Cheng-Jian Lin

List of Publications by Year in Descending Order

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	Automatic Receipt Recognition System Based on Artificial Intelligence Technology. *Applied Sciences (Switzerland)*, **2022**, 12, 853	2.6	
94	Intelligent Traffic-Monitoring System Based on YOLO and Convolutional Fuzzy Neural Networks. *IEEE Access*, **2022**, 10, 14120-14133	3.5	3
93	Edge-AI-Based Real-Time Automated License Plate Recognition System. *Applied Sciences (Switzerland)*, **2022**, 12, 1445	2.6	0
92	Prediction and Analysis of the Surface Roughness in CNC End Milling Using Neural Networks. *Applied Sciences (Switzerland)*, **2022**, 12, 393	2.6	1
91	Fuzzy Logic Controller for Automating Electrical Conductivity and pH in Hydroponic Cultivation. *Applied Sciences (Switzerland)*, **2022**, 12, 405	2.6	2
90	A Real-Time Vehicle Counting, Speed Estimation, and Classification System Based on Virtual Detection Zone and YOLO. *Mathematical Problems in Engineering*, **2021**, 2021, 1-10	1.1	4
89	FGSC: Fuzzy Guided Scale Choice SSD Model for Edge AI Design on Real-Time Vehicle Detection and Class Counting. *Sensors*, **2021**, 21,	3.8	1
88	Integrated Image Sensor and Light Convolutional Neural Network for Image Classification. *Mathematical Problems in Engineering*, **2021**, 2021, 1-7	1.1	1
87	Using Fuzzy Control for Feed Rate Scheduling of Computer Numerical Control Machine Tools. *Applied Sciences (Switzerland)*, **2021**, 11, 4701	2.6	2
86	Bearing Fault Diagnosis Using a Grad-CAM-Based Convolutional Neuro-Fuzzy Network. *Mathematics* , **2021**, 9, 1502	2.3	2
85	Image contrast expand enhancement system based on fuzzy theory. *Microsystem Technologies*, **2021**, 27, 1579-1587	1.7	
84	Forecasting of e-commerce transaction volume using a hybrid of extreme learning machine and improved moth-flame optimization algorithm. *Applied Intelligence*, **2021**, 51, 952-965	4.9	8
83	Using Generative Adversarial Networks and Parameter Optimization of Convolutional Neural Networks for Lung Tumor Classification. *Applied Sciences (Switzerland)*, **2021**, 11, 480	2.6	7
82	Using Ultrasonic Sensors and a Knowledge-Based Neural Fuzzy Controller for Mobile Robot Navigation Control. *Electronics (Switzerland)*, **2021**, 10, 466	2.6	6
81	Using an Improved Differential Evolution for Scheduling Optimization of Dual-Gantry Multi-Head Surface-Mount Placement Machine. *Mathematics*, **2021**, 9, 2016	2.3	
80	Design and Verification of an Interval Type-2 Fuzzy Neural Network Based on Improved Particle Swarm Optimization. *Applied Sciences (Switzerland)*, **2020**, 10, 3041	2.6	6
79	Using Feature Fusion and Parameter Optimization of Dual-input Convolutional Neural Network for Face Gender Recognition. *Applied Sciences (Switzerland)*, **2020**, 10, 3166	2.6	6

