Marian B Gorzalczany

List of Publications by Year
in descending order

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Version: 2024-02-01

42 papers	1,610 citations	687363 13 h-index	501196 28 g-index
44 all docs	44 docs citations	44 times ranked	928 citing authors

#	Article	IF	Citations
1	A method of inference in approximate reasoning based on interval-valued fuzzy sets. Fuzzy Sets and Systems, 1987, 21, 1-17.	2.7	899
2	An interval-valued fuzzy inference methodâ€" Some basic properties. Fuzzy Sets and Systems, 1989, 31, 243-251.	2.7	99
3	A multi-objective genetic optimization for fast, fuzzy rule-based credit classification with balanced accuracy and interpretability. Applied Soft Computing Journal, 2016, 40, 206-220.	7.2	87
4	Interval-valued fuzzy controller based on verbal model of object. Fuzzy Sets and Systems, 1988, 28, 45-53.	2.7	64
5	Decision making in signal transmission problems with interval-valued fuzzy sets. Fuzzy Sets and Systems, 1987, 23, 191-203.	2.7	62
6	Interpretable and accurate medical data classification â€" a multi-objective genetic-fuzzy optimization approach. Expert Systems With Applications, 2017, 71, 26-39.	7.6	62
7	Computational Intelligence Systems and Applications. Studies in Fuzziness and Soft Computing, 2002, , .	0.8	46
8	On stability of formal fuzziness systems. Information Sciences, 1980, 22, 51-68.	6.9	38
9	Neuro-fuzzy approach versus rough-set inspired methodology for intelligent decision support. Information Sciences, 1999, 120, 45-68.	6.9	37
10	Accuracy vs. Interpretability of Fuzzy Rule-Based Classifiers: An Evolutionary Approach. Lecture Notes in Computer Science, 2012, , 222-230.	1.3	21
11	On some idea of a neuro-fuzzy controller. Information Sciences, 1999, 120, 69-87.	6.9	17
12	A Modified Pittsburg Approach to Design a Genetic Fuzzy Rule-Based Classifier from Data. Lecture Notes in Computer Science, 2010, , 88-96.	1.3	15
13	Interval-valued fuzzy inference involving uncertain (inconsistent) conditional propositions. Fuzzy Sets and Systems, 1989, 29, 235-240.	2.7	14
14	Generalized Self-Organizing Maps for Automatic Determination of the Number of Clusters and Their Multiprototypes in Cluster Analysis. IEEE Transactions on Neural Networks and Learning Systems, 2017, 29, 1-13.	11.3	14
15	A neuro-fuzzy-genetic classifier for technical applications. , 0, , .		11
16	Handling fuzzy systemsâ€™ accuracy-interpretability trade-off by means of multi-objective evolutionary optimization methods â€" selected problems. Bulletin of the Polish Academy of Sciences: Technical Sciences, 2015, 63, 791-798.	0.8	11
17	Cluster Analysis Via Dynamic Self-organizing Neural Networks. Lecture Notes in Computer Science, 2006, , 593-602.	1.3	11
18	Application of Genetic Algorithms and Kohonen Networks to Cluster Analysis. Lecture Notes in Computer Science, 2004, , 556-561.	1.3	11

#	Article	IF	Citations
19	A Modern Data-Mining Approach Based on Genetically Optimized Fuzzy Systems for Interpretable and Accurate Smart-Grid Stability Prediction. Energies, 2020, 13, 2559.	3.1	10
20	WWW-Newsgroup-Document Clustering by Means of Dynamic Self-organizing Neural Networks. Lecture Notes in Computer Science, 2008, , 40-51.	1.3	8
21	An improved multi-objective evolutionary optimization of data-mining-based fuzzy decision support systems. , 2016, , .		8
22	Generalized Tree-Like Self-Organizing Neural Networks with Dynamically Defined Neighborhood for Cluster Analysis. Lecture Notes in Computer Science, 2014, , 713-725.	1.3	7
23	A multi-objective-genetic-optimization-based data-driven fuzzy classifier for technical applications. , 2016, , .		6
24	An idea of the application of fuzzy neural networks to medical decision support systems. , 0, , .		4
25	Business Intelligence in Airline Passenger Satisfaction Studyâ€"A Fuzzy-Genetic Approach with Optimized Interpretability-Accuracy Trade-Off. Applied Sciences (Switzerland), 2021, 11, 5098.	2.5	4
26	Neuro-Fuzzy Systems for Rule-Based Modelling of Dynamic Processes. International Series in Intelligent Technologies, 2002, , 135-146.	0.1	4
27	Microarray Leukemia Gene Data Clustering by Means of Generalized Self-organizing Neural Networks with Evolving Tree-Like Structures. Lecture Notes in Computer Science, 2015, , 15-25.	1.3	4
28	Fuzzy neural networks versus alternative approaches in medical decision support. , 0, , .		3
29	Gene expression data clustering using tree-like SOMs with evolving splitting-merging structures. , 2016, , .		3
30	Electricity Consumption Data Clustering for Load Profiling Using Generalized Self-Organizing Neural Networks with Evolving Splitting-Merging Structures. , 2018, , .		3
31	Generalized SOMs with Splitting-Merging Tree-Like Structures for WWW-Document Clustering. , 0, , .		3
32	Neuro-fuzzy networks in time series modelling. , 0, , .		2
33	Heart-disease diagnosis decision support employing fuzzy systems with genetically optimized accuracy-interpretability trade-off. , 2017, , .		2
34	Evolution of SOMsâ€™ Structure and Learning Algorithm: From Visualization of High-Dimensional Data to Clustering of Complex Data. Algorithms, 2020, 13, 109.	2.1	2
35	Classification of Splice-Junction DNA Sequences Using Multi-objective Genetic-Fuzzy Optimization Techniques. Lecture Notes in Computer Science, 2017, , 638-648.	1.3	2
36	Business data modelling and forecasting with the use of fuzzy neural networks. , 0, , .		1

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37	ECG Time Series Classification via Genetic-Fuzzy Approach Based on Accuracy-Interpretability Trade-Off Optimization. , 2018, , .		1
38	A Computational-Intelligence-Based Approach to Decision Support. Series in Machine Perception and Artificial Intelligence, 2000, , 51-73.	0.1	1
39	UniProt protein sequence data classification using genetically-optimized fuzzy rule-based systems. , 2017, , .		0
40	Gene-Promoter-Sequence Recognition â€“ an Interpretable and Accurate Fuzzy-Genetic Approach. , 2019, , .		0
41	Uncovering informative genes from colon cancer gene expression data via multi-step clustering based on generalized SOMs with splitting-merging structures. , 2019, , .		0
42	Time-series-dynamics Modeling and Forecasting â€“ An Accurate and Interpretable Genetic-Fuzzy Approach. Advances in Intelligent Systems and Computing, 2018, , 165-175.	0.6	0