

Cheng-Jian Lin

List of Publications by Citations

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95
papers

1,198
citations

16
h-index

32
g-index

107
ext. papers

1,468
ext. citations

3
avg, IF

5.08
L-index

#	Paper	IF	Citations
95	An ART-based fuzzy adaptive learning control network. <i>IEEE Transactions on Fuzzy Systems</i> , 1997 , 5, 477-496	7.8	140
94	A Hybrid of Cooperative Particle Swarm Optimization and Cultural Algorithm for Neural Fuzzy Networks and Its Prediction Applications. <i>IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews</i> , 2009 , 39, 55-68		131
93	Prediction and identification using wavelet-based recurrent fuzzy neural networks. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , 2004 , 34, 2144-54		109
92	Applying fuzzy method to vision-based lane detection and departure warning system. <i>Expert Systems With Applications</i> , 2010 , 37, 113-126	7.8	66
91	Nonlinear System Control Using Adaptive Neural Fuzzy Networks Based on a Modified Differential Evolution. <i>IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews</i> , 2009 , 39, 459-473		65
90	A Functional-Link-Based Neurofuzzy Network for Nonlinear System Control. <i>IEEE Transactions on Fuzzy Systems</i> , 2008 , 16, 1362-1378	8.3	54
89	A new potential field method for mobile robot path planning in the dynamic environments. <i>Asian Journal of Control</i> , 2009 , 11, 214-225	1.7	41
88	Applying a Functional Neurofuzzy Network to Real-Time Lane Detection and Front-Vehicle Distance Measurement. <i>IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews</i> , 2012 , 42, 577-589		39
87	An efficient immune-based symbiotic particle swarm optimization learning algorithm for TSK-type neuro-fuzzy networks design. <i>Fuzzy Sets and Systems</i> , 2008 , 159, 2890-2909	3.7	39
86	Efficient Self-Evolving Evolutionary Learning for Neurofuzzy Inference Systems. <i>IEEE Transactions on Fuzzy Systems</i> , 2008 , 16, 1476-1490	8.3	29
85	Navigation Control of Mobile Robots Using an Interval Type-2 Fuzzy Controller Based on Dynamic-group Particle Swarm Optimization. <i>International Journal of Control, Automation and Systems</i> , 2018 , 16, 2446-2457	2.9	26
84	Non-linear system control using a recurrent fuzzy neural network based on improved particle swarm optimisation. <i>International Journal of Systems Science</i> , 2010 , 41, 381-395	2.3	25
83	An effective hybrid of hill climbing and genetic algorithm for 2D triangular protein structure prediction. <i>Proteome Science</i> , 2011 , 9 Suppl 1, S19	2.6	22
82	A self-constructing fuzzy CMAC model and its applications. <i>Information Sciences</i> , 2007 , 177, 264-280	7.7	19
81	Using 2D CNN with Taguchi Parametric Optimization for Lung Cancer Recognition from CT Images. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 2591	2.6	18
80	An efficient hybrid Taguchi-genetic algorithm for protein folding simulation. <i>Expert Systems With Applications</i> , 2009 , 36, 12446-12453	7.8	17
79	3D reconstruction and face recognition using kernel-based ICA and neural networks. <i>Expert Systems With Applications</i> , 2011 , 38, 5406-5415	7.8	16

