Meng Joo Er

List of Publications by Year
in descending order

162 papers	6,569 citations	76326 40 h-index	69250 77 g-index
165 all docs	165 docs citations	165 times ranked	5226 citing authors

#	Article	IF	Citations
1	A review of clustering techniques and developments. Neurocomputing, 2017, 267, 664-681.	5.9	766
2	Face recognition with radial basis function (RBF) neural networks. IEEE Transactions on Neural Networks, 2002, 13, 697-710.	4.2	496
3	A fast approach for automatic generation of fuzzy rules by generalized dynamic fuzzy neural networks. IEEE Transactions on Fuzzy Systems, 2001, 9, 578-594.	9.8	319
4	High-Speed Face Recognition Based on Discrete Cosine Transform and RBF Neural Networks. IEEE Transactions on Neural Networks, 2005, 16, 679-691.	4.2	226
5	NARMAX time series model prediction: feedforward and recurrent fuzzy neural network approaches. Fuzzy Sets and Systems, 2005, 150, 331-350.	2.7	201
6	Direct Adaptive Fuzzy Tracking Control of Marine Vehicles With Fully Unknown Parametric Dynamics and Uncertainties. IEEE Transactions on Control Systems Technology, 2016, 24, 1845-1852.	5.2	173
7	Online adaptive fuzzy neural identification and control of a class of mimo nonlinear systems. IEEE Transactions on Fuzzy Systems, 2003, 11, 462-477.	9.8	172
8	Coverage path planning for UAVs based on enhanced exact cellular decomposition method. Mechatronics, 2011, 21, 876-885.	3.3	145
9	Event-Triggered Consensus of Linear Multiagent Systems With Time-Varying Communication Delays. IEEE Transactions on Cybernetics, 2020, 50, 2916-2925.	9.5	139
10	Composite adaptive fuzzy H^∞ tracking control of uncertain nonlinear systems. Neurocomputing, 2013, 99, 15-24.	5.9	135
11	Global Asymptotic Model-Free Trajectory-Independent Tracking Control of an Uncertain Marine Vehicle: An Adaptive Universe-Based Fuzzy Control Approach. IEEE Transactions on Fuzzy Systems, 2018, 26, 1613-1625.	9.8	133
12	Finite-time observer based accurate tracking control of a marine vehicle with complex unknowns. Ocean Engineering, 2017, 145, 406-415.	4.3	124
13	A fast and accurate online self-organizing scheme for parsimonious fuzzy neural networks. Neurocomputing, 2009, 72, 3818-3829.	5.9	122
14	Adaptive Fuzzy Control With Guaranteed Convergence of Optimal Approximation Error. IEEE Transactions on Fuzzy Systems, 2011, 19, 807-818.	9.8	121
15	An Incremental Learning of Concept Drifts Using Evolving Type-2 Recurrent Fuzzy Neural Networks. IEEE Transactions on Fuzzy Systems, 2017, 25, 1175-1192.	9.8	112
16	An online sequential learning algorithm for regularized Extreme Learning Machine. Neurocomputing, 2016, 173, 778-788.	5.9	109
17	Robust adaptive control of robot manipulators using generalized fuzzy neural networks. IEEE Transactions on Industrial Electronics, 2003, 50, 620-628.	7.9	104
18	PCA and LDA in DCT domain. Pattern Recognition Letters, 2005, 26, 2474-2482.	4.2	104

