

Xiao-Jun Zeng

List of Publications by Year in descending order

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143
papers

8,536
citations

168829

31
h-index

54771

88
g-index

146
all docs

146
docs citations

146
times ranked

7407
citing authors

#	ARTICLE	IF	CITATIONS
1	Assessment of non-directed computer-use behaviours in the home can indicate early cognitive impairment: A proof of principle longitudinal study. <i>Aging and Mental Health</i> , 2023, 27, 193-202.	1.5	2
2	Exploring the short-term and long-term linkages between carbon price and influence factors considering COVID-19 impact. <i>Environmental Science and Pollution Research</i> , 2023, 30, 61479-61495.	2.7	4
3	Decision-Making Models Based on Incomplete Hesitant Fuzzy Linguistic Preference Relation With Application to Site Selection of Hydropower Stations. <i>IEEE Transactions on Engineering Management</i> , 2022, 69, 904-915.	2.4	13
4	Online and Self-Learning Approach to the Identification of Fuzzy Neural Networks. <i>IEEE Transactions on Fuzzy Systems</i> , 2022, 30, 649-662.	6.5	8
5	Functional Fuzzy System: A Nonlinear Regression Model and Its Learning Algorithm for Function-on-Function Regression. <i>IEEE Transactions on Fuzzy Systems</i> , 2022, 30, 956-967.	6.5	4
6	Decentralised and Privacy Preserving Machine Learning for Multiple Distributed Data Resources. <i>Advances in Intelligent Systems and Computing</i> , 2022, , 235-250.	0.5	0
7	Uncertain linguistic terms with weakened hedges for multi-granular linguistic decision making with its application to evaluating communication technologies. <i>Applied Intelligence</i> , 2022, 52, 16758-16774.	3.3	1
8	A Multifocus Image Fusion Scheme Based on Similarity Measure of Transformed Isosceles Triangles Between Intuitionistic Fuzzy Sets. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2022, 71, 1-15.	2.4	4
9	A novel dynamic asset allocation system using Feature Saliency Hidden Markov models for smart beta investing. <i>Expert Systems With Applications</i> , 2021, 163, 113720.	4.4	7
10	An inverse prospect theory-based algorithm in extended incomplete additive probabilistic linguistic preference relation environment and its application in financial products selection. <i>Fuzzy Optimization and Decision Making</i> , 2021, 20, 397-428.	3.4	12
11	Dynamic clustering analysis for driving styles identification. <i>Engineering Applications of Artificial Intelligence</i> , 2021, 97, 104096.	4.3	23
12	Solving matrix games based on Ambika method with hesitant fuzzy information and its application in the counter-terrorism issue. <i>Applied Intelligence</i> , 2021, 51, 1227-1243.	3.3	19
13	Satisfaction-driven consensus model for social network MCGDM with incomplete information under probabilistic linguistic trust. <i>Computers and Industrial Engineering</i> , 2021, 154, 107099.	3.4	20
14	Group decision making with hesitant fuzzy linguistic preference relations based on modified extent measurement. <i>Expert Systems With Applications</i> , 2021, 171, 114235.	4.4	32
15	The two-person and zero-sum matrix game with probabilistic linguistic information. <i>Information Sciences</i> , 2021, 570, 487-499.	4.0	17
16	A multi-objective Dyna-Q based routing in wireless mesh network. <i>Applied Soft Computing Journal</i> , 2021, 108, 107486.	4.1	3
17	Identifying critical causal criteria of green supplier evaluation using heterogeneous judgements: An integrated approach based on cloud model and DEMATEL. <i>Applied Soft Computing Journal</i> , 2021, 113, 107882.	4.1	19
18	Data envelopment analysis based on team reasoning. <i>International Transactions in Operational Research</i> , 2020, 27, 1080-1100.	1.8	5

