

Yu-Dong Zhang

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

408
papers

12,355
citations

62
h-index

94
g-index

468
ext. papers

16,264
ext. citations

3.4
avg, IF

7.47
L-index

#	Paper	IF	Citations
408	Binary PSO with mutation operator for feature selection using decision tree applied to spam detection. <i>Knowledge-Based Systems</i> , 2014 , 64, 22-31	7.3	285
407	A Comprehensive Survey on Particle Swarm Optimization Algorithm and Its Applications. <i>Mathematical Problems in Engineering</i> , 2015 , 2015, 1-38	1.1	285
406	Stock market prediction of S&P 500 via combination of improved BCO approach and BP neural network. <i>Expert Systems With Applications</i> , 2009 , 36, 8849-8854	7.8	256
405	A hybrid method for MRI brain image classification. <i>Expert Systems With Applications</i> , 2011 , 38, 10049-10053	9.3	220
404	The epigenetic modifier EZH2 controls melanoma growth and metastasis through silencing of distinct tumour suppressors. <i>Nature Communications</i> , 2015 , 6, 6051	17.4	211
403	Introduction of Key Problems in Long-Distance Learning and Training. <i>Mobile Networks and Applications</i> , 2019 , 24, 1-4	2.9	195
402	Classification of fruits using computer vision and a multiclass support vector machine. <i>Sensors</i> , 2012 , 12, 12489-505	3.8	187
401	Optimal Multi-Level Thresholding Based on Maximum Tsallis Entropy via an Artificial Bee Colony Approach. <i>Entropy</i> , 2011 , 13, 841-859	2.8	178
400	Image based fruit category classification by 13-layer deep convolutional neural network and data augmentation. <i>Multimedia Tools and Applications</i> , 2019 , 78, 3613-3632	2.5	177
399	Preclinical Diagnosis of Magnetic Resonance (MR) Brain Images via Discrete Wavelet Packet Transform with Tsallis Entropy and Generalized Eigenvalue Proximal Support Vector Machine (GEPSVM). <i>Entropy</i> , 2015 , 17, 1795-1813	2.8	176
398	AN MR BRAIN IMAGES CLASSIFIER VIA PRINCIPAL COMPONENT ANALYSIS AND KERNEL SUPPORT VECTOR MACHINE. <i>Progress in Electromagnetics Research</i> , 2012 , 130, 369-388	3.8	171
397	Fruit classification using computer vision and feedforward neural network. <i>Journal of Food Engineering</i> , 2014 , 143, 167-177	6	169
396	DIALLEL-SAS05: A Comprehensive Program for Griffing's and GardnerEberhart Analyses. <i>Agronomy Journal</i> , 2005 , 97, 1097-1106	2.2	165
395	Pathological brain detection based on AlexNet and transfer learning. <i>Journal of Computational Science</i> , 2019 , 30, 41-47	3.4	153
394	Facial Emotion Recognition Based on Biorthogonal Wavelet Entropy, Fuzzy Support Vector Machine, and Stratified Cross Validation. <i>IEEE Access</i> , 2016 , 4, 8375-8385	3.5	148
393	Detection of subjects and brain regions related to Alzheimer's disease using 3D MRI scans based on eigenbrain and machine learning. <i>Frontiers in Computational Neuroscience</i> , 2015 , 9, 66	3.5	134
392	Deep-learning framework to detect lung abnormality [A study with chest X-Ray and lung CT scan images. <i>Pattern Recognition Letters</i> , 2020 , 129, 271-278	4.7	128

