control, 2022, 72, 103326.	3.5	60
1570	Magnetic resonance-based eye tracking using deep neural networks. Nature Neuroscience, 2021, 24, 1772-1779.	7.1	21
1571	Uncertainty-guided graph attention network for parapneumonic effusion diagnosis. Medical Image Analysis, 2022, 75, 102217.	7.0	13
1572	Lungâ€CRNet: A convolutional recurrent neural network for lung 4DCT image registration. Medical Physics, 2021, 48, 7900-7912.	1.6	11
1573	Development of Convolutional Neural Networkbased models for bone metastasis classification in nuclear medicine. , 2020, , .		1
1576	High-content 2D light scattering flow cytometry for label-free classification of cervical carcinoma cells with deep learning. , 2020, , .		0
1577	Boosting Traditional Healthcare-Analytics with Deep Learning AI: Techniques, Frameworks and Challenges. Studies in Computational Intelligence, 2021, , 335-365.	0.7	3

#	ARTICLE	IF	CITATIONS
1578	MRI Morphometry in Brain Tumors: Challenges and Opportunities in Expert, Radiomic, and Deep-Learning-Based Analyses. <i>Neuroinformatics</i> , 2021, , 323-368.	0.2	3
1580	Machine learning for a rapid discrimination of ginseng cultivation age using ¹ H-NMR spectra. <i>Applied Biological Chemistry</i> , 2020, 63, .	0.7	1
1581	Convolutional neural network-based automatic detection of follicle cells in ovarian tissue using optical coherence tomography. <i>Biomedical Physics and Engineering Express</i> , 2020, 6, 065026.	0.6	3
1583	A Tool for Automatic Estimation of Patient Position in Spinal CT Data. <i>IFMBE Proceedings</i> , 2021, , 51-56.	0.2	0
1584	Localization and Classification of Intracranial Hemorrhages in CT Data. <i>IFMBE Proceedings</i> , 2021, , 767-773.	0.2	1
1585	Left Ventricle Segmentation and Quantification from Cardiac Cine MR Images via Multi-task Learning. , 2019, 11395, 21-31.		5
1586	Automatic multi-organ segmentation in computed tomography images using hierarchical convolutional neural network. <i>Journal of Medical Imaging</i> , 2020, 7, 055001.	0.8	2
1587	DeepLN: an artificial intelligence-based automated system for lung cancer screening. <i>Annals of Translational Medicine</i> , 2020, 8, 1126.	0.7	2
1588	Artificial intelligence in automatic classification of invasive ductal carcinoma breast cancer in digital pathology images. <i>Medical Journal of the Islamic Republic of Iran</i> , 2020, 34, 140.	0.9	4
1589	Detecting spatially co-expressed gene clusters with functional coherence by graph-regularized convolutional neural network. <i>Bioinformatics</i> , 2022, 38, 1344-1352.	1.8	1
1591	Content-based image retrieval with a Convolutional Siamese Neural Network: Distinguishing lung cancer and tuberculosis in CT images. <i>Computers in Biology and Medicine</i> , 2022, 140, 105096.	3.9	23
1592	Diabetic foot ulcer classification using mapped binary patterns and convolutional neural networks. <i>Computers in Biology and Medicine</i> , 2022, 140, 105055.	3.9	22
1593	Digital Mammogram Inferencing System Using Intuitionistic Fuzzy Theory. <i>Computer Systems Science and Engineering</i> , 2022, 41, 1099-1115.	1.9	11
1594	Trends in the application of deep learning networks in medical image analysis: Evolution between 2012 and 2020. <i>European Journal of Radiology</i> , 2022, 146, 110069.	1.2	35
1595	A Basic Primer of Artificial Intelligence for Radiologists. <i>Contemporary Diagnostic Radiology</i> , 2022, 45, 1-7.	0.1	0
1597	Computer-Aided Diagnosis System for Colorectal Cancer. , 2021, , .		0
1598	Explainable Supervised Method for Genetics Ancestry Estimation. , 2021, , .		1
1599	Studying the Effects of Self-Attention for Medical Image Analysis. , 2021, , .		15

#	ARTICLE	IF	CITATIONS
1600	Uncertainty-aware GAN with Adaptive Loss for Robust MRI Image Enhancement. , 2021, , .		8
1601	Beauty Is in the AI of the Beholder: Are We Ready for the Clinical Integration of Artificial Intelligence in Radiography? An Exploratory Analysis of Perceived AI Knowledge, Skills, Confidence, and Education Perspectives of UK Radiographers. <i>Frontiers in Digital Health</i> , 2021, 3, 739327.	1.5	25
1602	Surgical data science “ from concepts toward clinical translation. <i>Medical Image Analysis</i> , 2022, 76, 102306.	7.0	107
1603	Learning functional group chemistry from molecular images leads to accurate prediction of activity cliffs. <i>Artificial Intelligence in the Life Sciences</i> , 2021, 1, 100022.	1.6	2
1604	Design method and machine learning application of acoustic holographic computational metamaterials. <i>Science China Technological Sciences</i> , 2022, 65, 238.	2.0	3
1605	Overview of radiomics in prostate imaging and future directions. <i>British Journal of Radiology</i> , 2022, 95, 20210539.	1.0	7
1606	Predicting Three-Dimensional Dose Distribution of Prostate Volumetric Modulated Arc Therapy Using Deep Learning. <i>Life</i> , 2021, 11, 1305.	1.1	0
1607	Robotics in Healthcare. <i>Intelligent Systems Reference Library</i> , 2022, , 281-306.	1.0	19
1608	Deep Learning Image Analysis of Optical Coherence Tomography Angiography Measured Vessel Density Improves Classification of Healthy and Glaucoma Eyes. <i>American Journal of Ophthalmology</i> , 2022, 236, 298-308.	1.7	24
1609	Deep Learning Applications in Magnetic Resonance Imaging: Has the Future Become Present?. <i>Diagnostics</i> , 2021, 11, 2181.	1.3	37
1610	Semi-supervised learning for optical fiber sensor road intrusion signal detection. <i>Applied Optics</i> , 2022, 61, C65.	0.9	5
1611	Deep learning“a first meta-survey of selected reviews across scientific disciplines, their commonalities, challenges and research impact. <i>PeerJ Computer Science</i> , 2021, 7, e773.	2.7	18
1612	Radiomics in hepatocellular carcinoma: A state-of-the-art review. <i>World Journal of Gastrointestinal Oncology</i> , 2021, 13, 1599-1615.	0.8	17
1613	U-Net: A valuable encoder-decoder architecture for liver tumors segmentation in CT images. <i>Journal of X-Ray Science and Technology</i> , 2022, 30, 45-56.	0.7	4
1614	Photoacoustic imaging aided with deep learning: a review. <i>Biomedical Engineering Letters</i> , 2022, 12, 155-173.	2.1	25
1615	COVID-19 Detection Using Radiography Images Based on Transfer Learning with DenseNet. <i>Lecture Notes in Networks and Systems</i> , 2022, , 351-363.	0.5	0
1616	An Efficient Methodology for Brain MRI Classification Based on DWT and Convolutional Neural Network. <i>Sensors</i> , 2021, 21, 7480.	2.1	13
1617	Highly accurate differentiation of bone marrow cell morphologies using deep neural networks on a large image data set. <i>Blood</i> , 2021, 138, 1917-1927.	0.6	62

#	ARTICLE	IF	CITATIONS
1618	Classification of Breast Cancer in Mammograms with Deep Learning Adding a Fifth Class. Applied Sciences (Switzerland), 2021, 11, 11398.	1.3	7
1620	Breast Tumor Segmentation in DCE-MRI With Tumor Sensitive Synthesis. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 4990-5001.	7.2	8
1621	A Data-Adaptive Loss Function for Incomplete Data and Incremental Learning in Semantic Image Segmentation. IEEE Transactions on Medical Imaging, 2022, 41, 1320-1330.	5.4	5
1624	Supervised Classification Problemsâ€™Taxonomy of Dimensions and Notation for Problems Identification. IEEE Access, 2021, 9, 151386-151400.	2.6	4
1625	A Comprehensive Review on Fake News Detection With Deep Learning. IEEE Access, 2021, 9, 156151-156170.	2.6	54
1627	MSRF-Net: A Multi-Scale Residual Fusion Network for Biomedical Image Segmentation. IEEE Journal of Biomedical and Health Informatics, 2022, 26, 2252-2263.	3.9	118
1628	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
1629	ACMB-Transformer: Anatomy-Guided Multi-Branch Transformer Network for Automated Evaluation of Root Canal Therapy. IEEE Journal of Biomedical and Health Informatics, 2022, 26, 1684-1695.	3.9	15
1630	RAU: An Interpretable Automatic Infection Diagnosis of COVID-19 Pneumonia with Residual Attention U-Net. Lecture Notes in Computer Science, 2021, , 122-136.	1.0	0
1631	Computer-Aided Ear Diagnosis System Based on CNN-LSTM Hybrid Learning Framework for Video Otoscopy Examination. IEEE Access, 2021, 9, 161292-161304.	2.6	5
1632	Global-Local attention network with multi-task uncertainty loss for abnormal lymph node detection in MR images. Medical Image Analysis, 2022, 77, 102345.	7.0	13
1633	A survey on graph-based deep learning for computational histopathology. Computerized Medical Imaging and Graphics, 2022, 95, 102027.	3.5	36
1634	A Study on 3D Deep Learning-Based Automatic Diagnosis of Nasal Fractures. Sensors, 2022, 22, 506.	2.1	17
1635	Deep Machine Learning for Oral Cancer: From Precise Diagnosis to Precision Medicine. Frontiers in Oral Health, 2021, 2, 794248.	1.2	22
1636	Efficient explainable deep learning technique for COVID-19 diagnosis based on computed Tomography scan images of lungs. AIP Conference Proceedings, 2022, , .	0.3	1
1637	Automated COVID-19 detection from X-ray and CT images with stacked ensemble convolutional neural network. Biocybernetics and Biomedical Engineering, 2022, 42, 27-41.	3.3	40
1638	Internet of Things Intelligent Interaction Technology Using Deep Learning in Public Interaction Design. IEEE Access, 2022, 10, 3182-3191.	2.6	3
1639	Transfer learning techniques for medical image analysis: A review. Biocybernetics and Biomedical Engineering, 2022, 42, 79-107.	3.3	81

#	ARTICLE	IF	CITATIONS
1640	Deep learning radiomics model related with genomics phenotypes for lymph node metastasis prediction in colorectal cancer. <i>Radiotherapy and Oncology</i> , 2022, 167, 195-202.	0.3	10
1641	Deep learning-based computer-aided heart sound analysis in children with left-to-right shunt congenital heart disease. <i>International Journal of Cardiology</i> , 2022, 348, 58-64.	0.8	20
1642	Diagnosis of Alzheimer's disease via an attention-based multi-scale convolutional neural network. <i>Knowledge-Based Systems</i> , 2022, 238, 107942.	4.0	36
1643	Domain generalization on medical imaging classification using episodic training with task augmentation. <i>Computers in Biology and Medicine</i> , 2022, 141, 105144.	3.9	19
1644	DSU-Net: Distraction-Sensitive U-Net for 3D lung tumor segmentation. <i>Engineering Applications of Artificial Intelligence</i> , 2022, 109, 104649.	4.3	21
1645	A novel unsupervised approach based on the hidden features of Deep Denoising Autoencoders for COVID-19 disease detection. <i>Expert Systems With Applications</i> , 2022, 192, 116366.	4.4	23
1647	Registration Method of Virtual Model and Real Bone Based on Feature Points for Surgical Navigation. , 2020, , .		0
1649	DeepLN: an artificial intelligence-based automated system for lung cancer screening. <i>Annals of Translational Medicine</i> , 2020, 8, 1126-1126.	0.7	17
1650	Automatic Radiographic Bone Age Assessment Using Deep Joint Learning with Attention Modules. <i>Advances in Transdisciplinary Engineering</i> , 2020, , .	0.1	0
1651	Comparison of CNN-based Approaches for Detection of COVID-19 on Chest X-ray Images. , 2020, , .		5
1652	Explainable Features in Classification of Neonatal Thermograms. , 2020, , .		0
1653	Evaluation of Hyperbolic Attention in Histopathology Images. , 2020, , .		0
1654	Femoral Head Segmentation with Convolutional Neural Networks in MR Imaging Slices of the Patients with Legg-Calve-Perthes Disease. , 2020, , .		0
1655	Estimating Hard-tissue Conditions from Dental Images via Machine Learning. , 2020, , .		0
1656	Grading of Brain Histopathology Images via Convolutional Neural Networks. , 2020, , .		1
1657	Color Channel Perturbation Attacks for Fooling Convolutional Neural Networks and A Defense Against Such Attacks. <i>IEEE Transactions on Artificial Intelligence</i> , 2020, 1, 181-191.	3.4	10
1658	A Convolutional Neural Network Approach for The Diagnosis of Breast Cancer. , 2020, , .		5
1659	Children's Drawing Psychological Analysis using Shallow Convolutional Neural Network. , 2020, , .		4

#	ARTICLE	IF	CITATIONS
1660	3D Brain Image Segmentation Model using Deep Learning and Hidden Markov Random Fields. , 2020, , .		0
1661	A Novel Solution of an Enhanced Error and Loss Function using Deep Learning for Hypertension Classification in Traditional Medicine. , 2020, , .		0
1662	Exploring Intensity Invariance in Deep Neural Networks for Brain Image Registration. , 2020, , .		1
1663	A Model-Driven Stack-Based Fully Convolutional Network for Pancreas Segmentation. , 2020, , .		4
1664	Transfer Learning Based Method for COVID-19 Detection From Chest X-ray Images. , 2020, , .		8
1665	Analyzing Functional Magnetic Resonance Brain Images with OpenCV2. , 2020, , .		2
1666	COVID-19 detection from X-ray images using artificial intelligence. , 2021, , 209-224.		2
1667	Forecasting the lung diseases from Radiography scans with hybrid Transfer Learning Techniques. , 2021, , .		0
1668	Detection of Diabetic Retinopathy at Early Stage Using Retinal Fundus Images. , 2021, , .		0
1669	Mammography Data Augmentation Using ACGAN. , 2021, , .		0
1670	Graph Convolutional Networks via Low-Rank Subspace for Multi-Site rs-fMRI ASD Diagnosis. , 2021, , .		1
1671	Fault-Tolerance of Binarized and Stochastic Computing-based Neural Networks. , 2021, , .		1
1672	Effective Loss Function for Unbalanced Breast Thermal Image Segmentation. , 2021, , .		0
1673	MAKE: A Combined Autoencoder to Detect Adversarial Examples. , 2021, , .		0
1674	Automated Annotator: Capturing Expert Knowledge for Free. , 2021, 2021, 2664-2667.		0
1675	High-Resolution Magnetic Resonance Spectroscopic Imaging using a Multi-Encoder Attention U-Net with Structural and Adversarial Loss. , 2021, 2021, 2891-2895.		6
1676	Analyze Skin Histopathology Images Using Multiple Deep Learning Methods. , 2021, , .		4
1677	Segmentation of Cardiac Structures via Successive Subspace Learning with Saab Transform from Cine MRI. , 2021, 2021, 3535-3538.		7

#	ARTICLE	IF	CITATIONS
1678	Fat-based studies for computer-assisted screening of child obesity using thermal imaging based on deep learning techniques: a comparison with quantum machine learning approach. <i>Soft Computing</i> , 2023, 27, 13093-13114.	2.1	6
1679	Deep Learning-Based Automatic Segmentation of Mandible and Maxilla in Multi-Center CT Images. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 1358.	1.3	8
1680	Model-based stratification of progression along the Alzheimer disease continuum highlights the centrality of biomarker synergies. <i>Alzheimer's Research and Therapy</i> , 2022, 14, 16.	3.0	5
1681	Deep Learning-based Trichoscopic Image Analysis and Quantitative Model for Predicting Basic and Specific Classification in Male Androgenetic Alopecia. <i>Acta Dermato-Venereologica</i> , 2021, 102, adv00635.	0.6	1
1682	Medical image segmentation using deep learning: A survey. <i>IET Image Processing</i> , 2022, 16, 1243-1267.	1.4	166
1683	Electrical consumption forecasting: a framework for high frequency data. <i>Neural Computing and Applications</i> , 2022, 34, 5577-5586.	3.2	3
1684	A New Convolutional Neural Network Architecture for Automatic Detection of Brain Tumors in Magnetic Resonance Imaging Images. <i>IEEE Access</i> , 2022, 10, 2775-2782.	2.6	58
1685	Application of Artificial Intelligence in Diagnosis of Craniopharyngioma. <i>Frontiers in Neurology</i> , 2021, 12, 752119.	1.1	3
1686	Dual-task convolutional neural network based on the combination of the U-Net and a diffraction propagation model for phase hologram design with suppressed speckle noise. <i>Optics Express</i> , 2022, 30, 2646.	1.7	12
1687	A Hybrid CNN-GLCM Classifier For Detection And Grade Classification Of Brain Tumor. <i>Brain Imaging and Behavior</i> , 2022, 16, 1410-1427.	1.1	18
1688	Identifying cardiomegaly in chest x-rays using dual attention network. <i>Applied Intelligence</i> , 2022, 52, 11058-11067.	3.3	3
1689	Globally optimal OCT surface segmentation using a constrained IPM optimization. <i>Optics Express</i> , 2022, 30, 2453.	1.7	9
1690	Deep Learning to Automatically Segment and Analyze Abdominal Aortic Aneurysm from Computed Tomography Angiography. <i>Cardiovascular Engineering and Technology</i> , 2022, 13, 535-547.	0.7	10
1691	A Pseudo-Siamese Feature Fusion Generative Adversarial Network for Synthesizing High-Quality Fetal Four-Chamber Views. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2023, 27, 1193-1204.	3.9	9
1692	The R-AI-DIOLOGY checklist: a practical checklist for evaluation of artificial intelligence tools in clinical neuroradiology. <i>Neuroradiology</i> , 2022, 64, 851-864.	1.1	7
1694	Survey on Structural Neuro imaging for the Identification of brain Abnormalities in Schizophrenia. <i>Current Medical Imaging</i> , 2022, 18, .	0.4	1
1695	Deep learning in CT colonography: differentiating premalignant from benign colorectal polyps. <i>European Radiology</i> , 2022, 32, 4749-4759.	2.3	12
1696	Genetic prediction of ICU hospitalization and mortality in COVID-19 patients using artificial neural networks. <i>Journal of Cellular and Molecular Medicine</i> , 2022, 26, 1445-1455.	1.6	45

