

Nianyin Zeng

List of Publications by Year in descending order

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Version: 2024-02-01

88
papers

7,384
citations

109137

35
h-index

58464

82
g-index

89
all docs

89
docs citations

89
times ranked

6636
citing authors

#	ARTICLE	IF	CITATIONS
1	A survey of deep neural network architectures and their applications. <i>Neurocomputing</i> , 2017, 234, 11-26.	3.5	2,242
2	Identification of rice diseases using deep convolutional neural networks. <i>Neurocomputing</i> , 2017, 267, 378-384.	3.5	636
3	Facial expression recognition via learning deep sparse autoencoders. <i>Neurocomputing</i> , 2018, 273, 643-649.	3.5	403
4	A new switching-delayed-PSO-based optimized SVM algorithm for diagnosis of Alzheimer's disease. <i>Neurocomputing</i> , 2018, 320, 195-202.	3.5	237
5	A review on transfer learning in EEG signal analysis. <i>Neurocomputing</i> , 2021, 421, 1-14.	3.5	213
6	A Fast Fractal Based Compression for MRI Images. <i>IEEE Access</i> , 2019, 7, 62412-62420.	2.6	195
7	A Novel Sigmoid-Function-Based Adaptive Weighted Particle Swarm Optimizer. <i>IEEE Transactions on Cybernetics</i> , 2021, 51, 1085-1093.	6.2	162
8	A switching delayed PSO optimized extreme learning machine for short-term load forecasting. <i>Neurocomputing</i> , 2017, 240, 175-182.	3.5	160
9	Deep Belief Networks for Quantitative Analysis of a Gold Immunochromatographic Strip. <i>Cognitive Computation</i> , 2016, 8, 684-692.	3.6	146
10	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.	1.1	140
11	Image-Based Quantitative Analysis of Gold Immunochromatographic Strip via Cellular Neural Network Approach. <i>IEEE Transactions on Medical Imaging</i> , 2014, 33, 1129-1136.	5.4	138
12	Position-Transitional Particle Swarm Optimization-Incorporated Latent Factor Analysis. <i>IEEE Transactions on Knowledge and Data Engineering</i> , 2022, 34, 3958-3970.	4.0	138
13	Generative Adversarial Networks and Its Applications in Biomedical Informatics. <i>Frontiers in Public Health</i> , 2020, 8, 164.	1.3	123
14	A Novel Switching Delayed PSO Algorithm for Estimating Unknown Parameters of Lateral Flow Immunoassay. <i>Cognitive Computation</i> , 2016, 8, 143-152.	3.6	117
15	A Dynamic Neighborhood-Based Switching Particle Swarm Optimization Algorithm. <i>IEEE Transactions on Cybernetics</i> , 2022, 52, 9290-9301.	6.2	113
16	A Novel Particle Swarm Optimization Approach for Patient Clustering From Emergency Departments. <i>IEEE Transactions on Evolutionary Computation</i> , 2019, 23, 632-644.	7.5	110
17	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, 321-329.	1.9	100
18	Deep-reinforcement-learning-based images segmentation for quantitative analysis of gold immunochromatographic strip. <i>Neurocomputing</i> , 2021, 425, 173-180.	3.5	100

#	ARTICLE	IF	CITATIONS
19	An Intelligent Gear Fault Diagnosis Methodology Using a Complex Wavelet Enhanced Convolutional Neural Network. <i>Materials</i> , 2017, 10, 790.	1.3	98
20	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.	2.4	96
21	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.	2.7	95
22	Predicting Alzheimer's Disease Using LSTM. <i>IEEE Access</i> , 2019, 7, 80893-80901.	2.6	81
23	Inferring nonlinear lateral flow immunoassay state-space models via an unscented Kalman filter. <i>Science China Information Sciences</i> , 2016, 59, 1.	2.7	80
24	Cov-Net: A computer-aided diagnosis method for recognizing COVID-19 from chest X-ray images via machine vision. <i>Expert Systems With Applications</i> , 2022, 207, 118029.	4.4	78
25	Path planning for intelligent robot based on switching local evolutionary PSO algorithm. <i>Assembly Automation</i> , 2016, 36, 120-126.	1.0	70
26	A competitive mechanism integrated multi-objective whale optimization algorithm with differential evolution. <i>Neurocomputing</i> , 2021, 432, 170-182.	3.5	70
27	A novel randomised particle swarm optimizer. <i>International Journal of Machine Learning and Cybernetics</i> , 2021, 12, 529-540.	2.3	67
28	Denoising and deblurring gold immunochromatographic strip images via gradient projection algorithms. <i>Neurocomputing</i> , 2017, 247, 165-172.	3.5	62
29	Utilization of DenseNet201 for diagnosis of breast abnormality. <i>Machine Vision and Applications</i> , 2019, 30, 1135-1144.	1.7	62
30	A deep domain adaption model with multi-task networks for planetary gearbox fault diagnosis. <i>Neurocomputing</i> , 2020, 409, 173-190.	3.5	48
31	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, 1959-1966.	2.5	46
32	A survey on parameter identification, state estimation and data analytics for lateral flow immunoassay: from systems science perspective. <i>International Journal of Systems Science</i> , 2022, 53, 3556-3576.	3.7	46
33	Sparsity-based signal extraction using dual Q-factors for gearbox fault detection. <i>ISA Transactions</i> , 2018, 79, 147-160.	3.1	42
34	Accurate classification of ECG arrhythmia using MOWPT enhanced fast compression deep learning networks. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 2023, 14, 5703-5720.	3.3	42
35	A hybrid Wavelet Neural Network and Switching Particle Swarm Optimization algorithm for face direction recognition. <i>Neurocomputing</i> , 2015, 155, 219-224.	3.5	39
36	A PSO-based deep learning approach to classifying patients from emergency departments. <i>International Journal of Machine Learning and Cybernetics</i> , 2021, 12, 1939-1948.	2.3	39

