Fernando Gomide

List of Publications by Year
in descending order

145 papers	3,888 citations	236833 25 h-index	223716 46 g-index
176 all docs	176 docs citations	176 times ranked	1861 citing authors

#	Article	IF	Citations
1	An Introduction to Fuzzy Sets. , 1998, , .		775
2	Evolving fuzzy and neuro-fuzzy approaches in clustering, regression, identification, and classification: A Survey. Information Sciences, 2019, 490, 344-368.	4.0	203
3	Multivariable Gaussian Evolving Fuzzy Modeling System. IEEE Transactions on Fuzzy Systems, 2011, 19, 91-104.	6.5	162
4	A generalized fuzzy Petri net model. IEEE Transactions on Fuzzy Systems, 1994, 2, 295-301.	6.5	146
5	Adaptive fault detection and diagnosis using an evolving fuzzy classifier. Information Sciences, 2013, 220, 64-85.	4.0	126
6	Evolving fuzzy granular modeling from nonstationary fuzzy data streams. Evolving Systems, 2012, 3, 65-79.	2.4	110
7	A reasoning algorithm for high-level fuzzy Petri nets. IEEE Transactions on Fuzzy Systems, 1996, 4, 282-294.	6.5	96
8	Evolving granular neural networks from fuzzy data streams. Neural Networks, 2013, 38, 1-16.	3.3	95
9	Evolving granular analytics for interval time series forecasting. Granular Computing, 2016, 1, 213-224.	4.4	92
10	Design of fuzzy systems using neurofuzzy networks. IEEE Transactions on Neural Networks, 1999, 10, 815-827.	4.8	88
11	Evolving Granular Fuzzy Model-Based Control of Nonlinear Dynamic Systems. IEEE Transactions on Fuzzy Systems, 2015, 23, 923-938.	6.5	82
12	A fast learning algorithm for evolving neo-fuzzy neuron. Applied Soft Computing Journal, 2014, 14, 194-209.	4.1	80
13	Fuzzy modeling in symptomatic HIV virus infected population. Bulletin of Mathematical Biology, 2004, 66, 1597-1620.	0.9	72
14	Uninorm based evolving neural networks and approximation capabilities. Neurocomputing, 2014, 127, 13-20.	3.5	56
15	Evolving fuzzy systems for pricing fixed income options. Evolving Systems, 2012, 3, 5-18.	2.4	46
16	Fuzzy evolving linear regression trees. Evolving Systems, 2011, 2, 1-14.	2.4	43
17	Coevolutionary genetic fuzzy systems: a hierarchical collaborative approach. Fuzzy Sets and Systems, 2004, 141, 89-106.	1.6	41
18	Enhanced evolving participatory learning fuzzy modeling: an application for asset returns volatility forecasting. Evolving Systems, 2014, 5, 75-88.	2.4	41

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19	Hierarchical genetic fuzzy systems. Information Sciences, 2001, 136, 29-52.	4.0	40
20	Evolving Possibilistic Fuzzy Modeling for Realized Volatility Forecasting With Jumps. IEEE Transactions on Fuzzy Systems, 2017, 25, 302-314.	6.5	39
21	An overview on evolving systems and learning from stream data. Evolving Systems, 2020, 11, 181-198.	2.4	39
22	A high level net approach for discovering potential incosistencies in fuzzy knowledge bases. Fuzzy Sets and Systems, 1994, 64, 175-193.	1.6	34
23	Context adaptation in fuzzy processing and genetic algorithms. International Journal of Intelligent Systems, 1998, 13, 929-948.	3.3	33
24	Optimal Rule-Based Granular Systems From Data Streams. IEEE Transactions on Fuzzy Systems, 2020, 28, 583-596.	6.5	32
25	Evolving granular neural network for semi-supervised data stream classification. , 2010, , .		31
26	Participatory Learning in Power Transformers Thermal Modeling. IEEE Transactions on Power Delivery, 2008, 23, 2058-2067.	2.9	28
27	Genetic fuzzy systems. New developments. Fuzzy Sets and Systems, 2004, 141, 1-3.	1.6	27
28	New uninorm-based neuron model and fuzzy neural networks. , 2010, , .		27
29	Fuzzy granular evolving modeling for time series prediction. , 2011, , .		27
30	Fuzzy Set Based Neural Networks: Structure, Learning and Application. Journal of Advanced Computational Intelligence and Intelligent Informatics, 1999, 3, 151-157.	0.5	26
31	Participatory Evolving Fuzzy Modeling. , 2006, , .		25
32	Autonomous Fuzzy Control and Navigation of Quadcopters. IFAC-PapersOnLine, 2016, 49, 73-78.	0.5	24
33	Fuzzy Reasoning and Fuzzy Petri Nets in Manufacturing Systems Modeling. Journal of Intelligent and Fuzzy Systems, 1993, 1, 225-241.	0.8	23
34	Recurrent Neurofuzzy Network in Thermal Modeling of Power Transformers. IEEE Transactions on Power Delivery, 2007, 22, 904-910.	2.9	22
35	Interval Approach for Evolving Granular System Modeling. , 2012, , 271-300.		22
36	MODELING FUZZY REASONING USING HIGH LEVEL FUZZY PETRI NETS. International Journal of Uncertainty, Fuzziness and Knowlege-Based Systems, 1996, 04, 61-85.	0.9	18

