

Witold Pedrycz

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

96
papers

4,756
citations

33
h-index

68
g-index

99
ext. papers

5,504
ext. citations

4.8
avg, IF

6.11
L-index

#	Paper	IF	Citations
96	A Linguistic Information Granulation Model and Its Penalty Function-Based Co-Evolutionary PSO Solution Approach for Supporting GDM with Distributed Linguistic Preference Relations. <i>Information Fusion</i> , 2022 , 77, 118-132	16.7	3
95	Hybrid fuzzy multiple SVM classifier through feature fusion based on convolution neural networks and its practical applications. <i>Expert Systems With Applications</i> , 2022 , 202, 117392	7.8	0
94	Efficiency evaluation with regret-rejoice cross-efficiency DEA models under the distributed linguistic environment. <i>Computers and Industrial Engineering</i> , 2022 , 169, 108281	6.4	2
93	Applications: Granular Models, Granular Classifiers and Fuzzy Cognitive Maps. <i>Intelligent Systems Reference Library</i> , 2021 , 249-269	0.8	
92	Granulation-Degrgranulation Processes. <i>Intelligent Systems Reference Library</i> , 2021 , 161-173	0.8	
91	Modeling of the ship steady turning motion based on multiblocks of fuzzy cognitive maps. <i>Applied Ocean Research</i> , 2021 , 110, 102604	3.4	2
90	Group Decision Making Based on Flexibility Degree of Fuzzy Numbers Under a Confidence Level. <i>IEEE Transactions on Fuzzy Systems</i> , 2021 , 29, 1640-1653	8.3	2
89	Linguistic Distribution and Priority-Based Approximation to Linguistic Preference Relations With Flexible Linguistic Expressions in Decision Making. <i>IEEE Transactions on Cybernetics</i> , 2021 , 51, 649-659	10.2	18
88	The Learning of Fuzzy Cognitive Maps With Noisy Data: A Rapid and Robust Learning Method With Maximum Entropy. <i>IEEE Transactions on Cybernetics</i> , 2021 , 51, 2080-2092	10.2	6
87	Designing of higher order information granules through clustering heterogeneous granular data. <i>Applied Soft Computing Journal</i> , 2021 , 112, 107820	7.5	1
86	. <i>IEEE Transactions on Fuzzy Systems</i> , 2020 , 1-1	8.3	1
85	Consensus mechanism with maximum-return modifications and minimum-cost feedback: A perspective of game theory. <i>European Journal of Operational Research</i> , 2020 , 287, 546-559	5.6	43
84	Maximum Fuzzy Consensus Feedback Mechanism With Minimum Cost and Private Interest in Group Decision-Making. <i>IEEE Transactions on Fuzzy Systems</i> , 2020 , 1-1	8.3	4
83	Estimating incomplete information in group decision making: A framework of granular computing. <i>Applied Soft Computing Journal</i> , 2020 , 86, 105930	7.5	26
82	Fast and Effective Learning for Fuzzy Cognitive Maps: A Method Based on Solving Constrained Convex Optimization Problems. <i>IEEE Transactions on Fuzzy Systems</i> , 2020 , 28, 2958-2971	8.3	4
81	Robust Multi-Linear Fuzzy SVR Designed With the Aid of Fuzzy C-Means Clustering Based on Insensitive Data Information. <i>IEEE Access</i> , 2020 , 8, 184997-185011	3.5	2
80	Consistency and consensus-driven models to personalize individual semantics of linguistic terms for supporting group decision making with distribution linguistic preference relations. <i>Knowledge-Based Systems</i> , 2020 , 189, 105078	7.3	20

