

Witold Pedrycz

List of Publications by Year in descending order

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735
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11978
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#	ARTICLE	IF	CITATIONS
1	From Numeric to Granular Models: A Quest for Error and Performance Analysis. IEEE Transactions on Cybernetics, 2024, 54, 150-161.	6.2	3
2	Measuring Weak Consistency and Weak Transitivity of Pairwise Comparison Matrices. IEEE Transactions on Cybernetics, 2023, 53, 303-314.	6.2	3
3	Design of Granular Model: A Method Driven by Hyper-Box Iteration Granulation. IEEE Transactions on Cybernetics, 2023, 53, 2899-2913.	6.2	6
4	Training Novel Adaptive Fuzzy Cognitive Map by Knowledge-Guidance Learning Mechanism for Large-Scale Time-Series Forecasting. IEEE Transactions on Cybernetics, 2023, 53, 4665-4676.	6.2	6
5	Robust and Precise Facial Landmark Detection by Self-Calibrated Pose Attention Network. IEEE Transactions on Cybernetics, 2023, 53, 3546-3560.	6.2	11
6	A Design of Granular Classifier Based on Granular Data Descriptors. IEEE Transactions on Cybernetics, 2023, 53, 1790-1801.	6.2	10
7	Consensus Reaching Based on Social Influence Evolution in Group Decision Making. IEEE Transactions on Cybernetics, 2023, 53, 4134-4147.	6.2	13
8	KNNENS: A <i>k</i> -Nearest Neighbor Ensemble-Based Method for Incremental Learning Under Data Stream With Emerging New Classes. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 9520-9527.	7.2	11
9	Computing and Clustering in the Environment of Order-2 Information Granules. IEEE Transactions on Cybernetics, 2023, 53, 5414-5423.	6.2	2
10	A Dynamic Scheduling Framework for Byproduct Gas System Combining Expert Knowledge and Production Plan. IEEE Transactions on Automation Science and Engineering, 2023, 20, 541-552.	3.4	7
11	Consensus Reaching Process for Traditional Group Decision Making in View of the Optimal Adjustment Mechanism. IEEE Transactions on Cybernetics, 2023, 53, 3748-3759.	6.2	12
12	Amer: A New Attribute-Missing Network Embedding Approach. IEEE Transactions on Cybernetics, 2023, 53, 4306-4319.	6.2	3
13	A Multiattribute Group Decision-Making Method With Probabilistic Linguistic Information Based on an Adaptive Consensus Reaching Model and Evidential Reasoning. IEEE Transactions on Cybernetics, 2023, 53, 1905-1919.	6.2	22
14	Derived Multi-population Genetic Algorithm for Adaptive Fuzzy C-Means Clustering. Neural Processing Letters, 2023, 55, 2023-2047.	2.0	4
15	Interval Dominance-Based Feature Selection for Interval-Valued Ordered Data. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 6898-6912.	7.2	33
16	Assessing Spatial Synergy Between Integrated Urban Rail Transit System and Urban Form: A BULI-Based MCLSGA Model With the Wisdom of Crowds. IEEE Transactions on Fuzzy Systems, 2023, 31, 434-448.	6.5	19
17	Design and Development of Granular Fuzzy Rule-Based Models for Knowledge Transfer. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2023, 53, 704-715.	5.9	2
18	Reinforced Two-Stream Fuzzy Neural Networks Architecture Realized With the Aid of One-Dimensional/Two-Dimensional Data Features. IEEE Transactions on Fuzzy Systems, 2023, 31, 707-721.	6.5	0

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19	Linear Fuzzy Information-Granule-Based Fuzzy C -Means Algorithm for Clustering Time Series. IEEE Transactions on Cybernetics, 2023, 53, 7622-7634.	6.2	6
20	A Two-Stage Approach for Constructing Type-2 Information Granules. IEEE Transactions on Cybernetics, 2022, 52, 2214-2224.	6.2	5
21	A Generic Markov Decision Process Model and Reinforcement Learning Method for Scheduling Agile Earth Observation Satellites. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 1463-1474.	5.9	40
22	A Group-Based Distance Learning Method for Semisupervised Fuzzy Clustering. IEEE Transactions on Cybernetics, 2022, 52, 3083-3096.	6.2	9