#	ARTICLE	IF	CITATIONS
1697	Computational Methods for Single-Cell Imaging and Omics Data Integration. <i>Frontiers in Molecular Biosciences</i> , 2021, 8, 768106.	1.6	13
1699	Machine learning analysis of self-assembled colloidal cones. <i>Soft Matter</i> , 2022, 18, 1532-1539.	1.2	0
1700	Deep Learning in Large and Multi-Site Structural Brain MR Imaging Datasets. <i>Frontiers in Neuroinformatics</i> , 2021, 15, 805669.	1.3	19
1701	Automated Breast Cancer Detection Models Based on Transfer Learning. <i>Sensors</i> , 2022, 22, 876.	2.1	35
1702	Generalizable Framework for Atrial Volume Estimation for Cardiac CT Images Using Deep Learning With Quality Control Assessment. <i>Frontiers in Cardiovascular Medicine</i> , 2022, 9, 822269.	1.1	7
1703	Detection of Left Ventricular Systolic Dysfunction Using an Artificial Intelligence-Enabled Chest X-Ray. <i>Canadian Journal of Cardiology</i> , 2022, 38, 763-773.	0.8	6
1704	The application of artificial intelligence in nuclear cardiology. <i>Annals of Nuclear Medicine</i> , 2022, 36, 111-122.	1.2	9
1705	Artificial neural networks in cardiology: analysis of graphic data. <i>Bulletin of Siberian Medicine</i> , 2022, 20, 193-204.	0.1	2
1706	Design of deep ensemble classifier with fuzzy decision method for biomedical image classification. <i>Applied Soft Computing Journal</i> , 2022, 115, 108178.	4.1	30
1707	Fast and Accurate U-Net Model for Fetal Ultrasound Image Segmentation. <i>Ultrasonic Imaging</i> , 2022, 44, 25-38.	1.4	13
1708	Deep Learning and Improved HMM Training Algorithm and Its Analysis in Facial Expression Recognition of Sports Athletes. <i>Computational Intelligence and Neuroscience</i> , 2022, 2022, 1-12.	1.1	7
1709	Privacy-Preserving Artificial Intelligence Techniques in Biomedicine. <i>Methods of Information in Medicine</i> , 2022, 61, e12-e27.	0.7	14
1710	Model Optimisation Techniques for Convolutional Neural Networks. <i>Advances in Computational Intelligence and Robotics Book Series</i> , 2022, , 269-298.	0.4	1
1711	Recognition of NiCrAlY coating based on convolutional neural network. <i>Npj Materials Degradation</i> , 2022, 6, .	2.6	4
1712	CT Segmentation of Dinosaur Fossils by Deep Learning. <i>Frontiers in Earth Science</i> , 2022, 9, .	0.8	6
1713	Power-based Attacks on Spatial DNN Accelerators. <i>ACM Journal on Emerging Technologies in Computing Systems</i> , 2022, 18, 1-18.	1.8	1
1714	A deep convolutional neural network for estimating hemodynamic response function with reduction of motion artifacts in fNIRS. <i>Journal of Neural Engineering</i> , 2022, 19, 016017.	1.8	6
1715	Computer 3D Vision-Aided Full-3D Optimization of a Centrifugal Impeller. <i>Journal of Turbomachinery</i> , 2022, 144, .	0.9	5

#	ARTICLE	IF	CITATIONS
1716	Computer-Aided Veress needle guidance using endoscopic optical coherence tomography and convolutional neural networks. <i>Journal of Biophotonics</i> , 2022, 15, e202100347.	1.1	5
1717	Deep learning of early brain imaging to predict post-arrest electroencephalography. <i>Resuscitation</i> , 2022, 172, 17-23.	1.3	7
1718	Spatio-temporal deep learning for automatic detection of intracranial vessel perforation in digital subtraction angiography during endovascular thrombectomy. <i>Medical Image Analysis</i> , 2022, 77, 102377.	7.0	9
1719	Reliable detection of lymph nodes in whole pelvic for radiotherapy. <i>Biomedical Signal Processing and Control</i> , 2022, 74, 103501.	3.5	0
1720	Performances of Machine Learning in Detecting Glaucoma Using Fundus and Retinal Optical Coherence Tomography Images: A Meta-Analysis. <i>American Journal of Ophthalmology</i> , 2022, 237, 1-12.	1.7	17
1721	Hybrid Feature-Based Invasive Ductal Carcinoma Classification in Breast Histopathology Images. <i>Smart Innovation, Systems and Technologies</i> , 2022, , 515-525.	0.5	7
1722	Classification and Region Analysis of COVID-19 Infection Using Lung CT Images and Deep Convolutional Neural Networks. <i>SSRN Electronic Journal</i> , 0, , .	0.4	1
1723	FCM-DNN: diagnosing coronary artery disease by deep accuracy fuzzy C-means clustering model. <i>Mathematical Biosciences and Engineering</i> , 2022, 19, 3609-3635.	1.0	4
1724	Computer-Aided Diagnosis of Vertebral Compression Fractures Using Convolutional Neural Networks and Radiomics. <i>Journal of Digital Imaging</i> , 2022, 35, 446-458.	1.6	6
1725	Deep learning of quantitative ultrasound multi-parametric images at pre-treatment to predict breast cancer response to chemotherapy. <i>Scientific Reports</i> , 2022, 12, 2244.	1.6	16
1726	Polycystic liver: automatic segmentation using deep learning on CT is faster and as accurate compared to manual segmentation. <i>European Radiology</i> , 2022, 32, 4780-4790.	2.3	5
1727	Automatic classification with concatenation of deep and handcrafted features of histological images for breast carcinoma diagnosis. <i>Multimedia Tools and Applications</i> , 2022, 81, 9631-9643.	2.6	15
1728	Detection of COVID-19 Based on Chest X-rays Using Deep Learning. <i>Healthcare (Switzerland)</i> , 2022, 10, 343.	1.0	35
1729	Experimental Research on the Antitumor Effect of Human Gastric Cancer Cells Transplanted in Nude Mice Based on Deep Learning Combined with Spleen-Invigorating Chinese Medicine. <i>Computational and Mathematical Methods in Medicine</i> , 2022, 2022, 1-11.	0.7	2
1731	Measurement precision enhancement of surface plasmon resonance based angular scanning detection using deep learning. <i>Scientific Reports</i> , 2022, 12, 2052.	1.6	15
1732	A semi-supervised autoencoder for autism disease diagnosis. <i>Neurocomputing</i> , 2022, 483, 140-147.	3.5	16
1733	CoCNN: Co-occurrence CNN for recommendation. <i>Expert Systems With Applications</i> , 2022, 195, 116595.	4.4	14
1734	A quantization assisted U-Net study with ICA and deep features fusion for breast cancer identification using ultrasonic data. <i>PeerJ Computer Science</i> , 2021, 7, e805.	2.7	22

#	ARTICLE	IF	CITATIONS
1737	A Method of Keratitis Diagnosis Based on Dimension Reduction of Patch-based Features. , 2022, , .		0
1738	Doubly Supervised Transfer Classifier for Computer-Aided Diagnosis With Imbalanced Modalities. IEEE Transactions on Medical Imaging, 2022, 41, 2009-2020.	5.4	4
1739	Deep learning applications for disease diagnosis. , 2022, , 31-51.		17
1740	X-MIR: EXplainable Medical Image Retrieval. , 2022, , .		16
1741	Deep Learning for ILD preprocessing. , 2022, , .		0
1742	A Smart Healthcare System Based on Classifier DenseNet 121 Model to Detect Multiple Diseases. Lecture Notes in Networks and Systems, 2022, , 297-312.	0.5	10
1743	Recognition of Peripheral Lung Cancer and Focal Pneumonia on Chest Computed Tomography Images Based on Convolutional Neural Network. Technology in Cancer Research and Treatment, 2022, 21, 153303382210853.	0.8	1
1744	Medical Image Analysis Using Deep Learning and Distribution Pattern Matching Algorithm. Computers, Materials and Continua, 2022, 72, 2175-2190.	1.5	0
1745	Feasibility of a deep learning-based diagnostic platform to evaluate lower urinary tract disorders in men using simple uroflowmetry. Investigative and Clinical Urology, 2022, 63, 301.	1.0	5
1746	Evolution of Artificial Intelligence-Powered Technologies in Biomedical Research and Healthcare. Advances in Biochemical Engineering/Biotechnology, 2022, , 23-60.	0.6	9
1748	A Deep Convolutional Neural Network for COVID-19 Chest CT-Scan Image Classification. Lecture Notes in Electrical Engineering, 2022, , 603-612.	0.3	1
1749	Unsupervised Histological Image Registration Using Structural Feature Guided Convolutional Neural Network. IEEE Transactions on Medical Imaging, 2022, 41, 2414-2431.	5.4	9
1750	AIM in MÃ©niÃ©re's Disease. , 2022, , 1705-1716.		0
1751	Effect of data preprocessing methods and hyperparameters on accuracy of ball bearing fault detection based on deep learning. Advances in Mechanical Engineering, 2022, 14, 168781322210784.	0.8	4
1752	Assessing Tumour Haemodynamic Heterogeneity and Response to Choline Kinase Inhibition Using Clustered Dynamic Contrast Enhanced MRI Parameters in Rodent Models of Glioblastoma. Cancers, 2022, 14, 1223.	1.7	3
1753	Multiparametric Oncologic Hybrid Imaging: Machine Learning Challenges and Opportunities. RoFo Fortschritte Auf Dem Gebiet Der Rontgenstrahlen Und Der Bildgebenden Verfahren, 2022, 194, 605-612.	0.7	1
1754	Artificial intelligence-based classification of bone tumors in the proximal femur on plain radiographs: System development and validation. PLoS ONE, 2022, 17, e0264140.	1.1	19
1755	COVID-19 Pneumonia Classification Based on NeuroWavelet Capsule Network. Healthcare (Switzerland), 2022, 10, 422.	1.0	7

#	ARTICLE	IF	CITATIONS
1756	Evaluation of Tracking Algorithms for Contrast Enhanced Ultrasound Imaging Exploration. , 2022, , .		4
1757	Detection and classification of mandibular fracture on CT scan using deep convolutional neural network. Clinical Oral Investigations, 2022, 26, 4593-4601.	1.4	21
1758	Artificial intelligence and cholangiocarcinoma: Updates and prospects. World Journal of Clinical Oncology, 2022, 13, 125-134.	0.9	9
1759	Cross-institutional outcome prediction for head and neck cancer patients using self-attention neural networks. Scientific Reports, 2022, 12, 3183.	1.6	10
1760	Deep learning-based tumour segmentation and total metabolic tumour volume prediction in the prognosis of diffuse large B-cell lymphoma patients in 3D FDG-PET images. European Radiology, 2022, 32, 4801-4812.	2.3	10
1761	Cross: A generic framework for system integration and its adaption in hospitals. Software - Practice and Experience, 0, , .	2.5	0
1762	Knee Injury Detection Using Deep Learning on MRI Studies: A Systematic Review. Diagnostics, 2022, 12, 537.	1.3	18
1763	An Outperforming Artificial Intelligence Model to Identify Referable Blepharoptosis for General Practitioners. Journal of Personalized Medicine, 2022, 12, 283.	1.1	5
1764	High-performance visual geometric group deep learning architectures for MRI brain tumor classification. Journal of Supercomputing, 2022, 78, 12753-12764.	2.4	5
1765	Deep Neural Networks for Medical Image Segmentation. Journal of Healthcare Engineering, 2022, 2022, 1-15.	1.1	86
1767	Interdisciplinary Collaboration Opportunities, Challenges, and Solutions for Artificial Intelligence in Ultrasound. Current Medical Imaging, 2022, 18, 1046-1051.	0.4	2
1768	DCNN-based prediction model for detection of age-related macular degeneration from color fundus images. Medical and Biological Engineering and Computing, 2022, 60, 1431-1448.	1.6	10
1769	Liquid Biopsy and Artificial Intelligence as Tools to Detect Signatures of Colorectal Malignancies: A Modern Approach in Patient's Stratification. Frontiers in Oncology, 2022, 12, 856575.	1.3	13
1770	Bayesian deep learning-based ¹ H-MRS of the brain: Metabolite quantification with uncertainty estimation using Monte Carlo dropout. Magnetic Resonance in Medicine, 2022, 88, 38-52.	1.9	6
1771	Cardiac Magnetic Resonance Left Ventricle Segmentation and Function Evaluation Using a Trained Deep-Learning Model. Applied Sciences (Switzerland), 2022, 12, 2627.	1.3	4
1772	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
1773	Deep learning models in medical image analysis. Journal of Oral Biosciences, 2022, 64, 312-320.	0.8	49
1774	A Two-Stage Model for Predicting Mild Cognitive Impairment to Alzheimer's Disease Conversion. Frontiers in Aging Neuroscience, 2022, 14, 826622.	1.7	10

#	ARTICLE	IF	CITATIONS
1775	Diabetic retinopathy prediction based on deep learning and deformable registration. <i>Multimedia Tools and Applications</i> , 2022, 81, 28709-28727.	2.6	18
1776	A Classifier for Improving Early Lung Cancer Diagnosis Incorporating Artificial Intelligence and Liquid Biopsy. <i>Frontiers in Oncology</i> , 2022, 12, 853801.	1.3	9
1777	A Multihead ConvLSTM for Time Series Classification in eHealth Industry 4.0. <i>Wireless Communications and Mobile Computing</i> , 2022, 2022, 1-7.	0.8	3
1778	Recognition of Human Body Feature Changes in Sports Health Based on Deep Learning. <i>Computational and Mathematical Methods in Medicine</i> , 2022, 2022, 1-14.	0.7	1
1779	Classification of Gliomas and Germinomas of the Basal Ganglia by Transfer Learning. <i>Frontiers in Oncology</i> , 2022, 12, 844197.	1.3	5
1780	A review of intelligent medical imaging diagnosis for the COVID-19 infection. <i>Intelligent Decision Technologies</i> , 2022, , 1-18.	0.6	0
1781	Deep learning for caries detection: A systematic review. <i>Journal of Dentistry</i> , 2022, 122, 104115.	1.7	68
1782	Fully Automatic Analysis of Muscle B-Mode Ultrasound Images Based on the Deep Residual Shrinkage U-Net. <i>Electronics (Switzerland)</i> , 2022, 11, 1093.	1.8	3
1783	nnU-Net Deep Learning Method for Segmenting Parenchyma and Determining Liver Volume From Computed Tomography Images. <i>Annals of Surgery Open</i> , 2022, 3, e155.	0.7	9
1784	Spatial Coherence in Medical Ultrasound: A Review. <i>Ultrasound in Medicine and Biology</i> , 2022, 48, 975-996.	0.7	5
1785	Web Page Classification Algorithm Based on Deep Learning. <i>Computational Intelligence and Neuroscience</i> , 2022, 2022, 1-10.	1.1	2
1786	Learning and Reasoning for Cultural Metadata Quality: Coupling Symbolic AI and Machine Learning over a Semantic Web Knowledge Graph to Support Museum Curators in Improving the Quality of Cultural Metadata and Information Retrieval. <i>Journal on Computing and Cultural Heritage</i> , 2022, 15, 1-23.	1.2	6
1787	Machine learning-based optimization of the design of composite pillars for dry adhesives. <i>Extreme Mechanics Letters</i> , 2022, 54, 101695.	2.0	10
1788	Virtual attenuation correction: improving stress myocardial perfusion SPECT imaging using deep learning. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2022, 49, 3140-3149.	3.3	21
1789	Artificial intelligence in interdisciplinary life science and drug discovery research. <i>Future Science OA</i> , 2022, 8, FSO792.	0.9	8
1790	Multiclass classification of brain tumors using a novel CNN architecture. <i>Multimedia Tools and Applications</i> , 2022, 81, 29847-29863.	2.6	16
1791	DeepVir: Graphical Deep Matrix Factorization for In Silico Antiviral Repositioning Application to COVID-19. <i>Journal of Computational Biology</i> , 2022, 29, 441-452.	0.8	6
1792	Automatic segmentation of cattle rib-eye area in ultrasound images using the UNet++ deep neural network. <i>Computers and Electronics in Agriculture</i> , 2022, 195, 106818.	3.7	7

#	ARTICLE	IF	CITATIONS
1793	Prediction of treatment outcome in neovascular age-related macular degeneration using a novel convolutional neural network. <i>Scientific Reports</i> , 2022, 12, 5871.	1.6	10
1794	Intrusion Detection System Using Deep Learning Asymmetric Autoencoder (DLAA). <i>International Journal of Fuzzy System Applications</i> , 2022, 11, 0-0.	0.5	0
1795	Artificial intelligence for body composition and sarcopenia evaluation on computed tomography: A systematic review and meta-analysis. <i>European Journal of Radiology</i> , 2022, 149, 110218.	1.2	12
1796	A deep learning framework for predicting burglaries based on multiple contextual factors. <i>Expert Systems With Applications</i> , 2022, 199, 117042.	4.4	5
1797	SR-CycleGAN: super-resolution of clinical CT to micro-CT level with multi-modality super-resolution loss. <i>Journal of Medical Imaging</i> , 2022, 9, 024003.	0.8	2
1798	Recent advances and clinical applications of deep learning in medical image analysis. <i>Medical Image Analysis</i> , 2022, 79, 102444.	7.0	215
1799	Automated knee cartilage segmentation for heterogeneous clinical MRI using generative adversarial networks with transfer learning. <i>Quantitative Imaging in Medicine and Surgery</i> , 2022, 12, 2620-2633.	1.1	14
1800	CGRNet: Contour-guided graph reasoning network for ambiguous biomedical image segmentation. <i>Biomedical Signal Processing and Control</i> , 2022, 75, 103621.	3.5	10
1801	Generative Adversarial Networks in Medical Image augmentation: A review. <i>Computers in Biology and Medicine</i> , 2022, 144, 105382.	3.9	118
1802	Optimally integrating multi-source products for improving long series precipitation precision by using machine learning methods. <i>Journal of Hydrology</i> , 2022, 609, 127707.	2.3	7
1803	Prognostics and health management of Lithium-ion battery using deep learning methods: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 161, 112282.	8.2	83
1804	Machine learning in medical applications: A review of state-of-the-art methods. <i>Computers in Biology and Medicine</i> , 2022, 145, 105458.	3.9	155
1805	Towards near real-time national-scale soil water content monitoring using data fusion as a downscaling alternative. <i>Journal of Hydrology</i> , 2022, 609, 127705.	2.3	14
1806	SSPNet: An interpretable 3D-CNN for classification of schizophrenia using phase maps of resting-state complex-valued fMRI data. <i>Medical Image Analysis</i> , 2022, 79, 102430.	7.0	20
1807	Progress in deep learning-based dental and maxillofacial image analysis: A systematic review. <i>Expert Systems With Applications</i> , 2022, 199, 116968.	4.4	27
1808	Recurrent Mask Refinement for Few-Shot Medical Image Segmentation. , 2021, , .		50
1809	Nondeterministic Impact of CPU Multithreading on Training Deep Learning Systems. , 2021, , .		6
1810	Eager Falsification for Accelerating Robustness Verification of Deep Neural Networks. , 2021, , .		8

#	ARTICLE	IF	CITATIONS
1811	Detection of Cardiac Tissues using K-means Analysis Methods in Nuclear Medicine Images. Open Access Macedonian Journal of Medical Sciences, 2021, 9, 1272-1276.	0.1	0
1812	Invasive Ductal Carcinoma Grade Classification in Histopathological Images using Transfer Learning Approach. , 2021, , .		4
1813	Deep learning in resting-state fMRI[*]. , 2021, 2021, 3965-3969.		5
1814	Nonlinear registration as an effective preprocessing technique for Deep learning based classification of disease. , 2021, 2021, 3245-3250.		1
1815	Interactive Volumetric Region Growing for Brain Tumor Segmentation on MRI using WebGL. , 2021, , .		1
1816	IoMT Security: SHA3-512, AES-256, RSA and LSB Steganography. , 2021, , .		7
1817	A Survey on Exploring Deep Learning in Medical Image Processing. , 2021, , .		0
1818	Artificial Intelligence (AI) and Big Data Analytics for the COVID-19 Pandemic. , 2022, , 1-17.		1
1819	cuSCNN: A Secure and Batch-Processing Framework for Privacy-Preserving Convolutional Neural Network Prediction on GPU. Frontiers in Computational Neuroscience, 2021, 15, 799977.	1.2	1
1820	Impact of Computer-Assisted System on the Learning Curve and Quality in Esophagogastroduodenoscopy: Randomized Controlled Trial. Frontiers in Medicine, 2021, 8, 781256.	1.2	3
1821	Review and Prospect: Artificial Intelligence in Advanced Medical Imaging. Frontiers in Radiology, 2021, 1, .	1.2	37
1822	Low-Parameter Small Convolutional Neural Network Applied to Functional Medical Imaging of Tc-99m Trodat-1 Brain Single-Photon Emission Computed Tomography for Parkinsonâ€™s Disease. Journal of Personalized Medicine, 2022, 12, 1.	1.1	4
1823	A Transfer Learning Approach for Lumbar Spine Disc State Classification. Electronics (Switzerland), 2022, 11, 85.	1.8	6
1824	Alzheimerâ€™s Disease Detection using Machine Learning: A Review. , 2021, , .		3
1825	CSPO-DCNN: Competitive Swarm Political Optimisation for Breast Cancer Classification using Histopathological Image. Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization, 2022, 10, 549-564.	1.3	1
1826	A fused lightweight CNN model for the diagnosis of COVID-19 using CT scan images. Automatika, 2022, 63, 171-184.	1.2	14
1827	AI in spotting high-risk characteristics of medical imaging and molecular pathology. Precision Clinical Medicine, 2021, 4, 271-286.	1.3	2
1828	<sc>Crossâ€™Cohort</sc> Automatic Knee <sc>MRI</sc> Segmentation With <sc>Multiâ€™Planar Uâ€™Nets</sc>. Journal of Magnetic Resonance Imaging, 2022, 55, 1650-1663.	1.9	9