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19	Parsimonious Extreme Learning Machine Using Recursive Orthogonal Least Squares. IEEE Transactions on Neural Networks and Learning Systems, 2014, 25, 1828-1841.	11.3	104
20	Fast and Accurate Trajectory Tracking Control of an Autonomous Surface Vehicle With Unmodeled Dynamics and Disturbances. IEEE Transactions on Intelligent Vehicles, 2016, 1, 230-243.	12.7	103
21	A local binary pattern based texture descriptors for classification of tea leaves. Neurocomputing, 2015, 168, 1011-1023.	5.9	97
22	Reduced Adaptive Fuzzy Decoupling Control for Lower Limb Exoskeleton. IEEE Transactions on Cybernetics, 2021, 51, 1099-1109.	9.5	89
23	Obstacle Avoidance of a Mobile Robot Using Hybrid Learning Approach. IEEE Transactions on Industrial Electronics, 2005, 52, 898-905.	7.9	88
24	Hybrid Fuzzy Control of Robotics Systems. IEEE Transactions on Fuzzy Systems, 2004, 12, 755-765.	9.8	84
25	Enhanced Adaptive Fuzzy Control With Optimal Approximation Error Convergence. IEEE Transactions on Fuzzy Systems, 2013, 21, 1123-1132.	9.8	81
26	A multilayer path planner for a USV under complex marine environments. Ocean Engineering, 2019, 184, 1-10.	4.3	81
27	Hybrid fuzzy proportional-integral plus conventional derivative control of linear and nonlinear systems. IEEE Transactions on Industrial Electronics, 2001, 48, 1109-1117.	7.9	76
28	A fast learning algorithm for parsimonious fuzzy neural systems. Fuzzy Sets and Systems, 2002, 126, 337-351.	2.7	71
29	Machine health condition prediction via online dynamic fuzzy neural networks. Engineering Applications of Artificial Intelligence, 2014, 35, 105-113.	8.1	67
30	Sequential fuzzy clustering based dynamic fuzzy neural network for fault diagnosis and prognosis. Neurocomputing, 2016, 196, 31-41.	5.9	65
31	Large Tanker Motion Model Identification Using Generalized Ellipsoidal Basis Function-Based Fuzzy Neural Networks. IEEE Transactions on Cybernetics, 2015, 45, 2732-2743.	9.5	64
32	Data driven modeling based on dynamic parsimonious fuzzy neural network. Neurocomputing, 2013, 110, 18-28.	5.9	62
33	AN ONLINE SELF-ORGANIZING SCHEME FOR PARSIMONIOUS AND ACCURATE FUZZY NEURAL NETWORKS. International Journal of Neural Systems, 2010, 20, 389-403.	5.2	58
34	Constructive multi-output extreme learning machine with application to large tanker motion dynamics identification. Neurocomputing, 2014, 128, 59-72.	5.9	56
35	Dynamic Tanker Steering Control Using Generalized Ellipsoidal-Basis-Function-Based Fuzzy Neural Networks. IEEE Transactions on Fuzzy Systems, 2015, 23, 1414-1427.	9.8	54
36	An Intelligent Adaptive Control Scheme for Postsurgical Blood Pressure Regulation. IEEE Transactions on Neural Networks, 2005, 16, 475-483.	4.2	51