391	Comparison of machine learning methods for stationary wavelet entropy-based multiple sclerosis detection: decision tree, k-nearest neighbors, and support vector machine. <i>Simulation</i> , 2016 , 92, 861-871 ^{1,2}	11.2	119
390	Curve-Like Structure Extraction Using Minimal Path Propagation With Backtracking. <i>IEEE Transactions on Image Processing</i> , 2016 , 25, 988-1003	8.7	118
389	Feed-forward neural network optimized by hybridization of PSO and ABC for abnormal brain detection. <i>International Journal of Imaging Systems and Technology</i> , 2015 , 25, 153-164	2.5	118
388	Detection of Alzheimer's disease and mild cognitive impairment based on structural volumetric MR images using 3D-DWT and WTA-KSVM trained by PSOTVAC. <i>Biomedical Signal Processing and Control</i> , 2015 , 21, 58-73	4.9	117
387	Multiple sclerosis identification by convolutional neural network with dropout and parametric ReLU. <i>Journal of Computational Science</i> , 2018 , 28, 1-10	3.4	115
386	Covid-19 classification by FGCNet with deep feature fusion from graph convolutional network and convolutional neural network. <i>Information Fusion</i> , 2021 , 67, 208-229	16.7	115
385	Fruit Classification by Wavelet-Entropy and Feedforward Neural Network Trained by Fitness-Scaled Chaotic ABC and Biogeography-Based Optimization. <i>Entropy</i> , 2015 , 17, 5711-5728	2.8	114
384	Automated classification of brain images using wavelet-energy and biogeography-based optimization. <i>Multimedia Tools and Applications</i> , 2016 , 75, 15601-15617	2.5	113
383	MAGNETIC RESONANCE BRAIN IMAGE CLASSIFICATION BY AN IMPROVED ARTIFICIAL BEE COLONY ALGORITHM. <i>Progress in Electromagnetics Research</i> , 2011 , 116, 65-79	3.8	113
382	CLASSIFICATION OF ALZHEIMER DISEASE BASED ON STRUCTURAL MAGNETIC RESONANCE IMAGING BY KERNEL SUPPORT VECTOR MACHINE DECISION TREE. <i>Progress in Electromagnetics Research</i> , 2014 , 144, 171-184	3.8	109
381	Identification of Green, Oolong and Black Teas in China via Wavelet Packet Entropy and Fuzzy Support Vector Machine. <i>Entropy</i> , 2015 , 17, 6663-6682	2.8	104
380	DIALLEL-SAS: A SAS Program for Griffing's Diallel Analyses. <i>Agronomy Journal</i> , 1997 , 89, 176-182	2.2	103
379	Mitochondrial dysfunction as a neurobiological subtype of autism spectrum disorder: evidence from brain imaging. <i>JAMA Psychiatry</i> , 2014 , 71, 665-71	14.5	101
378	Yield Stability of Maize Hybrids Evaluated in Multi-Environment Trials in Yunnan, China. <i>Agronomy Journal</i> , 2007 , 99, 220-228	2.2	97
377	Intelligent facial emotion recognition based on stationary wavelet entropy and Jaya algorithm. <i>Neurocomputing</i> , 2018 , 272, 668-676	5.4	95
376	Alcoholism identification via convolutional neural network based on parametric ReLU, dropout, and batch normalization. <i>Neural Computing and Applications</i> , 2020 , 32, 665-680	4.8	90
375	Magnetic Resonance Brain Image Classification via Stationary Wavelet Transform and Generalized Eigenvalue Proximal Support Vector Machine. <i>Journal of Medical Imaging and Health Informatics</i> , 2015 , 5, 1395-1403	1.2	88
374	Multivariate Approach for Alzheimer's Disease Detection Using Stationary Wavelet Entropy and Predator-Prey Particle Swarm Optimization. <i>Journal of Alzheimer's Disease</i> , 2018 , 65, 855-869	4.3	87