78	Optimization of printed circuit board component placement using an efficient hybrid genetic algorithm. <i>Applied Intelligence</i> , 2016 , 45, 622-637	4.9	15
77	A hybrid evolutionary learning algorithm for TSK-type fuzzy model design. <i>Mathematical and Computer Modelling</i> , 2006 , 43, 563-581		14
76	Mobile Robot Wall-Following Control Using Fuzzy Logic Controller with Improved Differential Search and Reinforcement Learning. <i>Mathematics</i> , 2020 , 8, 1254	2.3	12
75	The application of an interactively recurrent self-evolving fuzzy CMAC classifier on face detection in color images. <i>Neural Computing and Applications</i> , 2018 , 29, 201-213	4.8	11
74	The design of TSK-type fuzzy controllers using a new hybrid learning approach. <i>International Journal of Adaptive Control and Signal Processing</i> , 2006 , 20, 1-25	2.8	10
73	Using a hybrid of fuzzy theory and neural network filter for single image dehazing. <i>Applied Intelligence</i> , 2017 , 47, 1099-1114	4.9	9
72	Multiple Convolutional Neural Networks Fusion Using Improved Fuzzy Integral for Facial Emotion Recognition. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 2593	2.6	9
71	Evolutionary-Fuzzy-Integral-Based Convolutional Neural Networks for Facial Image Classification. <i>Electronics (Switzerland)</i> , 2019 , 8, 997	2.6	8
70	Wall-following and Navigation Control of Mobile Robot Using Reinforcement Learning Based on Dynamic Group Artificial Bee Colony. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2018 , 92, 343-357	2.9	8
69	Face detection in color images using efficient genetic algorithms. <i>Optical Engineering</i> , 2006 , 45, 047201	1.1	8
68	Forecasting of e-commerce transaction volume using a hybrid of extreme learning machine and improved moth-flame optimization algorithm. <i>Applied Intelligence</i> , 2021 , 51, 952-965	4.9	8
67	FPGA Implementation of a Functional Neuro-Fuzzy Network for Nonlinear System Control. <i>Electronics (Switzerland)</i> , 2018 , 7, 145	2.6	8
66	Using Deep Principal Components Analysis-Based Neural Networks for Fabric Pilling Classification. <i>Electronics (Switzerland)</i> , 2019 , 8, 474	2.6	7
65	Using convolutional neural networks for character verification on integrated circuit components of printed circuit boards. <i>Applied Intelligence</i> , 2019 , 49, 4022-4032	4.9	7
64	Smart Robot Wall-Following Control Using a Sonar Behavior-based Fuzzy Controller in Unknown Environments. <i>Smart Science</i> , 2017 , 5, 160-166	1.5	7
63	Using an Efficient Immune Symbiotic Evolution Learning for Compensatory Neuro-Fuzzy Controller. <i>IEEE Transactions on Fuzzy Systems</i> , 2009 , 17, 668-682	8.3	7
62	A novel evolution learning for recurrent wavelet-based neuro-fuzzy networks. <i>Soft Computing</i> , 2006 , 10, 193-205	3.5	7
61	Efficient reinforcement learning through dynamic symbiotic evolution for TSK-type fuzzy controller design. <i>International Journal of General Systems</i> , 2005 , 34, 559-578	2.1	7

60	Using Generative Adversarial Networks and Parameter Optimization of Convolutional Neural Networks for Lung Tumor Classification. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 480	2.6	7
59	Cooperative Carrying Control for Multi-Evolutionary Mobile Robots in Unknown Environments. <i>Electronics (Switzerland)</i> , 2019 , 8, 298	2.6	6
58	Design and Verification of an Interval Type-2 Fuzzy Neural Network Based on Improved Particle Swarm Optimization. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 3041	2.6	6
57	Using Feature Fusion and Parameter Optimization of Dual-input Convolutional Neural Network for Face Gender Recognition. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 3166	2.6	6
56	An efficient forecasting model based on an improved fuzzy time series and a modified group search optimizer. <i>Applied Intelligence</i> , 2017 , 46, 641-651	4.9	6
55	Implementation of a neuro-fuzzy network with on-chip learning and its applications. <i>Expert Systems With Applications</i> , 2011 , 38, 673-681	7.8	6
54	Optimization of Deep Learning Network Parameters Using Uniform Experimental Design for Breast Cancer Histopathological Image Classification. <i>Diagnostics</i> , 2020 , 10,	3.8	6
53	Using Ultrasonic Sensors and a Knowledge-Based Neural Fuzzy Controller for Mobile Robot Navigation Control. <i>Electronics (Switzerland)</i> , 2021 , 10, 466	2.6	6
52	Integrated Computer Vision and Type-2 Fuzzy CMAC Model for Classifying Pilling of Knitted Fabric. <i>Electronics (Switzerland)</i> , 2018 , 7, 367	2.6	6
51	Image haze removal using a hybrid of fuzzy inference system and weighted estimation. <i>Journal of Electronic Imaging</i> , 2015 , 24, 033027	0.7	5
50	A hybrid of cooperative particle swarm optimization and cultural algorithm for neural fuzzy networks 2008 ,		5
49	Time-series prediction using adaptive neuro-fuzzy networks. <i>International Journal of Systems Science</i> , 2004 , 35, 273-286	2.3	5
48	Mobile robot navigation control using recurrent fuzzy cerebellar model articulation controller based on improved dynamic artificial bee colony. <i>Advances in Mechanical Engineering</i> , 2016 , 8, 168781401668123	1.2	5
47	Using a Reinforcement Q-Learning-Based Deep Neural Network for Playing Video Games. <i>Electronics (Switzerland)</i> , 2019 , 8, 1128	2.6	5
46	Interval Type-2 Neural Fuzzy Controller-Based Navigation of Cooperative Load-Carrying Mobile Robots in Unknown Environments. <i>Sensors</i> , 2018 , 18,	3.8	5
45	Using a Hybrid of Interval Type-2 RFCMAC and Bilateral Filter for Satellite Image Dehazing. <i>Electronics (Switzerland)</i> , 2020 , 9, 710	2.6	4
44	Fuzzy Theory Using in Image Contrast Enhancement Technology. <i>International Journal of Fuzzy Systems</i> , 2017 , 19, 1750-1758	3.6	4
43	An adaptive-group-based differential evolution algorithm for inspecting machined workpiece path planning. <i>International Journal of Advanced Manufacturing Technology</i> , 2019 , 105, 2647-2657	3.2	4