23	Semisupervised Learning via Axiomatic Fuzzy Set Theory and SVM. IEEE Transactions on Cybernetics, 2022, 52, 4661-4674.	6.2	7
24	A Majority Rule-Based Measure for Atanassov-Type Intuitionistic Membership Grades in MCDM. IEEE Transactions on Fuzzy Systems, 2022, 30, 121-132.	6.5	16
25	Integrating Continual Personalized Individual Semantics Learning in Consensus Reaching in Linguistic Group Decision Making. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 1525-1536.	5.9	59
26	Fuzzy-Rough Cognitive Networks: Theoretical Analysis and Simpler Models. IEEE Transactions on Cybernetics, 2022, 52, 2994-3005.	6.2	9
27	Hierarchical Granular Computing-Based Model and Its Reinforcement Structural Learning for Construction of Long-Term Prediction Intervals. IEEE Transactions on Cybernetics, 2022, 52, 666-676.	6.2	15
28	Granularity and Entropy of Intuitionistic Fuzzy Information and Their Applications. IEEE Transactions on Cybernetics, 2022, 52, 192-204.	6.2	43
29	Two-Stage Fuzzy Fusion Based-Convolution Neural Network for Dynamic Emotion Recognition. IEEE Transactions on Affective Computing, 2022, 13, 805-817.	5.7	19
30	Operating Performance Improvement Based on Prediction and Grade Assessment for Sintering Process. IEEE Transactions on Cybernetics, 2022, 52, 10529-10541.	6.2	6
31	Hierarchical Axiomatic Fuzzy Set Granulation for Financial Time Series Clustering. IEEE Transactions on Fuzzy Systems, 2022, 30, 755-766.	6.5	7
32	Construction and Evaluation of Information Granules: From the Perspective of Clustering. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 2024-2037.	5.9	9
33	Granular Multilabel Batch Active Learning With Pairwise Label Correlation. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 3079-3091.	5.9	14
34	High-Efficient Fuzzy Querying With HiveQL for Big Data Warehousing. IEEE Transactions on Fuzzy Systems, 2022, 30, 1823-1837.	6.5	4
35	Trend-Based Granular Representation of Time Series and its Application in Clustering. IEEE Transactions on Cybernetics, 2022, 52, 9101-9110.	6.2	5
36	Identification of Fuzzy Rule-Based Models With Collaborative Fuzzy Clustering. IEEE Transactions on Cybernetics, 2022, 52, 6406-6419.	6.2	14

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37	A Differential Evolution-Based Consistency Improvement Method in AHP With an Optimal Allocation of Information Granularity. IEEE Transactions on Cybernetics, 2022, 52, 6733-6744.	6.2	19
38	A Promotive Particle Swarm Optimizer With Double Hierarchical Structures. IEEE Transactions on Cybernetics, 2022, 52, 13308-13322.	6.2	5
39	Exponential Stability of Fractional-Order Switched Systems With Mode-Dependent Impulses and Its Application. IEEE Transactions on Cybernetics, 2022, 52, 11516-11525.	6.2	14
40	Oscillation-Bound Estimation of Perturbations Under Bandler's Kohout Subproduct. IEEE Transactions on Cybernetics, 2022, 52, 6269-6282.	6.2	28
41	SuperSketch: A Multi-Dimensional Reversible Data Structure for Super Host Identification. IEEE Transactions on Dependable and Secure Computing, 2022, 19, 2741-2754.	3.7	13
42	Building Trend Fuzzy Granulation-Based LSTM Recurrent Neural Network for Long-Term Time-Series Forecasting. IEEE Transactions on Fuzzy Systems, 2022, 30, 1599-1613.	6.5	34
43	Federated FCM: Clustering Under Privacy Requirements. IEEE Transactions on Fuzzy Systems, 2022, 30, 3384-3388.	6.5	11
44	A New Fuzzy Spiking Neural Network Based on Neuronal Contribution Degree. IEEE Transactions on Fuzzy Systems, 2022, 30, 2665-2677.	6.5	6
45	Abnormal Event Detection and Localization via Adversarial Event Prediction. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 3572-3586.	7.2	29
46	Granular Symmetric Implicational Method. IEEE Transactions on Emerging Topics in Computational Intelligence, 2022, 6, 710-723.	3.4	19