79	Flexibility Degree of Fuzzy Numbers and its Implication to a Group-Decision-Making Model. <i>IEEE Transactions on Cybernetics</i> , 2019 , 49, 4054-4065	10.2	9
78	Granulating linguistic information in decision making under consensus and consistency. <i>Expert Systems With Applications</i> , 2018 , 99, 83-92	7.8	86
77	Granular Representation of Data: A Design of Families of α -Information Granules. <i>IEEE Transactions on Fuzzy Systems</i> , 2018 , 26, 2107-2119	8.3	23
76	Efficient mining product-based fuzzy association rules through central limit theorem. <i>Applied Soft Computing Journal</i> , 2018 , 63, 235-248	7.5	10
75	Improving Consensus in Group Decision Making with Intuitionistic Reciprocal Preference Relations: A Granular Computing Approach 2018 ,		3
74	Granular Data Description: Designing Ellipsoidal Information Granules. <i>IEEE Transactions on Cybernetics</i> , 2017 , 47, 4475-4484	10.2	43
73	An axiomatic approach to approximation-consistency of triangular fuzzy reciprocal preference relations. <i>Fuzzy Sets and Systems</i> , 2017 , 322, 1-18	3.7	31
72	Fuzzy cognitive maps in the modeling of granular time series. <i>Knowledge-Based Systems</i> , 2017 , 115, 110-122	7.2	40
71	. <i>IEEE Transactions on Fuzzy Systems</i> , 2017 , 25, 1115-1126	8.3	31
70	Hybrid fuzzy polynomial neural networks with the aid of weighted fuzzy clustering method and fuzzy polynomial neurons. <i>Applied Intelligence</i> , 2017 , 46, 487-508	4.9	10
69	Design of Fuzzy Cognitive Maps for Modeling Time Series. <i>IEEE Transactions on Fuzzy Systems</i> , 2016 , 24, 120-130	8.3	61
68	Multiobjective and multiattribute decision making in a fuzzy environment and their power engineering applications. <i>Information Sciences</i> , 2016 , 361-362, 100-119	7.7	25
67	Hesitant Fuzzy Maclaurin Symmetric Mean Operators and Its Application to Multiple-Attribute Decision Making. <i>International Journal of Fuzzy Systems</i> , 2015 , 17, 509-520	3.6	48
66	A Competent Memetic Algorithm for Learning Fuzzy Cognitive Maps. <i>IEEE Transactions on Fuzzy Systems</i> , 2015 , 23, 2397-2411	8.3	32
65	Automatic Data Understanding. <i>Advances in Intelligent Systems and Computing</i> , 2015 , 217-228	0.4	
64	From Fuzzy Cognitive Maps to Granular Cognitive Maps. <i>IEEE Transactions on Fuzzy Systems</i> , 2014 , 22, 859-869	8.3	44
63	The modeling and prediction of time series based on synergy of high-order fuzzy cognitive map and fuzzy c-means clustering. <i>Knowledge-Based Systems</i> , 2014 , 70, 242-255	7.3	61
62	A review of soft consensus models in a fuzzy environment. <i>Information Fusion</i> , 2014 , 17, 4-13	16.7	433

61	Granular Cognitive Maps reconstruction 2014 ,		3
60	Cluster-Centric Fuzzy Modeling. <i>IEEE Transactions on Fuzzy Systems</i> , 2014 , 22, 1585-1597	8.3	67
59	Fuzzy Radial Basis Function Neural Networks with information granulation and its parallel genetic optimization. <i>Fuzzy Sets and Systems</i> , 2014 , 237, 96-117	3.7	27
58	Building consensus in group decision making with an allocation of information granularity. <i>Fuzzy Sets and Systems</i> , 2014 , 255, 115-127	3.7	158
57	Triangular fuzzy decision-theoretic rough sets. <i>International Journal of Approximate Reasoning</i> , 2013 , 54, 1087-1106	3.6	145
56	Fuzzy relational structures: Learning alternatives for fuzzy modeling 2013 ,		2
55	Associations Among Information Granules and Their Optimization in Granulation-Degrgranulation Mechanism of Granular Computing. <i>International Journal of Fuzzy Logic and Intelligent Systems</i> , 2013 , 13, 245-253	1.8	1
54	An optimization of allocation of information granularity in the interpretation of data structures: toward granular fuzzy clustering. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , 2012 , 42, 582-90		124
53	Learning of fuzzy cognitive maps using density estimate. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , 2012 , 42, 900-12		51
52	Expert-Based and Computational Methods for Developing Fuzzy Cognitive Maps. <i>Studies in Fuzziness and Soft Computing</i> , 2010 , 23-41	0.7	28
51	A gradient-descent-based approach for transparent linguistic interface generation in fuzzy models. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , 2010 , 40, 1219-30		19
50	A divide and conquer method for learning large Fuzzy Cognitive Maps. <i>Fuzzy Sets and Systems</i> , 2010 , 161, 2515-2532	3.7	78
49	The design of cognitive maps: A study in synergy of granular computing and evolutionary optimization. <i>Expert Systems With Applications</i> , 2010 , 37, 7288-7294	7.8	60
48	Identification of fuzzy relation models using hierarchical fair competition-based parallel genetic algorithms and information granulation. <i>Applied Mathematical Modelling</i> , 2009 , 33, 2791-2807	4.5	11
47	Hybrid fuzzy set-based polynomial neural networks and their development with the aid of genetic optimization and information granulation. <i>Applied Soft Computing Journal</i> , 2009 , 9, 1068-1089	7.5	28
46	A Development of Fuzzy Encoding and Decoding Through Fuzzy Clustering. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2008 , 57, 829-837	5.2	62
45	Numerical and Linguistic Prediction of Time Series With the Use of Fuzzy Cognitive Maps. <i>IEEE Transactions on Fuzzy Systems</i> , 2008 , 16, 61-72	8.3	120
44	Data-driven Nonlinear Hebbian Learning method for Fuzzy Cognitive Maps 2008 ,		55