#	ARTICLE	IF	CITATIONS
1829	Brain Tumor Segmentation Based on Deep Learning's Feature Representation. Journal of Imaging, 2021, 7, 269.	1.7	20
1830	Discimus_{RW}: An E-Learning Web Application for Classifying Random Walks with Machine Learning. , 2021, , .		0
1831	Predicting and Classifying Breast Cancer Using Machine Learning. Journal of Computational Biology, 2022, 29, 497-514.	0.8	2
1832	Deep Learning for Accurate Segmentation of Venous Thrombus from Black-Blood Magnetic Resonance Images: A Multicenter Study. BioMed Research International, 2021, 2021, 1-11.	0.9	3
1833	Deep Learning With 18F-Fluorodeoxyglucose-PET Gives Valid Diagnoses for the Uncertain Cases in Memory Impairment of Alzheimer's Disease. Frontiers in Aging Neuroscience, 2021, 13, 764272.	1.7	2
1835	Automatic classification method of liver ultrasound standard plane images using pre-trained convolutional neural network. Connection Science, 2022, 34, 975-989.	1.8	10
1836	A Multi-Resolution Deep Forest Framework with Hybrid Feature Fusion for CT Whole Heart Segmentation. , 2021, , .		1
1837	Radiomics and deep learning approach to the differential diagnosis of parotid gland tumors. Current Opinion in Otolaryngology and Head and Neck Surgery, 2022, 30, 107-113.	0.8	2
1838	Adversarial Attack for Uncertainty Estimation: Identifying Critical Regions in Neural Networks. Neural Processing Letters, 2022, 54, 1805-1821.	2.0	10
1839	Objective Assessment of Pathological Voice Using Artificial Intelligence Based on the GRBAS Scale. Journal of Voice, 2021, , .	0.6	10
1840	Towards the Segmentation and Classification of White Blood Cell Cancer Using Hybrid Mask-Recurrent Neural Network and Transfer Learning. Contrast Media and Molecular Imaging, 2021, 2021, 1-12.	0.4	1
1842	Real-time automated diagnosis of colorectal cancer invasion depth using a deep learning model with multimodal data (with video). Gastrointestinal Endoscopy, 2022, 95, 1186-1194.e3.	0.5	15
1843	A Graph Attention Neural Network for Diagnosing ASD with fMRI Data. , 2021, , .		4
1844	Deep learning methods in the diagnosis of sacroiliitis from plain pelvic radiographs. Modern Rheumatology, 2023, 33, 202-206.	0.9	4
1846	U-Net based on Feature Fusion for Rectal Cancer Image Segmentation. , 2021, , .		0
1847	Automated Crack Detection via Semantic Segmentation Approaches Using Advanced U-Net Architecture. Intelligent Automation and Soft Computing, 2022, 34, 593-607.	1.6	4
1848	A Stability-Enhanced CycleGAN for Effective Domain Transformation of Unpaired Ultrasound Images. SSRN Electronic Journal, 0, , .	0.4	0
1849	Optimize Transfer Learning for Autism Spectrum Disorder Classification with Neuroimaging: A Comparative Study. , 2022, , .		1

#	ARTICLE	IF	CITATIONS
1850	Patient-Generated Health Photos and Videos Across Health and Well-being Contexts: Scoping Review. <i>Journal of Medical Internet Research</i> , 2022, 24, e28867.	2.1	3
1851	Artificial Intelligence Algorithms for Multisensor Information Fusion Based on Deep Learning Algorithms. <i>Mobile Information Systems</i> , 2022, 2022, 1-10.	0.4	0
1852	Leveraging MRI characterization of longitudinal tears of the deep digital flexor tendon in horses using machine learning. <i>Veterinary Radiology and Ultrasound</i> , 2022, 63, 580-592.	0.4	3
1853	Deep Learning for Covid-19 Screening Using Chest X-Rays in 2020: A Systematic Review. <i>International Journal of Pattern Recognition and Artificial Intelligence</i> , 2022, 36, .	0.7	16
1854	An Image Diagnosis Algorithm for Keratitis Based on Deep Learning. <i>Neural Processing Letters</i> , 2022, 54, 2007-2024.	2.0	4
1855	Medical image segmentation with 3D convolutional neural networks: A survey. <i>Neurocomputing</i> , 2022, 493, 397-413.	3.5	37
1856	A fully automatic AI system for tooth and alveolar bone segmentation from cone-beam CT images. <i>Nature Communications</i> , 2022, 13, 2096.	5.8	73
1857	Value-creation in the health data domain: a typology of what health data help us do. <i>BioSocieties</i> , 2022, , 1-25.	0.8	4
1858	Detection of Chronic Blast-Related Mild Traumatic Brain Injury with Diffusion Tensor Imaging and Support Vector Machines. <i>Diagnostics</i> , 2022, 12, 987.	1.3	6
1859	Revisiting model's uncertainty and confidences for adversarial example detection. <i>Applied Intelligence</i> , 2023, 53, 509-531.	3.3	11
1860	Smart Ecosystems through Voice and Images. , 0, , .		0
1874	Clinical target segmentation using a novel deep neural network: double attention Res-U-Net. <i>Scientific Reports</i> , 2022, 12, 6717.	1.6	13
1878	Estimation of left ventricular parameters based on deep learning method. <i>Mathematical Biosciences and Engineering</i> , 2022, 19, 6638-6658.	1.0	0
1880	Biobanks and Artificial Intelligence. <i>Contemporary Medical Imaging</i> , 2022, , 81-93.	0.3	2
1881	Performance Evaluation of 2D CNN Optimizers for Lung and Colon Cancer Image Classification. <i>Lecture Notes in Networks and Systems</i> , 2022, , 515-525.	0.5	3
1882	Hybrid Optimized Learning for Lung Cancer Classification. <i>Intelligent Automation and Soft Computing</i> , 2022, 34, 911-925.	1.6	1
1883	Improving the Robustness of Adversarial Attacks Using an Affine-Invariant Gradient Estimator. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
1884	Spherical Transformer for Quality Assessment of Pediatric Cortical Surfaces. , 2022, 2022, .		2

#	ARTICLE	IF	CITATIONS
1885	Novel Hybrid Boosted Ensemble Learning Framework for Brain Tumor Prediction. , 2022, , .		2
1886	Differentiable Projection from Optical Coherence Tomography B-Scan without Retinal Layer Segmentation Supervision. , 2022, , .		0
1887	Deep Learning Method for Classifying Thyroid Nodules Using Ultrasound Images. , 2022, , .		2
1888	Computer Vision-Based Medical Cloud Data System for Back Muscle Image Detection. Computational Intelligence and Neuroscience, 2022, 2022, 1-8.	1.1	2
1889	Adaptive Multimodal Neuroimage Integration for Major Depression Disorder Detection. Frontiers in Neuroinformatics, 2022, 16, 856175.	1.3	3
1890	USSL Net: Focusing on Structural Similarity with Light U-Structure for Stroke Lesion Segmentation. Journal of Shanghai Jiaotong University (Science), 0, , 1.	0.5	1
1891	Hybrid Spatiotemporal Contrastive Representation Learning for Content-Based Surgical Video Retrieval. Electronics (Switzerland), 2022, 11, 1353.	1.8	11
1892	An improved invasive weed optimization enabled Shepard convolutional neural network for classification of breast cancer. International Journal of Imaging Systems and Technology, 2022, 32, 1521-1534.	2.7	4
1893	Artificial intelligence: Advances and new frontiers in medical imaging. Artificial Intelligence in Medical Imaging, 2022, 3, 33-41.	0.3	2
1894	Multi-Class Classification of Breast Cancer Using 6B-Net with Deep Feature Fusion and Selection Method. Journal of Personalized Medicine, 2022, 12, 683.	1.1	11
1895	Deep learning from multiple experts improves identification of amyloid neuropathologies. Acta Neuropathologica Communications, 2022, 10, 66.	2.4	12
1896	Feature Generalization for Breast Cancer Detection in Histopathological Images. Interdisciplinary Sciences, Computational Life Sciences, 2022, 14, 566-581.	2.2	4
1897	Diagnosing and differentiating viral pneumonia and COVID-19 using X-ray images. Multimedia Tools and Applications, 2022, , 1-17.	2.6	6
1898	Establishment of Performance Evaluation Model of Highway Environmental Protection Based on Deep Learning. Wireless Communications and Mobile Computing, 2022, 2022, 1-11.	0.8	0
1899	Analysis of Psychological Changes and Intervention Mechanism of Elderly Groups Based on Deep Learning Analysis Technology. Computational Intelligence and Neuroscience, 2022, 2022, 1-8.	1.1	1
1900	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
1901	A improved detection method for lung nodule based on multi-scale 3D convolutional neural network. Concurrency Computation Practice and Experience, 0, , .	1.4	0
1902	Inverse problems in blood flow modeling: A review. International Journal for Numerical Methods in Biomedical Engineering, 2022, 38, e3613.	1.0	6

#	ARTICLE	IF	CITATIONS
1904	A deep ensemble learning method for colorectal polyp classification with optimized network parameters. <i>Applied Intelligence</i> , 2023, 53, 2410-2433.	3.3	20
1906	Measuring inter-individual differences in behavioural types of gilthead seabreams in the laboratory using deep learning. <i>PeerJ</i> , 2022, 10, e13396.	0.9	3
1907	Medical deep learning – A systematic meta-review. <i>Computer Methods and Programs in Biomedicine</i> , 2022, 221, 106874.	2.6	76
1908	SinGAN-Seg: Synthetic training data generation for medical image segmentation. <i>PLoS ONE</i> , 2022, 17, e0267976.	1.1	27
1909	Deep learning in breast imaging. <i>BJR Open</i> , 2022, 4, .	0.4	5
1910	The Desire of Medical Students to Integrate Artificial Intelligence Into Medical Education: An Opinion Article. <i>Frontiers in Digital Health</i> , 2022, 4, .	1.5	7
1911	End-to-End Deep Learning Approach for Perfusion Data: A Proof-of-Concept Study to Classify Core Volume in Stroke CT. <i>Diagnostics</i> , 2022, 12, 1142.	1.3	2
1912	Beyond automatic medical image segmentation – the spectrum between fully manual and fully automatic delineation. <i>Physics in Medicine and Biology</i> , 2022, 67, 12TR01.	1.6	9
1913	Predicting airborne chloride deposition in marine bridge structures using an artificial neural network model. <i>Construction and Building Materials</i> , 2022, 337, 127623.	3.2	6
1914	Effective active learning in digital pathology: A case study in tumor infiltrating lymphocytes. <i>Computer Methods and Programs in Biomedicine</i> , 2022, 220, 106828.	2.6	7
1915	End-to-end multi-task learning approaches for the joint epiretinal membrane segmentation and screening in OCT images. <i>Computerized Medical Imaging and Graphics</i> , 2022, 98, 102068.	3.5	10
1916	COVID-19 prognosis using limited chest X-ray images. <i>Applied Soft Computing Journal</i> , 2022, 122, 108867.	4.1	6
1917	An overview of artificial intelligence techniques for diagnosis of Schizophrenia based on magnetic resonance imaging modalities: Methods, challenges, and future works. <i>Computers in Biology and Medicine</i> , 2022, 146, 105554.	3.9	64
1918	Explainable artificial intelligence (XAI) in deep learning-based medical image analysis. <i>Medical Image Analysis</i> , 2022, 79, 102470.	7.0	256
1919	An enhanced tooth segmentation and numbering according to FDI notation in bitewing radiographs. <i>Computers in Biology and Medicine</i> , 2022, 146, 105547.	3.9	10
1920	Fovea localization by blood vessel vector in abnormal fundus images. <i>Pattern Recognition</i> , 2022, 129, 108711.	5.1	5
1921	ISeeU2: Visually interpretable mortality prediction inside the ICU using deep learning and free-text medical notes. <i>Expert Systems With Applications</i> , 2022, 202, 117190.	4.4	7
1922	DWT-CV: Dense weight transfer-based cross validation strategy for model selection in biomedical data analysis. <i>Future Generation Computer Systems</i> , 2022, 135, 20-29.	4.9	3

#	ARTICLE	IF	CITATIONS
1923	Deep learning approach in ultrasound image segmentation for patients with carotid artery disease. , 2022, , 23-39.		0
1924	Convolutional Neural Network-Based Approach to Detect COVID-19 from Chest X-Ray Images. Lecture Notes in Networks and Systems, 2022, , 231-245.	0.5	13
1925	A Review of Deep Learning Applications in Lung Ultrasound Imaging of COVID-19 Patients. BME Frontiers, 2022, 2022, .	2.2	22
1926	Cardiovascular Risk Stratification in Diabetic Retinopathy via Atherosclerotic Pathway in COVID-19/Non-COVID-19 Frameworks Using Artificial Intelligence Paradigm: A Narrative Review. Diagnostics, 2022, 12, 1234.	1.3	15
1927	A Review on Convolutional Neural Networks for Brain Tumor Segmentation: Methods, Datasets, Libraries, and Future Directions. Irbm, 2022, 43, 521-537.	3.7	14
1928	The Construction of Sports Health Management Model Based on Deep Learning. Applied Bionics and Biomechanics, 2022, 2022, 1-10.	0.5	2
1929	Early diagnosis of Alzheimer's disease based on deep learning: A systematic review. Computers in Biology and Medicine, 2022, 146, 105634.	3.9	29
1930	Prediction of future healthcare expenses of patients from chest radiographs using deep learning: a pilot study. Scientific Reports, 2022, 12, 8344.	1.6	4
1932	Automated Machine Learning for Epileptic Seizure Detection Based on EEG signals. Computers, Materials and Continua, 2022, 73, 1995-2011.	1.5	2
1934	Brain hematoma segmentation based on deep learning and data analysis. ITM Web of Conferences, 2022, 45, 01037.	0.4	0
1935	Prediction of Retinopathy in Diabetic Affected Persons using Deep Learning algorithms. , 2022, , .		1
1936	A stability-enhanced CycleGAN for effective domain transformation of unpaired ultrasound images. Biomedical Signal Processing and Control, 2022, 77, 103831.	3.5	2
1938	An Interpretable Deep Learning Approach for Automatic Diagnosis of Fungal Keratitis and Acanthamoeba Keratitis Based on an Introduced Database of in Vivo Confocal Microscopic Images. SSRN Electronic Journal, 0, , .	0.4	1
1940	DigestPath: A benchmark dataset with challenge review for the pathological detection and segmentation of digestive-system. Medical Image Analysis, 2022, 80, 102485.	7.0	27
1942	Deep Neural Network for Cardiac Magnetic Resonance Image Segmentation. Journal of Imaging, 2022, 8, 149.	1.7	6
1943	Efficient Perineural Invasion Detection of Histopathological Images Using U-Net. Electronics (Switzerland), 2022, 11, 1649.	1.8	2
1944	Hyperspectral Imaging: A Review and Trends towards Medical Imaging. Current Medical Imaging, 2022, 19, 417-427.	0.4	18
1945	Development of a multi-task learning V-Net for pulmonary lobar segmentation on CT and application to diseased lungs. Clinical Radiology, 2022, 77, e620-e627.	0.5	7

#	ARTICLE	IF	CITATIONS
1946	Hyperspectral Data Compression Using Fully Convolutional Autoencoder. Remote Sensing, 2022, 14, 2472.	1.8	8
1947	Epidural anesthesia needle guidance by forward-view endoscopic optical coherence tomography and deep learning. Scientific Reports, 2022, 12, .	1.6	9
1948	An Analysis of New Feature Extraction Methods Based on Machine Learning Methods for Classification Radiological Images. Computational Intelligence and Neuroscience, 2022, 2022, 1-13.	1.1	2
1949	COVLIAS 1.0 Lesion vs. MedSeg: An Artificial Intelligence Framework for Automated Lesion Segmentation in COVID-19 Lung Computed Tomography Scans. Diagnostics, 2022, 12, 1283.	1.3	15
1950	A multi-task learning based approach for efficient breast cancer detection and classification. Expert Systems, 2022, 39, .	2.9	2
1951	All-Optical Phase Recovery: Diffractive Computing for Quantitative Phase Imaging. Advanced Optical Materials, 2022, 10, .	3.6	40
1952	Spatial normalization and quantification approaches of PET imaging for neurological disorders. European Journal of Nuclear Medicine and Molecular Imaging, 2022, 49, 3809-3829.	3.3	5
1953	Fully Automatic Epiretinal Membrane Segmentation in OCT Scans Using Convolutional Networks. Advances in Medical Diagnosis, Treatment, and Care, 2022, , 88-121.	0.1	0
1954	Identifying pathological slices of gastric cancer via deep learning. Journal of the Formosan Medical Association, 2022, 121, 2457-2464.	0.8	3
1955	Recent Machine Learning Progress in Lower Limb Running Biomechanics With Wearable Technology: A Systematic Review. Frontiers in Neurorobotics, 2022, 16, .	1.6	15
1956	Defect Detection and Classification Algorithm of Metal Nanomaterials Based on Deep Learning. Integrated Ferroelectrics, 2022, 226, 277-292.	0.3	3
1958	Data Enhancement for Melanoma Classification. , 2021, , .		0
1959	QHash: An efficient hashing algorithm for low-variance image deduplication. , 2021, , .		0
1960	Toward Robust Histology-Prior Embedding for Endomicroscopy Image Classification. IEEE Transactions on Medical Imaging, 2022, 41, 3242-3252.	5.4	0
1961	Transfer Adaptation Learning: A Decade Survey. IEEE Transactions on Neural Networks and Learning Systems, 2024, 35, 23-44.	7.2	46
1962	An Analysis on Ensemble Learning Optimized Medical Image Classification With Deep Convolutional Neural Networks. IEEE Access, 2022, 10, 66467-66480.	2.6	26
1963	HMRNet: High and Multi-Resolution Network With Bidirectional Feature Calibration for Brain Structure Segmentation in Radiotherapy. IEEE Journal of Biomedical and Health Informatics, 2022, 26, 4519-4529.	3.9	2
1964	Explainable Artificial Intelligence "A New Step towards the Trust in Medical Diagnosis with AI Frameworks: A Review. CMES - Computer Modeling in Engineering and Sciences, 2022, 133, 843-872.	0.8	1