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37	Exploiting Discriminative Regions of Brain Slices Based on 2D CNNs for Alzheimer's Disease Classification. IEEE Access, 2019, 7, 181423-181433.	2.6	38
38	A novel switching local evolutionary PSO for quantitative analysis of lateral flow immunoassay. Expert Systems With Applications, 2014, 41, 1708-1715.	4.4	37
39	Morphological Arrhythmia Automated Diagnosis Method Using Gray-Level Co-Occurrence Matrix Enhanced Convolutional Neural Network. IEEE Access, 2019, 7, 67123-67129.	2.6	36
40	Identification of Nonlinear Lateral Flow Immunoassay State-Space Models via Particle Filter Approach. IEEE Nanotechnology Magazine, 2012, 11, 321-327.	1.1	33
41	A new deep belief network-based multi-task learning for diagnosis of Alzheimer's disease. Neural Computing and Applications, 2023, 35, 11599-11610.	3.2	31
42	RP-Net: A 3D Convolutional Neural Network for Brain Segmentation From Magnetic Resonance Imaging. IEEE Access, 2019, 7, 39670-39679.	2.6	29
43	Intelligent Prediction of Human Lower Extremity Joint Moment: An Artificial Neural Network Approach. IEEE Access, 2019, 7, 29973-29980.	2.6	29
44	A Deep Segmentation Network of Multi-Scale Feature Fusion Based on Attention Mechanism for IVOCT Lumen Contour. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2021, 18, 62-69.	1.9	29
45	Weight and Structure Determination Neural Network Aided With Double Pseudoinversion for Diagnosis of Flat Foot. IEEE Access, 2019, 7, 33001-33008.	2.6	28
46	Domain-adaptive intelligence for fault diagnosis based on deep transfer learning from scientific test rigs to industrial applications. Neural Computing and Applications, 2021, 33, 4483-4499.	3.2	28
47	Time Series Modeling of Nano-Gold Immunochromatographic Assay via Expectation Maximization Algorithm. IEEE Transactions on Biomedical Engineering, 2013, 60, 3418-3424.	2.5	27
48	Wavelet Denoising Algorithm Based on NDOA Compressed Sensing for Fluorescence Image of Microarray. IEEE Access, 2019, 7, 13338-13346.	2.6	26
49	A novel approach combined transfer learning and deep learning to predict TMB from histology image. Pattern Recognition Letters, 2020, 135, 244-248.	2.6	24
50	A ranking-system-based switching particle swarm optimizer with dynamic learning strategies. Neurocomputing, 2022, 494, 356-367.	3.5	23
51	Drug-Disease Association Prediction Based on Neighborhood Information Aggregation in Neural Networks. IEEE Access, 2019, 7, 50581-50587.	2.6	22
52	Patient-Specific Coronary Artery 3D Printing Based on Intravascular Optical Coherence Tomography and Coronary Angiography. Complexity, 2019, 2019, 1-10.	0.9	20
53	A Framework for Big Data Governance to Advance RHINs: A Case Study of China. IEEE Access, 2019, 7, 50330-50338.	2.6	19
54	A novel neural network approach to cDNA microarray image segmentation. Computer Methods and Programs in Biomedicine, 2013, 111, 189-198.	2.6	18