43	Identification of fuzzy models using a successive tuning method with a variant identification ratio. <i>Fuzzy Sets and Systems</i> , 2008 , 159, 2873-2889	3.7	59
42	Structural and parametric design of fuzzy inference systems using hierarchical fair competition-based parallel genetic algorithms and information granulation. <i>International Journal of Approximate Reasoning</i> , 2008 , 49, 631-648	3.6	27
41	Semantics and Perception of Fuzzy Sets and Fuzzy Mappings. <i>Studies in Computational Intelligence</i> , 2008 , 597-639	0.8	1
40	Parallel Learning of Large Fuzzy Cognitive Maps. <i>Neural Networks (IJCNN), International Joint Conference on</i> , 2007 ,		29
39	Fuzzy vector quantization with the particle swarm optimization: A study in fuzzy granulation-degranulation information processing. <i>Signal Processing</i> , 2007 , 87, 2061-2074	4.4	33
38	A genetic approach to modeling fuzzy systems based on information granulation and successive generation-based evolution method. <i>Simulation Modelling Practice and Theory</i> , 2007 , 15, 1128-1145	3.9	7
37	Structural developments of fuzzy systems with the aid of information granulation. <i>Simulation Modelling Practice and Theory</i> , 2007 , 15, 1292-1309	3.9	6
36	Fuzzy Relation-Based Neural Networks and Their Hybrid Identification. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2007 , 56, 2522-2537	5.2	7
35	Evolutionary design of hybrid self-organizing fuzzy polynomial neural networks with the aid of information granulation. <i>Expert Systems With Applications</i> , 2007 , 33, 830-846	7.8	20
34	Genetic Optimization of Fuzzy Polynomial Neural Networks. <i>IEEE Transactions on Industrial Electronics</i> , 2007 , 54, 2219-2238	8.9	12
33	The Development of Incremental Models. <i>IEEE Transactions on Fuzzy Systems</i> , 2007 , 15, 507-518	8.3	54
32	Identification of Fuzzy Set-Based Fuzzy Systems by Means of Data Granulation and Genetic Optimization 2007 , 1076-1085		
31	The design of self-organizing neural networks based on PNs and FPNs with the aid of genetic optimization and extended GMDH method. <i>International Journal of Approximate Reasoning</i> , 2006 , 43, 26-58	3.6	4
30	Genetic optimization-driven multi-layer hybrid fuzzy neural networks. <i>Simulation Modelling Practice and Theory</i> , 2006 , 14, 597-613	3.9	16
29	Methodological Identification of Information Granules-Based Fuzzy Systems by Means of Genetic Optimization. <i>Lecture Notes in Computer Science</i> , 2006 , 467-476	0.9	
28	Optimization of Information Granulation-Oriented Fuzzy Set Model Using Hierarchical Fair Competition-Based Parallel Genetic Algorithms. <i>Lecture Notes in Computer Science</i> , 2006 , 477-486	0.9	1
27	Design Methodologies of Fuzzy Set-Based Fuzzy Model Based on GAs and Information Granulation. <i>Lecture Notes in Computer Science</i> , 2006 , 100-109	0.9	1
26	Optimization of Fuzzy Systems Based on Fuzzy Set Using Genetic Optimization and Information Granulation. <i>Lecture Notes in Computer Science</i> , 2005 , 316-327	0.9	