373	Alcoholism Detection by Data Augmentation and Convolutional Neural Network with Stochastic Pooling. <i>Journal of Medical Systems</i> , 2017 , 42, 2	5.1	86
372	Polarimetric synthetic aperture radar image segmentation by convolutional neural network using graphical processing units. <i>Journal of Real-Time Image Processing</i> , 2018 , 15, 631-642	1.9	85
371	Advances in multimodal data fusion in neuroimaging: Overview, challenges, and novel orientation. <i>Information Fusion</i> , 2020 , 64, 149-187	16.7	85
370	Abnormal breast identification by nine-layer convolutional neural network with parametric rectified linear unit and rank-based stochastic pooling. <i>Journal of Computational Science</i> , 2018 , 27, 57-68 ³⁻⁴	3.4	84
369	On the Construction of Data Aggregation Tree With Maximizing Lifetime in Large-Scale Wireless Sensor Networks. <i>IEEE Sensors Journal</i> , 2016 , 16, 7433-7440	4	82
368	A NOVEL METHOD FOR MAGNETIC RESONANCE BRAIN IMAGE CLASSIFICATION BASED ON ADAPTIVE CHAOTIC PSO. <i>Progress in Electromagnetics Research</i> , 2010 , 109, 325-343	3.8	82
367	Magnetic resonance brain image classification based on weighted-type fractional Fourier transform and nonparallel support vector machine. <i>International Journal of Imaging Systems and Technology</i> , 2015 , 25, 317-327	2.5	81
366	Crop classification by forward neural network with adaptive chaotic particle swarm optimization. <i>Sensors</i> , 2011 , 11, 4721-43	3.8	81
365	Single slice based detection for Alzheimer's disease via wavelet entropy and multilayer perceptron trained by biogeography-based optimization. <i>Multimedia Tools and Applications</i> , 2018 , 77, 10393-10417	2.5	78
364	COVID-19 classification by CSHNet with deep fusion using transfer learning and discriminant correlation analysis. <i>Information Fusion</i> , 2021 , 68, 131-148	16.7	78
363	PATHOLOGICAL BRAIN DETECTION IN MAGNETIC RESONANCE IMAGING SCANNING BY WAVELET ENTROPY AND HYBRIDIZATION OF BIOGEOGRAPHY-BASED OPTIMIZATION AND PARTICLE SWARM OPTIMIZATION. <i>Progress in Electromagnetics Research</i> , 2015 , 152, 41-58	3.8	77
362	Fruit classification by biogeography-based optimization and feedforward neural network. <i>Expert Systems</i> , 2016 , 33, 239-253	2.1	76
361	Image-based deep learning automated sorting of date fruit. <i>Postharvest Biology and Technology</i> , 2019 , 153, 133-141	6.2	75
360	Pathological brain detection based on wavelet entropy and Hu moment invariants. <i>Bio-Medical Materials and Engineering</i> , 2015 , 26 Suppl 1, S1283-90	1	74
359	Exponential Wavelet Iterative Shrinkage Thresholding Algorithm for compressed sensing magnetic resonance imaging. <i>Information Sciences</i> , 2015 , 322, 115-132	7.7	73
358	Dual-Tree Complex Wavelet Transform and Twin Support Vector Machine for Pathological Brain Detection. <i>Applied Sciences (Switzerland)</i> , 2016 , 6, 169	2.6	73
357	Improved Breast Cancer Classification Through Combining Graph Convolutional Network and Convolutional Neural Network. <i>Information Processing and Management</i> , 2021 , 58, 102439	6.3	73
356	EZH2-Mediated Primary Cilium Deconstruction Drives Metastatic Melanoma Formation. <i>Cancer Cell</i> , 2018 , 34, 69-84.e14	24.3	71