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19	Interval Multiobjective Optimization With Memetic Algorithms. IEEE Transactions on Cybernetics, 2020, 50, 3444-3457.	6.2	91
20	Known and unknown requirements in healthcare. Requirements Engineering, 2020, 25, 1-20.	2.1	7
21	Learning data streams online " An evolving fuzzy system approach with self-learning/adaptive thresholds. Information Sciences, 2020, 507, 172-184.	4.0	31
22	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
23	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
24	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
25	Stock returns prediction using kernel adaptive filtering within a stock market interdependence approach. Expert Systems With Applications, 2020, 160, 113668.	4.4	20
26	Delay- and Interference-Aware Routing for Wireless Mesh Network. IEEE Systems Journal, 2020, 14, 4119-4130.	2.9	17
27	Load Balancing Routing for Wireless Mesh Network With Energy Harvesting. IEEE Communications Letters, 2020, 24, 926-930.	2.5	5
28	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
29	Consistency Measures of Linguistic Preference Relations With Hedges. IEEE Transactions on Fuzzy Systems, 2019, 27, 372-386.	6.5	23
30	Load- and Interference-Balance Hybrid Routing Protocol for Hybrid Wireless Mesh Network. , 2019, , .		7
31	An Aspiration-Based Approach for Qualitative Decision-Making With Complex Linguistic Expressions. IEEE Access, 2019, 7, 12529-12546.	2.6	4
32	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
33	A Function-on-Function Linear Regression Approach for Short-Term Electric Load Forecasting. , 2019, , .		7
34	An Effective Routing with Delay Minimization for Multi-Hop Wireless Mesh Network. , 2019, , .		1
35	Uncertain random simulation algorithm with application to bottleneck assignment problem. Soft Computing, 2019, 23, 10977-10982.	2.1	3
36	A Self-Evolving Fuzzy System Which Learns Dynamic Threshold Parameter by Itself. IEEE Transactions on Fuzzy Systems, 2019, 27, 1625-1637.	6.5	31

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37	Decision Analysis on Choquet Integral-Based Multi-Criteria Decision-Making with Imprecise Information. <i>International Journal of Information Technology and Decision Making</i> , 2018, 17, 677-704.	2.3	5
38	Linguistic terms with weakened hedges: A model for qualitative decision making under uncertainty. <i>Information Sciences</i> , 2018, 433-434, 37-54.	4.0	42
39	Modeling complex linguistic expressions in qualitative decision making: An overview. <i>Knowledge-Based Systems</i> , 2018, 144, 174-187.	4.0	58
40	An integrated optimization + learning approach to optimal dynamic pricing for the retailer with multi-type customers in smart grids. <i>Information Sciences</i> , 2018, 448-449, 215-232.	4.0	19
41	Learning evolving Tâ€™S fuzzy systems with both local and global accuracy â€™ A local online optimization approach. <i>Applied Soft Computing Journal</i> , 2018, 68, 795-810.	4.1	21
42	Hesitant fuzzy linguistic term sets for linguistic decision making: Current developments, issues and challenges. <i>Information Fusion</i> , 2018, 43, 1-12.	11.7	104
43	An Integration Mechanism between Demand and Supply Side Management of Electricity Markets. <i>Energies</i> , 2018, 11, 3314.	1.6	4
44	Demand Based Bidding Strategies Under Interval Demand for Integrated Demand and Supply Management. , 2018, , .		1
45	Clustering-based short-term load forecasting for residential electricity under the increasing-block pricing tariffs in China. <i>Energy</i> , 2018, 165, 76-89.	4.5	44
46	A stochastic MPC based approach to integrated energy management in microgrids. <i>Sustainable Cities and Society</i> , 2018, 41, 349-362.	5.1	71
47	A Bibliometric Analysis and Visualization of Medical Big Data Research. <i>Sustainability</i> , 2018, 10, 166.	1.6	345
48	Optimal dynamic pricing for smart grid having mixed customers with and without smart meters. <i>Journal of Modern Power Systems and Clean Energy</i> , 2018, 6, 1244-1254.	3.3	9
49	Designing an intelligent decision support system for effective negotiation pricing: A systematic and learning approach. <i>Decision Support Systems</i> , 2017, 96, 49-66.	3.5	19
50	A mutation operator guided by preferred regions for set-based many-objective evolutionary optimization. <i>Complex & Intelligent Systems</i> , 2017, 3, 265-278.	4.0	4
51	A thermodynamic method of intuitionistic fuzzy MCDM to assist the hierarchical medical system in China. <i>Information Sciences</i> , 2017, 420, 490-504.	4.0	46
52	Integrated Demand and Supply Side Pricing Optimization Schemes for Electricity Market. <i>Advances in Intelligent Systems and Computing</i> , 2017, , 19-34.	0.5	0
53	An optimal differential pricing in smart grid based on customer segmentation. , 2017, , .		2
54	An Integrated Software System for Supporting Real-Time Near-Infrared Spectral Big Data Analysis and Management. , 2017, , .		0