78	Using a Hybrid of Interval Type-2 RFCMAC and Bilateral Filter for Satellite Image Dehazing. *Electronics (Switzerland)*, **2020**, 9, 710	2.6	4
77	Using a Self-Clustering Algorithm and Type-2 Fuzzy Controller for Multi-robot Deployment and Navigation in Dynamic Environments. *Asian Journal of Control*, **2020**, 22, 2143-2155	1.7	3
76	Dynamic System Identification and Prediction Using a Self-Evolving TakagiSugenoKang-Type Fuzzy CMAC Network. *Electronics (Switzerland)*, **2020**, 9, 631	2.6	1
75	Using 2D CNN with Taguchi Parametric Optimization for Lung Cancer Recognition from CT Images. *Applied Sciences (Switzerland)*, **2020**, 10, 2591	2.6	18
74	. *IEEE Access*, **2020**, 8, 122626-122640	3.5	2
73	Lung Nodule Classification Using Taguchi-Based Convolutional Neural Networks for Computer Tomography Images. *Electronics (Switzerland)*, **2020**, 9, 1066	2.6	3
72	Mobile Robot Wall-Following Control Using Fuzzy Logic Controller with Improved Differential Search and Reinforcement Learning. *Mathematics*, **2020**, 8, 1254	2.3	12
71	Optimization of Deep Learning Network Parameters Using Uniform Experimental Design for Breast Cancer Histopathological Image Classification. *Diagnostics*, **2020**, 10,	3.8	6
70	Using Convolutional Neural Networks Based on a Taguchi Method for Face Gender Recognition. *Electronics (Switzerland)*, **2020**, 9, 1227	2.6	4
69	Using an Adaptive Fuzzy Neural Network Based on a Multi-Strategy-Based Artificial Bee Colony for Mobile Robot Control. *Mathematics*, **2020**, 8, 1223	2.3	1
68	Parameter Selection and Optimization of an Intelligent Ultrasonic-Assisted Grinding System for SiC Ceramics. *IEEE Access*, **2020**, 8, 195721-195732	3.5	1
67	Evolutionary-Fuzzy-Integral-Based Convolutional Neural Networks for Facial Image Classification. *Electronics (Switzerland)*, **2019**, 8, 997	2.6	8
66	Efficient hybrid group search optimizer for assembling printed circuit boards. *Artificial Intelligence for Engineering Design, Analysis and Manufacturing: AIEDAM*, **2019**, 33, 259-274	1.3	3
65	Using Deep Principal Components Analysis-Based Neural Networks for Fabric Pilling Classification. *Electronics (Switzerland)*, **2019**, 8, 474	2.6	7
64	Using convolutional neural networks for character verification on integrated circuit components of printed circuit boards. *Applied Intelligence*, **2019**, 49, 4022-4032	4.9	7
63	Cooperative Carrying Control for Multi-Evolutionary Mobile Robots in Unknown Environments. *Electronics (Switzerland)*, **2019**, 8, 298	2.6	6
62	Multiple Convolutional Neural Networks Fusion Using Improved Fuzzy Integral for Facial Emotion Recognition. *Applied Sciences (Switzerland)*, **2019**, 9, 2593	2.6	9
61	An adaptive-group-based differential evolution algorithm for inspecting machined workpiece path planning. *International Journal of Advanced Manufacturing Technology*, **2019**, 105, 2647-2657	3.2	4

60	Deployment and navigation of multiple robots using a self-clustering method and type-2 fuzzy controller in dynamic environments. *Journal of Intelligent and Fuzzy Systems*, **2019**, 37, 2181-2195	1.6	1
59	Unstable System Control Using an Improved Particle Swarm Optimization-Based Neural Network Controller. *Electronics (Switzerland)*, **2019**, 8, 1302	2.6	2
58	Using a Reinforcement Q-Learning-Based Deep Neural Network for Playing Video Games. *Electronics (Switzerland)*, **2019**, 8, 1128	2.6	5
57	Navigation control of mobile robot using interval type-2 neural fuzzy controller optimized by dynamic group differential evolution. *Advances in Mechanical Engineering*, **2018**, 10, 168781401775248	1.2	3
56	Wall-following and Navigation Control of Mobile Robot Using Reinforcement Learning Based on Dynamic Group Artificial Bee Colony. *Journal of Intelligent and Robotic Systems: Theory and Applications*, **2018**, 92, 343-357	2.9	8
55	Using Interval Type-2 Recurrent Fuzzy Cerebellar Model Articulation Controller Based on Improved Differential Evolution for Cooperative Carrying Control of Mobile Robots. *Sensors and Materials*, **2018**, 30, 2499	1.5	4
54	The application of an interactively recurrent self-evolving fuzzy CMAC classifier on face detection in color images. *Neural Computing and Applications*, **2018**, 29, 201-213	4.8	11
53	Integrated Computer Vision and Type-2 Fuzzy CMAC Model for Classifying Pilling of Knitted Fabric. *Electronics (Switzerland)*, **2018**, 7, 367	2.6	6
52	Interval Type-2 Neural Fuzzy Controller-Based Navigation of Cooperative Load-Carrying Mobile Robots in Unknown Environments. *Sensors*, **2018**, 18,	3.8	5
51	Nonlinear system control using a fuzzy cerebellar model articulation controller involving reinforcement-strategy-based bacterial foraging optimization. *Advances in Mechanical Engineering*, **2018**, 10, 168781401879742	1.2	2
50	FPGA Implementation of a Functional Neuro-Fuzzy Network for Nonlinear System Control. *Electronics (Switzerland)*, **2018**, 7, 145	2.6	8
49	Navigation Control of Mobile Robots Using an Interval Type-2 Fuzzy Controller Based on Dynamic-group Particle Swarm Optimization. *International Journal of Control, Automation and Systems*, **2018**, 16, 2446-2457	2.9	26
48	Using a hybrid of fuzzy theory and neural network filter for single image dehazing. *Applied Intelligence*, **2017**, 47, 1099-1114	4.9	9
47	Fuzzy Theory Using in Image Contrast Enhancement Technology. *International Journal of Fuzzy Systems*, **2017**, 19, 1750-1758	3.6	4
46	Mobile robot wall-following control using a fuzzy cerebellar model articulation controller with group-based strategy bacterial foraging optimization. *International Journal of Advanced Robotic Systems*, **2017**, 14, 172988141772087	1.4	2
45	Smart Robot Wall-Following Control Using a Sonar Behavior-based Fuzzy Controller in Unknown Environments. *Smart Science*, **2017**, 5, 160-166	1.5	7
44	An efficient forecasting model based on an improved fuzzy time series and a modified group search optimizer. *Applied Intelligence*, **2017**, 46, 641-651	4.9	6
43	Editorial Message: Special Issue on Fuzzy Theory and Its Applications. *International Journal of Fuzzy Systems*, **2017**, 19, 1659-1659	3.6	1