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37	Analysis of Hop-Count-Based Source-to-Destination Distance Estimation in Wireless Sensor Networks With Applications in Localization. IEEE Transactions on Vehicular Technology, 2010, 59, 2998-3011.	6.3	50
38	Fuzzy neural networks-based quality prediction system for sintering process. IEEE Transactions on Fuzzy Systems, 2000, 8, 314-324.	9.8	48
39	Adaptive Neural PD Control With Semiglobal Asymptotic Stabilization Guarantee. IEEE Transactions on Neural Networks and Learning Systems, 2014, 25, 2264-2274.	11.3	47
40	Event-Triggered Control for Tâ€"S Fuzzy Systems Under Asynchronous Network Communications. IEEE Transactions on Fuzzy Systems, 2020, 28, 390-399.	9.8	43
41	Adaptive neural network control of uncertain nonlinear systems with nonsmooth actuator nonlinearities. Neurocomputing, 2007, 70, 1062-1070.	5.9	40
42	Efficient Leave-One-Out Cross-Validation-based Regularized Extreme Learning Machine. Neurocomputing, 2016, 194, 260-270.	5.9	40
43	A NOVEL EFFICIENT LEARNING ALGORITHM FOR SELF-GENERATING FUZZY NEURAL NETWORK WITH APPLICATIONS. International Journal of Neural Systems, 2012, 22, 21-35.	5.2	39
44	Adaptive noise cancellation using enhanced dynamic fuzzy neural networks. IEEE Transactions on Fuzzy Systems, 2005, 13, 331-342.	9.8	38
45	Adaptive fuzzy PD control with stable $H\hat{} \check{z}$ tracking guarantee. Neurocomputing, 2017, 237, 71-78.	5.9	34
46	Range-free wireless sensor networks localization based onÂhop-count quantization. Telecommunication Systems, 2012, 50, 199-213.	2.5	33
47	Adaptive control of robot manipulators using fuzzy neural networks. IEEE Transactions on Industrial Electronics, 2001, 48, 1274-1278.	7.9	30
48	Hybrid adaptive fuzzy controllers of robot manipulators with bounds estimation. IEEE Transactions on Industrial Electronics, 2000, 47, 1151-1160.	7.9	29
49	A novel progressive learning technique for multi-class classification. Neurocomputing, 2016, 207, 310-321.	5.9	28
50	Data driven modelling based on Recurrent Interval-Valued Metacognitive Scaffolding Fuzzy Neural Network. Neurocomputing, 2017, 262, 4-27.	5.9	27
51	A novel online multi-label classifier for high-speed streaming data applications. Evolving Systems, 2017, 8, 303-315.	3.9	27
52	A Kernel Extreme Learning Machines Algorithm for Node Localization in Wireless Sensor Networks. IEEE Communications Letters, 2020, 24, 1433-1436.	4.1	27
53	Control of Adept One SCARA robot using neural networks. IEEE Transactions on Industrial Electronics, 1997, 44, 762-768.	7.9	26
54	A Survey of Adaptive Fuzzy Controllers: Nonlinearities and Classifications. IEEE Transactions on Fuzzy Systems, 2016, 24, 1095-1107.	9.8	26

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55	A novel heuristic algorithm for node localization in anisotropic wireless sensor networks with holes. Signal Processing, 2017, 138, 27-34.	3.7	26
56	Real-time implementation of a dynamic fuzzy neural networks controller for a SCARA. Microprocessors and Microsystems, 2002, 26, 449-461.	2.8	25
57	Fire-rule-based direct adaptive type-2 fuzzy Hâˆž tracking control. Engineering Applications of Artificial Intelligence, 2011, 24, 1174-1185.	8.1	25
58	Sequential active learning using meta-cognitive extreme learning machine. Neurocomputing, 2016, 173, 835-844.	5.9	25
59	Distributed Adaptive Fuzzy Control for Output Consensus of Heterogeneous Stochastic Nonlinear Multi-Agent Systems. IEEE Transactions on Fuzzy Systems, 2017, , 1-1.	9.8	25
60	Online probabilistic learning for fuzzy inference system. Expert Systems With Applications, 2014, 41, 5082-5096.	7.6	24
61	Asynchronous positive filter design for switched positive systems with overlapped detection delay. IET Control Theory and Applications, 2017, 11, 319-328.	2.1	24
62	Stability of linear systems with delayed perturbations: an LMI approach. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 2002, 49, 108-112.	0.1	23
63	Adaptive output control of a class of uncertain chaotic systems. Systems and Control Letters, 2007, 56, 452-460.	2.3	23
64	Classification of mammographic masses using generalized dynamic fuzzy neural networks. Medical Physics, 2004, 31, 1288-1295.	3.0	22
65	An effective semi-cross-validation model selection method for extreme learning machine with ridge regression. Neurocomputing, 2015, 151, 933-942.	5.9	22
66	Automatic generation of fuzzy inference systems via unsupervised learning. Neural Networks, 2008, 21, 1556-1566.	5.9	21
67	Global Finite Time Active Disturbance Rejection Control for Parallel Manipulators With Unknown Bounded Uncertainties. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 7838-7849.	9.3	21
68	Enabling Unmanned Aerial Vehicle Borne Secure Communication With Classification Framework for Industry 5.0. IEEE Transactions on Industrial Informatics, 2022, 18, 5477-5484.	11.3	21
69	Fuzzy logic-based observation and evaluation of pedestriansâ€™ behavioral patterns by age and gender. Transportation Research Part F: Traffic Psychology and Behaviour, 2016, 40, 104-118.	3.7	20
70	Hybrid recursive least squares algorithm for online sequential identification using data chunks. Neurocomputing, 2016, 174, 651-660.	5.9	20
71	Decentralized fault-tolerant MRAC for a class of large-scale systems with time-varying delays and actuator faults. Journal of Process Control, 2019, 75, 171-186.	3.3	20
72	Data and decision fusion for distributed spectrum sensing in cognitive radio networks. , 2007, , .		18