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55	Learning evolving Mamdani fuzzy systems based on parameter optimization. , 2017, , .		1
56	Combining Mouse and Keyboard Events with Higher Level Desktop Actions to Detect Mild Cognitive Impairment. , 2016, , .		5
57	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
58	A bilevel optimization approach to demand response management for the smart grid. , 2016, , .		9
59	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
60	Fuzzy system approaches to negotiation pricing decision support. Journal of Intelligent and Fuzzy Systems, 2015, 29, 685-699.	0.8	11
61	Demand modelling in electricity market with day-ahead dynamic pricing. , 2015, , .		4
62	Accurate similarity analysis and computing of Gaussian membership functions for FNN simplification. , 2015, , .		1
63	Framework of Group Decision Making With Intuitionistic Fuzzy Preference Information. IEEE Transactions on Fuzzy Systems, 2015, 23, 1211-1227.	6.5	112
64	Appliance level demand modeling and pricing optimization for demand response management in smart grid. , 2015, , .		3
65	Twitter-Based Recommender System to Address Cold-Start: A Genetic Algorithm Based Trust Modelling and Probabilistic Sentiment Analysis. , 2015, , .		26
66	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
67	Novel correlation coefficients between hesitant fuzzy sets and their application in decision making. Knowledge-Based Systems, 2015, 82, 115-127.	4.0	152
68	ISTS: Implicit social trust and sentiment based approach to recommender systems. Expert Systems With Applications, 2015, 42, 8840-8849.	4.4	47
69	Fuzzy C-means++: Fuzzy C-means with effective seeding initialization. Expert Systems With Applications, 2015, 42, 7541-7548.	4.4	95
70	Qualitative decision making with correlation coefficients of hesitant fuzzy linguistic term sets. Knowledge-Based Systems, 2015, 76, 127-138.	4.0	372
71	Evolutionary Computation Based Discovery of Hierarchical Business Process Models. Lecture Notes in Business Information Processing, 2015, , 191-204.	0.8	6
72	A group member search method based on similarity analysis of mobile patterns. , 2014, , .		2