47	Flexible Task Scheduling in Data Relay Satellite Networks. IEEE Transactions on Aerospace and Electronic Systems, 2022, 58, 1055-1068.	2.6	15
48	Detection and Classification of Anomalies in Large Datasets on the Basis of Information Granules. IEEE Transactions on Fuzzy Systems, 2022, 30, 2850-2860.	6.5	14
49	Novel fusion strategies for continuous interval-valued q-rung orthopair fuzzy information: a case study in quality assessment of SmartWatch appearance design. International Journal of Machine Learning and Cybernetics, 2022, 13, 609-632.	2.3	24
50	Interactive multilevel programming approaches in neutrosophic environments. Journal of Ambient Intelligence and Humanized Computing, 2022, 13, 2143-2159.	3.3	3
51	Ensemble fuzzy radial basis function neural networks architecture driven with the aid of multi-optimization through clustering techniques and polynomial-based learning. Fuzzy Sets and Systems, 2022, 438, 62-83.	1.6	11
52	A Linguistic Information Granulation Model and Its Penalty Function-Based Co-Evolutionary PSO Solution Approach for Supporting GDM with Distributed Linguistic Preference Relations. Information Fusion, 2022, 77, 118-132.	11.7	11
53	Anomaly detection based on a granular Markov model. Expert Systems With Applications, 2022, 187, 115744.	4.4	23
54	Key Points Estimation and Point Instance Segmentation Approach for Lane Detection. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 8949-8958.	4.7	98

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55	A Hierarchical Approach to Interpretability of TS Rule-Based Models. IEEE Transactions on Fuzzy Systems, 2022, 30, 2861-2869.	6.5	4
56	Granular Fuzzy Rule-Based Modeling With Incomplete Data Representation. IEEE Transactions on Cybernetics, 2022, 52, 6420-6433.	6.2	16
57	A Voting-Mechanism-Based Ensemble Framework for Constraint Handling Techniques. IEEE Transactions on Evolutionary Computation, 2022, 26, 646-660.	7.5	25
58	Multimodal Infant Brain Segmentation by Fuzzy-Informed Deep Learning. IEEE Transactions on Fuzzy Systems, 2022, 30, 1088-1101.	6.5	24
59	A Novel Modeling Framework Based on Customized Kernel-Based Fuzzy C-Means Clustering in Iron Ore Sintering Process. IEEE/ASME Transactions on Mechatronics, 2022, 27, 950-961.	3.7	9
60	Hybrid Intelligent Control Based on Condition Identification for Combustion Process in Heating Furnace of Compact Strip Production. IEEE Transactions on Industrial Electronics, 2022, 69, 2790-2800.	5.2	15
61	Fuzzy Relational Matrix Factorization and Its Granular Characterization in Data Description. IEEE Transactions on Fuzzy Systems, 2022, 30, 794-804.	6.5	5
62	Robust Jointly Sparse Fuzzy Clustering With Neighborhood Structure Preservation. IEEE Transactions on Fuzzy Systems, 2022, 30, 1073-1087.	6.5	17
63	Weighted Kernel Fuzzy C-Means-Based Broad Learning Model for Time-Series Prediction of Carbon Efficiency in Iron Ore Sintering Process. IEEE Transactions on Cybernetics, 2022, 52, 4751-4763.	6.2	7
64	LDNet: End-to-End Lane Marking Detection Approach Using a Dynamic Vision Sensor. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 9318-9334.	4.7	9
65	Analysis of Ranking Consistency in Linguistic Multiple Attribute Decision Making: The Roles of Granularity and Decision Rules. IEEE Transactions on Fuzzy Systems, 2022, 30, 2266-2278.	6.5	4
66	A Granular Approach to Interval Output Estimation for Rule-Based Fuzzy Models. IEEE Transactions on Cybernetics, 2022, 52, 7029-7038.	6.2	9
67	Disjunctive Fuzzy Neural Networks: A New Splitting-Based Approach to Designing a Tâ€S Fuzzy Model. IEEE Transactions on Fuzzy Systems, 2022, 30, 370-381.	6.5	13
68	Top-Down Granulation Modeling Based on the Principle of Justifiable Granularity. IEEE Transactions on Fuzzy Systems, 2022, 30, 701-713.	6.5	9
