

Nianyin Zeng

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.

81
papers

4,389
citations

30
h-index

65
g-index

89
ext. papers

5,986
ext. citations

4
avg, IF

6.31
L-index

#	Paper	IF	Citations
81	A survey of deep neural network architectures and their applications. <i>Neurocomputing</i> , 2017 , 234, 11-26	5.4	1412
80	Identification of rice diseases using deep convolutional neural networks. <i>Neurocomputing</i> , 2017 , 267, 378-384	5.4	337
79	Facial expression recognition via learning deep sparse autoencoders. <i>Neurocomputing</i> , 2018 , 273, 643-649	5.4	296
78	A new switching-delayed-PSO-based optimized SVM algorithm for diagnosis of Alzheimer's disease. <i>Neurocomputing</i> , 2018 , 320, 195-202	5.4	146
77	. <i>IEEE Access</i> , 2019 , 7, 62412-62420	3.5	141
76	Deep Belief Networks for Quantitative Analysis of a Gold Immunochromatographic Strip. <i>Cognitive Computation</i> , 2016 , 8, 684-692	4.4	135
75	Image-based quantitative analysis of gold immunochromatographic strip via cellular neural network approach. <i>IEEE Transactions on Medical Imaging</i> , 2014 , 33, 1129-36	11.7	124
74	A switching delayed PSO optimized extreme learning machine for short-term load forecasting. <i>Neurocomputing</i> , 2017 , 240, 175-182	5.4	119
73	An Improved Particle Filter With a Novel Hybrid Proposal Distribution for Quantitative Analysis of Gold Immunochromatographic Strips. <i>IEEE Nanotechnology Magazine</i> , 2019 , 18, 819-829	2.6	116
72	A Novel Switching Delayed PSO Algorithm for Estimating Unknown Parameters of Lateral Flow Immunoassay. <i>Cognitive Computation</i> , 2016 , 8, 143-152	4.4	103
71	A hybrid EKF and switching PSO algorithm for joint state and parameter estimation of lateral flow immunoassay models. <i>IEEE/ACM Transactions on Computational Biology and Bioinformatics</i> , 2012 , 9, 321-9	3	90
70	An Intelligent Gear Fault Diagnosis Methodology Using a Complex Wavelet Enhanced Convolutional Neural Network. <i>Materials</i> , 2017 , 10,	3.5	75
69	Inferring nonlinear lateral flow immunoassay state-space models via an unscented Kalman filter. <i>Science China Information Sciences</i> , 2016 , 59, 1	3.4	73
68	A Novel Particle Swarm Optimization Approach for Patient Clustering From Emergency Departments. <i>IEEE Transactions on Evolutionary Computation</i> , 2019 , 23, 632-644	15.6	72
67	Deep-reinforcement-learning-based images segmentation for quantitative analysis of gold immunochromatographic strip. <i>Neurocomputing</i> , 2021 , 425, 173-180	5.4	65
66	A Novel Sigmoid-Function-Based Adaptive Weighted Particle Swarm Optimizer. <i>IEEE Transactions on Cybernetics</i> , 2021 , 51, 1085-1093	10.2	62
65	Denoising and deblurring gold immunochromatographic strip images via gradient projection algorithms. <i>Neurocomputing</i> , 2017 , 247, 165-172	5.4	58

64	Path planning for intelligent robot based on switching local evolutionary PSO algorithm. <i>Assembly Automation</i> , 2016 , 36, 120-126	2.1	49
63	A review on transfer learning in EEG signal analysis. <i>Neurocomputing</i> , 2021 , 421, 1-14	5.4	46
62	Inference of nonlinear state-space models for sandwich-type lateral flow immunoassay using extended Kalman filtering. <i>IEEE Transactions on Biomedical Engineering</i> , 2011 , 58, 1959-66	5	42
61	A Dynamic Neighborhood-Based Switching Particle Swarm Optimization Algorithm. <i>IEEE Transactions on Cybernetics</i> , 2020 , PP,	10.2	42
60	Position-Transitional Particle Swarm Optimization-incorporated Latent Factor Analysis. <i>IEEE Transactions on Knowledge and Data Engineering</i> , 2020 , 1-1	4.2	39
59	Predicting Alzheimer's Disease Using LSTM. <i>IEEE Access</i> , 2019 , 7, 80893-80901	3.5	36
58	A hybrid Wavelet Neural Network and Switching Particle Swarm Optimization algorithm for face direction recognition. <i>Neurocomputing</i> , 2015 , 155, 219-224	5.4	36
57	A competitive mechanism integrated multi-objective whale optimization algorithm with differential evolution. <i>Neurocomputing</i> , 2021 , 432, 170-182	5.4	36
56	Utilization of DenseNet201 for diagnosis of breast abnormality. <i>Machine Vision and Applications</i> , 2019 , 30, 1135-1144	2.8	33
55	Generative Adversarial Networks and Its Applications in Biomedical Informatics. <i>Frontiers in Public Health</i> , 2020 , 8, 164	6	31
54	A novel switching local evolutionary PSO for quantitative analysis of lateral flow immunoassay. <i>Expert Systems With Applications</i> , 2014 , 41, 1708-1715	7.8	31
53	Identification of Nonlinear Lateral Flow Immunoassay State-Space Models via Particle Filter Approach. <i>IEEE Nanotechnology Magazine</i> , 2012 , 11, 321-327	2.6	31
52	Sparsity-based signal extraction using dual Q-factors for gearbox fault detection. <i>ISA Transactions</i> , 2018 , 79, 147-160	5.5	31
51	A novel randomised particle swarm optimizer. <i>International Journal of Machine Learning and Cybernetics</i> , 2021 , 12, 529-540	3.8	26
50	Accurate classification of ECG arrhythmia using MOWPT enhanced fast compression deep learning networks. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 2020 , 1	3.7	23
49	A deep domain adaption model with multi-task networks for planetary gearbox fault diagnosis. <i>Neurocomputing</i> , 2020 , 409, 173-190	5.4	23
48	Time Series Modeling of Nano-Gold Immunochromatographic Assay via Expectation Maximization Algorithm. <i>IEEE Transactions on Biomedical Engineering</i> , 2013 , 60, 3418-24	5	23
47	Exploiting Discriminative Regions of Brain Slices Based on 2D CNNs for Alzheimer's Disease Classification. <i>IEEE Access</i> , 2019 , 7, 181423-181433	3.5	22

