Xiao-Jun Zeng

List of Publications by Year
in descending order

143 papers	8,536 citations	147726 31 h-index	48277 88 g-index
146 all docs	146 docs citations	146 times ranked	6511 citing authors

#	Article	IF	Citations
1	Twitter mood predicts the stock market. Journal of Computational Science, 2011, 2, 1-8.	1.5	3,478
2	Distance and similarity measures for hesitant fuzzy linguistic term sets and their application in multi-criteria decision making. Information Sciences, 2014, 271, 125-142.	4.0	503
3	Qualitative decision making with correlation coefficients of hesitant fuzzy linguistic term sets. Knowledge-Based Systems, 2015, 76, 127-138.	4.0	372
4	Hesitant Fuzzy Linguistic VIKOR Method and Its Application in Qualitative Multiple Criteria Decision Making. IEEE Transactions on Fuzzy Systems, 2015, 23, 1343-1355.	6.5	349
5	A Bibliometric Analysis and Visualization of Medical Big Data Research. Sustainability, 2018, 10, 166.	1.6	345
6	Approximation theory of fuzzy systems-SISO case. IEEE Transactions on Fuzzy Systems, 1994, 2, 162-176.	6.5	306
7	Approximation theory of fuzzy systems-MIMO case. IEEE Transactions on Fuzzy Systems, 1995, 3, 219-235.	6.5	278
8	Approximation accuracy analysis of fuzzy systems as function approximators. IEEE Transactions on Fuzzy Systems, 1996, 4, 44-63.	6.5	187
9	Novel correlation coefficients between hesitant fuzzy sets and their application in decision making. Knowledge-Based Systems, 2015, 82, 115-127.	4.0	152
10	Framework of Group Decision Making With Intuitionistic Fuzzy Preference Information. IEEE Transactions on Fuzzy Systems, 2015, 23, 1211-1227.	6.5	112
11	Hesitant fuzzy linguistic term sets for linguistic decision making: Current developments, issues and challenges. Information Fusion, 2018, 43, 1-12.	11.7	104
12	Fuzzy C-means++: Fuzzy C-means with effective seeding initialization. Expert Systems With Applications, 2015, 42, 7541-7548.	4.4	95
13	Interval Multiobjective Optimization With Memetic Algorithms. IEEE Transactions on Cybernetics, 2020, 50, 3444-3457.	6.2	91
14	Tâ€“S-Fuzzy-Model-Based Approximation and Controller Design for General Nonlinear Systems. IEEE Transactions on Systems, Man, and Cybernetics, 2012, 42, 1143-1154.	5.5	89
15	Approximation Capabilities of Hierarchical Fuzzy Systems. IEEE Transactions on Fuzzy Systems, 2005, 13, 659-672.	6.5	86
16	Comparing data mining methods with logistic regression in childhood obesity prediction. Information Systems Frontiers, 2009, 11, 449-460.	4.1	85
17	A Stackelberg game-theoretic approach to optimal real-time pricing for the smart grid. Soft Computing, 2013, 17, 2365-2380.	2.1	84
18	A Profit Maximization Approach to Demand Response Management with Customers Behavior Learning in Smart Grid. IEEE Transactions on Smart Grid, 2016, 7, 1516-1529.	6.2	75