#	ARTICLE	IF	CITATIONS
1965	Big medical data analytics for diagnosis. , 2022, , 111-124.		1
1966	Osteo-Doc: KL-Grading of Osteoarthritis Using Deep-Learning. , 2022, , .		1
1967	A Big Wave of Deep Learning in Medical Imaging - Analysis of Theory and Applications. , 2022, , .		8
1968	AcneGrader: An ensemble pruning of the deep learning base models to grade acne. Skin Research and Technology, 2022, 28, 677-688.	0.8	8
1969	Detection of Wet Road Surfaces from Acoustic Signals using Scalogram and Optimized AlexNet. , 2022, , .		1
1970	Development of a Novel Scar Screening System with Machine Learning. Plastic and Reconstructive Surgery, 2022, 150, 465e-472e.	0.7	6
1971	Wushu Routine Movement and Diagnosis Based on Deep Learning and Symmetric Difference Algorithm. Computational Intelligence and Neuroscience, 2022, 2022, 1-9.	1.1	1
1972	Deep Learning-Based Pathology Image Analysis Enhances Magee Feature Correlation With Oncotype DX Breast Recurrence Score. Frontiers in Medicine, 0, 9, .	1.2	8
1973	Cardiac segmentation on CT Images through shape-aware contour attentions. Computers in Biology and Medicine, 2022, 147, 105782.	3.9	6
1974	Uncertainty-aware convolutional neural network for explainable artificial intelligence-assisted disaster damage assessment. Structural Control and Health Monitoring, 2022, 29, .	1.9	9
1975	Statistical complexity of quantum circuits. Physical Review A, 2022, 105, .	1.0	14
1976	A deep learning based multimodal interaction system for bed ridden and immobile hospital admitted patients: design, development and evaluation. BMC Health Services Research, 2022, 22, .	0.9	4
1977	A contrastive consistency semi-supervised left atrium segmentation model. Computerized Medical Imaging and Graphics, 2022, 99, 102092.	3.5	19
1978	Multisemantic Level Patch Merger Vision Transformer for Diagnosis of Pneumonia. Computational and Mathematical Methods in Medicine, 2022, 2022, 1-17.	0.7	4
1979	An Automated Deep Learning Model for the Cerebellum Segmentation from Fetal Brain Images. BioMed Research International, 2022, 2022, 1-13.	0.9	20
1980	Early Prediction of Lung Cancers Using Deep Saliency Capsule and Pre-Trained Deep Learning Frameworks. Frontiers in Oncology, 0, 12, .	1.3	21
1981	Predicting the outcome of radiotherapy in brain metastasis by integrating the clinical and MRI-based deep learning features. Medical Physics, 2022, 49, 7167-7178.	1.6	11
1982	FSOU-Net: Feature supplement and optimization U-Net for 2D medical image segmentation. Technology and Health Care, 2023, 31, 181-195.	0.5	2

#	ARTICLE	IF	CITATIONS
1983	MallesNet: A multi-object assistance based network for brachial plexus segmentation in ultrasound images. <i>Medical Image Analysis</i> , 2022, 80, 102511.	7.0	12
1984	Pseudo-labeling generative adversarial networks for medical image classification. <i>Computers in Biology and Medicine</i> , 2022, 147, 105729.	3.9	10
1986	UrbanLF: A Comprehensive Light Field Dataset for Semantic Segmentation of Urban Scenes. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2022, 32, 7880-7893.	5.6	67
1987	Review on Deep Learning Techniques for the Diagnosis of Corona Virus Using CT & X-Ray Images. <i>SSRN Electronic Journal</i> , 0, , .	0.4	1
1988	Multimodal Medical Imaging Using Modern Deep Learning Approaches. , 2022, , .		1
1989	A Study of Brain Tumor Segmentation and Classification using Machine and Deep Learning Techniques. , 2022, , .		2
1990	Improved Alzheimer Detection using Image Enhancement Techniques and Transfer Learning. , 2022, , .		1
1991	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
1992	The Application of Successful Physical Education Teaching Mode Integrating Deep Learning in Basketball Teaching. <i>Wireless Communications and Mobile Computing</i> , 2022, 2022, 1-12.	0.8	2
1993	Segmentation and Evaluation of Corneal Nerves and Dendritic Cells From In Vivo Confocal Microscopy Images Using Deep Learning. <i>Translational Vision Science and Technology</i> , 2022, 11, 24.	1.1	7
1994	Implementation of Efficient Teaching Scheme of Human Anatomy and Physiology Based on Multimedia Information Processing Technologies. <i>Security and Communication Networks</i> , 2022, 2022, 1-7.	1.0	1
1995	Improving Clinical Efficiency and Reducing Medical Errors through NLP-enabled Diagnosis of Health Conditions from Transcription Reports. <i>International Journal of Scientific Research in Computer Science Engineering and Information Technology</i> , 2022, , 435-442.	0.2	0
1996	AdvU-Net: Generating Adversarial Example Based on Medical Image and Targeting U-Net Model. <i>Journal of Sensors</i> , 2022, 2022, 1-13.	0.6	5
1997	Optimizing prediction of new-baseline glomerular filtration rate after radical nephrectomy: are algorithms really necessary?. <i>International Urology and Nephrology</i> , 2022, 54, 2537-2545.	0.6	4
1998	Research on Navigation Path Extraction and Obstacle Avoidance Strategy for Pusher Robot in Dairy Farm. <i>Agriculture (Switzerland)</i> , 2022, 12, 1008.	1.4	7
1999	Design of deep learning reactionâ€‘diffusion level set segmentation approach for health care related to automatic kidney stone detection analysis. <i>Multimedia Tools and Applications</i> , 2022, 81, 41807-41849.	2.6	2
2000	Deep Learning-based Inverse Design of the Complete Photonic Band Gap in Two-Dimensional Photonic Crystals.. <i>Current Nanoscience</i> , 2022, 18, .	0.7	0
2001	3D Convolutional Neural Network Framework with Deep Learning for Nuclear Medicine. <i>Scanning</i> , 2022, 2022, 1-9.	0.7	8

#	ARTICLE	IF	CITATIONS
2002	Refined Judgment of Urban Traffic State Based on Machine Learning and Edge Computing. <i>Journal of Advanced Transportation</i> , 2022, 2022, 1-9.	0.9	1
2003	Maintenance and Management Technology of Medical Imaging Equipment Based on Deep Learning. <i>Contrast Media and Molecular Imaging</i> , 2022, 2022, 1-9.	0.4	1
2004	Deep learning in veterinary medicine, an approach based on CNN to detect pulmonary abnormalities from lateral thoracic radiographs in cats. <i>Scientific Reports</i> , 2022, 12, .	1.6	8
2005	CAFS: An Attention-Based Co-Segmentation Semi-Supervised Method for Nasopharyngeal Carcinoma Segmentation. <i>Sensors</i> , 2022, 22, 5053.	2.1	1
2006	Deep learning in cortical surface-based neuroimage analysis: a systematic review. <i>Intelligent Medicine</i> , 2023, 3, 46-58.	1.6	5
2007	Water Level Prediction Model Applying a Long Short-Term Memory (LSTM)â€“Gated Recurrent Unit (GRU) Method for Flood Prediction. <i>Water (Switzerland)</i> , 2022, 14, 2221.	1.2	23
2008	Facility Layout Optimization of Urban Public Sports Services under the Background of Deep Learning. <i>Computational Intelligence and Neuroscience</i> , 2022, 2022, 1-13.	1.1	1
2010	Gene-related Parkinson's disease diagnosis via feature-based multi-branch octave convolution network. <i>Computers in Biology and Medicine</i> , 2022, 148, 105859.	3.9	3
2011	The current role and future directions of imaging in failed back surgery syndrome patients: an educational review. <i>Insights Into Imaging</i> , 2022, 13, .	1.6	5
2012	Application of artificial intelligence techniques for automated detection of myocardial infarction: a review. <i>Physiological Measurement</i> , 2022, 43, 08TR01.	1.2	10
2013	Cardiac MRI segmentation with sparse annotations: Ensembling deep learning uncertainty and shape priors. <i>Medical Image Analysis</i> , 2022, 81, 102532.	7.0	9
2014	A retrospective study of 3D deep learning approach incorporating coordinate information to improve the segmentation of pre- and post-operative abdominal aortic aneurysm. <i>PeerJ Computer Science</i> , 0, 8, e1033.	2.7	1
2015	Deep learning research should be encouraged more and more in different domains of surgery: An open call â€“ Correspondence. <i>International Journal of Surgery</i> , 2022, 104, 106749.	1.1	2
2016	Attribute-aware interpretation learning for thyroid ultrasound diagnosis. <i>Artificial Intelligence in Medicine</i> , 2022, 131, 102344.	3.8	2
2017	Simultaneous vessel segmentation and unenhanced prediction using self-supervised dual-task learning in 3D CTA (SVSUP). <i>Computer Methods and Programs in Biomedicine</i> , 2022, 224, 107001.	2.6	3
2018	An Automatic Staging Method for Early Cervical Cancer on MRI Images: A Pilot Study. , 2022, , .		0
2019	Review of Artificial Intelligence and Machine Learning Technologies: Classification, Restrictions, Opportunities and Challenges. <i>Mathematics</i> , 2022, 10, 2552.	1.1	48
2020	Predicting post-contrast information from contrast agent free cardiac MRI using machine learning: Challenges and methods. <i>Frontiers in Cardiovascular Medicine</i> , 0, 9, .	1.1	3

#	ARTICLE	IF	CITATIONS
2021	Cascaded networks for the embryo classification on microscopic images using the residual external attention. <i>International Journal of Imaging Systems and Technology</i> , 0, , .	2.7	0
2022	Machine Learning for Electrocatalyst and Photocatalyst Design and Discovery. <i>Chemical Reviews</i> , 2022, 122, 13478-13515.	23.0	120
2024	A review on AI-based medical image computing in head and neck surgery. <i>Physics in Medicine and Biology</i> , 2022, 67, 17TR01.	1.6	9
2025	DEEP LEARNING-BASED PREDICTION OF OUTCOMES FOLLOWING NONCOMPLICATED EPIRETINAL MEMBRANE SURGERY. <i>Retina</i> , 2022, 42, 1465-1471.	1.0	4
2026	DeepRebirth: Accelerating Deep Neural Network Execution on Mobile Devices. <i>Proceedings of the AAAI Conference on Artificial Intelligence</i> , 2018, 32, .	3.6	29
2027	DeepPET-3D: A Deep Learning Based 3D-CNN Model for Diagnosis of Alzheimer's Disease Using 18-FDG-PET. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
2028	Fluid: Dataset Abstraction and Elastic Acceleration for Cloud-native Deep Learning Training Jobs. , 2022, , .		23
2029	E-Healthcare System for Disease Detection Based on Medical Image Classification Using CNN. <i>Advances in Electronic Commerce Series</i> , 2022, , 213-230.	0.2	0
2030	End-to-End Deep Learning Architectures Using 3D Neuroimaging Biomarkers for Early Alzheimer's Diagnosis. <i>Mathematics</i> , 2022, 10, 2575.	1.1	3
2031	Automated Precancerous Lesion Screening Using an Instance Segmentation Technique for Improving Accuracy. <i>Sensors</i> , 2022, 22, 5489.	2.1	2
2032	Barriers to artificial intelligence implementation in radiology practice: What the radiologist needs to know. <i>Radiologia</i> , 2022, 64, 324-332.	0.3	3
2033	An Improved Soft-YOLOX for Garbage Quantity Identification. <i>Mathematics</i> , 2022, 10, 2650.	1.1	8
2034	Neurochemical Concentration Prediction Using Deep Learning vs Principal Component Regression in Fast Scan Cyclic Voltammetry: A Comparison Study. <i>ACS Chemical Neuroscience</i> , 2022, 13, 2288-2297.	1.7	5
2035	Convolutional Neural Network Techniques for Brain Tumor Classification (from 2015 to 2022): Review, Challenges, and Future Perspectives. <i>Diagnostics</i> , 2022, 12, 1850.	1.3	48
2036	AugRmixAT: A Data Processing and Training Method for Improving Multiple Robustness and Generalization Performance. , 2022, , .		0
2037	DP-BEGAN: A Generative Model of Differential Privacy Algorithm. , 2022, , .		0
2038	ViSTA: A Novel Network Improving Lung Adenocarcinoma Invasiveness Prediction from Follow-Up CT Series. <i>Cancers</i> , 2022, 14, 3675.	1.7	2
2039	Automatic optical biopsy for colorectal cancer using hyperspectral imaging and artificial neural networks. <i>Surgical Endoscopy and Other Interventional Techniques</i> , 2022, 36, 8549-8559.	1.3	5

#	ARTICLE	IF	CITATIONS
2040	A comparison of deep neural network models for cluster cancer patients through somatic point mutations. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 0, , .	3.3	2
2041	COVID-19 identification in ct images based on deep learning models: a comparative approach. <i>International Journal of Health Sciences</i> , 0, , 1215-1223.	0.0	0
2042	Wound tissue segmentation by computerised image analysis of clinical pressure injury photographs: a pilot study. <i>Journal of Wound Care</i> , 2022, 31, 710-719.	0.5	0
2043	Skill Movement Trajectory Recognition of Freestyle Skiing U-Shaped Field Based on Deep Learning and Multitarget Tracking Algorithm. <i>Computational Intelligence and Neuroscience</i> , 2022, 2022, 1-12.	1.1	3
2044	Identifying plant species in kettle holes using <scp>UAV</scp> images and deep learning techniques. <i>Remote Sensing in Ecology and Conservation</i> , 2023, 9, 1-16.	2.2	2
2045	Deep learning: applications in retinal and optic nerve diseases. <i>Australasian journal of optometry</i> , The, 2023, 106, 466-475.	0.6	3
2046	Efficient and accurate diagnosis of otomycosis using an ensemble deep-learning model. <i>Frontiers in Molecular Biosciences</i> , 0, 9, .	1.6	5
2047	Image-based deep learning identifies glioblastoma risk groups with genomic and transcriptomic heterogeneity: a multi-center study. <i>European Radiology</i> , 2023, 33, 904-914.	2.3	5
2048	Enabling Intelligent IoTs for Histopathology Image Analysis Using Convolutional Neural Networks. <i>Micromachines</i> , 2022, 13, 1364.	1.4	2
2049	Biomechanical Analysis of Volleyball Playersâ€™ Spike Swing Based on Deep Learning. <i>Computational Intelligence and Neuroscience</i> , 2022, 2022, 1-10.	1.1	3
2050	Diagnostic Value of Knee Osteoarthritis Through Self-learning. <i>Lecture Notes in Networks and Systems</i> , 2023, , 239-249.	0.5	3
2051	EPDL: An efficient and privacy-preserving deep learning for crowdsensing. <i>Peer-to-Peer Networking and Applications</i> , 0, , .	2.6	0
2052	A Resource Scheduling Method for Enterprise Management Based on Artificial Intelligence Deep Learning. <i>Mobile Information Systems</i> , 2022, 2022, 1-12.	0.4	0
2053	A Deep Learning Model for Stroke Patientsâ€™ Motor Function Prediction. <i>Applied Bionics and Biomechanics</i> , 2022, 2022, 1-9.	0.5	0
2054	Transformers in medical image analysis. <i>Intelligent Medicine</i> , 2023, 3, 59-78.	1.6	76
2055	Database and AI Diagnostic Tools Improve Understanding of Lung Damage, Correlation of Pulmonary Disease and Brain Damage in COVID-19. <i>Sensors</i> , 2022, 22, 6312.	2.1	5
2056	A spatial attention guided deep learning system for prediction of pathological complete response using breast cancer histopathology images. <i>Bioinformatics</i> , 2022, 38, 4605-4612.	1.8	7
2057	A comprehensive review of methods based on deep learning for diabetes-related foot ulcers. <i>Frontiers in Endocrinology</i> , 0, 13, .	1.5	7

#	ARTICLE	IF	CITATIONS
2058	Development of Novel Residual-Dense-Attention (RDA) U-Net Network Architecture for Hepatocellular Carcinoma Segmentation. <i>Diagnostics</i> , 2022, 12, 1916.	1.3	4
2059	Expression dynamic capture and 3D animation generation method based on deep learning. <i>Neural Computing and Applications</i> , 0, , .	3.2	0
2060	Fully automated mouse echocardiography analysis using deep convolutional neural networks. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2022, 323, H628-H639.	1.5	8
2061	Explainable machine learning for hydrocarbon prospect risking. , 2022, , .		0
2062	Brain tumor MRI images identification and classification based on the recurrent convolutional neural network. <i>Measurement: Sensors</i> , 2022, 24, 100412.	1.3	36
2063	Human Capital Digital Incentive Mechanism Construction Based on Deep Learning. <i>Mathematical Problems in Engineering</i> , 2022, 2022, 1-12.	0.6	0
2064	Deep and handcrafted features from clinical images combined with patient information for skin cancer diagnosis. <i>Chaos, Solitons and Fractals</i> , 2022, 162, 112445.	2.5	1
2065	Deep learning in retinal optical coherence tomography (OCT): A comprehensive survey. <i>Neurocomputing</i> , 2022, 507, 247-264.	3.5	15
2066	Artificial intelligence in science: An emerging general method of invention. <i>Research Policy</i> , 2022, 51, 104604.	3.3	26
2067	Enabling Efficient Training of Convolutional Neural Networks for Histopathology Images. <i>Lecture Notes in Computer Science</i> , 2022, , 533-544.	1.0	1
2069	Diagnosis of Parkinson's disease based on feature fusion on T2 MRI images. <i>International Journal of Intelligent Systems</i> , 2022, 37, 11362-11381.	3.3	2
2070	PPsNet: An improved deep learning model for microsatellite instability high prediction in colorectal cancer from whole slide images. <i>Computer Methods and Programs in Biomedicine</i> , 2022, 225, 107095.	2.6	10
2071	Machine learning in aerodynamic shape optimization. <i>Progress in Aerospace Sciences</i> , 2022, 134, 100849.	6.3	71
2072	Malaria parasite detection using deep learning algorithms based on (CNNs) technique. <i>Computers and Electrical Engineering</i> , 2022, 103, 108316.	3.0	15
2073	Enhancing MR image segmentation with realistic adversarial data augmentation. <i>Medical Image Analysis</i> , 2022, 82, 102597.	7.0	18
2074	Mutual gain adaptive network for segmenting brain stroke lesions. <i>Applied Soft Computing Journal</i> , 2022, 129, 109568.	4.1	6
2075	Visual SLAM for underwater vehicles: A survey. <i>Computer Science Review</i> , 2022, 46, 100510.	10.2	20
2076	IEViT: An enhanced vision transformer architecture for chest X-ray image classification. <i>Computer Methods and Programs in Biomedicine</i> , 2022, 226, 107141.	2.6	16

#	ARTICLE	IF	CITATIONS
2077	A machine learning framework for predicting entrapment efficiency in niosomal particles. <i>International Journal of Pharmaceutics</i> , 2022, 627, 122203.	2.6	6
2078	TransUNet ^{1/4} : Redesigning the skip connection to enhance features in medical image segmentation. <i>Knowledge-Based Systems</i> , 2022, 256, 109859.	4.0	26
2079	Deep CNN for COPD identification by Multi-View snapshot integration of 3D airway tree and lung field. <i>Biomedical Signal Processing and Control</i> , 2023, 79, 104162.	3.5	7
2080	3D Soma Detection in Large-Scale Whole Brain Images via a Two-Stage Neural Network. <i>IEEE Transactions on Medical Imaging</i> , 2023, 42, 148-157.	5.4	6
2081	Online Reflective Learning for Robust Medical Image Segmentation. <i>Lecture Notes in Computer Science</i> , 2022, , 652-662.	1.0	3
2082	Integrating multimodal data through interpretable heterogeneous ensembles. <i>Bioinformatics Advances</i> , 2022, 2, .	0.9	5
2083	Semi-supervised machine learning workflow for analysis of nanowire morphologies from transmission electron microscopy images. , 2022, 1, 816-833.		4
2084	Automated Diagnosis of Vertebral Fractures Using Radiographs and Machine Learning. <i>Lecture Notes in Computer Science</i> , 2022, , 726-738.	1.0	0
2085	iSegFormer: Interactive Segmentation via Transformers with Application to 3D Knee MR Images. <i>Lecture Notes in Computer Science</i> , 2022, , 464-474.	1.0	9
2086	CACTUSS: Common Anatomical CT-US Space for US Examinations. <i>Lecture Notes in Computer Science</i> , 2022, , 492-501.	1.0	4
2087	Contrastive Semi-Supervised Learning for Domain Adaptive Segmentation Across Similar Anatomical Structures. <i>IEEE Transactions on Medical Imaging</i> , 2023, 42, 245-256.	5.4	16
2088	Ultrasound Imaging With a Flexible Probe Based on Element Array Geometry Estimation Using Deep Neural Network. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2022, 69, 3232-3242.	1.7	6
2089	MVCNet: Multiview Contrastive Network for Unsupervised Representation Learning for 3-D CT Lesions. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2024, , 1-15.	7.2	1
2090	A Survey of Wound Image Analysis Using Deep Learning: Classification, Detection, and Segmentation. <i>IEEE Access</i> , 2022, 10, 79502-79515.	2.6	12
2091	Investigating the Predictive Reproducibility of Federated Graph Neural Networks Using Medical Datasets. <i>Lecture Notes in Computer Science</i> , 2022, , 160-171.	1.0	1
2092	Boundary Guided Semantic Learning for Real-Time COVID-19 Lung Infection Segmentation System. <i>IEEE Transactions on Consumer Electronics</i> , 2022, 68, 376-386.	3.0	17
2093	Modality-Collaborative AI Model Ensemble for Lung Cancer Early Diagnosis. <i>Lecture Notes in Computer Science</i> , 2022, , 91-99.	1.0	0
2094	Learning Better Registration to Learn Better Few-Shot Medical Image Segmentation: Authenticity, Diversity, and Robustness. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2024, 35, 2588-2601.	7.2	7