355	Underwater Optical Image Processing: a Comprehensive Review. <i>Mobile Networks and Applications</i> , 2017 , 22, 1204-1211	2.9	69
354	Find multi-objective paths in stochastic networks via chaotic immune PSO. <i>Expert Systems With Applications</i> , 2010 , 37, 1911-1919	7.8	69
353	Multiple Sclerosis Identification by 14-Layer Convolutional Neural Network With Batch Normalization, Dropout, and Stochastic Pooling. <i>Frontiers in Neuroscience</i> , 2018 , 12, 818	5.1	69
352	Artificial intelligence within the interplay between natural and artificial computation: Advances in data science, trends and applications. <i>Neurocomputing</i> , 2020 , 410, 237-270	5.4	67
351	Deep Semantic Segmentation of Kidney and Space-Occupying Lesion Area Based on SCNN and ResNet Models Combined with SIFT-Flow Algorithm. <i>Journal of Medical Systems</i> , 2018 , 43, 2	5.1	67
350	Pathological Brain Detection by a Novel Image Feature Fractional Fourier Entropy. <i>Entropy</i> , 2015 , 17, 8278-8296	2.8	66
349	Twelve-layer deep convolutional neural network with stochastic pooling for tea category classification on GPU platform. <i>Multimedia Tools and Applications</i> , 2018 , 77, 22821-22839	2.5	65
348	A Multilayer Perceptron Based Smart Pathological Brain Detection System by Fractional Fourier Entropy. <i>Journal of Medical Systems</i> , 2016 , 40, 173	5.1	64
347	Alcoholism Identification Based on an AlexNet Transfer Learning Model. <i>Frontiers in Psychiatry</i> , 2019 , 10, 205	5	63
346	Artifact Removal using Improved GoogLeNet for Sparse-view CT Reconstruction. <i>Scientific Reports</i> , 2018 , 8, 6700	4.9	62
345	Structure-Adaptive Fuzzy Estimation for Random-Valued Impulse Noise Suppression. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2018 , 28, 414-427	6.4	59
344	Smart detection on abnormal breasts in digital mammography based on contrast-limited adaptive histogram equalization and chaotic adaptive real-coded biogeography-based optimization. <i>Simulation</i> , 2016 , 92, 873-885	1.2	59
343	Detection of Alzheimer's Disease by Three-Dimensional Displacement Field Estimation in Structural Magnetic Resonance Imaging. <i>Journal of Alzheimer's Disease</i> , 2016 , 50, 233-48	4.3	58
342	Computer-Aided Gastrointestinal Diseases Analysis From Wireless Capsule Endoscopy: A Framework of Best Features Selection. <i>IEEE Access</i> , 2020 , 8, 132850-132859	3.5	58
341	Detection of Alzheimer's disease by displacement field and machine learning. <i>PeerJ</i> , 2015 , 3, e1251	3.1	57
340	A Pathological Brain Detection System based on Extreme Learning Machine Optimized by Bat Algorithm. <i>CNS and Neurological Disorders - Drug Targets</i> , 2017 , 16, 23-29	2.6	57
339	Lungs cancer classification from CT images: An integrated design of contrast based classical features fusion and selection. <i>Pattern Recognition Letters</i> , 2020 , 129, 77-85	4.7	57
338	Tea Category Identification Using a Novel Fractional Fourier Entropy and Jaya Algorithm. <i>Entropy</i> , 2016 , 18, 77	2.8	57