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19	A stochastic MPC based approach to integrated energy management in microgrids. Sustainable Cities and Society, 2018, 41, 349-362.	5.1	71
20	Hesitancy degree-based correlation measures for hesitant fuzzy linguistic term sets and their applications in multiple criteria decision making. Information Sciences, 2020, 508, 275-292.	4.0	63
21	Output tracking of constrained nonlinear processes with offset-free input-to-state stable fuzzy predictive control. Automatica, 2009, 45, 900-909.	3.0	59
22	Modeling complex linguistic expressions in qualitative decision making: An overview. Knowledge-Based Systems, 2018, 144, 174-187.	4.0	58
23	Short-Term and Midterm Load Forecasting Using a Bilevel Optimization Model. IEEE Transactions on Power Systems, 2009, 24, 1080-1090.	4.6	56
24	ISTS: Implicit social trust and sentiment based approach to recommender systems. Expert Systems With Applications, 2015, 42, 8840-8849.	4.4	47
25	A thermodynamic method of intuitionistic fuzzy MCDM to assist the hierarchical medical system in China. Information Sciences, 2017, 420, 490-504.	4.0	46
26	Density-Driven Generalized Regression Neural Networks (DD-GRNN) for Function Approximation. IEEE Transactions on Neural Networks, 2007, 18, 1683-1696.	4.8	44
27	Clustering-based short-term load forecasting for residential electricity under the increasing-block pricing tariffs in China. Energy, 2018, 165, 76-89.	4.5	44
28	Decomposition property of fuzzy systems and its applications. IEEE Transactions on Fuzzy Systems, 1996, 4, 149-165.	6.5	42
29	Linguistic terms with weakened hedges: A model for qualitative decision making under uncertainty. Information Sciences, 2018, 433-434, 37-54.	4.0	42
30	Core-generating approximate minimum entropy discretization for rough set feature selection in pattern classification. International Journal of Approximate Reasoning, 2011, 52, 863-880.	1.9	35
31	A simplified structure evolving method for Mamdani fuzzy system identification and its application to high-dimensional problems. Information Sciences, 2013, 220, 110-123.	4.0	34
32	An optimal real-time pricing for demand-side management: A Stackelberg game and genetic algorithm approach. , 2014, , .		33
33	Group decision making with hesitant fuzzy linguistic preference relations based on modified extent measurement. Expert Systems With Applications, 2021, 171, 114235.	4.4	32
34	A Self-Evolving Fuzzy System Which Learns Dynamic Threshold Parameter by Itself. IEEE Transactions on Fuzzy Systems, 2019, 27, 1625-1637.	6.5	31
35	Learning data streams online â€" An evolving fuzzy system approach with self-learning/adaptive thresholds. Information Sciences, 2020, 507, 172-184.	4.0	31
36	An Instance-Based Algorithm With Auxiliary Similarity Information for the Estimation of Gait Kinematics From Wearable Sensors. IEEE Transactions on Neural Networks, 2008, 19, 1574-1582.	4.8	29

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37	A hybrid learning algorithm with a similarity-based pruning strategy for self-adaptive neuro-fuzzy systems. Applied Soft Computing Journal, 2009, 9, 1354-1366.	4.1	27
38	An Evolving-Construction Scheme for Fuzzy Systems. IEEE Transactions on Fuzzy Systems, 2010, 18, 755-770.	6.5	27
39	An Output-Constrained Clustering Approach for the Identification of Fuzzy Systems and Fuzzy Granular Systems. IEEE Transactions on Fuzzy Systems, 2011, 19, 1127-1140.	6.5	27
40	Hierarchical Fuzzy Systems for Function Approximation on Discrete Input Spaces With Application. IEEE Transactions on Fuzzy Systems, 2008, 16, 1197-1215.	6.5	26
41	Decision support systems for clinical radiological practice â€" towards the next generation. British Journal of Radiology, 2010, 83, 904-914.	1.0	26
42	Twitter-Based Recommender System to Address Cold-Start: A Genetic Algorithm Based Trust Modelling and Probabilistic Sentiment Analysis. , 2015, , .		26
43	A clustering algorithm for radial basis function neural network initialization. Neurocomputing, 2012, 77, 144-155.	3.5	25
44	A relationship between membership functions and approximation accuracy in fuzzy systems. IEEE Transactions on Systems, Man, and Cybernetics, 1996, 26, 176-180.	5.5	24
45	Generalized Regression Neural Networks With Multiple-Bandwidth Sharing and Hybrid Optimization. IEEE Transactions on Systems, Man, and Cybernetics, 2007, 37, 1434-1445.	5.5	23
46	Consistency Measures of Linguistic Preference Relations With Hedges. IEEE Transactions on Fuzzy Systems, 2019, 27, 372-386.	6.5	23
47	Dynamic clustering analysis for driving styles identification. Engineering Applications of Artificial Intelligence, 2021, 97, 104096.	4.3	23
48	An improved approach of self-organising fuzzy neural network based on similarity measures. Evolving Systems, 2012, 3, 19-30.	2.4	22
49	Fuzzy Systems Approach to Approximation and Stabilization of Conventional Affine Nonlinear Systems. , 2006, , .		21
50	A structure evolving learning method for fuzzy systems. Evolving Systems, 2010, 1, 83-95.	2.4	21
51	Learning evolving Tâ€"S fuzzy systems with both local and global accuracy â€" A local online optimization approach. Applied Soft Computing Journal, 2018, 68, 795-810.	4.1	21
52	Stock returns prediction using kernel adaptive filtering within a stock market interdependence approach. Expert Systems With Applications, 2020, 160, 113668.	4.4	20
53	Satisfaction-driven consensus model for social network MCGDM with incomplete information under probabilistic linguistic trust. Computers and Industrial Engineering, 2021, 154, 107099.	3.4	20
54	Intermediate Variable Normalization for Gradient Descent Learning for Hierarchical Fuzzy System. IEEE Transactions on Fuzzy Systems, 2009, 17, 468-476.	6.5	19