#	ARTICLE	IF	CITATIONS
2095	Flat-Aware Cross-Stage Distilled Framework for Imbalanced Medical Image Classification. Lecture Notes in Computer Science, 2022, , 217-226.	1.0	4
2096	Subtype-Aware Dynamic Unsupervised Domain Adaptation. IEEE Transactions on Neural Networks and Learning Systems, 2024, 35, 2820-2834.	7.2	3
2097	Multiple Instance Learning Using 3D Features for Melanoma Detection. IEEE Access, 2022, 10, 76296-76309.	2.6	6
2098	Learnable DoG Convolutional Filters for Calcification Detection. SSRN Electronic Journal, 0, , .	0.4	0
2099	Brachial Plexus Nerve Trunk Recognition From Ultrasound Images: A Comparative Study of Deep Learning Models. IEEE Access, 2022, 10, 82003-82014.	2.6	6
2100	LIVE: A Local Interpretable model-agnostic Visualizations and Explanations. , 2022, , .		0
2101	BoostMIS: Boosting Medical Image Semi-supervised Learning with Adaptive Pseudo Labeling and Informative Active Annotation. , 2022, , .		28
2102	Cognitive therapy for brain diseases using deep learning models. , 2023, , 171-184.		0
2103	ML-DSVM+: A meta-learning based deep SVM+ for computer-aided diagnosis. Pattern Recognition, 2023, 134, 109076.	5.1	2
2104	Malignancy Suspicious Region Guided Deep Neural Networks for Gastric Ulcer Classification. , 2022, , .		0
2105	Probing the link between the APOE- ϵ 4 allele and whole-brain gray matter using deep learning. , 2022, , .		0
2106	CPNet: A Hybrid Neural Network for Identification of Carcinoma Pathological Slices. , 2022, , .		0
2107	A Deep Multi-Label Segmentation Network For Eosinophilic Esophagitis Whole Slide Biopsy Diagnostics. , 2022, , .		6
2108	ADAN: An Adversarial Domain Adaptation Neural Network for Early Gastric Cancer Prediction. , 2022, , .		1
2109	Differentiation of benign and malignant spinal schwannoma using guided attention inference networks on multi-source MRI: comparison with radiomics method and radiologist-based clinical assessment. Acta Radiologica, 2023, 64, 1184-1193.	0.5	2
2110	A Self-Supervised Purification Mechanism for Adversarial Samples. , 2022, , .		0
2111	Transformer-Based Disease Identification for Small-Scale Imbalanced Capsule Endoscopy Dataset. Electronics (Switzerland), 2022, 11, 2747.	1.8	17
2112	Automated Protocols for MRI Exams—Challenges and Solutions. Journal of Digital Imaging, 2022, 35, 1293-1302.	1.6	2

#	ARTICLE	IF	CITATIONS
2113	An Evaluation of the Prognosticative Value of Hyalinization in the Biological Behaviour of Oral Lesions Using Image Analysis. <i>Asian Pacific Journal of Cancer Prevention</i> , 2022, 23, 2829-2834.	0.5	0
2114	Automated machine learning-based classification of proliferative and non-proliferative diabetic retinopathy using optical coherence tomography angiography vascular density maps. <i>Graefe's Archive for Clinical and Experimental Ophthalmology</i> , 2023, 261, 391-399.	1.0	8
2115	Benchmarking Machine Learning Algorithms for Diagnosis of Renal Cell Carcinoma. <i>Iranian Journal of Radiology</i> , 2022, 19, .	0.1	0
2116	Ensemble neural network model for detecting thyroid eye disease using external photographs. <i>British Journal of Ophthalmology</i> , 2023, 107, 1722-1729.	2.1	7
2117	A novel mechanism to recognize heart disease by optimised deep belief network with SVM classification. <i>Journal of Intelligent and Fuzzy Systems</i> , 2022, , 1-18.	0.8	0
2118	Robustness, Stability, and Fidelity of Explanations for a Deep Skin Cancer Classification Model. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 9545.	1.3	13
2119	Artificial Intelligence in Lung Imaging. <i>Seminars in Respiratory and Critical Care Medicine</i> , 2022, 43, 946-960.	0.8	4
2120	Current Status of Objectification of Four Diagnostic Methods on Constitution Recognition of Chinese Medicine. <i>Chinese Journal of Integrative Medicine</i> , 2022, 28, 1137-1146.	0.7	4
2121	Interpretable Machine Learning with Brain Image and Survival Data. <i>BioMedInformatics</i> , 2022, 2, 492-510.	1.0	8
2122	Brain Tumor Detection using Convolution Neural Network. <i>International Journal of Advanced Research in Science, Communication and Technology</i> , 0, , 299-304.	0.0	0
2123	Deep Learning for Detection of Intracranial Aneurysms from Computed Tomography Angiography Images. <i>Journal of Digital Imaging</i> , 2023, 36, 114-123.	1.6	3
2124	Artificial Intelligence in Orthopedic Radiography Analysis: A Narrative Review. <i>Diagnostics</i> , 2022, 12, 2235.	1.3	10
2125	Precise Quantitative Analysis of Binarized Neural Networks: A BDD-based Approach. <i>ACM Transactions on Software Engineering and Methodology</i> , 2023, 32, 1-51.	4.8	1
2126	Feasibility of Automated Segmentation of Pigmented Choroidal Lesions in OCT Data With Deep Learning. <i>Translational Vision Science and Technology</i> , 2022, 11, 25.	1.1	1
2127	Expert-level detection of pathologies from unannotated chest X-ray images via self-supervised learning. <i>Nature Biomedical Engineering</i> , 2022, 6, 1399-1406.	11.6	53
2128	Evolution of research trends in artificial intelligence for breast cancer diagnosis and prognosis over the past two decades: A bibliometric analysis. <i>Frontiers in Oncology</i> , 0, 12, .	1.3	0
2129	Automated Detection of Epiretinal Membranes in OCT Images Using Deep Learning. <i>Ophthalmic Research</i> , 2023, 66, 238-246.	1.0	5
2130	Building Protection Data Release Planning Based on Multifeature Deep Learning. <i>Scientific Programming</i> , 2022, 2022, 1-13.	0.5	0

#	ARTICLE	IF	CITATIONS
2132	Computed tomography-based deep-learning prediction of lymph node metastasis risk in locally advanced gastric cancer. <i>Frontiers in Oncology</i> , 0, 12, .	1.3	5
2133	Graphitic carbon nitrideâ€“manganese oxide nanoflowers as promising T1 magnetic resonance imaging contrast material. <i>Applied Physics A: Materials Science and Processing</i> , 2022, 128, .	1.1	2
2134	An xception model based on residual attention mechanism for the classification of benign and malignant gastric ulcers. <i>Scientific Reports</i> , 2022, 12, .	1.6	6
2135	Artificial Intelligence in Breast Ultrasound: The Emerging Future of Modern Medicine. <i>Cureus</i> , 2022, , .	0.2	0
2136	FirecovNet: A Novel, Lightweight, and Fast Deep Learning-Based Network for Detecting COVID-19 Patients Using Chest X-rays. <i>Electronics (Switzerland)</i> , 2022, 11, 3068.	1.8	0
2138	A novel scaled-gamma-tanh (SGT) activation function in 3D CNN applied for MRI classification. <i>Scientific Reports</i> , 2022, 12, .	1.6	3
2140	Integrated approach for fully automatic left ventricle segmentation using adaptive iteration based parametric model with deep learning in short axis cardiac MRI. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 0, , .	3.3	0
2141	AI in Health Science: A Perspective. <i>Current Pharmaceutical Biotechnology</i> , 2023, 24, 1149-1163.	0.9	4
2142	SVM on Top of Deep Networks for Covid-19 Detection from Chest X-ray Images. , 2022, 20, 219-225.		3
2143	Temporal deep learning framework for retinopathy prediction in patients with type 1 diabetes. <i>Artificial Intelligence in Medicine</i> , 2022, 133, 102408.	3.8	4
2144	Psychological Motivation of Athletesâ€™ Physical Training Based on Deep Learning Model. <i>International Transactions on Electrical Energy Systems</i> , 2022, 2022, 1-11.	1.2	1
2145	SGFusion: A saliency guided deep-learning framework for pixel-level image fusion. <i>Information Fusion</i> , 2023, 91, 205-214.	11.7	17
2146	Analysis of the Correlation between College Music Education and Public Mental Health Based on Deep Learning. <i>Journal of Environmental and Public Health</i> , 2022, 2022, 1-9.	0.4	2
2147	Evaluation of two semi-supervised learning methods and their combination for automatic classification of bone marrow cells. <i>Scientific Reports</i> , 2022, 12, .	1.6	2
2148	Federated Learning for Resource-Constrained IoT Devices: Panoramas and State of the Art. <i>Adaptation, Learning, and Optimization</i> , 2023, , 7-27.	0.5	11
2149	Multi-layer segmentation of retina OCT images via advanced U-net architecture. <i>Neurocomputing</i> , 2023, 515, 185-200.	3.5	3
2150	Predicting pattern of coronavirus using X-ray and CT scan images. <i>Network Modeling Analysis in Health Informatics and Bioinformatics</i> , 2022, 11, .	1.2	3
2153	A Bagging Strategy-Based Multi-scale Texture GLCM-CNN Model for Differentiating Malignant from Benign Lesions Using Small Pathologically Proven Dataset. <i>Lecture Notes in Computer Science</i> , 2022, , 44-53.	1.0	0

#	ARTICLE	IF	CITATIONS
2154	Comparison of Automatic Prostate Zones Segmentation Models in MRI Images Using U-net-like Architectures. Lecture Notes in Computer Science, 2022, , 282-296.	1.0	0
2155	Brain Imaging Generation with Latent Diffusion Models. Lecture Notes in Computer Science, 2022, , 117-126.	1.0	51
2156	Various Machine Learning Techniques to Diagnose Alzheimer's Disease A Systematic Review. Lecture Notes in Electrical Engineering, 2022, , 557-567.	0.3	1
2157	Generating Scoliotic Computed Tomography Volumes from Finite Element Spine Models. , 2022, , 91-103.		0
2158	A Novel Image Recognition Method for Steel Material. , 2022, , .		0
2159	Assessment of Transcatheter or Surgical Closure of Atrial Septal Defect using Interpretable Deep Keypoint Stadiometry. Research, 2022, 2022, .	2.8	4
2160	Deep Transfer Learning for COVID-19 Detection and Lesion Recognition Using Chest CT Images. Computational and Mathematical Methods in Medicine, 2022, 2022, 1-16.	0.7	3
2161	A domain knowledge enhanced yield based deep learning classifier identifies perineural invasion in oral cavity squamous cell carcinoma. Frontiers in Oncology, 0, 12, .	1.3	4
2162	Contrasting EfficientNet, ViT, and gMLP for COVID-19 Detection in Ultrasound Imagery. Journal of Personalized Medicine, 2022, 12, 1707.	1.1	5
2163	A Novel System for Deep Contour Classifiers Certification Under Filtering Attacks. , 2022, , .		1
2164	Multi-Class Pavement Disease Recognition Using Object Detection and Segmentation. , 2022, , .		0
2165	Artificial intelligence fracture recognition on computed tomography: review of literature and recommendations. European Journal of Trauma and Emergency Surgery, 2023, 49, 681-691.	0.8	5
2166	Breast Cancer Tumor Classification Using a Bag of Deep Multi-Resolution Convolutional Features. Informatics, 2022, 9, 91.	2.4	7
2167	Harnessing artificial intelligence to infer novel spatial biomarkers for the diagnosis of eosinophilic esophagitis. Frontiers in Medicine, 0, 9, .	1.2	7
2168	Automated classification of estrous stage in rodents using deep learning. Scientific Reports, 2022, 12, .	1.6	0
2169	Large-factor Micro-CT super-resolution of bone microstructure. Frontiers in Physics, 0, 10, .	1.0	3
2170	An Improved Detection Algorithm for Ischemic Stroke NCCT Based on YOLOv5. Diagnostics, 2022, 12, 2591.	1.3	1
2171	Estimation of best corrected visual acuity based on deep neural network. Scientific Reports, 2022, 12, .	1.6	2

#	ARTICLE	IF	CITATIONS
2172	Multilevel Modeling of Joint Damage in Rheumatoid Arthritis. <i>Advanced Intelligent Systems</i> , 0, , 2200184.	3.3	0
2173	Deep learning in bladder cancer imaging: A review. <i>Frontiers in Oncology</i> , 0, 12, .	1.3	4
2174	Segmentation of Vestibular Schwannomas on Postoperative Gadolinium-Enhanced T1-Weighted and Noncontrast T2-Weighted Magnetic Resonance Imaging Using Deep Learning. <i>Otology and Neurotology</i> , 2022, 43, 1227-1239.	0.7	2
2175	Defending against adversarial attacks on Covid-19 classifier: A denoiser-based approach. <i>Heliyon</i> , 2022, 8, e11209.	1.4	6
2176	Deep Convolutional Neural Network for Nasopharyngeal Carcinoma Discrimination on MRI by Comparison of Hierarchical and Simple Layered Convolutional Neural Networks. <i>Diagnostics</i> , 2022, 12, 2478.	1.3	7
2177	A Two-Stage Federated Transfer Learning Framework in Medical Images Classification on Limited Data: A COVID-19 Case Study. <i>Lecture Notes in Networks and Systems</i> , 2023, , 198-216.	0.5	5
2178	DEEP LEARNING ALGORITHMS HAVE HIGH ACCURACY FOR AUTOMATED LANDMARK DETECTION ON 2D LATERAL CEPHALOGRAMS. <i>Journal of Evidence-based Dental Practice</i> , 2022, 22, 101798.	0.7	3
2180	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
2181	Scientometric Analysis of Artificial Intelligence (AI) for Geohazard Research. <i>Sensors</i> , 2022, 22, 7814.	2.1	17
2182	A Radiomics Approach Based on Follow-Up CT for Pathological Subtypes Classification of Pulmonary Ground Glass Nodules. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 10587.	1.3	0
2183	Application and Effect Evaluation of Nursing Risk Management in Nursing of Cardiovascular Medicine. <i>Contrast Media and Molecular Imaging</i> , 2022, 2022, 1-10.	0.4	3
2184	Modeling Method of Intelligent Scoring for Solfeggio Training Based on Deep Learning. <i>Mobile Information Systems</i> , 2022, 2022, 1-9.	0.4	0
2185	Deep convolutional neural networks with ensemble learning and transfer learning for automated detection of gastrointestinal diseases. <i>Computers in Biology and Medicine</i> , 2022, 150, 106054.	3.9	29
2186	Topology Optimization-Based Localized Bone Microstructure Reconstruction for Image Resolution Enhancement: Accuracy and Efficiency. <i>Bioengineering</i> , 2022, 9, 644.	1.6	1
2187	A novel combination of corneal confocal microscopy, clinical features and artificial intelligence for evaluation of ocular surface pain. <i>PLoS ONE</i> , 2022, 17, e0277086.	1.1	7
2188	MF-OMKT: Model fusion based on online mutual knowledge transfer for breast cancer histopathological image classification. <i>Artificial Intelligence in Medicine</i> , 2022, 134, 102433.	3.8	5
2189	Making the invisible visible—ultrashort echo time magnetic resonance imaging: Technical developments and applications. <i>Applied Physics Reviews</i> , 2022, 9, .	5.5	15
2190	Residual Attention Deep SVDD for COVID-19 Diagnosis Using CT Scans. <i>Computers, Materials and Continua</i> , 2023, 74, 3333-3350.	1.5	1

#	ARTICLE	IF	CITATIONS
2191	Medical image segmentation using deep semantic-based methods: A review of techniques, applications and emerging trends. <i>Information Fusion</i> , 2023, 90, 316-352.	11.7	30
2192	PFEMed: Few-shot medical image classification using prior guided feature enhancement. <i>Pattern Recognition</i> , 2023, 134, 109108.	5.1	12
2194	PseudoClick: Interactive Image Segmentation with Click Imitation. <i>Lecture Notes in Computer Science</i> , 2022, , 728-745.	1.0	11
2195	Echocardiographic Image Segmentation for Diagnosing Fetal Cardiac Rhabdomyoma During Pregnancy Using Deep Learning. <i>IEEE Access</i> , 2022, 10, 114077-114091.	2.6	2
2196	Deep learning-based classification of infectious keratitis on slit-lamp images. <i>Therapeutic Advances in Chronic Disease</i> , 2022, 13, 204062232211360.	1.1	12
2197	A Knowledge-Guided Framework for Fine-Grained Classification of Liver Lesions Based on Multi-Phase CT Images. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2023, 27, 386-396.	3.9	4
2198	A Self-Attention-Guided 3D Deep Residual Network With Big Transfer to Predict Local Failure in Brain Metastasis After Radiotherapy Using Multi-Channel MRI. <i>IEEE Journal of Translational Engineering in Health and Medicine</i> , 2023, 11, 13-22.	2.2	6
2199	Reconstructing Medical Images Using Generative Adversarial Networks: A Study. <i>Lecture Notes in Electrical Engineering</i> , 2022, , 81-92.	0.3	2
2200	Deep learning model for automated detection of efflorescence and its possible treatment in images of brick facades. <i>Automation in Construction</i> , 2023, 145, 104658.	4.8	6
2201	Understanding and defending against White-box membership inference attack in deep learning. <i>Knowledge-Based Systems</i> , 2023, 259, 110014.	4.0	6
2202	Artificial intelligence in eye care. <i>The Optician</i> , 2018, 2018, 184107-1.	0.0	0
2203	Suicidal Prediction Using Video, Audio, And Text Analysis. , 2022, , .		0
2204	A Machine Learning-Based Approach to Predict Prognosis and Length of Hospital Stay in Adults and Children With Traumatic Brain Injury: Retrospective Cohort Study. <i>Journal of Medical Internet Research</i> , 2022, 24, e41819.	2.1	8
2205	Liver Tumour Segmentation based on ResNet Technique. , 2022, , .		3
2206	MTSE U-Net: an architecture for segmentation, and prediction of fetal brain and gestational age from MRI of brain. <i>Network Modeling Analysis in Health Informatics and Bioinformatics</i> , 2022, 11, .	1.2	12
2207	Application of Artificial Intelligence in Pathology: Trends and Challenges. <i>Diagnostics</i> , 2022, 12, 2794.	1.3	22
2208	Generative adversarial networks with adaptive normalization for synthesizing T2-weighted magnetic resonance images from diffusion-weighted images. <i>Frontiers in Neuroscience</i> , 0, 16, .	1.4	1
2209	The impact of artificial intelligence on radiography as a profession: A narrative review. <i>Journal of Medical Imaging and Radiation Sciences</i> , 2023, 54, 162-166.	0.2	3