337	Abnormal Breast Detection in Mammogram Images by Feed-forward Neural Network Trained by Jaya Algorithm. <i>Fundamenta Informaticae</i> , 2017 , 151, 191-211	1	56
336	Smart pathological brain detection by synthetic minority oversampling technique, extreme learning machine, and Jaya algorithm. <i>Multimedia Tools and Applications</i> , 2018 , 77, 22629-22648	2.5	56
335	High Performance Multiple Sclerosis Classification by Data Augmentation and AlexNet Transfer Learning Model. <i>Journal of Medical Imaging and Health Informatics</i> , 2019 , 9, 2012-2021	1.2	56
334	Seven-layer deep neural network based on sparse autoencoder for voxelwise detection of cerebral microbleed. <i>Multimedia Tools and Applications</i> , 2018 , 77, 10521-10538	2.5	54
333	Remote-sensing image classification based on an improved probabilistic neural network. <i>Sensors</i> , 2009 , 9, 7516-39	3.8	54
332	Fractal Dimension Estimation for Developing Pathological Brain Detection System Based on Minkowski-Bouligand Method. <i>IEEE Access</i> , 2016 , 4, 5937-5947	3.5	54
331	Pathological brain detection in MRI scanning via Hu moment invariants and machine learning. <i>Journal of Experimental and Theoretical Artificial Intelligence</i> , 2017 , 29, 299-312	2	52
330	A NEW CLASSIFIER FOR POLARIMETRIC SAR IMAGES. <i>Progress in Electromagnetics Research</i> , 2009 , 94, 83-104	3.8	52
329	Pathological Brain Detection via Wavelet Packet Tsallis Entropy and Real-Coded Biogeography-based Optimization. <i>Fundamenta Informaticae</i> , 2017 , 151, 275-291	1	50
328	Prediction of COVID-19 - Pneumonia based on Selected Deep Features and One Class Kernel Extreme Learning Machine. <i>Computers and Electrical Engineering</i> , 2021 , 90, 106960	4.3	50
327	A Review of Deep-Learning-Based Medical Image Segmentation Methods. <i>Sustainability</i> , 2021 , 13, 1224	3.6	50
326	Pathological brain detection in MRI scanning by wavelet packet Tsallis entropy and fuzzy support vector machine. <i>SpringerPlus</i> , 2015 , 4, 716		48
325	An MR brain images classifier system via particle swarm optimization and kernel support vector machine. <i>Scientific World Journal, The</i> , 2013 , 2013, 130134	2.2	48
324	Detection of Dendritic Spines Using Wavelet Packet Entropy and Fuzzy Support Vector Machine. <i>CNS and Neurological Disorders - Drug Targets</i> , 2017 , 16, 116-121	2.6	48
323	Cerebral micro-bleeding identification based on a nine-layer convolutional neural network with stochastic pooling. <i>Concurrency Computation Practice and Experience</i> , 2020 , 32, e5130	1.4	48
322	Exponential wavelet iterative shrinkage thresholding algorithm with random shift for compressed sensing magnetic resonance imaging. <i>IEEJ Transactions on Electrical and Electronic Engineering</i> , 2015 , 10, 116-117	1	46
321	FEATURE EXTRACTION OF BRAIN MRI BY STATIONARY WAVELET TRANSFORM AND ITS APPLICATIONS. <i>Journal of Biological Systems</i> , 2010 , 18, 115-132	1.6	45
320	WEIGHTS OPTIMIZATION OF NEURAL NETWORK VIA IMPROVED BCO APPROACH. <i>Progress in Electromagnetics Research</i> , 2008 , 83, 185-198	3.8	45