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37	Cellular automata with fuzzy parameters in microscopic study of positive HIV individuals. Mathematical and Computer Modelling, 2009, 50, 32-44.	2.0	18
38	Evolving Fuzzy-GARCH Approach for Financial Volatility Modeling and Forecasting. Computational Economics, 2016, 48, 379-398.	1.5	18
39	Granular approximation of solutions of partial differential equations with fuzzy parameter. Granular Computing, 2018, 3, 1-7.	4.4	17
40	METHODOLOGY TO DETERMINE THE EVOLUTION OF ASYMPTOMATIC HIV POPULATION USING FUZZY SET THEORY. International Journal of Uncertainty, Fuzziness and Knowlege-Based Systems, 2005, 13, 39-58.	0.9	16
41	Chapter 20 Fuzzy relational ontological model in information search systems. Capturing Intelligence, 2006, 1, 395-412.	1.5	16
42	Granular Approach for Evolving System Modeling. Lecture Notes in Computer Science, 2010, , 340-349.	1.0	16
43	Real-time fault diagnosis of nonlinear systems. Nonlinear Analysis: Theory, Methods & Applications, 2009, 71, e2665-e2673.	0.6	15
44	A fast learning algorithm for uninorm-based fuzzy neural networks. , 2012, , .		15
45	Recursive possibilistic fuzzy modeling. , 2014, , .		14
46	Evolving granular classification neural networks. , 2009, , .		13
47	Evolving Neo-fuzzy Neural Network with Adaptive Feature Selection. , 2013, , .		13
48	Evolving hybrid neural fuzzy network for realized volatility forecasting with jumps. , 2014, , .		13
49	Neural Network Based Algorithm for Dynamic System Optimization. Asian Journal of Control, 2001, 3, 131-142.	1.9	12
50	Evolving neural network with extreme learning for system modeling. , 2014, , .		12
51	Universal approximation with uninorm-based fuzzy neural networks. , 2011, , .		11
52	MIMO evolving functional fuzzy models for interest rate forecasting. , 2012, , .		11
53	Evolving granular neural network for fuzzy time series forecasting. , 2012, , .		11
54	Evolving Hybrid Neural Fuzzy Network for System Modeling and Time Series Forecasting. , 2013, , .		11

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55	Real-time nonlinear modeling of a twin rotor MIMO system using evolving neuro-fuzzy network. , 2014, , .		11
56	An evolving possibilistic fuzzy modeling approach for Value-at-Risk estimation. Applied Soft Computing Journal, 2017, 60, 820-830.	4.1	11
57	Evolving granular feedback linearization: Design, analysis, and applications. Applied Soft Computing Journal, 2020, 86, 105927.	4.1	11
58	Evolving Intelligent Systems: Methods, Algorithms and Applications. Smart Innovation, Systems and Technologies, 2013, , 117-159.	0.5	11
59	Hybrid neurofuzzy computing with nullneurons. , 2008, , .		10
60	A differential evolution algorithm for yield curve estimation. Mathematics and Computers in Simulation, 2016, 129, 10-30.	2.4	10
61	Fuzzy Multivariable Gaussian Evolving Approach for Fault Detection and Diagnosis. Lecture Notes in Computer Science, 2010, , 360-369.	1.0	10
62	A new type of approximation for fuzzy intervals. Fuzzy Sets and Systems, 2008, 159, 1376-1383.	1.6	9
63	Interval-based evolving modeling. , 2009, , .		9
64	Adaptive fuzzy modeling of interval-valued stream data and application in cryptocurrencies prediction. Neural Computing and Applications, 2023, 35, 7149-7159.	3.2	9
65	Genetic fuzzy systems to evolve interaction strategies in multiagent systems. International Journal of Intelligent Systems, 2007, 22, 971-991.	3.3	8
66	Uninetworks in time series forecasting. , 2009, , .		8
67	Evolving possibilistic fuzzy modeling for financial interval time series forecasting. , 2015, , .		8
68	Kernel Evolving Participatory Fuzzy Modeling for Time Series Forecasting. , 2018, , .		8
69	Hierarchical Genetic Fuzzy Systems: Accuracy, Interpretability and Design Autonomy. Studies in Fuzziness and Soft Computing, 2003, , 379-405.	0.6	8
70	A BIOLOGICALLY INSPIRED NEURAL NETWORK FOR DYNAMIC PROGRAMMING. International Journal of Neural Systems, 2001, 11, 561-572.	3.2	7
71	Electricity market simulation. , 2008, , .		7
72	Information retrieval with FROM: The fuzzy relational ontological model. International Journal of Intelligent Systems, 2009, 24, 340-356.	3.3	7