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73	Effect of Uneven Electrostatic Forces on the Dynamic Characteristics of Capacitive Hemispherical Resonator Gyroscopes. Sensors, 2019, 19, 1291.	3.8	17
74	Bayesian ART-based fuzzy inference system: A new approach to prognosis of machining processes. , 2011, , .		16
75	Multi-label classification method based on extreme learning machines. , 2014, , .		16
76	Weighted-average ℓ_1 filtering for switched positive systems. International Journal of Robust and Nonlinear Control, 2017, 27, 5097-5112.	3.7	15
77	Composite Learning Fuzzy Control of Uncertain Nonlinear Systems. International Journal of Fuzzy Systems, 2016, 18, 990-998.	4.0	14
78	Design and development of an intelligent controller for a pole-balancing robot. Microprocessors and Microsystems, 2002, 26, 433-448.	2.8	13
79	A Novel Approach for Vehicle Detection Using an AND–OR-Graph-Based Multiscale Model. IEEE Transactions on Intelligent Transportation Systems, 2015, 16, 2284-2289.	8.0	13
80	Switched systems with average dwell time: Computation of the robust positive invariant set. Automatica, 2017, 85, 306-313.	5.0	13
81	Dynamic collision avoidance scheme for unmanned surface vehicles under complex shallow sea Environments. Ocean Engineering, 2020, 218, 108102.	4.3	13
82	Efficient stereo matching on embedded GPUs with zero-means cross correlation. Journal of Systems Architecture, 2022, 123, 102366.	4.3	13
83	Decentralized control of robot manipulators with couplings and uncertainties. , 2000, , .		12
84	Face recognition using radial basis function (RBF) neural networks. , 0, , .		11
85	Modelling, control, and stability analysis of non-linear systems using generalized fuzzy neural networks. International Journal of Systems Science, 2003, 34, 427-438.	5.5	11
86	Extreme learning control of surface vehicles with unknown dynamics and disturbances. Neurocomputing, 2015, 167, 535-542.	5.9	11
87	Output Feedback Adaptive Neural Control Without Seeking SPR Condition. Asian Journal of Control, 2015, 17, 1620-1630.	3.0	11
88	Constraint admissible state sets for switched systems with average dwell time. Automatica, 2017, 82, 235-242.	5.0	11
89	Industry 4.0: A Special Section in IEEE <italic>Access</italic>. IEEE Access, 2017, 5, 12257-12261.	4.2	11
90	A novel vehicle tracking and speed estimation with varying UAV altitude and video resolution. International Journal of Remote Sensing, 2021, 42, 4441-4466.	2.9	11