42	Mobile robot navigation control using recurrent fuzzy cerebellar model articulation controller based on improved dynamic artificial bee colony. *Advances in Mechanical Engineering*, **2016**, 8, 168781401668123	1.2	5
41	Transmission map estimation of weather-degraded images using a hybrid of recurrent fuzzy cerebellar model articulation controller and weighted strategy. *Optical Engineering*, **2016**, 55, 083104	1.1	1
40	Optimization of printed circuit board component placement using an efficient hybrid genetic algorithm. *Applied Intelligence*, **2016**, 45, 622-637	4.9	15
39	Image haze removal using a hybrid of fuzzy inference system and weighted estimation. *Journal of Electronic Imaging*, **2015**, 24, 033027	0.7	5
38	A Fuzzy Cerebellar Model Articulation Controller Using a Strategy-Adaptation-Based Bacterial Foraging Optimization Algorithm for Classification Applications. *International Journal of Fuzzy Systems*, **2015**, 17, 303-308	3.6	3
37	A recurrent neural fuzzy controller based on self-organizing improved particle swarm optimization for a magnetic levitation system. *International Journal of Adaptive Control and Signal Processing*, **2015**, 29, 563-580	2.8	3
36	Medical diagnosis applications using a novel interactively recurrent self-evolving fuzzy CMAC model **2014**,		2
35	AN EFFICIENT EVOLUTIONARY NEURAL FUZZY CONTROLLER FOR THE INVERTED PENDULUM SYSTEM. *Cybernetics and Systems*, **2014**, 45, 324-348	1.9	4
34	A Study of Digital Image Enlargement and Enhancement. *Mathematical Problems in Engineering*, **2014**, 2014, 1-7	1.1	4
33	Applying a Functional Neurofuzzy Network to Real-Time Lane Detection and Front-Vehicle Distance Measurement. *IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews*, **2012**, 42, 577-589		39
32	An implementation of Functional Neural Fuzzy Controller for the electrical 6-DOF Stewart Platform **2011**,		2
31	Implementation of a neuro-fuzzy network with on-chip learning and its applications. *Expert Systems With Applications*, **2011**, 38, 673-681	7.8	6
30	An efficient evolutionary algorithm for fuzzy inference systems. *Evolving Systems*, **2011**, 2, 83-99	2.1	2
29	An effective hybrid of hill climbing and genetic algorithm for 2D triangular protein structure prediction. *Proteome Science*, **2011**, 9 Suppl 1, S19	2.6	22
28	3D reconstruction and face recognition using kernel-based ICA and neural networks. *Expert Systems With Applications*, **2011**, 38, 5406-5415	7.8	16
27	CHORD RECOGNITION USING NEURAL NETWORKS BASED ON PARTICLE SWARM OPTIMIZATION. *Cybernetics and Systems*, **2011**, 42, 264-282	1.9	2
26	Design of a lane detection and departure warning system using functional-link-based neuro-fuzzy networks **2010**,		2
25	Non-linear system control using a recurrent fuzzy neural network based on improved particle swarm optimisation. *International Journal of Systems Science*, **2010**, 41, 381-395	2.3	25