#	ARTICLE	IF	CITATIONS
2210	Generalization of Deep Learning in Digital Pathology: Experience in Breast Cancer Metastasis Detection. <i>Cancers</i> , 2022, 14, 5424.	1.7	9
2211	Prediction of gender from longitudinal MRI data via deep learning on adolescent data reveals unique patterns associated with brain structure and change over a two-year period. <i>Journal of Neuroscience Methods</i> , 2023, 384, 109744.	1.3	4
2212	Modern views of machine learning for precision psychiatry. <i>Patterns</i> , 2022, 3, 100602.	3.1	30
2214	Deep feature selection using local search embedded social ski-driver optimization algorithm for breast cancer detection in mammograms. <i>Neural Computing and Applications</i> , 2023, 35, 5479-5499.	3.2	5
2215	Investigating ancient agricultural field systems in Sweden from airborne LIDAR data by using convolutional neural network. <i>Archaeological Prospection</i> , 2023, 30, 209-219.	1.1	5
2216	Editorial: Weakly supervised deep learning-based methods for brain image analysis. <i>Frontiers in Neuroinformatics</i> , 0, 16, .	1.3	0
2217	Real-world data: a brief review of the methods, applications, challenges and opportunities. <i>BMC Medical Research Methodology</i> , 2022, 22, .	1.4	81
2218	Meta Pseudo Labels for Chest X-ray Image Classification. , 2022, , .		0
2219	Automatic ovarian tumors recognition system based on ensemble convolutional neural network with ultrasound imaging. <i>BMC Medical Informatics and Decision Making</i> , 2022, 22, .	1.5	9
2220	An efficient ensemble method for detecting spinal curvature type using deep transfer learning and soft voting classifier. <i>Expert Systems With Applications</i> , 2023, 213, 119290.	4.4	10
2221	Hypergraph-based spiking neural P systems for predicting the overall survival time of glioblastoma patients. <i>Expert Systems With Applications</i> , 2023, 215, 119234.	4.4	3
2222	Detection of COVID-19 Cases from Chest X-Rays using Deep Learning Feature Extractor and Multilevel Voting Classifier. <i>International Journal of Uncertainty, Fuzziness and Knowledge-Based Systems</i> , 2022, 30, 773-793.	0.9	4
2223	An ensemble framework of deep neural networks for colorectal polyp classification. <i>Multimedia Tools and Applications</i> , 2023, 82, 18925-18946.	2.6	3
2224	A method for distinguishing benign and malignant pulmonary nodules based on 3D dual path network aided by K-means clustering analysis. <i>Journal of Zhejiang University: Science B</i> , 2022, 23, 957-967.	1.3	0
2225	Shortcomings and areas for improvement in digital pathology image segmentation challenges. <i>Computerized Medical Imaging and Graphics</i> , 2023, 103, 102155.	3.5	3
2226	Brain Tumor Segmentation Using Partial Depthwise Separable Convolutions. <i>IEEE Access</i> , 2022, 10, 124206-124216.	2.6	6
2227	The automatic evaluation of steno-occlusive changes in time-of-flight magnetic resonance angiography of moyamoya patients using a 3D coordinate attention residual network. <i>Quantitative Imaging in Medicine and Surgery</i> , 2022, .	1.1	1
2228	BowelNet: Joint Semantic-Geometric Ensemble Learning for Bowel Segmentation From Both Partially and Fully Labeled CT Images. <i>IEEE Transactions on Medical Imaging</i> , 2023, 42, 1225-1236.	5.4	1

#	ARTICLE	IF	CITATIONS
2229	A comprehensive machine-learning model applied to MRI to classify germinomas of the pineal region. <i>Computers in Biology and Medicine</i> , 2023, 152, 106366.	3.9	4
2230	Decoding degeneration: the implementation of machine learning for clinical detection of neurodegenerative disorders. <i>Neural Regeneration Research</i> , 2023, 18, 1235.	1.6	3
2231	IoT based optical coherence tomography retinal images classification using OCT Deep Net2. <i>Measurement: Sensors</i> , 2023, 25, 100652.	1.3	1
2232	Diagnostic test accuracy of artificial intelligence-based imaging for lung cancer screening: A systematic review and meta-analysis. <i>Lung Cancer</i> , 2023, 176, 4-13.	0.9	5
2233	Data synthesis and adversarial networks: A review and meta-analysis in cancer imaging. <i>Medical Image Analysis</i> , 2023, 84, 102704.	7.0	9
2234	PAFL: Probabilistic Automaton-based Fault Localization for Recurrent Neural Networks. <i>Information and Software Technology</i> , 2023, 155, 107117.	3.0	4
2235	Nonlinear analysis of shell structures using image processing and machine learning. <i>Advances in Engineering Software</i> , 2023, 176, 103392.	1.8	4
2236	Adaptive weighted curvature-based active contour for ultrasonic and 3T/5T MR image segmentation. <i>Signal Processing</i> , 2023, 205, 108881.	2.1	8
2237	Beyond explaining: Opportunities and challenges of XAI-based model improvement. <i>Information Fusion</i> , 2023, 92, 154-176.	11.7	22
2238	Specific contributions of artificial intelligence to interdisciplinary life science research – exploring and communicating new opportunities. <i>Artificial Intelligence in the Life Sciences</i> , 2023, 3, 100052.	1.6	0
2239	AutoMO-Mixer: An Automated Multi-objective Mixer Model for Balanced, Safe and Robust Prediction in Medicine. <i>Lecture Notes in Computer Science</i> , 2022, , 111-120.	1.0	1
2240	Causality-Inspired Single-Source Domain Generalization for Medical Image Segmentation. <i>IEEE Transactions on Medical Imaging</i> , 2023, 42, 1095-1106.	5.4	23
2241	Data Discernment for Affordable Training in Medical Image Segmentation. <i>IEEE Transactions on Medical Imaging</i> , 2023, 42, 1431-1445.	5.4	1
2242	MSF-Model: Multi-Scale Feature Fusion-Based Domain Adaptive Model for Breast Cancer Classification of Histopathology Images. <i>IEEE Access</i> , 2022, 10, 122530-122547.	2.6	4
2243	Research on Prediction Method of Thyroid-Associated Ophthalmopathy Based on Eyeball Feature Extraction. <i>Software Engineering and Applications</i> , 2022, 11, 1288-1296.	0.0	1
2244	GRA-GCN: dense granule protein prediction in Apicomplexa protozoa through graph convolutional network. <i>IEEE/ACM Transactions on Computational Biology and Bioinformatics</i> , 2022, , 1-9.	1.9	0
2245	Extending the compression range of biomedical images for machine vision analysis. , 2022, , .		0
2246	Advanced Object Detection in Bio-Medical X-Ray Images for Anomaly Detection and Recognition. , 2022, , 1180-1198.		0

#	ARTICLE	IF	CITATIONS
2247	Deep Learning Techniques for Biomedical Image Analysis in Healthcare. , 2022, , 1199-1214.		0
2248	Efficient Net Transfer Learning based Early Prediction of Monkey Pox Lesion. , 2022, , .		0
2249	Combined B-mode and Nakagami Images for Improved Discrimination of Breast Masses using Deep Learning. , 2022, , .		1
2250	Deep Learning Based Model for Alzheimer's Disease Detection Using Brain MRI Images. , 2022, , .		13
2251	Automatic Classification of Diseases From X-Ray Images Using Xception Deep Convolution Neural Networks. Advances in Medical Technologies and Clinical Practice Book Series, 2022, , 176-190.	0.3	0
2252	INVESTIGATION OF POLYPS IN ENDOSCOPY IMAGES BY USING DEEP LEARNING ALGORITHM. EskiÅŸehir Osmangazi Åœeniversitesi MÅ¼hendislik Ve Mimarlık FakÅ¼ltesi Dergisi, 0, , .	0.0	0
2253	Automated Detection of Surgical Implants on Plain Knee Radiographs Using a Deep Learning Algorithm. Medicina (Lithuania), 2022, 58, 1677.	0.8	0
2254	Machine Learning for Diagnosis of Systemic Lupus Erythematosus: A Systematic Review and Meta-Analysis. Computational Intelligence and Neuroscience, 2022, 2022, 1-14.	1.1	6
2255	Multiclass skin lesion classification in dermoscopic images using swin transformer model. Neural Computing and Applications, 2023, 35, 6713-6722.	3.2	14
2256	Fingerprints as Predictors of Schizophrenia: A Deep Learning Study. Schizophrenia Bulletin, 2023, 49, 738-745.	2.3	1
2257	Adversarial counterfactual augmentation: application in Alzheimerâ€™s disease classification. Frontiers in Radiology, 0, 2, .	1.2	3
2258	The scientific progress and prospects of artificial intelligence in digestive endoscopy: A comprehensive bibliometric analysis. Medicine (United States), 2022, 101, e31931.	0.4	3
2259	Artificial Intelligence-Assisted Ultrasound Diagnosis on Infant Developmental Dysplasia of the Hip Under Constrained Computational Resources. Journal of Ultrasound in Medicine, 0, , .	0.8	1
2260	Retinal age gap as a predictive biomarker of stroke risk. BMC Medicine, 2022, 20, .	2.3	13
2261	The Capacity of Artificial Intelligence in COVID-19 Response: A Review in Context of COVID-19 Screening and Diagnosis. Diagnostics, 2022, 12, 2943.	1.3	2
2262	Iterative Convolutional Encoder-Decoder Network with Multi-Scale Context Learning for Liver Segmentation. Applied Artificial Intelligence, 2022, 36, .	2.0	1
2263	Survival rate prediction of nasopharyngeal carcinoma patients based on MRI and gene expression using a deep neural network. Cancer Science, 2023, 114, 1596-1605.	1.7	2
2264	Study of a deep learning-based method for improving the spectral resolution of the spectral scanning hyperspectral imaging system via synthetic spectral image data. Journal Physics D: Applied Physics, 2023, 56, 054005.	1.3	1

#	ARTICLE	IF	CITATIONS
2265	Interpretation of multi-task clearance models from molecular images supported by experimental design. <i>Artificial Intelligence in the Life Sciences</i> , 2022, 2, 100048.	1.6	2
2266	An IoT-Based Framework and Ensemble Optimized Deep Maxout Network Model for Breast Cancer Classification. <i>Electronics (Switzerland)</i> , 2022, 11, 4137.	1.8	7
2267	Segmentation Effect on Lungs X-Ray Image Classification Using Convolution Neural Network. <i>Journal of Physics: Conference Series</i> , 2022, 2392, 012024.	0.3	0
2268	Attri-VAE: Attribute-based interpretable representations of medical images with variational autoencoders. <i>Computerized Medical Imaging and Graphics</i> , 2022, , 102158.	3.5	2
2270	Few-Shot Object Detection Based on Adaptive Attention Mechanism and Large-Margin Softmax. <i>AATCC Journal of Research</i> , 0, , 247234442211366.	0.3	0
2271	Combining modified hyper learning binary dragonfly algorithm and deep learning for <scp>Blâ€RADS</scp> classification of breast masses in mammograms. <i>Expert Systems</i> , 0, , .	2.9	0
2272	Editorial: Innovative applications with artificial intelligence methods in neuroimaging data analysis. <i>Frontiers in Human Neuroscience</i> , 0, 16, .	1.0	0
2273	BUS-Net: Breast Tumour Detection Network for Ultrasound Images Using Bi-directional ConvLSTM and Dense Residual Connections. <i>Journal of Digital Imaging</i> , 2023, 36, 627-646.	1.6	1
2274	Machine-learning based investigation of prognostic indicators for oncological outcome of pancreatic ductal adenocarcinoma. <i>Frontiers in Oncology</i> , 0, 12, .	1.3	3
2275	Automated quantitative assessment of pediatric blunt hepatic trauma by deep learning-based CT volumetry. <i>European Journal of Medical Research</i> , 2022, 27, .	0.9	1
2276	The Role of Radiomics and AI Technologies in the Segmentation, Detection, and Management of Hepatocellular Carcinoma. <i>Cancers</i> , 2022, 14, 6123.	1.7	5
2277	Deep learning and computer vision techniques for microcirculation analysis: A review. <i>Patterns</i> , 2023, 4, 100641.	3.1	3
2278	Eleven quick tips for data cleaning and feature engineering. <i>PLoS Computational Biology</i> , 2022, 18, e1010718.	1.5	13
2279	Accurate detection for dental implant and peri-implant tissue by transfer learning of faster R-CNN: a diagnostic accuracy study. <i>BMC Oral Health</i> , 2022, 22, .	0.8	3
2280	Cyber attack detection with QR code images using light deep learning models. <i>Computers and Security</i> , 2022, , 103065.	4.0	3
2281	Deep Convolutional Neural Network for Detection and Prediction of Waxy Corn Seed Viability Using Hyperspectral Reflectance Imaging. <i>Mathematical and Computational Applications</i> , 2022, 27, 109.	0.7	0
2282	Smart Visualization of Medical Images as a Tool in the Function of Education in Neuroradiology. <i>Diagnostics</i> , 2022, 12, 3208.	1.3	0
2283	Explainable AI: A review of applications to neuroimaging data. <i>Frontiers in Neuroscience</i> , 0, 16, .	1.4	9

#	ARTICLE	IF	CITATIONS
2284	Applicability of multidimensional convolutional neural networks on automated detection of diverse focal liver lesions in multiphase CT images. <i>Medical Physics</i> , 2023, 50, 2872-2883.	1.6	1
2285	Economics of Artificial Intelligence in Healthcare: Diagnosis vs. Treatment. <i>Healthcare (Switzerland)</i> , 2022, 10, 2493.	1.0	29
2286	Application of artificial intelligence models for detecting the pterygium that requires surgical treatment based on anterior segment images. <i>Frontiers in Neuroscience</i> , 0, 16, .	1.4	0
2287	Machine learning and deep learning approach for medical image analysis: diagnosis to detection. <i>Multimedia Tools and Applications</i> , 2023, 82, 26731-26769.	2.6	30
2288	Fractal, recurrent, and dense U-Net architectures with EfficientNet encoder for medical image segmentation. <i>Journal of Medical Imaging</i> , 2022, 9, .	0.8	3
2289	Classification of Pulmonary Damage Stages Caused by COVID-19 Disease from CT Scans via Transfer Learning. <i>Bioengineering</i> , 2023, 10, 6.	1.6	0
2290	Optimal Transshipment Route Planning Method Based on Deep Learning for Multimodal Transport Scenarios. <i>Electronics (Switzerland)</i> , 2023, 12, 417.	1.8	3
2291	AMNet: Adaptive multi-level network for deformable registration of 3D brain MR images. <i>Medical Image Analysis</i> , 2023, 85, 102740.	7.0	5
2292	Deep learning-based bacterial genus identification. <i>Journal of Advanced Veterinary and Animal Research</i> , 2022, 9, 573.	0.5	1
2293	Numbering teeth in panoramic images: A novel method based on deep learning and heuristic algorithm. <i>Engineering Science and Technology, an International Journal</i> , 2023, 37, 101316.	2.0	2
2294	Mulvnet: Nucleus Segmentation and Classification of Pathology Images Using the HoVer-Net and Multiple Filter Units. <i>Electronics (Switzerland)</i> , 2023, 12, 355.	1.8	1
2295	Energy- efficient model –Inception V3 based on deep convolutional neural network–using cloud platform for detection of COVID-19 infected patients. <i>Epidemiologic Methods</i> , 2023, 12, .	0.8	2
2296	A novel cascade machine learning pipeline for Alzheimer’s disease identification and prediction. <i>Frontiers in Aging Neuroscience</i> , 0, 14, .	1.7	3
2297	Transfer Learning-Based Semi-Supervised Generative Adversarial Network for Malaria Classification. <i>Computers, Materials and Continua</i> , 2023, 74, 6335-6349.	1.5	1
2298	Democratization of deep learning for segmenting cartilage from MRIs of human knees: Application to data from the osteoarthritis initiative. <i>Journal of Orthopaedic Research</i> , 0, , .	1.2	1
2299	Bridging structural MRI with cognitive function for individual level classification of early psychosis via deep learning. <i>Frontiers in Psychiatry</i> , 0, 13, .	1.3	1
2300	Reinforcement learning in medical image analysis: Concepts, applications, challenges, and future directions. <i>Journal of Applied Clinical Medical Physics</i> , 2023, 24, .	0.8	10
2301	A New Look at Cancer Immunotherapy via Artificial Intelligence. , 2023, , 1-18.		0

#	ARTICLE	IF	CITATIONS
2302	Early prediction of COVID-19 outcome using artificial intelligence techniques and only five laboratory indices. <i>Clinical Immunology</i> , 2023, 246, 109218.	1.4	15
2303	Encoder-decoder semantic segmentation models for pressure wound images. <i>Imaging Science Journal</i> , 2022, 70, 75-86.	0.2	1
2304	Multi-task deep learning for medical image computing and analysis: A review. <i>Computers in Biology and Medicine</i> , 2023, 153, 106496.	3.9	18
2305	The top 100 most cited articles on artificial intelligence in radiology: a bibliometric analysis. <i>Clinical Radiology</i> , 2023, 78, 99-106.	0.5	5
2306	Developing a deep learning model to predict epilepsy recurrence in patients with focal cortical dysplasia type III. <i>Quantitative Imaging in Medicine and Surgery</i> , 2023, 13, 999-1008.	1.1	1
2307	Safety-aware robotic steering of a flexible endoscope for nasotracheal intubation. <i>Biomedical Signal Processing and Control</i> , 2023, 82, 104504.	3.5	4
2308	Spiking neural P system with synaptic vesicles and applications in multiple brain metastasis segmentation. <i>Information Sciences</i> , 2023, 625, 620-638.	4.0	2
2309	Attention-based and micro designed EfficientNetB2 for diagnosis of Alzheimer's disease. <i>Biomedical Signal Processing and Control</i> , 2023, 82, 104571.	3.5	4
2310	Mapping nonlinear brain dynamics by phase space embedding with fMRI data. <i>Biomedical Signal Processing and Control</i> , 2023, 82, 104521.	3.5	1
2311	Improved Prediction of MGMT Methylation Status in Glioblastoma using a Deep Attention Network. , 2022, , .		0
2312	An Advanced Lung Disease Diagnosis Using Transfer Learning Method for High-Resolution Computed Tomography (HRCT) Images. <i>Advances in Medical Technologies and Clinical Practice Book Series</i> , 2022, , 119-130.	0.3	5
2313	Region Extraction with Deep Cascaded Neural Architecture for Preserving Image Intensities. , 2022, , .		0
2314	Application of Deep Learning to Retinal-Image-Based Oculomics for Evaluation of Systemic Health: A Review. <i>Journal of Clinical Medicine</i> , 2023, 12, 152.	1.0	6
2315	Breast Cancer Classification from Mammogram Images Using Extreme Learning Machine-Based DenseNet121 Model. <i>Journal of Sensors</i> , 2022, 2022, 1-12.	0.6	5
2316	Diagnosing Clinical Diseases using an Edge-Enabled Deep Learning Technology. , 2022, , .		2
2317	Systems Biology Approaches to the Genetic Complexity of Epilepsy. , 2022, , 5-18.		0
2318	Cancer Identification in Enteric Nervous System Preclinical Images Using Handcrafted and Automatic Learned Features. <i>Neural Processing Letters</i> , 0, , .	2.0	0
2319	TP-NET: Training Privacy-Preserving Deep Neural Networks under Side-Channel Power Attacks. , 2022, , .		1