319	Unilateral sensorineural hearing loss identification based on double-density dual-tree complex wavelet transform and multinomial logistic regression. <i>Integrated Computer-Aided Engineering</i> , 2019 , 26, 411-426	5.2	43
318	Pattern Recognition via PCNN and Tsallis Entropy. <i>Sensors</i> , 2008 , 8, 7518-7529	3.8	42
317	Wavelet Entropy and Directed Acyclic Graph Support Vector Machine for Detection of Patients with Unilateral Hearing Loss in MRI Scanning. <i>Frontiers in Computational Neuroscience</i> , 2016 , 10, 106	3.5	42
316	Cerebral Micro-Bleeding Detection Based on Densely Connected Neural Network. <i>Frontiers in Neuroscience</i> , 2019 , 13, 422	5.1	40
315	Chinese Sign Language Fingerspelling via Six-Layer Convolutional Neural Network with Leaky Rectified Linear Units for Therapy and Rehabilitation. <i>Journal of Medical Imaging and Health Informatics</i> , 2019 , 9, 2031-2090	1.2	40
314	Three-Dimensional Eigenbrain for the Detection of Subjects and Brain Regions Related with Alzheimer's Disease. <i>Journal of Alzheimer's Disease</i> , 2016 , 50, 1163-79	4.3	40
313	Mobile cloud computing based stroke healthcare system. <i>International Journal of Information Management</i> , 2019 , 45, 250-261	16.4	40
312	Exploring a smart pathological brain detection method on pseudo Zernike moment. <i>Multimedia Tools and Applications</i> , 2018 , 77, 22589-22604	2.5	39
311	Attributes based skin lesion detection and recognition: A mask RCNN and transfer learning-based deep learning framework. <i>Pattern Recognition Letters</i> , 2021 , 143, 58-66	4.7	39
310	Effect of spider-web-plot in MR brain image classification. <i>Pattern Recognition Letters</i> , 2015 , 62, 14-16	4.7	38
309	Classification of sour lemons based on apparent defects using stochastic pooling mechanism in deep convolutional neural networks. <i>Scientia Horticulturae</i> , 2020 , 263, 109133	4.1	38
308	Magnetic resonance brain classification by a novel binary particle swarm optimization with mutation and time-varying acceleration coefficients. <i>Biomedizinische Technik</i> , 2016 , 61, 431-41	1.3	37
307	Introgression of the gene into quality protein maize inbred lines using molecular markers. <i>Molecular Breeding</i> , 2015 , 35, 154	3.4	37
306	mDixon-Based Synthetic CT Generation for PET Attenuation Correction on Abdomen and Pelvis Jointly Using Transfer Fuzzy Clustering and Active Learning-Based Classification. <i>IEEE Transactions on Medical Imaging</i> , 2020 , 39, 819-832	11.7	37
305	DenseNet-201-Based Deep Neural Network with Composite Learning Factor and Precomputation for Multiple Sclerosis Classification. <i>ACM Transactions on Multimedia Computing, Communications and Applications</i> , 2020 , 16, 1-19	3.4	36
304	Alzheimer's Disease Detection by Pseudo Zernike Moment and Linear Regression Classification. <i>CNS and Neurological Disorders - Drug Targets</i> , 2017 , 16, 11-15	2.6	36
303	Detection of Pathological Brain in MRI Scanning Based on Wavelet-Entropy and Naive Bayes Classifier. <i>Lecture Notes in Computer Science</i> , 2015 , 201-209	0.9	36
302	A five-layer deep convolutional neural network with stochastic pooling for chest CT-based COVID-19 diagnosis. <i>Machine Vision and Applications</i> , 2021 , 32, 14	2.8	36

301	A Pathological Brain Detection System Based on Radial Basis Function Neural Network. <i>Journal of Medical Imaging and Health Informatics</i> , 2016 , 6, 1218-1222	1.2	35
300	Color image enhancement based on HVS and PCNN. <i>Science China Information Sciences</i> , 2010 , 53, 1963-1976	1.4	35
299	An automated hybrid approach using clustering and nature inspired optimization technique for improved tumor and tissue segmentation in magnetic resonance brain images. <i>Applied Soft Computing Journal</i> , 2017 , 57, 399-426	7.5	34
298	Alcoholism detection by medical robots based on Hu moment invariants and predator-prey adaptive-inertia chaotic particle swarm optimization. <i>Computers and Electrical Engineering</i> , 2017 , 63, 126-138	4.3	34
297	Image processing methods to elucidate spatial characteristics of retinal microglia after optic nerve transection. <i>Scientific Reports</i> , 2016 , 6, 21816	4.9	34
296	UCAV Path Planning by Fitness-Scaling Adaptive Chaotic Particle Swarm Optimization. <i>Mathematical Problems in Engineering</i> , 2013 , 2013, 1-9	1.1	34
295	Customized VGG19 Architecture for Pneumonia Detection in Chest X-Rays. <i>Pattern Recognition Letters</i> , 2021 , 143, 67-74	4.7	34
294	Five-category classification of pathological brain images based on deep stacked sparse autoencoder. <i>Multimedia Tools and Applications</i> , 2019 , 78, 4045-4064	2.5	34
293	Texture Analysis Method Based on Fractional Fourier Entropy and Fitness-scaling Adaptive Genetic Algorithm for Detecting Left-sided and Right-sided Sensorineural Hearing Loss. <i>Fundamenta Informaticae</i> , 2017 , 151, 505-521	1	33
292	Accurate classification of cherry fruit using deep CNN based on hybrid pooling approach. <i>Postharvest Biology and Technology</i> , 2020 , 166, 111204	6.2	33
291	Utilization of DenseNet201 for diagnosis of breast abnormality. <i>Machine Vision and Applications</i> , 2019 , 30, 1135-1144	2.8	33
290	Voxelwise detection of cerebral microbleed in CADASIL patients by leaky rectified linear unit and early stopping. <i>Multimedia Tools and Applications</i> , 2018 , 77, 21825-21845	2.5	32
289	Tracking features in retinal images of adaptive optics confocal scanning laser ophthalmoscope using KLT-SIFT algorithm. <i>Biomedical Optics Express</i> , 2010 , 1, 31-40	3.5	32
288	A Heuristic Neural Network Structure Relying on Fuzzy Logic for Images Scoring. <i>IEEE Transactions on Fuzzy Systems</i> , 2021 , 29, 34-45	8.3	32
287	A Rule-Based Model for Bankruptcy Prediction Based on an Improved Genetic Ant Colony Algorithm. <i>Mathematical Problems in Engineering</i> , 2013 , 2013, 1-10	1.1	31
286	. <i>IEEE Transactions on Industrial Informatics</i> , 2021 , 17, 839-848	11.9	31
285	Pixels to Classes: Intelligent Learning Framework for Multiclass Skin Lesion Localization and Classification. <i>Computers and Electrical Engineering</i> , 2021 , 90, 106956	4.3	31
284	A multilevel paradigm for deep convolutional neural network features selection with an application to human gait recognition. <i>Expert Systems</i> , 2020 , e12541	2.1	30