46	Morphological Arrhythmia Automated Diagnosis Method Using Gray-Level Co-Occurrence Matrix Enhanced Convolutional Neural Network. <i>IEEE Access</i> , 2019 , 7, 67123-67129	3.5	20
45	A novel approach combined transfer learning and deep learning to predict TMB from histology image. <i>Pattern Recognition Letters</i> , 2020 , 135, 244-248	4.7	17
44	A novel neural network approach to cDNA microarray image segmentation. <i>Computer Methods and Programs in Biomedicine</i> , 2013 , 111, 189-98	6.9	16
43	FMD-Yolo: An efficient face mask detection method for COVID-19 prevention and control in public. <i>Image and Vision Computing</i> , 2022 , 117, 104341	3.7	16
42	Wavelet Denoising Algorithm Based on NDOA Compressed Sensing for Fluorescence Image of Microarray. <i>IEEE Access</i> , 2019 , 7, 13338-13346	3.5	15
41	RP-Net: A 3D Convolutional Neural Network for Brain Segmentation From Magnetic Resonance Imaging. <i>IEEE Access</i> , 2019 , 7, 39670-39679	3.5	14
40	. <i>IEEE Access</i> , 2019 , 7, 29973-29980	3.5	14
39	A Deep Segmentation Network of Multi-Scale Feature Fusion Based on Attention Mechanism for IVOCT Lumen Contour. <i>IEEE/ACM Transactions on Computational Biology and Bioinformatics</i> , 2021 , 18, 62-69	3	13
38	Nested Dilation Network (NDN) for Multi-Task Medical Image Segmentation. <i>IEEE Access</i> , 2019 , 7, 44676-44685	3.4	12
37	Stability analysis of standard genetic regulatory networks with time-varying delays and stochastic perturbations. <i>Neurocomputing</i> , 2011 , 74, 3235-3241	5.4	12
36	A PSO-based deep learning approach to classifying patients from emergency departments. <i>International Journal of Machine Learning and Cybernetics</i> , 2021 , 12, 1939	3.8	12
35	Patient-Specific Coronary Artery 3D Printing Based on Intravascular Optical Coherence Tomography and Coronary Angiography. <i>Complexity</i> , 2019 , 2019, 1-10	1.6	12
34	Domain-adaptive intelligence for fault diagnosis based on deep transfer learning from scientific test rigs to industrial applications. <i>Neural Computing and Applications</i> , 2021 , 33, 4483-4499	4.8	12
33	cDNA microarray adaptive segmentation. <i>Neurocomputing</i> , 2014 , 142, 408-418	5.4	11
32	Weight and Structure Determination Neural Network Aided With Double Pseudoinversion for Diagnosis of Flat Foot. <i>IEEE Access</i> , 2019 , 7, 33001-33008	3.5	10
31	A Framework for Big Data Governance to Advance RHINs: A Case Study of China. <i>IEEE Access</i> , 2019 , 7, 50330-50338	3.5	9
30	Multilevel Segmentation Optimized by Physical Information for Gridding of Microarray Images. <i>IEEE Access</i> , 2019 , 7, 32146-32153	3.5	9
29	Centralized Wavelet Multiresolution for Exact Translation Invariant Processing of ECG Signals. <i>IEEE Access</i> , 2019 , 7, 42322-42330	3.5	9