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73	MIMO evolving participatory learning fuzzy modeling. , 2012, , .		7
74	Evolving participatory learning fuzzy modeling for financial interval time series forecasting. , 2017, , .		7
75	Intelligent Real-Time Traffic Control. International Journal of Smart Engineering System Design, 2002, 4, 49-62.	0.2	6
76	Design of coordination strategies in multiagent systems via genetic fuzzy systems. Soft Computing, 2006, 10, 903-915.	2.1	6
77	Evolving fuzzy systems for pricing fixed income options. , 2011, , .		6
78	Evolving Neural Fuzzy Network with Adaptive Feature Selection. , 2012, , .		6
79	Participatory Learning Fuzzy Clustering for Interval-Valued Data. Communications in Computer and Information Science, 2016, , 687-698.	0.4	6
80	Neurons and Neural Fuzzy Networks Based on Nullnorms. Brazilian Symposium on Neural Networks, Proceedings of the, 2008, , .	0.0	5
81	Evolutionary participatory learning in fuzzy systems modeling. , 2013, , .		5
82	Recent advances on evolving intelligent systems and applications. Evolving Systems, 2014, 5, 217-218.	2.4	5
83	Evolving possibilistic fuzzy modeling. , 2015, , .		5
84	Fuzzy Granular Neural Network for incremental modeling of nonlinear chaotic systems. , 2016, , .		5
85	An Algorithm to Solve Two-Person Non-zero Sum Fuzzy Games. , 2007, , 296-302.		5
86	Multiagent coevolutionary genetic fuzzy system to develop bidding strategies in electricity markets: computational economics to assess mechanism design. Evolutionary Intelligence, 2009, 2, 53-71.	2.3	4
87	Parameter control of metaheuristics with genetic fuzzy systems. Evolutionary Intelligence, 2011, 4, 183-202.	2.3	4
88	Evolving fuzzy linear regression trees with feature selection. , 2011, , .		4
89	An enhanced approach for evolving participatory learning fuzzy modeling. , 2012, , .		4
90	Extreme Learning for Evolving Hybrid Neural Networks. , 2012, , .		4

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91	Participatory learning in the neurofuzzy short-term load forecasting. , 2014, , .		4
92	Adaptive Input Selection and Evolving Neural Fuzzy Networks Modeling. International Journal of Computational Intelligence Systems, 2015, 8, 3-14.	1.6	4
93	Evolving possibilistic fuzzy modelling. Journal of Statistical Computation and Simulation, 2017, 87, 1446-1466.	0.7	4
94	A participatory search algorithm. Evolutionary Intelligence, 2017, 10, 23-43.	2.3	4
95	Evolving Granular Fuzzy Min-Max Regression. Advances in Intelligent Systems and Computing, 2018, , 162-171.	0.5	4
96	Decision Making Strategies for Real-Time Train Dispatch and Control. , 2007, , 195-204.		4
97	Evolving Linguistic Fuzzy Models from Data Streams. Studies in Fuzziness and Soft Computing, 2012, , 209-223.	0.6	4
98	Adaptive Fuzzy C-Regression Modeling for Time Series Forecasting. , 0, , .		4
99	Granular Evolving Min-Max Fuzzy Modeling. , 0, , .		4
100	A Coevolutionary Approach to Solve Fuzzy Games. , 2008, , 121-130.		4
101	Nullneurons-Based Hybrid Neurofuzzy Network. , 2007, , .		3
102	Fuzzy Clustering with Participatory Learning and Applications. , 0, , 137-153.		3
103	Recurrent fuzzy neural computation: Modeling, learning and application. , 2010, , .		3
104	Evolving fuzzy linear regression tree approach for forecasting sales volume of petroleum products. , 2012, , .		3
105	Modeling the term structure of government bond yields with a differential evolution algorithm. , 2012, , .		3
106	Exchange rate forecasting using echo state networks for trading strategies. , 2014, , .		3
107	Granular evolving fuzzy robust feedback linearization. , 2017, , .		3
108	Evolving fuzzy modelling for yield curve forecasting. International Journal of Economics and Business Research, 2018, 15, 290.	0.1	3