#	ARTICLE	IF	CITATIONS
2320	Differential Diagnosis of DCIS and Fibroadenoma Based on Ultrasound Images: a Difference-Based Self-Supervised Approach. <i>Interdisciplinary Sciences, Computational Life Sciences</i> , 0, , .	2.2	0
2321	Artificial Intelligence in Deep Brain Stimulation: A Brief Review. , 2023, 2, .		0
2322	A scaling up approach: a research agenda for medical imaging analysis with applications in deep learning. <i>Journal of Experimental and Theoretical Artificial Intelligence</i> , 0, , 1-55.	1.8	1
2323	Hypergraph-Based Numerical Neural-Like P Systems for Medical Image Segmentation. <i>IEEE Transactions on Parallel and Distributed Systems</i> , 2023, 34, 1202-1214.	4.0	1
2324	MRI-based two-stage deep learning model for automatic detection and segmentation of brain metastases. <i>European Radiology</i> , 2023, 33, 3521-3531.	2.3	6
2325	EmbryosFormer: Deformable Transformer and Collaborative Encoding-Decoding for Embryos Stage Development Classification. , 2023, , .		1
2326	Prospective Real-Time Validation of a Lung Ultrasound Deep Learning Model in the ICU. <i>Critical Care Medicine</i> , 2023, 51, 301-309.	0.4	1
2327	Deep learning outperforms kidney organoid experts. <i>Kidney Research and Clinical Practice</i> , 2023, 42, 1-3.	0.9	0
2328	MRI-based brain tumor detection using convolutional deep learning methods and chosen machine learning techniques. <i>BMC Medical Informatics and Decision Making</i> , 2023, 23, .	1.5	50
2329	Generalizable transfer learning of automated tumor segmentation from cervical cancers toward a universal model for uterine malignancies in diffusion-weighted MRI. <i>Insights Into Imaging</i> , 2023, 14, .	1.6	3
2330	Deep learning basics. , 2023, , 11-23.		0
2331	Artificial intelligence in cardiovascular imaging. , 2023, , 51-72.		0
2332	Classification of Liver Fibrosis From Heterogeneous Ultrasound Image. <i>IEEE Access</i> , 2023, 11, 9920-9930.	2.6	4
2333	Artificial intelligence (AI) enhanced nanomotors and active matter. , 2023, , 113-144.		1
2334	The use of machine learning and deep learning techniques to assess proprioceptive impairments of the upper limb after stroke. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2023, 20, .	2.4	5
2335	Computer-Aided Diagnosis System for Blood Diseases Using EfficientNet-B3 Based on a Dynamic Learning Algorithm. <i>Diagnostics</i> , 2023, 13, 404.	1.3	8
2336	Crop Yield Prediction using Machine Learning and Deep Learning Techniques. <i>Procedia Computer Science</i> , 2023, 218, 406-417.	1.2	18
2337	A deep learning based classifier framework for automated nuclear atypia scoring of breast carcinoma. <i>Engineering Applications of Artificial Intelligence</i> , 2023, 120, 105949.	4.3	1

#	ARTICLE	IF	CITATIONS
2338	NMNet: Learning Multi-level semantic information from scale extension domain for improved medical image segmentation. Biomedical Signal Processing and Control, 2023, 83, 104651.	3.5	3
2339	Mutation Testing based Safety Testing and Improving on DNNs. , 2022, , .		0
2340	R2F-UGCGAN: a regional fusion factor-based union gradient and contrast generative adversarial network for infrared and visible image fusion. Journal of Modern Optics, 2023, 70, 52-68.	0.6	2
2341	Introduction: Emerging Technologies and Innovative Applications of AI in DRR. , 2023, , 1-6.		0
2342	Automatic measurement of anterior chamber angle parameters in AS-OCT images using deep learning. Biomedical Optics Express, 2023, 14, 1378.	1.5	3
2343	Classification and prediction of spinal disease based on the SMOTE-RFE-XGBoost model. PeerJ Computer Science, 0, 9, e1280.	2.7	2
2344	Characterization of Mediastinal Bulky Lymphomas with FDG-PET-Based Radiomics and Machine Learning Techniques. Cancers, 2023, 15, 1931.	1.7	4
2345	On the Analyses of Medical Images Using Traditional Machine Learning Techniques and Convolutional Neural Networks. Archives of Computational Methods in Engineering, 2023, 30, 3173-3233.	6.0	16
2346	Automatic grading of patients with a unilateral facial paralysis based on the Sunnybrook Facial Grading System - A deep learning study based on a convolutional neural network. American Journal of Otolaryngology - Head and Neck Medicine and Surgery, 2023, 44, 103810.	0.6	1
2347	Transformer guided progressive fusion network for 3D pancreas and pancreatic mass segmentation. Medical Image Analysis, 2023, 86, 102801.	7.0	3
2348	Clinical nursing and postoperative prediction of gastrointestinal cancer based on CT deep learning model. Journal of Radiation Research and Applied Sciences, 2023, 16, 100561.	0.7	1
2349	Online visual monitoring method for liquid rocket engine nozzle welding based on a multi-task deep learning model. Journal of Manufacturing Systems, 2023, 68, 1-11.	7.6	8
2350	Automated detection of scaphoid fractures using deep neural networks in radiographs. Engineering Applications of Artificial Intelligence, 2023, 122, 106165.	4.3	3
2351	EfficientSkinDis: An EfficientNet-based classification model for a large manually curated dataset of 31 skin diseases. Biomedical Signal Processing and Control, 2023, 85, 104869.	3.5	5
2352	Multi-site diagnostic classification of Autism spectrum disorder using adversarial deep learning on resting-state fMRI. Biomedical Signal Processing and Control, 2023, 85, 104892.	3.5	2
2353	Curriculum classification network based on margin balancing multi-loss and ensemble learning. Future Generation Computer Systems, 2023, 145, 150-163.	4.9	3
2354	MTMC-AUR2CNet: Multi-textural multi-class attention recurrent residual convolutional neural network for COVID-19 classification using chest X-ray images. Biomedical Signal Processing and Control, 2023, 85, 104857.	3.5	1
2355	Sophisticated deep learning with on-chip optical diffractive tensor processing. Photonics Research, 2023, 11, 1125.	3.4	4

#	ARTICLE	IF	CITATIONS
2356	PyMIC: A deep learning toolkit for annotation-efficient medical image segmentation. Computer Methods and Programs in Biomedicine, 2023, 231, 107398.	2.6	10
2357	Evaluating the transferability of machine-learned force fields for material property modeling. Computer Physics Communications, 2023, 288, 108723.	3.0	1
2359	MedMNIST v2 - A large-scale lightweight benchmark for 2D and 3D biomedical image classification. Scientific Data, 2023, 10, .	2.4	83
2360	3D Cross-Pseudo Supervision (3D-CPS): A Semi-supervised nnU-Net Architecture for Abdominal Organ Segmentation. Lecture Notes in Computer Science, 2022, , 87-100.	1.0	2
2361	Integrative System of Deep Classifiers Certification: Case of Convolutional Attacks. Lecture Notes in Computer Science, 2022, , 99-121.	1.0	0
2362	High precision tracking analysis of cell position and motion fields using 3D U-net network models. Computers in Biology and Medicine, 2023, 154, 106577.	3.9	2
2363	Swin-TCNet: A vision transformer-based method for automated chromosomal object detection. , 2022, , .		1
2364	Prediction of Visual Impairment in Epiretinal Membrane and Feature Analysis: A Deep Learning Approach Using Optical Coherence Tomography. Asia-Pacific Journal of Ophthalmology, 2023, 12, 21-28.	1.3	0
2365	A Wrapped Approach Using Unlabeled Data for Diabetic Retinopathy Diagnosis. Applied Sciences (Switzerland), 2023, 13, 1901.	1.3	2
2367	Classification and analysis of Alzheimer's Disease using Deep Learning methods on MRI and PET. , 2022, , .		0
2368	GATE: Graph CCA for Temporal Self-Supervised Learning for Label-Efficient fMRI Analysis. IEEE Transactions on Medical Imaging, 2023, 42, 391-402.	5.4	4
2369	Automated localization of the medial clavicular epiphyseal cartilages using an object detection network: a step towards deep learning-based forensic age assessment. International Journal of Legal Medicine, 2023, 137, 733-742.	1.2	2
2370	COVID-19 diagnosis prediction using classical-to-quantum ensemble model with transfer learning for CT scan images. Imaging Science Journal, 2021, 69, 319-333.	0.2	0
2371	Lung Diseases Detection Using Various Deep Learning Algorithms. Journal of Healthcare Engineering, 2023, 2023, 1-13.	1.1	8
2372	Monkeypox Detection Using CNN with Transfer Learning. Sensors, 2023, 23, 1783.	2.1	29
2373	Improving the robustness of adversarial attacks using an affine-invariant gradient estimator. Computer Vision and Image Understanding, 2023, 229, 103647.	3.0	2
2374	Deep-Learning-Based Automatic Segmentation of Parotid Gland on Computed Tomography Images. Diagnostics, 2023, 13, 581.	1.3	2
2375	Cervical Spine Fracture Detection Using Pytorch. , 2022, , .		1

#	ARTICLE	IF	CITATIONS
2376	Deep learning-based morphological feature analysis and the prognostic association study in colon adenocarcinoma histopathological images. <i>Frontiers in Oncology</i> , 0, 13, .	1.3	5
2377	Detecting multi-class kidney abnormalities using Deep learning. , 2023, , .		2
2378	An end-to-end medical image fusion network based on Swin-transformer. <i>Microprocessors and Microsystems</i> , 2023, 98, 104781.	1.8	3
2379	FootSeg: Automatic Anatomical Segmentation of Foot Bones from Weight-Bearing Cone Beam CT Scans. , 2022, , .		0
2380	Segmentation of multiple Organsâ€¢Risk associated with brain tumors based on coarseâ€¢fine stratified networks. <i>Medical Physics</i> , 2023, 50, 4430-4442.	1.6	1
2381	Hidden and Face-like Object Detection using Deep Learning Techniques - An Empirical Study. , 2022, , .		0
2383	A novel optimization of hybrid feature selection algorithms for image classification technique using RBFNN and MFO. , 0, , .		4
2384	Robustness Fine-Tuning Deep Learning Model for Cancers Diagnosis Based on Histopathology Image Analysis. <i>Diagnostics</i> , 2023, 13, 699.	1.3	5
2385	Machine learning for detection and classification of oral potentially malignant disorders: A conceptual review. <i>Journal of Oral Pathology and Medicine</i> , 2023, 52, 197-205.	1.4	7
2386	Transformer Encoder Model for Sequential Prediction of Student Performance Based on Their Log Activities. <i>IEEE Access</i> , 2023, 11, 18960-18971.	2.6	4
2387	A <scp>CNN</scp> transfer learningâ€¢based approach for segmentation and classification of brain stroke from <scp>noncontrast CT</scp> images. <i>International Journal of Imaging Systems and Technology</i> , 2023, 33, 1335-1352.	2.7	6
2388	BRCA1 interactors, RAD50 and BRIP1, as prognostic markers for triple-negative breast cancer severity. <i>Frontiers in Genetics</i> , 0, 14, .	1.1	2
2389	Deep learning for video game genre classification. <i>Multimedia Tools and Applications</i> , 2023, 82, 21085-21099.	2.6	1
2390	Computer assisted diagnosis of Alzheimerâ€™s disease using statistical likelihood-ratio test. <i>PLoS ONE</i> , 2023, 18, e0279574.	1.1	1
2391	Application of artificial intelligence in predicting lymph node metastasis in breast cancer. <i>Frontiers in Radiology</i> , 0, 3, .	1.2	4
2392	EMDS-7: Environmental microorganism image dataset seventh version for multiple object detection evaluation. <i>Frontiers in Microbiology</i> , 0, 14, .	1.5	4
2393	3D EdgeSegNET: a deep neural network framework for simultaneous edge detection and segmentation of medical images. <i>Signal, Image and Video Processing</i> , 2023, 17, 2981-2989.	1.7	1
2394	Shape Prior is Not All You Need: Discovering Balance Between Texture andâ€¢Shape Bias inâ€¢CNN. <i>Lecture Notes in Computer Science</i> , 2023, , 491-506.	1.0	0

#	ARTICLE	IF	CITATIONS
2395	Computerized Diagnosis of Liver Tumors From CT Scans Using a Deep Neural Network Approach. IEEE Journal of Biomedical and Health Informatics, 2023, 27, 2456-2464.	3.9	7
2396	A Survey of Class Activation Mapping for the Interpretability of Convolution Neural Networks. Lecture Notes in Electrical Engineering, 2023, , 399-407.	0.3	1
2397	Image Reconstruction in Dynamic Inverse Problems with Temporal Models. , 2023, , 1707-1737.		0
2398	Development of Multimodal Fusion Technique for Medical Images. , 2022, , .		0
2399	DeepHeartCT: A fully automatic artificial intelligence hybrid framework based on convolutional neural network and multi-atlas segmentation for multi-structure cardiac computed tomography angiography image segmentation. Frontiers in Artificial Intelligence, 0, 5, .	2.0	1
2400	Efficient U-Net Architecture with Multiple Encoders and Attention Mechanism Decoders for Brain Tumor Segmentation. Diagnostics, 2023, 13, 872.	1.3	7
2401	Analysis of Knee Osteoarthritis Grading Using Deep Learning. Lecture Notes in Networks and Systems, 2023, , 435-443.	0.5	1
2402	Predictive Models for Health Deterioration: Understanding Disease Pathways for Personalized Medicine. Annual Review of Biomedical Engineering, 2023, 25, .	5.7	1
2403	DensePPMUNet-a: A Robust Deep Learning Network for Segmenting Water Bodies From Aerial Images. IEEE Transactions on Geoscience and Remote Sensing, 2023, 61, 1-11.	2.7	5
2404	Relational reasoning network for anatomical landmarking. Journal of Medical Imaging, 2023, 10, .	0.8	2
2405	Vascular wall motion detection models based on long short-term memory in plane-wave-based ultrasound imaging. Physics in Medicine and Biology, 2023, 68, 075005.	1.6	1
2406	GLH: From Global to Local Gradient Attacks with High-Frequency Momentum Guidance for Object Detection. Entropy, 2023, 25, 461.	1.1	4
2407	Deep SVDD and Transfer Learning for COVID-19 Diagnosis Using CT Images. Computational Intelligence and Neuroscience, 2023, 2023, 1-16.	1.1	1
2408	The role of artificial intelligence based on PET/CT radiomics in NSCLC: Disease management, opportunities, and challenges. Frontiers in Oncology, 0, 13, .	1.3	4
2410	Deep convolutional neural networks using an active learning strategy for cervical cancer screening and diagnosis. Frontiers in Bioinformatics, 0, 3, .	1.0	3
2413	Early Pregnancy Fetal Facial Ultrasound Standard Plane-Assisted Recognition Algorithm. Journal of Ultrasound in Medicine, 2023, 42, 1859-1880.	0.8	1
2414	Quantification of Uncertainty and Its Applications to Complex Domain for Autonomous Vehicles Perception System. IEEE Transactions on Instrumentation and Measurement, 2023, 72, 1-17.	2.4	6
2415	The application of machine learning in early diagnosis of osteoarthritis: a narrative review. Therapeutic Advances in Musculoskeletal Disease, 2023, 15, 1759720X2311581.	1.2	4

#	ARTICLE	IF	CITATIONS
2416	Detection and classification of COVID-19 by using faster R-CNN and mask R-CNN on CT images. <i>Neural Computing and Applications</i> , 2023, 35, 13597-13611.	3.2	10
2417	Endoscopic Image Classification Based on Explainable Deep Learning. <i>Sensors</i> , 2023, 23, 3176.	2.1	8
2418	MR-Class: A Python Tool for Brain MR Image Classification Utilizing One-vs-All DCNNs to Deal with the Open-Set Recognition Problem. <i>Cancers</i> , 2023, 15, 1820.	1.7	0
2419	An efficient transfer learning based cross model classification (TLBCM) technique for the prediction of breast cancer. <i>PeerJ Computer Science</i> , 0, 9, e1281.	2.7	4
2420	A Two-Branch Neural Network for Short-Axis PET Image Quality Enhancement. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2023, 27, 2864-2875.	3.9	5
2421	Lung Cancer Detection using Image Processing. , 2022, , .		5
2422	CT-based identification of pediatric non-Wilms tumors using convolutional neural networks at a single center. <i>Pediatric Research</i> , 2023, 94, 1104-1110.	1.1	1
2423	Visual deep learning of unprocessed neuroimaging characterises dementia subtypes and generalises across non-stereotypic samples. <i>EBioMedicine</i> , 2023, 90, 104540.	2.7	9
2424	Differentiating malignant and benign eyelid lesions using deep learning. <i>Scientific Reports</i> , 2023, 13, .	1.6	1
2425	Classification of crop leaf diseases using image to image translation with deep-dream. <i>Multimedia Tools and Applications</i> , 2023, 82, 35585-35619.	2.6	2
2427	BAF-Net: Bidirectional attention fusion network via CNN and transformers for the pepper leaf segmentation. <i>Frontiers in Plant Science</i> , 0, 14, .	1.7	2
2428	Active learning with deep autoencoders for seismic facies interpretation. <i>Geophysics</i> , 2023, 88, IM77-IM86.	1.4	1
2429	NFF: A Novel Nested Feature Fusion Method for Efficient and Early Detection of Colorectal Carcinoma. <i>Lecture Notes in Networks and Systems</i> , 2023, , 297-309.	0.5	1
2431	Evaluating semi-supervision methods for medical image segmentation: applications in cardiac magnetic resonance imaging. <i>Journal of Medical Imaging</i> , 2023, 10, .	0.8	1
2432	PLIPC-GANs: A Novel Image Conversion Model using Modified CycleGANs in Healthcare. <i>Recent Advances in Computer Science and Communications</i> , 2023, 16, .	0.5	0
2433	Biomedical Waste Incinerator Degradation Investigation Supported by Deep Learning. , 2022, , .		0
2434	Simultaneous Super-Resolution and Classification of Lung Disease Scans. <i>Diagnostics</i> , 2023, 13, 1319.	1.3	6
2435	Improved Three-Dimensional Reconstruction of Patient-Specific Carotid Bifurcation Using Deep Learning Based Segmentation of Ultrasound Images. <i>Lecture Notes in Networks and Systems</i> , 2023, , 223-248.	0.5	0

#	ARTICLE	IF	CITATIONS
2436	Synthetic CT generation from CBCT using double-chain-CycleGAN. Computers in Biology and Medicine, 2023, 161, 106889.	3.9	5
2437	Analysis of Dental X-Ray Images for the Diagnosis and Classification of Oral Conditions. , 2023, , .		0
2438	Optimizing Remote Sensing Image Scene Classification Through Brain-Inspired Feature Bias Estimation and Semantic Representation Analysis. IEEE Access, 2023, 11, 34764-34771.	2.6	0
2439	Automatic assessment of mammographic density using a deep transfer learning method. Journal of Medical Imaging, 2023, 10, .	0.8	1
2440	Super-Large-Scale Data Analysis for Electronic Health Record with ECML. Fractals, 0, , .	1.8	0
2441	Transformers in medical imaging: A survey. Medical Image Analysis, 2023, 88, 102802.	7.0	152
2442	Hyperspectral Imaging in Brain Tumor Surgeryâ€”Evidence of Machine Learning-Based Performance. World Neurosurgery, 2023, 175, e614-e635.	0.7	5
2443	Ethical Data Collection for Medical Image Analysis: a Structured Approach. Asian Bioethics Review, 2024, 16, 95-108.	0.9	2
2444	The Feasibility and Performance of Total Hip Replacement Prediction Deep Learning Algorithm with Real World Data. Bioengineering, 2023, 10, 458.	1.6	1
2445	Deep Learning and Image Processing Techniques applied in Panoramic X-Ray Images for Teeth Detection and Dental Problem Classification. , 2022, , .		1
2446	Self-supervised learning for gastritis detection with gastric X-ray images. International Journal of Computer Assisted Radiology and Surgery, 0, , .	1.7	1
2447	Predicting Colorectal Cancer Using Machine and Deep Learning Algorithms: Challenges and Opportunities. Big Data and Cognitive Computing, 2023, 7, 74.	2.9	6
2448	Point of care parenchymal volume analyses to estimate split renal function and predict functional outcomes after radical nephrectomy. Scientific Reports, 2023, 13, .	1.6	2
2449	Deep convolutional neural network for hippocampus segmentation with boundary region refinement. Medical and Biological Engineering and Computing, 0, , .	1.6	0
2450	Fuzzy Logic Based Deep Learning Approach (FRNN) for Autism Spectrum Disorder Detection. , 2023, , .		1
2452	Identification of Dental Implant Systems Using a Large-Scale Multicenter Data Set. Journal of Dental Research, 2023, 102, 727-733.	2.5	7
2455	Applications of Machine Learning in Healthcare with a Case Study of Lung Cancer Diagnosis Through Deep Learning Approach. Advanced Technologies and Societal Change, 2023, , 95-104.	0.8	1
2465	COVID-19 Detection by Using Handcrafted Features Extracted From Chest CT-Scan Images. , 2023, , .		0