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91	A novel framework for automatic generation of fuzzy neural networks. Neurocomputing, 2008, 71, 584-591.	5.9	10
92	Bearing-based formation manoeuvre control of nonholonomic multi-agent systems. International Journal of Systems Science, 2019, 50, 2993-3002.	5.5	10
93	Cooperative path planning with priority target assignment and collision avoidance guidance for rescue unmanned surface vehicles in a complex ocean environment. Advanced Engineering Informatics, 2022, 52, 101517.	8.0	10
94	Real-time hybrid adaptive fuzzy control of a SCARA robot. Microprocessors and Microsystems, 2001, 25, 369-378.	2.8	9
95	Feature extraction using wavelet packets strategy. , 0, , .		9
96	A novel efficient local illumination compensation method based on DCT in logarithm domain. Pattern Recognition Letters, 2012, 33, 1725-1733.	4.2	9
97	Fuzzy Synchronization Control of Complex Dynamical Networks Under Network Attacks and Actuator Faults. International Journal of Fuzzy Systems, 2019, 21, 2043-2053.	4.0	9
98	A novel approach toward source-to-sink distance estimation in wireless sensor networks. IEEE Communications Letters, 2010, 14, 384-386.	4.1	8
99	Fuzzy Cellular Automata Models for Crowd Movement Dynamics at Signalized Pedestrian Crossings. Transportation Research Record, 2015, 2490, 21-31.	1.9	8
100	Global Adaptive Practical Output Tracking Control for a Class of Genuinely Nonlinear Uncertain Systems: Adding an Universal Power Integrator Approach. IEEE Access, 2016, 4, 10136-10146.	4.2	8
101	Multi-Document Extractive Summarization Using Window-Based Sentence Representation. , 2015, , .		7
102	Application of a system for the automatic generation of fuzzy neural networks. Engineering Applications of Artificial Intelligence, 2000, 13, 293-302.	8.1	6
103	Design of proportional parallel distributed compensators for non-linear systems. International Journal of Computer Applications in Technology, 2006, 27, 204.	0.5	6
104	Composite learning from model reference adaptive fuzzy control. , 2015, , .		6
105	New non€negative sparse feature learning approach for content€based image retrieval. IET Image Processing, 2017, 11, 724-733.	2.5	6
106	Evolving type-2 recurrent fuzzy neural network. , 2016, , .		5
107	Adaptive Weber-face for robust illumination face recognition. Computing (Vienna/New York), 2019, 101, 605-619.	4.8	5
108	Optimal hybrid control of linear and nonlinear systems. , 0, , .		4

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109	A high performance neural-networks-based speech recognition system. , 0, , .		4
110	A Novel Q-Learning Approach with Continuous States and Actions. Control Applications (CCA), Proceedings of the IEEE International Conference on, 2007, , .	0.0	4
111	Computational Intelligence: Methods and Techniques (Rutkowski, L.; 2008) [Book Review]. IEEE Computational Intelligence Magazine, 2011, 6, 76-78.	3.2	4
112	Tool wear prediction using evolutionary Dynamic Fuzzy Neural (EDFNN) Network. , 2011, , .		4
113	A novel progressive multi-label classifier for class-incremental data. , 2016, , .		4
114	An Integrated Strategy toward the Extraction of Contour and Region of Sonar Images. Journal of Marine Science and Engineering, 2020, 8, 595.	2.6	4
115	Robotic 3-D Laser-Guided Approach for Efficient Cutting of Porcine Belly. IEEE/ASME Transactions on Mechatronics, 2022, 27, 2963-2972.	5.8	4
116	Blind Adaptive Structure-Preserving Imaging Enhancement for Low-Light Condition. IEEE Signal Processing Letters, 2022, 29, 917-921.	3.6	4
117	Hybrid adaptive fuzzy controller of robot manipulators with bounds estimation. , 0, , .		3
118	Design and development of a low-cost digital display for water flow rate measurements. Microprocessors and Microsystems, 2001, 25, 359-368.	2.8	3
119	A Hybrid Approach for Automatic Generation of Fuzzy Inference Systems without Supervised Learning. Proceedings of the American Control Conference, 2007, , .	0.0	3
120	Genetic Algorithms for MLP Neural Network parameters optimization. , 2009, , .		3
121	Local Line Derivative Pattern for face recognition. , 2012, , .		3
122	Intelligent control and navigation of an indoor quad-copter. , 2014, , .		3
123	An adaptive output regulation approach for formation control of heterogeneous multi-agent systems. , 2016, , .		3
124	Population structure-learned classifier for high-dimension low-sample-size class-imbalanced problem. Engineering Applications of Artificial Intelligence, 2022, 111, 104828.	8.1	3
125	Hybrid fuzzy control of linear and nonlinear systems. , 0, , .		2
126	A new approach for stabilizing nonlinear systems with time delay. , 2001, , .		2