283	A novel algorithm for all pairs shortest path problem based on matrix multiplication and pulse coupled neural network 2011 , 21, 517-521		30
282	PATHOLOGICAL BRAIN DETECTION BY ARTIFICIAL INTELLIGENCE IN MAGNETIC RESONANCE IMAGING SCANNING (INVITED REVIEW). <i>Progress in Electromagnetics Research</i> , 2016 , 156, 105-133	3.8	30
281	Teeth category classification via seven-layer deep convolutional neural network with max pooling and global average pooling. <i>International Journal of Imaging Systems and Technology</i> , 2019 , 29, 577-583	2.5	29
280	MIDCAN: A multiple input deep convolutional attention network for Covid-19 diagnosis based on chest CT and chest X-ray. <i>Pattern Recognition Letters</i> , 2021 , 150, 8-16	4.7	29
279	Detecting cerebral microbleeds with transfer learning. <i>Machine Vision and Applications</i> , 2019 , 30, 1123-1133	1.33	28
278	Detection of abnormal MR brains based on wavelet entropy and feature selection. <i>IEEJ Transactions on Electrical and Electronic Engineering</i> , 2016 , 11, 364-373	1	28
277	Entropy Analysis of Short-Term Heartbeat Interval Time Series during Regular Walking. <i>Entropy</i> , 2017 , 19, 568	2.8	28
276	Diagnosis of COVID-19 by Wavelet Renyi Entropy and Three-Segment Biogeography-Based Optimization. <i>International Journal of Computational Intelligence Systems</i> , 2020 , 13, 1332	3.4	28
275	A resource conscious human action recognition framework using 26-layered deep convolutional neural network. <i>Multimedia Tools and Applications</i> , 2020 , 1	2.5	28
274	Detection of Left-Sided and Right-Sided Hearing Loss via Fractional Fourier Transform. <i>Entropy</i> , 2016 , 18, 194	2.8	28
273	Preliminary research on abnormal brain detection by wavelet-energy and quantum- behaved PSO. <i>Technology and Health Care</i> , 2016 , 24 Suppl 2, S641-9	1.1	28
272	Smart deep learning-based approach for non-destructive freshness diagnosis of common carp fish. <i>Journal of Food Engineering</i> , 2020 , 278, 109930	6	27
271	A Two-Level Iterative Reconstruction Method for Compressed Sensing MRI. <i>Journal of Electromagnetic Waves and Applications</i> , 2011 , 25, 1081-1091	1.3	27
270	Improved image filter based on SPCNN. <i>Science in China Series F: Information Sciences</i> , 2008 , 51, 2115-2125		27
269	A Review of Deep Learning on Medical Image Analysis. <i>Mobile Networks and Applications</i> , 2021 , 26, 351-389	3.89	27
268	An imaging-based approach predicts clinical outcomes in prostate cancer through a novel support vector machine classification. <i>Oncotarget</i> , 2016 , 7, 78140-78151	3.3	26
267	A review on extreme learning machine. <i>Multimedia Tools and Applications</i> , 1	2.5	26
266	ResGNet-C: A graph convolutional neural network for detection of COVID-19. <i>Neurocomputing</i> , 2021 , 452, 592-605	5.4	26