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73	A Group Member Search Method Based on Incremental Trajectories Data. , 2014, , .		0
74	Conformance checking for BPMN-based process models. , 2014, , .		8
75	An optimal real-time pricing for demand-side management: A Stackelberg game and genetic algorithm approach. , 2014, , .		33
76	A comparison between T-S fuzzy systems and affine T-S fuzzy systems as nonlinear control system models. , 2014, , .		4
77	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
78	A novel method for group movement pattern analysis. , 2014, , .		0
79	A Stackelberg game-theoretic approach to optimal real-time pricing for the smart grid. Soft Computing, 2013, 17, 2365-2380.	2.1	84
80	A Bayesian Association Rule Mining Algorithm. , 2013, , .		8
81	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
82	Learning Customer Behaviour under Real-Time Pricing in the Smart Grid. , 2013, , .		4
83	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
84	A New Approach to Demand Modelling and Optimisation in Pricing Decision Support Systems. , 2013, , .		0
85	Fuzzy Cluster Analysis of Financial Time Series and Their Volatility Assessment. , 2013, , .		11
86	A structure learning method for concise fuzzy systems. , 2012, , .		3
87	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
88	A Stackelberg Game Approach to maximise electricity retailer's profit and minimise customers' bills for future smart grid. , 2012, , .		10
89	A similarity-based learning algorithm for fuzzy system identification with a two-layer optimization scheme. , 2012, , .		0
90	Universal fuzzy models and universal fuzzy controllers based on generalized T-S fuzzy models. , 2012, , .		2

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91	An improved approach of self-organising fuzzy neural network based on similarity measures. <i>Evolving Systems</i> , 2012, 3, 19-30.	2.4	22
92	A clustering algorithm for radial basis function neural network initialization. <i>Neurocomputing</i> , 2012, 77, 144-155.	3.5	25
93	Guest editorial: Evolving learning and adaptive modelling approaches to prediction, forecasting and control—preface to the special issue. <i>Evolving Systems</i> , 2012, 3, 1-3.	2.4	0
94	A Simplified Structure Evolving Method for Fuzzy System structure learning. , 2011, , .		1
95	An Output-Constrained Clustering Approach for the Identification of Fuzzy Systems and Fuzzy Granular Systems. <i>IEEE Transactions on Fuzzy Systems</i> , 2011, 19, 1127-1140.	6.5	27
96	T-S fuzzy systems approach to approximation and robust controller design for general nonlinear systems. , 2011, , .		5
97	A trust-based multi-ego social network model to investigate emotion diffusion. <i>Social Network Analysis and Mining</i> , 2011, 1, 287-299.	1.9	8
98	Core-generating approximate minimum entropy discretization for rough set feature selection in pattern classification. <i>International Journal of Approximate Reasoning</i> , 2011, 52, 863-880.	1.9	35
99	Twitter mood predicts the stock market. <i>Journal of Computational Science</i> , 2011, 2, 1-8.	1.5	3,478
100	Genetic programming with a norm-referenced fitness function. , 2011, , .		0
101	Core-Generating Discretization for Rough Set Feature Selection. <i>Lecture Notes in Computer Science</i> , 2011, , 135-158.	1.0	4
102	A structure evolving learning method for fuzzy systems. <i>Evolving Systems</i> , 2010, 1, 83-95.	2.4	21
103	Decision support systems for clinical radiological practice — towards the next generation. <i>British Journal of Radiology</i> , 2010, 83, 904-914.	1.0	26
104	Discussion on: “Exponential Stability Based Design of Constrained Fuzzy Predictive Control” <i>European Journal of Control</i> , 2010, 16, 51-53.	1.6	0
105	An Evolving-Construction Scheme for Fuzzy Systems. <i>IEEE Transactions on Fuzzy Systems</i> , 2010, 18, 755-770.	6.5	27
106	Controlling bloating using depth constraint crossover. , 2010, , .		0
107	A three-part input-output clustering-based approach to fuzzy system identification. , 2010, , .		2
108	Bottom-Up Tree Evaluation in Tree-Based Genetic Programming. <i>Lecture Notes in Computer Science</i> , 2010, , 513-522.	1.0	0