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55	Designing an intelligent decision support system for effective negotiation pricing: A systematic and learning approach. Decision Support Systems, 2017, 96, 49-66.	3.5	19
56	An integrated optimization + learning approach to optimal dynamic pricing for the retailer with multi-type customers in smart grids. Information Sciences, 2018, 448-449, 215-232.	4.0	19
57	Solving matrix games based on Ambika method with hesitant fuzzy information and its application in the counter-terrorism issue. Applied Intelligence, 2021, 51, 1227-1243.	3.3	19
58	Identifying critical causal criteria of green supplier evaluation using heterogeneous judgements: An integrated approach based on cloud model and DEMATEL. Applied Soft Computing Journal, 2021, 113, 107882.	4.1	19
59	Approximation properties of fuzzy systems generated by the min inference. IEEE Transactions on Systems, Man, and Cybernetics, 1996, 26, 187-193.	5.5	18
60	Identification of fuzzy neural networks by forward recursive input-output clustering and accurate similarity analysis. Applied Soft Computing Journal, 2016, 49, 524-543.	4.1	18
61	Delay- and Interference-Aware Routing for Wireless Mesh Network. IEEE Systems Journal, 2020, 14, 4119-4130.	2.9	17
62	The two-person and zero-sum matrix game with probabilistic linguistic information. Information Sciences, 2021, 570, 487-499.	4.0	17
63	Robust stability for linear discrete-time systems with structured perturbations. International Journal of Control, 1995, 61, 739-748.	1.2	14
64	Knowledge bounded least squares method for the identification of fuzzy systems. IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews, 2003, 33, 24-32.	3.3	14
65	Approximation capabilities of hierarchical hybrid systems. IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans, 2006, 36, 1029-1039.	3.4	14
66	Hierarchical hybrid fuzzy-neural networks for approximation with mixed input variables. Neurocomputing, 2007, 70, 3019-3033.	3.5	13
67	Identification and simplification of T-S fuzzy neural networks based on incremental structure learning and similarity analysis. Fuzzy Sets and Systems, 2020, 394, 65-86.	1.6	13
68	Decision-Making Models Based on Incomplete Hesitant Fuzzy Linguistic Preference Relation With Application to Site Selection of Hydropower Stations. IEEE Transactions on Engineering Management, 2022, 69, 904-915.	2.4	13
69	An inverse prospect theory-based algorithm in extended incomplete additive probabilistic linguistic preference relation environment and its application in financial products selection. Fuzzy Optimization and Decision Making, 2021, 20, 397-428.	3.4	12
70	Fuzzy Cluster Analysis of Financial Time Series and Their Volatility Assessment. , 2013, , .		11
71	Fuzzy system approaches to negotiation pricing decision support. Journal of Intelligent and Fuzzy Systems, 2015, 29, 685-699.	0.8	11
72	A Stackelberg Game Approach to maximise electricity retailer's profit and minimse customers' bills for future smart grid. , 2012, , .		10