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109	Evolving granular control with high-gain observers for feedback linearizable nonlinear systems. Evolving Systems, 2021, 12, 935-948.	2.4	3
110	Relational Calculus in Designing Fuzzy Petri Nets. International Series in Intelligent Technologies, 1996, , 71-89.	0.1	3
111	Line Block Analysis in Railway Dispatch and Simulation Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2000, 33, 389-393.	0.4	2
112	New Neurofuzzy Training Procedure Based on Participatory Learning Paradigm. IEEE International Conference on Fuzzy Systems, 2007, , .	0.0	2
113	Market-based multiagent fuzzy control. , 2008, , .		2
114	Coevolutionary fuzzy multiagent bidding strategies in competitive electricity markets. , 2008, , .		2
115	Evolving fuzzy linear regression trees. , 2010, , .		2
116	Fuzzy coordination of genetic algorithms for vehicle routing problems with time windows. , 2010, , .		2
117	Participatory genetic learning in fuzzy system modeling. , 2013, , .		2
118	Parameter estimation of dynamic fuzzy models from uncertain data streams. , 2014, , .		2
119	Incremental Granular Fuzzy Modeling Using Imprecise Data Streams. Studies in Fuzziness and Soft Computing, 2015, , 107-124.	0.6	2
120	Regular policies and stability of dynamic scheduling for manufacturing systems. Computers and Operations Research, 1996, 23, 963-979.	2.4	1
121	Hierarchical fuzzy Petri nets and ?-level sets inference. International Journal of Intelligent Systems, 1999, 14, 859-871.	3.3	1
122	Memory control of tabu search with genetic fuzzy systems. , 2010, , .		1
123	Fuzzy systems modeling with participatory evolution. , 2013, , .		1
124	Performance evaluation of evolving classifier algorithms in high dimensional spaces. , 2016, , .		1
125	Stock Market Price Forecasting Using a Kernel Participatory Learning Fuzzy Model. Communications in Computer and Information Science, 2018, , 361-373.	0.4	1
126	Evolving Granular Fuzzy Min-Max Modeling. Communications in Computer and Information Science, 2018, , 37-48.	0.4	1

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127	Multiobjective Optimization of Fully Autonomous Evolving Fuzzy Granular Models. , 2019, , .		1
128	Robust Granular Feedback Linearization. , 2019, , .		1
129	System Modeling and Forecasting with Evolving Fuzzy Algorithms. Studies in Fuzziness and Soft Computing, 2013, , 255-268.	0.6	1
130	What We Are Learning from Neurosciences about Decision-Making: A Quest for Fuzzy Set Technology. Studies in Fuzziness and Soft Computing, 2009, , 361-375.	0.6	1
131	Evolving Fuzzy Modeling for Stock Market Forecasting. Communications in Computer and Information Science, 2012, , 20-29.	0.4	1
132	Evolving fuzzy modelling for yield curve forecasting. International Journal of Economics and Business Research, 2018, 15, 290.	0.1	1
133	Evolving hyperbox fuzzy modeling. Evolving Systems, 2022, 13, 423-434.	2.4	1
134	Title is missing!. Fuzzy Sets and Systems, 2007, 158, 2767-2768.	1.6	0
135	Neurofuzzy Network with On-Line Learning in Fault Detection of Dynamic Systems. , 2008, , 375-387.		0
136	Out-of-equilibrium price dynamics and the inflationary process. , 2011, , .		0
137	Stock market volatility prediction using possibilistic fuzzy modeling. , 2015, , .		0
138	On the Use of Participatory Genetic Fuzzy System Approach to Develop Fuzzy Models. , 2015, , 67-86.		0
139	Evolving possibilistic fuzzy modeling for equity options pricing. , 2016, , .		0
140	Fuzzy systems modeling with participatory search algorithm. , 2017, , .		0
141	Participatory Search in Evolutionary Fuzzy Modeling. Studies in Fuzziness and Soft Computing, 2018, , 191-212.	0.6	0
142	Forecasting Exchange Rates with Fuzzy Granular Evolving Modeling for Trading Strategies. , 2013, , .		0
143	Evolving Possibilistic Fuzzy Modeling andÂApplication in Value-at-Risk Estimation. Studies in Fuzziness and Soft Computing, 2017, , 119-139.	0.6	0
144	Comparisons of robust methods on feedback linearization through experimental tests. IFAC-PapersOnLine, 2020, 53, 7983-7988.	0.5	0

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145	Evolving Systems. Studies in Fuzziness and Soft Computing, 2021, , 169-178.	0.6	0