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55	Quantitative Analysis of Immunochromatographic Strip Based on Convolutional Neural Network. IEEE Access, 2019, 7, 16257-16263.	2.6	17
56	Predicting Ion Channels Genes and Their Types With Machine Learning Techniques. Frontiers in Genetics, 2019, 10, 399.	1.1	16
57	Nested Dilation Network (NDN) for Multi-Task Medical Image Segmentation. IEEE Access, 2019, 7, 44676-44685.	2.6	16
58	Discrete Hand Motion Intention Decoding Based on Transient Myoelectric Signals. IEEE Access, 2019, 7, 81630-81639.	2.6	15
59	Modified Weights-and-Structure-Determination Neural Network for Pattern Classification of Flatfoot. IEEE Access, 2019, 7, 63146-63154.	2.6	15
60	Stability analysis of standard genetic regulatory networks with time-varying delays and stochastic perturbations. Neurocomputing, 2011, 74, 3235-3241.	3.5	14
61	Centralized Wavelet Multiresolution for Exact Translation Invariant Processing of ECG Signals. IEEE Access, 2019, 7, 42322-42330.	2.6	14
62	cDNA microarray adaptive segmentation. Neurocomputing, 2014, 142, 408-418.	3.5	13
63	Multilevel Segmentation Optimized by Physical Information for Gridding of Microarray Images. IEEE Access, 2019, 7, 32146-32153.	2.6	13
64	Determining the Online Measurable Input Variables in Human Joint Moment Intelligent Prediction Based on the Hill Muscle Model. Sensors, 2020, 20, 1185.	2.1	12
65	A New Hybrid Algorithm for Bankruptcy Prediction Using Switching Particle Swarm Optimization and Support Vector Machines. Discrete Dynamics in Nature and Society, 2015, 2015, 1-7.	0.5	11
66	A new imaged-based quantitative reader for the gold immunochromatographic assay. Optik, 2018, 152, 92-99.	1.4	11
67	Prediction of Knee Joint Moment by Surface Electromyography of the Antagonistic and Agonistic Muscle Pairs. IEEE Access, 2019, 7, 82320-82328.	2.6	8
68	The Genetic-Evolutionary Random Support Vector Machine Cluster Analysis in Autism Spectrum Disorder. IEEE Access, 2019, 7, 30527-30535.	2.6	8
69	Editorial: Artificial Intelligence for Medical Image Analysis of Neuroimaging Data. Frontiers in Neuroscience, 2020, 14, 480.	1.4	7
70	A Novel Image Methodology for Interpretation of Gold Immunochromatographic Strip. Journal of Computers, 2011, 6, .	0.4	7
71	An Improved Confidence Connected Liver Segmentation Method Based on Three Views of CT Images. IEEE Access, 2019, 7, 58429-58434.	2.6	6
72	Fractal Lifting Wavelets for Machine Fault Diagnosis. IEEE Access, 2019, 7, 50912-50932.	2.6	6

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73	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, 925.	1.3	5
74	Study on the Methodology of Quantitative Gold Immunochromatographic Strip Assay. , 2010, , .		4
75	Rapid quantitative image analysis of hCG by gold immunochromatographic assay and genetic fast FCM algorithm. , 2010, , .		4
76	Design and Analysis of Genetic Regulatory Networks with Electronic Circuit Ideas. , 2012, , .		4
77	The p53â€™Mdm2 regulation relationship under different radiation doses based on the continuousâ€™discrete extended Kalman filter algorithm. <i>Neurocomputing</i> , 2018, 273, 230-236.	3.5	4
78	Sparsity Enhanced Topological Fractal Decomposition for Smart Machinery Fault Diagnosis. <i>IEEE Access</i> , 2018, 6, 51886-51897.	2.6	4
79	Risk Prediction Model for Knee Arthroplasty. <i>IEEE Access</i> , 2019, 7, 34645-34654.	2.6	4
80	Detection of Blades Damages in Aero Engine. , 2020, , .		4
81	Cellular Neural Networks for Gold Immunochromatographic Strip Image Segmentation. <i>Lecture Notes in Computer Science</i> , 2012, , 110-120.	1.0	3
82	A Novel Movement Monitoring System of Knee Osteoarthritis Using the Android System. <i>Journal of Medical Imaging and Health Informatics</i> , 2015, 5, 1575-1579.	0.2	2
83	Association between Timing of Surgical Intervention and Mortality in 15,813 Acute Pancreatitis. <i>Computational and Mathematical Methods in Medicine</i> , 2020, 2020, 1-8.	0.7	2
84	Stress Optimization of Vent Holes with Different Shapes Using Efficient Switching Delayed PSO Algorithm. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 5395.	1.3	2
85	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.	0.4	1
86	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.	3.0	1
87	Recovery of Under-sampled Signal During Highspeed Machining Condition Monitoring Using Approximate Sparsity in Frequency Domain. , 2020, , .		0
88	Editorial: Data-Enabled Intelligence for Medical Technology Innovation, Volume I. <i>Frontiers in Medical Technology</i> , 2021, 3, 841150.	1.3	0