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127	Comments on "A new robust control for a class of uncertain discrete-time systems". IEEE Transactions on Automatic Control, 2001, 46, 509-511.	5.7	2
128	Automatic generation of fuzzy inference systems by dynamic fuzzy Q-learning. , 0, , .		2
129	Automatic generation of Fuzzy Inference Systems using Incremental-Topological-Preserving-Map-based Fuzzy Q-Learning. , 2008, , .		2
130	Design for Self-Organizing Fuzzy Neural Network with Extended Kalman Filter. , 2010, , .		2
131	Receding Horizon Cache and Extreme Learning Machine based Reinforcement Learning. , 2012, , .		2
132	Asymptotic stabilization via adaptive fuzzy control. , 2013, , .		2
133	Robust incremental extreme learning machine. , 2014, , .		2
134	Novel Data Knowledge Representation with TSK-Type Preprocessed Collaborative Fuzzy Rule Based System. , 2015, , .		2
135	Robust tracking controllers of uncertain delay systems. , 0, , .		2
136	Approximate Output Regulation of Discrete-Time Stochastic Multiagent Systems Subject to Heterogeneous and Unknown Dynamics. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 6373-6382.	9.3	2
137	An LMI approach to robust stability of linear delayed systems. , 0, , .		1
138	Efficient implementation of dynamic fuzzy Q-learning. , 0, , .		1
139	Self-Generation of Fuzzy Inference Systems by Enhanced Dynamic Self-Generated Fuzzy Q-Learning. , 2006, , .		1
140	A fast pruning algorithm for an Efficient Adaptive Fuzzy Neural Network. , 2010, , .		1
141	A hybrid computational model for spoken language understanding. , 2010, , .		1
142	Adaptive fuzzy output regulation for formation control of unmanned surface vehicles. , 2017, , .		1
143	S-Plane-Based Trajectory Tracking Control of Underactuated Ship. , 2021, , .		1
144	An intelligent robotic system based on neural-fuzzy approach. , 0, , .		0

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145	Stability of DSP-based constant tension control systems and data acquisition. , 0, , .		0
146	A comparative study of different methods for realizing DFNN algorithm. , 0, , .		0
147	Multiobjectives design of a multirate output controller. , 0, , .		0
148	Stability analysis and systematic design of fuzzy controllers with simplified linear control rules. , 0, , .		0
149	A novel development tool of fuzzy neural networks. , 2000, , .		0
150	Design of linear uncertain systems guaranteeing quadratic boundedness. , 2000, , .		0
151	Iterative learning control for systems with both parametric and non-parametric uncertainties. , 0, , .		0
152	Automatic Generation of Fuzzy Inference Systems Using Unsupervised Learning. , 0, , .		0
153	Clock-turning gait synthesis for humanoid robots. Journal of Control Theory and Applications, 2007, 5, 23-27.	0.8	0
154	An online approach towards self-generating fuzzy neural networks with applications. , 2010, , .		0
155	An adaptive neural control scheme for articulatory synthesis of CV sequences. Computer Speech and Language, 2014, 28, 163-176.	4.3	0
156	Asynchronous H<inf>â˜ž</inf> stabilization of switched systems with overlapped time-varying detection delays. , 2016, , .		0
157	Fuzzy Modeling Method Based on Rectangular Pyramid Fuzzy System. International Journal of Fuzzy Systems, 2017, 19, 1731-1738.	4.0	0
158	Multi-scale detail-preserving tone mapping with adaptive gamma compression. , 2017, , .		0
159	High-visibility tone mapping by weighted guided image filter in multi-scale domain. , 2017, , .		0
160	Design and Development of an Indian Classical Vocal Training Tool. , 2019, , .		0
161	Long-Term Visual Tracking of an Unmanned Surface Vehicle in Complex Environment Based on Adaptive Multi-Feature Fusion with Correlation Filtering. , 2021, , .		0
162	Composite Trajectory Tracking of a Shipborne Manipulator Based on Full-Order Terminal Sliding Mode Control. , 2021, , .		0