265	Detection of abnormal brain in MRI via improved AlexNet and ELM optimized by chaotic bat algorithm. <i>Neural Computing and Applications</i> , 2020 , 33, 10799	4.8	25
264	Double-Domain Imaging and Adaption for Person Re-Identification. <i>IEEE Access</i> , 2019 , 7, 103336-103345	3.5	25
263	AN IMPROVED QUALITY GUIDED PHASE UNWRAPPING METHOD AND ITS APPLICATIONS TO MRI. <i>Progress in Electromagnetics Research</i> , 2014 , 145, 273-286	3.8	25
262	Computer-aided diagnosis of abnormal breasts in mammogram images by weighted-type fractional Fourier transform. <i>Advances in Mechanical Engineering</i> , 2016 , 8, 168781401663424	1.2	25
261	CGNet: A graph-knowledge embedded convolutional neural network for detection of pneumonia. <i>Information Processing and Management</i> , 2021 , 58, 102411	6.3	25
260	A dual-stage attention-based Conv-LSTM network for spatio-temporal correlation and multivariate time series prediction. <i>International Journal of Intelligent Systems</i> , 2021 , 36, 2036-2057	8.4	25
259	A deep stacked random vector functional link network autoencoder for diagnosis of brain abnormalities and breast cancer. <i>Biomedical Signal Processing and Control</i> , 2020 , 58, 101860	4.9	24
258	Cat Swarm Optimization applied to alcohol use disorder identification. <i>Multimedia Tools and Applications</i> , 2018 , 77, 22875-22896	2.5	24
257	Multiple Sclerosis Identification Based on Fractional Fourier Entropy and a Modified Jaya Algorithm. <i>Entropy</i> , 2018 , 20,	2.8	24
256	Energy preserved sampling for compressed sensing MRI. <i>Computational and Mathematical Methods in Medicine</i> , 2014 , 2014, 546814	2.8	24
255	PSSPNN: PatchShuffle Stochastic Pooling Neural Network for an Explainable Diagnosis of COVID-19 with Multiple-Way Data Augmentation. <i>Computational and Mathematical Methods in Medicine</i> , 2021 , 2021, 6633755	2.8	23
254	ADVIAN: Alzheimer's Disease VGG-Inspired Attention Network Based on Convolutional Block Attention Module and Multiple Way Data Augmentation. <i>Frontiers in Aging Neuroscience</i> , 2021 , 13, 687453	5.3	23
253	SAR Speckle Removal Using Hybrid Frequency Modulations. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2021 , 59, 3956-3966	8.1	23
252	Segment-based coding of color images. <i>Science in China Series F: Information Sciences</i> , 2009 , 52, 914-925		22
251	Breast Cancer Classification from Ultrasound Images Using Probability-Based Optimal Deep Learning Feature Fusion.. <i>Sensors</i> , 2022 , 22,	3.8	22
250	Oriented grouping-constrained spectral clustering for medical imaging segmentation. <i>Multimedia Systems</i> , 2020 , 26, 27-36	2.2	22
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