42	AN EFFICIENT EVOLUTIONARY NEURAL FUZZY CONTROLLER FOR THE INVERTED PENDULUM SYSTEM. <i>Cybernetics and Systems</i> , 2014 , 45, 324-348	1.9	4
41	A Study of Digital Image Enlargement and Enhancement. <i>Mathematical Problems in Engineering</i> , 2014 , 2014, 1-7	1.1	4
40	Using Interval Type-2 Recurrent Fuzzy Cerebellar Model Articulation Controller Based on Improved Differential Evolution for Cooperative Carrying Control of Mobile Robots. <i>Sensors and Materials</i> , 2018 , 30, 2499	1.5	4
39	A Real-Time Vehicle Counting, Speed Estimation, and Classification System Based on Virtual Detection Zone and YOLO. <i>Mathematical Problems in Engineering</i> , 2021 , 2021, 1-10	1.1	4
38	Using Convolutional Neural Networks Based on a Taguchi Method for Face Gender Recognition. <i>Electronics (Switzerland)</i> , 2020 , 9, 1227	2.6	4
37	Efficient hybrid group search optimizer for assembling printed circuit boards. <i>Artificial Intelligence for Engineering Design, Analysis and Manufacturing: AIEDAM</i> , 2019 , 33, 259-274	1.3	3
36	A Fuzzy Cerebellar Model Articulation Controller Using a Strategy-Adaptation-Based Bacterial Foraging Optimization Algorithm for Classification Applications. <i>International Journal of Fuzzy Systems</i> , 2015 , 17, 303-308	3.6	3
35	A recurrent neural fuzzy controller based on self-organizing improved particle swarm optimization for a magnetic levitation system. <i>International Journal of Adaptive Control and Signal Processing</i> , 2015 , 29, 563-580	2.8	3
34	Using a Self-Clustering Algorithm and Type-2 Fuzzy Controller for Multi-robot Deployment and Navigation in Dynamic Environments. <i>Asian Journal of Control</i> , 2020 , 22, 2143-2155	1.7	3
33	Navigation control of mobile robot using interval type-2 neural fuzzy controller optimized by dynamic group differential evolution. <i>Advances in Mechanical Engineering</i> , 2018 , 10, 168781401775248	1.2	3
32	A wavelet-based neuro-fuzzy system and its applications		3
31	Intelligent Traffic-Monitoring System Based on YOLO and Convolutional Fuzzy Neural Networks. <i>IEEE Access</i> , 2022 , 10, 14120-14133	3.5	3
30	Lung Nodule Classification Using Taguchi-Based Convolutional Neural Networks for Computer Tomography Images. <i>Electronics (Switzerland)</i> , 2020 , 9, 1066	2.6	3
29	Medical diagnosis applications using a novel interactively recurrent self-evolving fuzzy CMAC model 2014 ,		2
28	Mobile robot wall-following control using a fuzzy cerebellar model articulation controller with group-based strategy bacterial foraging optimization. <i>International Journal of Advanced Robotic Systems</i> , 2017 , 14, 172988141772087	1.4	2
27	An implementation of Functional Neural Fuzzy Controller for the electrical 6-DOF Stewart Platform 2011 ,		2
26	An efficient evolutionary algorithm for fuzzy inference systems. <i>Evolving Systems</i> , 2011 , 2, 83-99	2.1	2
25	Design of a lane detection and departure warning system using functional-link-based neuro-fuzzy networks 2010 ,		2