25	Genetic learning of fuzzy cognitive maps. <i>Fuzzy Sets and Systems</i> , 2005 , 153, 371-401	3.7	337
24	Multi-layer hybrid fuzzy polynomial neural networks: a design in the framework of computational intelligence. <i>Neurocomputing</i> , 2005 , 64, 397-431	5.4	21
23	The Design of Genetically Optimized Self-Organizing Neural Networks with Polynomial and Fuzzy Polynomial Neurons. <i>Circuits, Systems, and Signal Processing</i> , 2005 , 24, 267-286	2.2	
22	Genetically Optimized Hybrid Fuzzy Neural Networks with the Aid of TSK Fuzzy Inference Rules and Polynomial Neural Networks. <i>Lecture Notes in Computer Science</i> , 2005 , 407-415	0.9	
21	Genetically Optimized Hybrid Fuzzy Neural Networks Based on Simplified Fuzzy Inference Rules and Polynomial Neurons. <i>Lecture Notes in Computer Science</i> , 2005 , 798-803	0.9	1
20	Self-organizing polynomial neural networks based on polynomial and fuzzy polynomial neurons: analysis and design. <i>Fuzzy Sets and Systems</i> , 2004 , 142, 163-198	3.7	30
19	Information Granulation-Based Multi-layer Hybrid Fuzzy Neural Networks: Analysis and Design. <i>Lecture Notes in Computer Science</i> , 2004 , 188-195	0.9	1
18	Genetically Optimized Self-Organizing Neural Networks Based on PNs and FPNs. <i>Lecture Notes in Computer Science</i> , 2004 , 156-161	0.9	
17	Polynomial neural networks architecture: analysis and design. <i>Computers and Electrical Engineering</i> , 2003 , 29, 703-725	4.3	121
16	Hybrid identification in fuzzy-neural networks. <i>Fuzzy Sets and Systems</i> , 2003 , 138, 399-426	3.7	68
15	Fuzzy Polynomial Neuron-Based Self-Organizing Neural Networks. <i>International Journal of General Systems</i> , 2003 , 32, 237-250	2.1	47
14	Hybrid identification of fuzzy rule-based models. <i>International Journal of Intelligent Systems</i> , 2002 , 17, 77	8.4	15
13	Implicit rule-based fuzzy-neural networks using the identification algorithm of GA hybrid scheme based on information granulation. <i>Advanced Engineering Informatics</i> , 2002 , 16, 247-263	7.4	14
12	The design of self-organizing Polynomial Neural Networks. <i>Information Sciences</i> , 2002 , 141, 237-258	7.7	117
11	HYBRID FUZZY POLYNOMIAL NEURAL NETWORKS. <i>International Journal of Uncertainty, Fuzziness and Knowledge-Based Systems</i> , 2002 , 10, 257-280	0.8	24
10	Identification of fuzzy systems by means of an auto-tuning algorithm and its application to nonlinear systems. <i>Fuzzy Sets and Systems</i> , 2000 , 115, 205-230	3.7	131
9	Why triangular membership functions?. <i>Fuzzy Sets and Systems</i> , 1994 , 64, 21-30	3.7	534
8	Relevancy of fuzzy models. <i>Information Sciences</i> , 1990 , 52, 285-302	7.7	9

7	Approximate solutions of fuzzy relational equations. <i>Fuzzy Sets and Systems</i> , 1988 , 28, 183-202	3.7	57
6	PROCESSING OF FUZZY NUMBERS BY FUZZY RELATION EQUATIONS. <i>Kybernetes</i> , 1986 , 15, 43-47	2	7
5	On the suitability of fuzzy models: an evaluation through fuzzy integrals. <i>International Journal of Man-Machine Studies</i> , 1986 , 24, 141-151		4
4	An identification algorithm in fuzzy relational systems. <i>Fuzzy Sets and Systems</i> , 1984 , 13, 153-167	3.7	403
3	Numerical and applicational aspects of fuzzy relational equations. <i>Fuzzy Sets and Systems</i> , 1983 , 11, 1-183.7		126
2	Fuzzy relational equations with generalized connectives and their applications. <i>Fuzzy Sets and Systems</i> , 1983 , 10, 185-201	3.7	93
1	On identification in fuzzy systems and its applications in control problems. <i>Fuzzy Sets and Systems</i> , 1981 , 6, 73-83	3.7	151