69	An Autonomous Path Planning Method for Unmanned Aerial Vehicle Based on a Tangent Intersection and Target Guidance Strategy. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 3061-3073.	4.7	32
70	Horizontal Federated Learning of Takagiâ€Sugeno Fuzzy Rule-Based Models. IEEE Transactions on Fuzzy Systems, 2022, 30, 3537-3547.	6.5	11
71	Kullbackâ€Leibler Divergence-Based Fuzzy <i>C</i> -Means Clustering Incorporating Morphological Reconstruction and Wavelet Frames for Image Segmentation. IEEE Transactions on Cybernetics, 2022, 52, 7612-7623.	6.2	10
72	Knowledge transfer in project-based organisations: A dynamic granular cognitive maps approach. Knowledge Management Research and Practice, 2022, 20, 233-250.	2.7	5

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73	Selection of data products: a hybrid AFSA-MABAC approach. International Journal of Machine Learning and Cybernetics, 2022, 13, 1079.	2.3	1
74	Integrating Variable Reduction Strategy With Evolutionary Algorithms for Solving Nonlinear Equations Systems. IEEE/CAA Journal of Automatica Sinica, 2022, 9, 75-89.	8.5	9
75	Ensemble Many-Objective Optimization Algorithm Based on Voting Mechanism. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 1716-1730.	5.9	44
76	Acquisition of Z -Number-Valued Clusters by Using a New Compound Function. IEEE Transactions on Fuzzy Systems, 2022, 30, 279-286.	6.5	4
77	Analysis of Acceptably Multiplicative Consistency and Consensus for Incomplete Interval-Valued Intuitionistic Fuzzy Preference Relations. IEEE Transactions on Fuzzy Systems, 2022, 30, 486-499.	6.5	15
78	Optimization of Granulationâ€“Degranulation Mechanism Through Neurocomputing. IEEE Transactions on Cybernetics, 2022, 52, 4126-4135.	6.2	1
79	Dynamically Generated Hierarchical Neural Networks Designed With the Aid of Multiple Support Vector Regressors and PNN Architecture With Probabilistic Selection. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 1385-1399.	7.2	4
80	Logic-Oriented Autoencoders and Granular Logic Autoencoders: Developing Interpretable Data Representation. IEEE Transactions on Fuzzy Systems, 2022, 30, 869-877.	6.5	11
81	Granular models as networks of associations of information granules: A development scheme via augmented principle of justifiable granularity. Applied Soft Computing Journal, 2022, 115, 108062.	4.1	5
82	Convolutional rule inference network based on belief rule-based system using an evidential reasoning approach. Knowledge-Based Systems, 2022, 237, 107713.	4.0	12
83	Information Granulation With Rectangular Information Granules and Its Application in Time-Series Similarity Measurement. IEEE Transactions on Fuzzy Systems, 2022, 30, 4069-4081.	6.5	3
84	License Plate Detection via Information Maximization. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 14908-14921.	4.7	7
85	ComGCN: Community-Driven Graph Convolutional Network for Link Prediction in Dynamic Networks. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 5481-5493.	5.9	19
86	A personalized individual semantics-based multi-attribute group decision making approach with flexible linguistic expression. Expert Systems With Applications, 2022, 192, 116392.	4.4	24
87	Hierarchically Reorganized Multi-Layer Fuzzy Neural Networks Architecture Driven With the Aid of Node Selection Strategies and Structural Network Optimization. IEEE Access, 2022, 10, 7772-7792.	2.6	1
88	Design of Iterative Fuzzy Radial Basis Function Neural Networks Based on Iterative Weighted Fuzzy C-Means Clustering and Weighted LSE Estimation. IEEE Transactions on Fuzzy Systems, 2022, 30, 4273-4285.	6.5	9
89	MAGDM Framework Based on Double Hierarchy Bipolar Hesitant Fuzzy Linguistic Information and Its Application to Optimal Selection of Talents. International Journal of Fuzzy Systems, 2022, 24, 1757-1779.	2.3	9
90	Air Pollution Monitoring System with Prediction Abilities Based on Smart Autonomous Sensors Equipped with ANNs with Novel Training Scheme. Remote Sensing, 2022, 14, 413.	1.8	3