#	ARTICLE	IF	CITATIONS
2466	Introduction to deep learning and diagnosis in medicine. , 2023, , 1-40.		0
2469	Post-COVID Chest Disease Monitoring using self adaptive Convolutional Neural Network. , 2023, , .		1
2470	Intra-Oral Periapical Dental Classification using Convolution Neural Network. , 2023, , .		0
2471	Simultaneous PET and MR Imaging of the Human Brain. , 2023, , 1165-1201.		0
2473	Detection of Dental Issues Using the Transfer Learning Methods. Lecture Notes in Networks and Systems, 2023, , 367-379.	0.5	0
2475	Fetal Brain Component Segmentation Using 2-Way Ensemble U-Net. Lecture Notes in Networks and Systems, 2023, , 367-382.	0.5	5
2477	Ensemble deep neural models for automated abnormality detection and classification in precision care applications. , 2023, , 95-110.		1
2480	A Study of the Neuro Learning Model to Diagnosis of the (COVID-19). Lecture Notes in Networks and Systems, 2023, , 703-712.	0.5	0
2482	Predictive Analytics for Advance Healthcare Cardio Systems. Studies in Computational Intelligence, 2023, , 187-219.	0.7	0
2485	Machine Learning for Medical Image Analysis: A Survey. Lecture Notes in Networks and Systems, 2023, , 148-164.	0.5	1
2493	Noble Approach to Locate Brain Tumor using Deep Convolution Technique. , 2023, , .		2
2497	Classification of Tumor Cell Using Naïve Convolutional Neural Network Model. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2023, , 167-176.	0.2	0
2499	Infection Segmentation from COVID-19 Chest CT Scans with Dilated CBAM U-Net. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2023, , 137-151.	0.2	2
2525	Diabetic Retinopathy Prediction Based on Transfer Learning and Ensemble Voting. Lecture Notes in Networks and Systems, 2023, , 929-937.	0.5	1
2527	Lung Cancer Detection Using Deep Learning Techniques. Advances in Computational Intelligence and Robotics Book Series, 2023, , 143-168.	0.4	0
2528	Detection of Lung Tumor using an efficient Quadratic Discriminant Analysis Model. , 2023, , .		0
2544	Brain Tumor Detection and Classification from MRI Images Using Cascaded Deep Neural Networks. Lecture Notes in Electrical Engineering, 2023, , 301-311.	0.3	1
2545	Explainable Artificial Intelligence (XAI) with IoHT for Smart Healthcare: A Review. Internet of Things, 2023, , 1-24.	1.3	0

#	ARTICLE	IF	CITATIONS
2547	Scientometric analysis of ICT-assisted intelligent control systems response to COVID-19 pandemic. <i>Neural Computing and Applications</i> , 2023, 35, 18829-18849.	3.2	4
2556	Expert-Agnostic Ultrasound Image Quality Assessment using Deep Variational Clustering. , 2023, , .		0
2562	A convolutional neural network model for T-stage prediction of rectal cancer using CT images. , 2023, , .		0
2565	J-Net:Convolutional Neural Network based on Grey Binary Wolf Optimization Model for Classification of Skin Lesion. , 2023, , .		0
2570	Efficient CNN based detection of diabetic retinopathy. <i>AIP Conference Proceedings</i> , 2023, , .	0.3	0
2573	A survey on detection of COVID 19 with the assist of machine learning (ML), deep learning (DL) and artificial intelligence (AI) approaches. <i>AIP Conference Proceedings</i> , 2023, , .	0.3	0
2577	OCT Image Synthesis through Deep Generative Models. , 2023, , .		0
2595	DU-DANet: Efficient 3D Automatic Brain Tumor Segmentation Based on Dual Attention. <i>Lecture Notes in Computer Science</i> , 2023, , 791-802.	1.0	0
2596	DBL-MPE: Deep Broad Learning for Prediction of Response to Neo-adjuvant Chemotherapy Using MRI-Based Multi-angle Maximal Enhancement Projection in Breast Cancer. <i>Lecture Notes in Computer Science</i> , 2023, , 300-311.	1.0	0
2600	GAN-based Image-to-Image Translation of Fundus Photography: Topcon to Eidon. , 2023, , .		0
2607	Survey on Explainable AI: From Approaches, Limitations and Applications Aspects. <i>Human-centric Intelligent Systems</i> , 2023, 3, 161-188.	2.2	5
2616	PiXelNet: A DL-Based method for Diagnosing Lung Cancer using the Histopathological images. , 2022, , .		0
2617	Enhancing Colorectal Cancer Histological Image Classification Using Transfer Learning and ResNet50 CNN Model. , 2023, , .		1
2618	Artificial intelligence in health care. , 2023, , 3-17.		0
2624	Editorial: Advanced deep learning approaches for medical neuroimaging data with limitation. <i>Frontiers in Computational Neuroscience</i> , 0, 17, .	1.2	0
2625	SCU-Net: A Shape-Supervised Contextual-Fusion U-Net for the Dilated Biliary Tree Segmentation. , 2023, , .		0
2644	Machine Learning Approaches for Stem Cells. <i>Current Stem Cell Reports</i> , 2023, 9, 43-56.	0.7	1
2647	Classification of coma etiology using convolutional neural networks and long-short term memory networks. , 2023, , .		0

#	ARTICLE	IF	CITATIONS
2649	Backdoor Attack on Deep Neural Networks in Perception Domain. , 2023, , .		0
2650	A Framework for Identifying Diabetic Retinopathy Based on patch attention and lesion location. , 2023, , .		0
2653	PEFAT: Boosting Semi-Supervised Medical Image Classification via Pseudo-Loss Estimation and Feature Adversarial Training. , 2023, , .		1
2654	Learning Covariance-Based Multi-Scale Representation of Neuroimaging Measures for Alzheimer Classification. , 2023, , .		0
2656	Successive Subspace Learning for Cardiac Disease Classification with Two-Phase Deformation Fields from Cine MRI. , 2023, , .		0
2657	Region and Spatial Aware Anomaly Detection for Fundus Images. , 2023, , .		0
2667	Transfer Learning-Based Encoder-Decoder Model for Skin Lesion Segmentation. Communications in Computer and Information Science, 2023, , 117-128.	0.4	0
2669	Extensive Review on the Role of Machine Learning for Multifactorial Genetic Disorders Prediction. Archives of Computational Methods in Engineering, 2024, 31, 623-640.	6.0	2
2670	Lung Nodule Segmentation Based on Complementary Context-Aware Networks. , 2023, , .		0
2672	Detection of Pulmonary Disorders with CNN model using Knowledge Distillation technique. , 2023, , .		0
2673	Empirical Study of Attention-Based Models for Automatic Classification of Gastrointestinal Endoscopy Images. Lecture Notes in Computer Science, 2023, , 98-108.	1.0	0
2677	CFAB: An Online Data Augmentation to Alleviate the Spuriousness of Classification on Medical Ultrasound Images. Lecture Notes in Computer Science, 2023, , 91-101.	1.0	0
2678	Preprocessing of Medical Images using Deep Learning: A Comprehensive Review. , 2023, , .		1
2688	A Style Transfer-Based Augmentation Framework for Improving Segmentation and Classification Performance Across Different Sources in Ultrasound Images. Lecture Notes in Computer Science, 2023, , 44-53.	1.0	0
2689	Introduction: Emerging Technologies and Innovative Applications of AI in DRR. , 2023, , 471-476.		0
2690	Synthetic Augmentation with Large-Scale Unconditional Pre-training. Lecture Notes in Computer Science, 2023, , 754-764.	1.0	0
2691	Topology-Preserving Automatic Labeling of Coronary Arteries via Anatomy-Aware Connection Classifier. Lecture Notes in Computer Science, 2023, , 759-769.	1.0	0
2692	Robust T-Loss for Medical Image Segmentation. Lecture Notes in Computer Science, 2023, , 714-724.	1.0	1

#	ARTICLE	IF	CITATIONS
2693	Anatomical-Aware Point-Voxel Network for Couinaud Segmentation in Liver CT. Lecture Notes in Computer Science, 2023, , 465-474.	1.0	0
2694	Rectifying Noisy Labels with Sequential Prior: Multi-scale Temporal Feature Affinity Learning for Robust Video Segmentation. Lecture Notes in Computer Science, 2023, , 90-100.	1.0	0
2695	Multi-task Learning for Hierarchically-Structured Images: Study on Echocardiogram View Classification. Lecture Notes in Computer Science, 2023, , 185-194.	1.0	0
2696	Machine-Learning for Static and Dynamic Electronic Structure Theory. Challenges and Advances in Computational Chemistry and Physics, 2023, , 113-160.	0.6	0
2701	Template-Based Federated Multiview Domain Alignment for Predicting Heterogeneous Brain Graph Evolution Trajectories from Baseline. Lecture Notes in Computer Science, 2023, , 14-24.	1.0	0
2708	Unsupervised Anomaly Detection in Medical Images Using Masked Diffusion Model. Lecture Notes in Computer Science, 2024, , 372-381.	1.0	3
2710	PE-MED: Prompt Enhancement for Interactive Medical Image Segmentation. Lecture Notes in Computer Science, 2024, , 257-266.	1.0	0
2713	Application of Machine Learning for Image Processing in the Healthcare Sector. Advances in Medical Technologies and Clinical Practice Book Series, 2023, , 60-75.	0.3	3
2724	Radiological artificial intelligence - predicting personalized immunotherapy outcomes in lung cancer. Npj Precision Oncology, 2023, 7, .	2.3	1
2737	The Role of Machine Learning in Big Data Analytics: Current Practices and Challenges. Transactions on Computational Science and Computational Intelligence, 2024, , 47-74.	0.3	0
2739	Application of Machine Learning Algorithms for Pneumonia Detection and Classification. , 2023, , .		0
2740	Multimodal Deep Learning Approaches to Breast Tumor Characterization using Ultrasound B-Mode and Nakagami Parametric Images. , 2023, , .		0
2741	Introducing CWDCMFE-MBRC Technique for Breast Cancer Detection: A Comparative Survey of Novel Approaches. , 2023, , .		0
2748	A Self-Supervised Transformer-Based Model for Early Recurrence Prediction of HCC with Multimodal MRI. , 2023, , .		0
2752	Active Learning Methodology. SpringerBriefs in Applied Sciences and Technology, 2023, , 31-44.	0.2	0
2753	Two-Stream nnU-Net: A Novel Architecture for Precise Tumor Segmentation in Medical Imaging. , 2023, , .		0
2756	Automated Diagnosis Model for Glaucoma Detection: A Deep Learning Feature Fusion and LS-SVM based Approach. , 2023, , .		0
2758	Using Deep Learning for Classification of Lung Cancer on CT Images in Ardabil Province : Classification of Lung Cancer using Xception. , 2023, , .		0

#	ARTICLE	IF	CITATIONS
2760	Road Surface Segmentation and Detection Under Extreme Weather Conditions Based on Mask-RCNN. , 2023, , .		0
2761	Artificial Intelligence for Anomaly Detection in IoMTs. , 2023, , .		0
2762	Deep learning routes to thyroid ultrasound image segmentation: A review. AIP Conference Proceedings, 2023, , .	0.3	0
2765	Ovarian Cancer Detection in CT Scan Images Using Transfer Learning. , 2023, , .		0
2767	Enhancement Techniques on Deep Learning-based Mammography Classification for Breast Cancer Detection. , 2023, , .		0
2771	Predicting Consumer Preferences by the Deformation Threshold of Product Appearance. , 0, , .		0
2776	Rethinking of 2D/3D Medical Image Segmentation Based On Classical Unet. , 2023, , .		0
2779	DeepTD: Diversity-Guided Deep Neural Network Test Generation. Lecture Notes in Computer Science, 2024, , 419-433.	1.0	0
2780	Machine Learning in Invasive and Noninvasive Coronary Angiography. Current Atherosclerosis Reports, 0, , .	2.0	0
2787	Marine Snow Removal Benchmarking Dataset. , 2023, , .		0
2788	Between Generating Noise and Generating Images: Noise in the Correct Frequency Improves the Quality of Synthetic Histopathology Images for Digital Pathology. , 2023, , .		0
2789	Bioinformatics, Digital Pathology, and Computational Pathology for Surgical Pathologists. , 2023, , 69-89.		0
2790	Deep Learning Techniques for 3D-Volumetric Segmentation of Biomedical Images. Studies in Computational Intelligence, 2023, , 1-41.	0.7	0
2792	Client-Adaptive Cross-Model Reconstruction Network for Modality-Incomplete Multimodal Federated Learning. , 2023, , .		0
2802	A Survey on Decentralization and Virtualization of Medical Trials: An approach through Ensemble learning models and Convolutional Neural Networks. , 2023, , .		0
2808	Knowledge Distillation of Attention and Residual U-Net: Transfer from Deep to Shallow Models for Medical Image Classification. Lecture Notes in Computer Science, 2024, , 162-173.	1.0	0
2809	Interactive Image Segmentation with Cross-Modality Vision Transformers. , 2023, , .		2
2810	Studying the Impact of Augmentations on Medical Confidence Calibration. , 2023, , .		0

#	ARTICLE	IF	CITATIONS
2811	Aster: Encoding Data Augmentation Relations into Seed Test Suites for Robustness Assessment and Fuzzing of Data-Augmented Deep Learning Models. , 2023, , .		0
2812	The remote sensing image segmentation of land cover based on multi-scale attention features. , 2023, , .		0
2815	Validation of Automatic Diabetic Retinopathy Screening and Diagnosis via Deep Neural Networks on Multi-modal Retinal Fundus Image Datasets. , 2023, , .		0
2821	Three-dimensional scanning for breast plastic and reconstructive surgery: An updated review. European Journal of Plastic Surgery, 2024, 47, .	0.3	0
2823	Ultrasound Speckle Filtering Using Deep Learning. IFMBE Proceedings, 2024, , 283-289.	0.2	0
2824	Detecting Lung Nodules Based on Deep Learning with Automatic Segmentation. , 2023, , .		0
2825	A Method for Identifying Meat Quality Based on CNN-SVM. Lecture Notes in Electrical Engineering, 2024, , 440-448.	0.3	0
2835	MoreauGrad: Sparse and Robust Interpretation of Neural Networks via Moreau Envelope. , 2023, , .		0
2836	SimpleClick: Interactive Image Segmentation with Simple Vision Transformers. , 2023, , .		0
2843	Uncertainty-Aware Ensemble Learning Models for Out-of-Distribution Medical Imaging Analysis. , 2023, , .		0
2844	Accurately Identifying Muscle-Invasive Bladder Cancer from MRI via Weakly Supervised Learning. , 2023, , .		0
2845	Unsupervised Domain Adaptation by Cross-Prototype Contrastive Learning for Medical Image Segmentation. , 2023, , .		0
2846	Enhancing Longitudinal Medical Image Segmentation through Spatial-temporal Fusion. , 2023, , .		0
2847	Deep learning-based medical image registration. , 2024, , 337-356.		0
2849	Exploring Transfer Learning approaches for thorax disease diagnosis. , 2023, , .		0
2851	MRI-GAN: Generative Adversarial Network for Brain Segmentation. Lecture Notes in Computer Science, 2024, , 246-256.	1.0	0
2853	ECA-RetinaNet: A Novel Self-Attention RetinaNet for Environmental Microorganism Image Object Detection. , 2023, , .		0
2854	5G and IoT for Intelligent Healthcare: AI and Machine Learning Approaches A Review. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2024, , 107-123.	0.2	0

#	ARTICLE	IF	CITATIONS
2859	Feature Importance Estimation Using Gradient Based Method for Multimodal Fused Neural Networks. , 2022, , .		0
2862	M ² CF-Net: A Multi-Resolution and Multi-Scale Cross Fusion Network for Segmenting Pathology Lesion of the Focal Lymphocytic Sialadenitis. , 2023, , .		0
2863	Discovery of Disease Evolution by Graph Curvature. , 2023, , .		0
2868	Few Shot Learning for Medical Imaging: A Comparative Analysis of Methodologies and Formal Mathematical Framework. , 2023, , 69-90.		2
2869	FgKF: Fine-Grained Knowledge Fusion for Radiology Report Generation. Communications in Computer and Information Science, 2024, , 238-253.	0.4	0
2873	Deep learning-based PET image denoising and reconstruction: a review. Radiological Physics and Technology, 2024, 17, 24-46.	1.0	0
2875	Deep learning generative adversarial network model for automated detection of diabetic retinopathy. AIP Conference Proceedings, 2024, , .	0.3	0
2879	Challenges and Opportunities in Integrating Machine Learning with Medical Imaging: A Comprehensive Review. , 2023, , .		0
2882	Advanced Diagnostics With Artificial Intelligence and Machine Learning in the Healthcare Sector. Advances in Medical Diagnosis, Treatment, and Care, 2024, , 47-81.	0.1	0
2885	A Comprehensive Survey of Deep Learning Approaches in Neurodegenerative Disease Diagnosis and Prediction. Advances in Medical Diagnosis, Treatment, and Care, 2024, , 73-90.	0.1	0
2887	Deep Learning Techniques for Alzheimer's Disease Detection. Advances in Medical Diagnosis, Treatment, and Care, 2024, , 91-111.	0.1	0
2892	Learnable Image Transformations for Privacy Enhanced Deep Neural Networks. , 2023, , .		0
2899	Dilation and Erosion for Left Atrium Scar Segmentation. Lecture Notes in Networks and Systems, 2024, , 467-473.	0.5	0
2916	Accelerating Image Analysis Research with Active Learning Techniques in Genetic Programming. Genetic and Evolutionary Computation, 2024, , 45-64.	1.0	0
2922	Artificial intelligence in diagnostic and predictive pathology. , 2024, , 81-90.		0
2924	A Lesion Feature Engineering Technique Based on Gaussian Mixture Model to Detect Cervical Cancer. Lecture Notes in Networks and Systems, 2024, , 63-75.	0.5	0
2925	Classification of Process Pipework Vibration Using Machine Learning. Lecture Notes in Mechanical Engineering, 2024, , 85-91.	0.3	0
2926	Robust Neural Architecture Search Using Differential Evolution for Medical Images. Lecture Notes in Computer Science, 2024, , 163-179.	1.0	0

#	ARTICLE	IF	CITATIONS
2927	Medical image segmentation and classification using an algorithm of deep learning: U-net. AIP Conference Proceedings, 2024, , .	0.3	0
2929	Artificial Intelligence in Medical Imaging by Machine Learning and Deep Learning. Advances in Medical Technologies and Clinical Practice Book Series, 2024, , 121-159.	0.3	0
2934	A Predictive Deep Learning Ensemble-Based Approach for Advanced Cancer Classification. Communications in Computer and Information Science, 2024, , 335-346.	0.4	0