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109	Intermediate Variable Normalization for Gradient Descent Learning for Hierarchical Fuzzy System. IEEE Transactions on Fuzzy Systems, 2009, 17, 468-476.	6.5	19
110	A flexible visual inspection system based on neural networks. International Journal of Systems Science, 2009, 40, 173-186.	3.7	5
111	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
112	Comparing data mining methods with logistic regression in childhood obesity prediction. Information Systems Frontiers, 2009, 11, 449-460.	4.1	85
113	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
114	Output tracking of constrained nonlinear processes with offset-free input-to-state stable fuzzy predictive control. Automatica, 2009, 45, 900-909.	3.0	59
115	GENERATING AUTOMATIC FUZZY SYSTEM FROM RELATIONAL DATABASE SYSTEM FOR ESTIMATING NULL VALUES. Cybernetics and Systems, 2009, 40, 528-548.	1.6	1
116	Short-Term and Midterm Load Forecasting Using a Bilevel Optimization Model. IEEE Transactions on Power Systems, 2009, 24, 1080-1090.	4.6	56
117	Kernel regression networks with local structural information and covariance volume adaptation. Neurocomputing, 2008, 72, 257-261.	3.5	5
118	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
119	A Modular Method for Estimating Null Values in Relational Database Systems. , 2008, , .		6
120	An incremental construction learning algorithm for identification of T-S Fuzzy Systems. , 2008, , .		5
121	Hierarchical Fuzzy Systems for Function Approximation on Discrete Input Spaces With Application. IEEE Transactions on Fuzzy Systems, 2008, 16, 1197-1215.	6.5	26
122	Density-Driven Generalized Regression Neural Networks (DD-GRNN) for Function Approximation. IEEE Transactions on Neural Networks, 2007, 18, 1683-1696.	4.8	44
123	An Input-Output Clustering Method for Fuzzy System Identification. IEEE International Conference on Fuzzy Systems, 2007, , .	0.0	5
124	Short-Term Load Forecasting Based On Self-Organizing Fuzzy Neural Networks. IEEE International Conference on Fuzzy Systems, 2007, , .	0.0	4
125	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
126	Core-generating Approximate Minimum Entropy Discretization for Rough Set Feature Selection: An Experimental Investigation. IEEE International Conference on Fuzzy Systems, 2007, , .	0.0	3

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127	Hierarchical hybrid fuzzy-neural networks for approximation with mixed input variables. Neurocomputing, 2007, 70, 3019-3033.	3.5	13
128	Fuzzy Systems Approach to Approximation and Stabilization of Conventional Affine Nonlinear Systems. , 2006, , .		21
129	Learning for Hierarchical Fuzzy Systems Based on the Gradient-Descent Method. , 2006, , .		4
130	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
131	Approximation Capabilities of Hierarchical Fuzzy Systems. IEEE Transactions on Fuzzy Systems, 2005, 13, 659-672.	6.5	86
132	Approximation Capabilities of Hierarchical Neural- Fuzzy Systems for Function Approximation on Discrete Spaces. International Journal of Computational Intelligence Research, 2005, 1, .	0.3	4
133	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
134	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
135	Approximation properties of fuzzy systems generated by the min inference. IEEE Transactions on Systems, Man, and Cybernetics, 1996, 26, 187-193.	5.5	18
136	Approximation accuracy analysis of fuzzy systems as function approximators. IEEE Transactions on Fuzzy Systems, 1996, 4, 44-63.	6.5	187
137	Decomposition property of fuzzy systems and its applications. IEEE Transactions on Fuzzy Systems, 1996, 4, 149-165.	6.5	42
138	Robust stability for linear discrete-time systems with structured perturbations. International Journal of Control, 1995, 61, 739-748.	1.2	14
139	Approximation theory of fuzzy systems-MIMO case. IEEE Transactions on Fuzzy Systems, 1995, 3, 219-235.	6.5	278
140	Approximation theory of fuzzy systems-SISO case. IEEE Transactions on Fuzzy Systems, 1994, 2, 162-176.	6.5	306
141	Approximation capability analysis of hierarchical Takagi-Sugeno fuzzy systems. , 0, , .		2
142	A granular computing view on function approximation. , 0, , .		1
143	Heterogeneous group decision making with thermodynamical parameters. Economic Research-Ekonomska Istrazivanja, 0, , 1-25.	2.6	0