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91	Design of Reinforced Fuzzy Model Driven to Feature Selection Through Univariable-Based Correlation and Multivariable-Based Determination Coefficient Analysis. IEEE Transactions on Fuzzy Systems, 2022, 30, 4224-4238.	6.5	4
92	Bottom-Up Mechanism and Improved Contract Net Protocol for Dynamic Task Planning of Heterogeneous Earth Observation Resources. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 6183-6196.	5.9	5
93	The Long-Term Prediction of Time Series: A Granular Computing-Based Design Approach. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 6326-6338.	5.9	10
94	Global structure-guided neighborhood preserving embedding for dimensionality reduction. International Journal of Machine Learning and Cybernetics, 2022, 13, 2013-2032.	2.3	2
95	Occupancy-based utility pattern mining in dynamic environments of intelligent systems. International Journal of Intelligent Systems, 2022, 37, 5477-5507.	3.3	10
96	Solving Multiobjective Fuzzy Job-Shop Scheduling Problem by a Hybrid Adaptive Differential Evolution Algorithm. IEEE Transactions on Industrial Informatics, 2022, 18, 8519-8528.	7.2	128
97	On Fractional Tikhonov Regularization: Application to the Adaptive Network-Based Fuzzy Inference System for Regression Problems. IEEE Transactions on Fuzzy Systems, 2022, 30, 4717-4727.	6.5	13
98	A new effective approximate multiplication operation on LR fuzzy numbers and its application. Soft Computing, 2022, 26, 4103-4113.	2.1	4
99	The Sequence of Neutrosophic Soft Sets and a Decision-Making Problem in Medical Diagnosis. International Journal of Fuzzy Systems, 2022, 24, 2036-2053.	2.3	6
100	Data-driven method to learning personalized individual semantics to support linguistic multi-attribute decision making. Omega, 2022, 111, 102642.	3.6	64
101	Real-time dynamic prediction model of carbon efficiency with working condition identification in sintering process. Journal of Process Control, 2022, 111, 97-105.	1.7	10
102	Weak multi-label learning with missing labels via instance granular discrimination. Information Sciences, 2022, 594, 200-216.	4.0	11
103	Design Gaussian information granule based on the principle of justifiable granularity: A multi-dimensional perspective. Expert Systems With Applications, 2022, 197, 116763.	4.4	6
104	Fractional-order differentiation based sparse representation for multi-focus image fusion. Multimedia Tools and Applications, 2022, 81, 4387-4411.	2.6	5
105	The Trend-Fuzzy-Granulation-Based Adaptive Fuzzy Cognitive Map for Long-Term Time Series Forecasting. IEEE Transactions on Fuzzy Systems, 2022, 30, 5166-5180.	6.5	16
106	INFORMATION DIMENSION OF GALTON BOARD. Fractals, 2022, 30, .	1.8	10
107	Generalized Divergence-based Decision Making Method with an Application to Pattern Classification. IEEE Transactions on Knowledge and Data Engineering, 2022, , 1-1.	4.0	88
108	Evaluating Quality of Models via Prediction Information Granules. IEEE Transactions on Fuzzy Systems, 2022, 30, 5551-5556.	6.5	3

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109	Socially aware fuzzy vehicle routing problem: A topic modeling based approach for driver well-being. Expert Systems With Applications, 2022, 205, 117655.	4.4	7
110	Robust Multi-Label Classification with Enhanced Global and Local Label Correlation. Mathematics, 2022, 10, 1871.	1.1	1
111	ARIMA Feature-Based Approach to Time Series Classification. Lecture Notes in Computer Science, 2022, , 192-199.	1.0	1
112	Design of fuzzy rule-based models with fuzzy relational factorization. Expert Systems With Applications, 2022, 206, 117904.	4.4	6
113	Robotic Arm Trajectory Generation Based on Emotion and Kinematic Feature. , 2022, , .		1