24	An efficient hybrid of hill-climbing and genetic algorithm for 2D triangular protein structure prediction **2010**,		2
23	Applying fuzzy method to vision-based lane detection and departure warning system. *Expert Systems With Applications*, **2010**, 37, 113-126	7.8	66
22	Using an Efficient Immune Symbiotic Evolution Learning for Compensatory Neuro-Fuzzy Controller. *IEEE Transactions on Fuzzy Systems*, **2009**, 17, 668-682	8.3	7
21	An efficient hybrid Taguchi-genetic algorithm for protein folding simulation. *Expert Systems With Applications*, **2009**, 36, 12446-12453	7.8	17
20	A new potential field method for mobile robot path planning in the dynamic environments. *Asian Journal of Control*, **2009**, 11, 214-225	1.7	41
19	A Hybrid of Cooperative Particle Swarm Optimization and Cultural Algorithm for Neural Fuzzy Networks and Its Prediction Applications. *IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews*, **2009**, 39, 55-68		131
18	Nonlinear System Control Using Adaptive Neural Fuzzy Networks Based on a Modified Differential Evolution. *IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews*, **2009** , 39, 459-473		65
17	A Functional-Link-Based Neurofuzzy Network for Nonlinear System Control. *IEEE Transactions on Fuzzy Systems*, **2008**, 16, 1362-1378	8.3	54
16	A hybrid of cooperative particle swarm optimization and cultural algorithm for neural fuzzy networks **2008**,		5
15	Efficient Self-Evolving Evolutionary Learning for Neurofuzzy Inference Systems. *IEEE Transactions on Fuzzy Systems*, **2008**, 16, 1476-1490	8.3	29
14	An efficient immune-based symbiotic particle swarm optimization learning algorithm for TSK-type neuro-fuzzy networks design. *Fuzzy Sets and Systems*, **2008**, 159, 2890-2909	3.7	39
13	A self-constructing fuzzy CMAC model and its applications. *Information Sciences*, **2007**, 177, 264-280	7.7	19
12	The design of TSK-type fuzzy controllers using a new hybrid learning approach. *International Journal of Adaptive Control and Signal Processing*, **2006**, 20, 1-25	2.8	10
11	Face detection in color images using efficient genetic algorithms. *Optical Engineering*, **2006**, 45, 047201	1.1	8
10	A SELF-ORGANIZING QUANTUM NEURAL FUZZY NETWORK AND ITS APPLICATIONS. *Cybernetics and Systems*, **2006**, 37, 839-859	1.9	1
9	A hybrid evolutionary learning algorithm for TSK-type fuzzy model design. *Mathematical and Computer Modelling*, **2006**, 43, 563-581		14
8	A novel evolution learning for recurrent wavelet-based neuro-fuzzy networks. *Soft Computing*, **2006**, 10, 193-205	3.5	7
7	Efficient reinforcement learning through dynamic symbiotic evolution for TSK-type fuzzy controller design. *International Journal of General Systems*, **2005**, 34, 559-578	2.1	7

6	Time-series prediction using adaptive neuro-fuzzy networks. *International Journal of Systems Science*, **2004**, 35, 273-286	2.3	5
5	Prediction and identification using wavelet-based recurrent fuzzy neural networks. *IEEE Transactions on Systems, Man, and Cybernetics*, **2004**, 34, 2144-54		109
4	An ART-based fuzzy adaptive learning control network. *IEEE Transactions on Fuzzy Systems*, **1997**, 5, 477-496	3.6	140
3	Corrections to "Reinforcement Learning for an ART-Based Fuzzy Adaptive Learning Control Network". *IEEE Transactions on Neural Networks*, **1996**, 7, 1315		
2	A wavelet-based neuro-fuzzy system and its applications		3
1	Tool wear prediction using a hybrid of tool chip image and evolutionary fuzzy neural network. *International Journal of Advanced Manufacturing Technology*,1	3.2	1