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73	Learning from data streams using kernel least-mean-square with multiple kernel-sizes and adaptive step-size. Neurocomputing, 2019, 339, 105-115.	3.5	10
74	A bilevel optimization approach to demand response management for the smart grid. , 2016, , .		9
75	Optimal dynamic pricing for smart grid having mixed customers with and without smart meters. Journal of Modern Power Systems and Clean Energy, 2018, 6, 1244-1254.	3.3	9
76	A trust-based multi-ego social network model to investigate emotion diffusion. Social Network Analysis and Mining, 2011, 1, 287-299.	1.9	8
77	A Bayesian Association Rule Mining Algorithm. , 2013, , .		8
78	Volume discount pricing strategy in the VMI supply chain with price sensitive demand. Journal of the Operational Research Society, 2013, 64, 833-847.	2.1	8
79	Conformance checking for BPMN-based process models. , 2014, , .		8
80	Online and Self-Learning Approach to the Identification of Fuzzy Neural Networks. IEEE Transactions on Fuzzy Systems, 2022, 30, 649-662.	6.5	8
81	Load- and Interference-Balance Hybrid Routing Protocol for Hybrid Wireless Mesh Network. , 2019, , .		7
82	A Function-on-Function Linear Regression Approach for Short-Term Electric Load Forecasting. , 2019, , .		7
83	Known and unknown requirements in healthcare. Requirements Engineering, 2020, 25, 1-20.	2.1	7
84	A novel dynamic asset allocation system using Feature Saliency Hidden Markov models for smart beta investing. Expert Systems With Applications, 2021, 163, 113720.	4.4	7
85	A Modular Method for Estimating Null Values in Relational Database Systems. , 2008, , .		6
86	Evolutionary Computation Based Discovery of Hierarchical Business Process Models. Lecture Notes in Business Information Processing, 2015, , 191-204.	0.8	6
87	INVESTMENT DECISION ANALYSIS OF INTERNATIONAL MEGAPROJECTS BASED ON COGNITIVE LINGUISTIC CLOUD MODELS. International Journal of Strategic Property Management, 2020, 24, 414-427.	0.8	6
88	An Input-Output Clustering Method for Fuzzy System Identification. IEEE International Conference on Fuzzy Systems, 2007, , .	0.0	5
89	Kernel regression networks with local structural information and covariance volume adaptation. Neurocomputing, 2008, 72, 257-261.	3.5	5
90	An incremental construction learning algorithm for identification of T-S Fuzzy Systems. , 2008, , .		5

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91	A flexible visual inspection system based on neural networks. International Journal of Systems Science, 2009, 40, 173-186.	3.7	5
92	T-S fuzzy systems approach to approximation and robust controller design for general nonlinear systems. , 2011, , .		5
93	Combining Mouse and Keyboard Events with Higher Level Desktop Actions to Detect Mild Cognitive Impairment. , 2016, , .		5
94	Decision Analysis on Choquet Integral-Based Multi-Criteria Decision-Making with Imprecise Information. International Journal of Information Technology and Decision Making, 2018, 17, 677-704.	2.3	5
95	Data envelopment analysis based on team reasoning. International Transactions in Operational Research, 2020, 27, 1080-1100.	1.8	5
96	Load Balancing Routing for Wireless Mesh Network With Energy Harvesting. IEEE Communications Letters, 2020, 24, 926-930.	2.5	5
97	Learning for Hierarchical Fuzzy Systems Based on the Gradient-Descent Method. , 2006, , .		4
98	Short-Term Load Forecasting Based On Self-Organizing Fuzzy Neural Networks. IEEE International Conference on Fuzzy Systems, 2007, , .	0.0	4
99	Learning Customer Behaviour under Real-Time Pricing in the Smart Grid. , 2013, , .		4
100	A comparison between T-S fuzzy systems and affine T-S fuzzy systems as nonlinear control system models. , 2014, , .		4
101	Demand modelling in electricity market with day-ahead dynamic pricing. , 2015, , .		4
102	A mutation operator guided by preferred regions for set-based many-objective evolutionary optimization. Complex & Intelligent Systems, 2017, 3, 265-278.	4.0	4
103	An Integration Mechanism between Demand and Supply Side Management of Electricity Markets. Energies, 2018, 11, 3314.	1.6	4
104	An Aspiration-Based Approach for Qualitative Decision-Making With Complex Linguistic Expressions. IEEE Access, 2019, 7, 12529-12546.	2.6	4
105	Integrations of Continuous Hesitant Fuzzy Information in Group Decision Making With a Case Study of Water Resources Emergency Management. IEEE Access, 2020, 8, 146134-146144.	2.6	4
106	Functional Fuzzy System: A Nonlinear Regression Model and Its Learning Algorithm for Function-on-Function Regression. IEEE Transactions on Fuzzy Systems, 2022, 30, 956-967.	6.5	4
107	Core-Generating Discretization for Rough Set Feature Selection. Lecture Notes in Computer Science, 2011, , 135-158.	1.0	4
108	Approximation Capabilities of Hierarchical Neural- Fuzzy Systems for Function Approximation on Discrete Spaces. International Journal of Computational Intelligence Research, 2005, 1, .	0.3	4