24	An efficient hybrid of hill-climbing and genetic algorithm for 2D triangular protein structure prediction 2010 ,		2
23	CHORD RECOGNITION USING NEURAL NETWORKS BASED ON PARTICLE SWARM OPTIMIZATION. <i>Cybernetics and Systems</i> , 2011 , 42, 264-282	1.9	2
22	. <i>IEEE Access</i> , 2020 , 8, 122626-122640	3.5	2
21	Using Fuzzy Control for Feed Rate Scheduling of Computer Numerical Control Machine Tools. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 4701	2.6	2
20	Bearing Fault Diagnosis Using a Grad-CAM-Based Convolutional Neuro-Fuzzy Network. <i>Mathematics</i> , 2021 , 9, 1502	2.3	2
19	Unstable System Control Using an Improved Particle Swarm Optimization-Based Neural Network Controller. <i>Electronics (Switzerland)</i> , 2019 , 8, 1302	2.6	2
18	Nonlinear system control using a fuzzy cerebellar model articulation controller involving reinforcement-strategy-based bacterial foraging optimization. <i>Advances in Mechanical Engineering</i> , 2018 , 10, 168781401879742	1.2	2
17	Fuzzy Logic Controller for Automating Electrical Conductivity and pH in Hydroponic Cultivation. <i>Applied Sciences (Switzerland)</i> , 2022 , 12, 405	2.6	2
16	Dynamic System Identification and Prediction Using a Self-Evolving Takagi-Sugeno-Kang-Type Fuzzy CMAC Network. <i>Electronics (Switzerland)</i> , 2020 , 9, 631	2.6	1
15	Editorial Message: Special Issue on Fuzzy Theory and Its Applications. <i>International Journal of Fuzzy Systems</i> , 2017 , 19, 1659-1659	3.6	1
14	A SELF-ORGANIZING QUANTUM NEURAL FUZZY NETWORK AND ITS APPLICATIONS. <i>Cybernetics and Systems</i> , 2006 , 37, 839-859	1.9	1
13	FGSC: Fuzzy Guided Scale Choice SSD Model for Edge AI Design on Real-Time Vehicle Detection and Class Counting. <i>Sensors</i> , 2021 , 21,	3.8	1
12	Using an Adaptive Fuzzy Neural Network Based on a Multi-Strategy-Based Artificial Bee Colony for Mobile Robot Control. <i>Mathematics</i> , 2020 , 8, 1223	2.3	1
11	Parameter Selection and Optimization of an Intelligent Ultrasonic-Assisted Grinding System for SiC Ceramics. <i>IEEE Access</i> , 2020 , 8, 195721-195732	3.5	1
10	Integrated Image Sensor and Light Convolutional Neural Network for Image Classification. <i>Mathematical Problems in Engineering</i> , 2021 , 2021, 1-7	1.1	1
9	Transmission map estimation of weather-degraded images using a hybrid of recurrent fuzzy cerebellar model articulation controller and weighted strategy. <i>Optical Engineering</i> , 2016 , 55, 083104	1.1	1
8	Deployment and navigation of multiple robots using a self-clustering method and type-2 fuzzy controller in dynamic environments. <i>Journal of Intelligent and Fuzzy Systems</i> , 2019 , 37, 2181-2195	1.6	1
7	Tool wear prediction using a hybrid of tool chip image and evolutionary fuzzy neural network. <i>International Journal of Advanced Manufacturing Technology</i> , 1	3.2	1

6	Prediction and Analysis of the Surface Roughness in CNC End Milling Using Neural Networks. <i>Applied Sciences (Switzerland)</i> , 2022 , 12, 393	2.6	1
5	Edge-AI-Based Real-Time Automated License Plate Recognition System. <i>Applied Sciences (Switzerland)</i> , 2022 , 12, 1445	2.6	0
4	Corrections to "Reinforcement Learning for an ART-Based Fuzzy Adaptive Learning Control Network". <i>IEEE Transactions on Neural Networks</i> , 1996 , 7, 1315		
3	Automatic Receipt Recognition System Based on Artificial Intelligence Technology. <i>Applied Sciences (Switzerland)</i> , 2022 , 12, 853	2.6	
2	Image contrast expand enhancement system based on fuzzy theory. <i>Microsystem Technologies</i> , 2021 , 27, 1579-1587	1.7	
1	Using an Improved Differential Evolution for Scheduling Optimization of Dual-Gantry Multi-Head Surface-Mount Placement Machine. <i>Mathematics</i> , 2021 , 9, 2016	2.3	