28	A new imaged-based quantitative reader for the gold immunochromatographic assay. <i>Optik</i> , 2018 , 152, 92-99	2.5	9
27	A Small-Sized Object Detection Oriented Multi-Scale Feature Fusion Approach With Application to Defect Detection. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2022 , 71, 1-14	5.2	9
26	Quantitative Analysis of Immunochromatographic Strip Based on Convolutional Neural Network. <i>IEEE Access</i> , 2019 , 7, 16257-16263	3.5	8
25	Discrete Hand Motion Intention Decoding Based on Transient Myoelectric Signals. <i>IEEE Access</i> , 2019 , 7, 81630-81639	3.5	8
24	Drug-Disease Association Prediction Based on Neighborhood Information Aggregation in Neural Networks. <i>IEEE Access</i> , 2019 , 7, 50581-50587	3.5	7
23	Modified Weights-and-Structure-Determination Neural Network for Pattern Classification of Flatfoot. <i>IEEE Access</i> , 2019 , 7, 63146-63154	3.5	7
22	A New Hybrid Algorithm for Bankruptcy Prediction Using Switching Particle Swarm Optimization and Support Vector Machines. <i>Discrete Dynamics in Nature and Society</i> , 2015 , 2015, 1-7	1.1	7
21	A Novel Image Methodology for Interpretation of Gold Immunochromatographic Strip. <i>Journal of Computers</i> , 2011 , 6,	1.4	7
20	A new deep belief network-based multi-task learning for diagnosis of Alzheimer's disease. <i>Neural Computing and Applications</i> , 1	4.8	7
19	Predicting Ion Channels Genes and Their Types With Machine Learning Techniques. <i>Frontiers in Genetics</i> , 2019 , 10, 399	4.5	6
18	Prediction of Knee Joint Moment by Surface Electromyography of the Antagonistic and Agonistic Muscle Pairs. <i>IEEE Access</i> , 2019 , 7, 82320-82328	3.5	6
17	The Genetic-Evolutionary Random Support Vector Machine Cluster Analysis in Autism Spectrum Disorder. <i>IEEE Access</i> , 2019 , 7, 30527-30535	3.5	5
16	Determining the Online Measurable Input Variables in Human Joint Moment Intelligent Prediction Based on the Hill Muscle Model. <i>Sensors</i> , 2020 , 20,	3.8	5
15	Health State Monitoring of Bladed Machinery with Crack Growth Detection in BFG Power Plant Using an Active Frequency Shift Spectral Correction Method. <i>Materials</i> , 2017 , 10,	3.5	5
14	The p53/Mdm2 regulation relationship under different radiation doses based on the continuous-discrete extended Kalman filter algorithm. <i>Neurocomputing</i> , 2018 , 273, 230-236	5.4	4
13	Sparsity Enhanced Topological Fractal Decomposition for Smart Machinery Fault Diagnosis. <i>IEEE Access</i> , 2018 , 6, 51886-51897	3.5	4
12	An Improved Confidence Connected Liver Segmentation Method Based on Three Views of CT Images. <i>IEEE Access</i> , 2019 , 7, 58429-58434	3.5	3
11	Study on the Methodology of Quantitative Gold Immunochromatographic Strip Assay 2010 ,		3

10	Design and Analysis of Genetic Regulatory Networks with Electronic Circuit Ideas 2012 ,		3
9	Fractal Lifting Wavelets for Machine Fault Diagnosis. <i>IEEE Access</i> , 2019 , 7, 50912-50932	3.5	2
8	Risk Prediction Model for Knee Arthroplasty. <i>IEEE Access</i> , 2019 , 7, 34645-34654	3.5	2
7	Association between Timing of Surgical Intervention and Mortality in 15,813 Acute Pancreatitis. <i>Computational and Mathematical Methods in Medicine</i> , 2020 , 2020, 1012796	2.8	2
6	Rapid quantitative image analysis of hCG by gold immunochromatographic assay and genetic fast FCM algorithm 2010 ,		2
5	Cellular Neural Networks for Gold Immunochromatographic Strip Image Segmentation. <i>Lecture Notes in Computer Science</i> , 2012 , 110-120	0.9	2
4	Wavelet Based Spectral Kurtosis and Kurtogram: A Smart and Sparse Characterization of Impulsive Transient Vibration. <i>Smart Sensors, Measurement and Instrumentation</i> , 2017 , 93-130	0.3	1
3	A New Transfer Function for Volume Visualization of Aortic Stent and Its Application to Virtual Endoscopy. <i>ACM Transactions on Multimedia Computing, Communications and Applications</i> , 2020 , 16, 1-14 ^{3,4}		1
2	A ranking-system-based switching particle swarm optimizer with dynamic learning strategies. <i>Neurocomputing</i> , 2022 , 494, 356-367	5.4	0
1	Stress Optimization of Vent Holes with Different Shapes Using Efficient Switching Delayed PSO Algorithm. <i>Applied Sciences (Switzerland)</i> , 2022 , 12, 5395	2.6	