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109	Exploring the short-term and long-term linkages between carbon price and influence factors considering COVID-19 impact. Environmental Science and Pollution Research, 2023, 30, 61479-61495.	2.7	4
110	A Multifocus Image Fusion Scheme Based on Similarity Measure of Transformed Isosceles Triangles Between Intuitionistic Fuzzy Sets. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-15.	2.4	4
111	Core-generating Approximate Minimum Entropy Discretization for Rough Set Feature Selection: An Experimental Investigation. IEEE International Conference on Fuzzy Systems, 2007, , .	0.0	3
112	A structure learning method for concise fuzzy systems. , 2012, , .		3
113	Appliance level demand modeling and pricing optimization for demand response management in smart grid. , 2015, , .		3
114	Uncertain random simulation algorithm with application to bottleneck assignment problem. Soft Computing, 2019, 23, 10977-10982.	2.1	3
115	A multi-objective Dyna-Q based routing in wireless mesh network. Applied Soft Computing Journal, 2021, 108, 107486.	4.1	3
116	Approximation capability analysis of hierarchical Takagi-Sugeno fuzzy systems. , 0, , .		2
117	A three-part input-output clustering-based approach to fuzzy system identification. , 2010, , .		2
118	Universal fuzzy models and universal fuzzy controllers based on generalized T-S fuzzy models. , 2012, , .		2
119	A group member search method based on similarity analysis of mobile patterns. , 2014, , .		2
120	An optimal differential pricing in smart grid based on customer segmentation. , 2017, , .		2
121	Assessment of non-directed computer-use behaviours in the home can indicate early cognitive impairment: A proof of principle longitudinal study. Aging and Mental Health, 2023, 27, 193-202.	1.5	2
122	A granular computing view on function approximation. , 0, , .		1
123	Simplified neural networks algorithm for function approximation on discrete input spaces in high dimension-limited sample applications. Neurocomputing, 2009, 72, 1078-1083.	3.5	1
124	GENERATING AUTOMATIC FUZZY SYSTEM FROM RELATIONAL DATABASE SYSTEM FOR ESTIMATING NULL VALUES. Cybernetics and Systems, 2009, 40, 528-548.	1.6	1
125	A Simplified Structure Evolving Method for Fuzzy System structure learning. , 2011, , .		1
126	Accurate similarity analysis and computing of Gaussian membership functions for FNN simplification. , 2015, , .		1

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127	Learning evolving Mamdani fuzzy systems based on parameter optimization. , 2017, , .		1
128	Demand Based Bidding Strategies Under Interval Demand for Integrated Demand and Supply Management. , 2018, , .		1
129	An Effective Routing with Delay Minimization for Multi-Hop Wireless Mesh Network. , 2019, , .		1
130	Uncertain linguistic terms with weakened hedges for multi-granular linguistic decision making with its application to evaluating communication technologies. Applied Intelligence, 2022, 52, 16758-16774.	3.3	1
131	Discussion on: â€œExponential Stability Based Design of Constrained Fuzzy Predictive Controlâ€. European Journal of Control, 2010, 16, 51-53.	1.6	0
132	Controlling bloating using depth constraint crossover. , 2010, , .		0
133	Genetic programming with a norm-referenced fitness function. , 2011, , .		0
134	A similarity-based learning algorithm for fuzzy system identification with a two-layer optimization scheme. , 2012, , .		0
135	Guest editorial: Evolving learning and adaptive modelling approaches to prediction, forecasting and controlâ€”preface to the special issue. Evolving Systems, 2012, 3, 1-3.	2.4	0
136	A New Approach to Demand Modelling and Optimisation in Pricing Decision Support Systems. , 2013, , .		0
137	A Group Member Search Method Based on Incremental Trajectories Data. , 2014, , .		0
138	A novel method for group movement pattern analysis. , 2014, , .		0
139	Integrated Demand and Supply Side Pricing Optimization Schemes for Electricity Market. Advances in Intelligent Systems and Computing, 2017, , 19-34.	0.5	0
140	An Integrated Software System for Supporting Real-Time Near-Infrared Spectral Big Data Analysis and Management. , 2017, , .		0
141	Bottom-Up Tree Evaluation in Tree-Based Genetic Programming. Lecture Notes in Computer Science, 2010, , 513-522.	1.0	0
142	Decentralised and Privacy Preserving Machine Learning for Multiple Distributed Data Resources. Advances in Intelligent Systems and Computing, 2022, , 235-250.	0.5	0
143	Heterogeneous group decision making with thermodynamical parameters. Economic Research-Ekonomska Istrazivanja, 0, , 1-25.	2.6	0