114	An Overview and Experimental Study of Learning-Based Optimization Algorithms for the Vehicle Routing Problem. IEEE/CAA Journal of Automatica Sinica, 2022, 9, 1115-1138.	8.5	32
115	Uncertainty-Aware Online Scheduling for Real-Time Workflows in Cloud Service Environment. IEEE Transactions on Services Computing, 2021, 14, 1167-1178.	3.2	101
116	Rule-Based Modeling With DBSCAN-Based Information Granules. IEEE Transactions on Cybernetics, 2021, 51, 3653-3663.	6.2	29
117	Aggregation of Order-2 Fuzzy Sets. IEEE Transactions on Fuzzy Systems, 2021, 29, 3570-3575.	6.5	5
118	Design of Reinforced Fuzzy Radial Basis Function Neural Network Classifier Driven With the Aid of Iterative Learning Techniques and Support Vector-Based Clustering. IEEE Transactions on Fuzzy Systems, 2021, 29, 2506-2520.	6.5	11
119	Granular Description With Multigranularity for Multidimensional Data: A Cone-Shaped Fuzzy Set-Based Method. IEEE Transactions on Fuzzy Systems, 2021, 29, 1786-1801.	6.5	11
120	Residual-Sparse Fuzzy C -Means Clustering Incorporating Morphological Reconstruction and Wavelet Frame. IEEE Transactions on Fuzzy Systems, 2021, 29, 3910-3924.	6.5	17
121	G-Image Segmentation: Similarity-Preserving Fuzzy C -Means With Spatial Information Constraint in Wavelet Space. IEEE Transactions on Fuzzy Systems, 2021, 29, 3887-3898.	6.5	20
122	Design of Reinforced Hybrid Fuzzy Rule-Based Neural Networks Driven to Inhomogeneous Neurons and Tournament Selection. IEEE Transactions on Fuzzy Systems, 2021, 29, 3293-3307.	6.5	4
123	A Comparative Study Between Analytic Hierarchy Process and Its Fuzzy Variants: A Perspective Based on Two Linguistic Models. IEEE Transactions on Fuzzy Systems, 2021, 29, 3270-3279.	6.5	16
124	Identification of Fuzzy Rule-Based Models With Output Space Knowledge Guidance. IEEE Transactions on Fuzzy Systems, 2021, 29, 3504-3518.	6.5	4
125	Probabilistic Linguistic Term Set With Interval Uncertainty. IEEE Transactions on Fuzzy Systems, 2021, 29, 3532-3545.	6.5	17
126	Design of Interval Type-2 Information Granules Based on the Principle of Justifiable Granularity. IEEE Transactions on Fuzzy Systems, 2021, 29, 3456-3469.	6.5	11

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127	A Development of Hierarchically Structured Granular Models Realized Through Allocation of Information Granularity. IEEE Transactions on Fuzzy Systems, 2021, 29, 3845-3858.	6.5	8
128	A Dynamic Adaptive Subgroup-to-Subgroup Compatibility-Based Conflict Detection and Resolution Model for Multicriteria Large-Scale Group Decision Making. IEEE Transactions on Cybernetics, 2021, 51, 4784-4795.	6.2	48
129	Information Granulation-Based Fuzzy Clustering of Time Series. IEEE Transactions on Cybernetics, 2021, 51, 6253-6261.	6.2	21
130	Sparse Regularization-Based Fuzzy <i>c</i> -Means Clustering Incorporating Morphological Grayscale Reconstruction and Wavelet Frames. IEEE Transactions on Fuzzy Systems, 2021, 29, 1826-1840.	6.5	26
131	Maximum Fuzzy Consensus Feedback Mechanism With Minimum Cost and Private Interest in Group Decision-Making. IEEE Transactions on Fuzzy Systems, 2021, 29, 2689-2700.	6.5	28
132	Consistency- and Consensus-Based Group Decision-Making Method With Incomplete Probabilistic Linguistic Preference Relations. IEEE Transactions on Fuzzy Systems, 2021, 29, 2565-2579.	6.5	73
133	Optimal Interaction Priority Calculation From Hesitant Fuzzy Preference Relations Based on the Monte Carlo Simulation Method for the Acceptable Consistency and Consensus. IEEE Transactions on Cybernetics, 2021, 51, 5871-5882.	6.2	12
134	Two-Echelon Routing Problem for Parcel Delivery by Cooperated Truck and Drone. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 7450-7465.	5.9	59
135	Designing Distributed Fuzzy Rule-Based Models. IEEE Transactions on Fuzzy Systems, 2021, 29, 2047-2053.	6.5	16
136	Group Decision Making Based on Flexibility Degree of Fuzzy Numbers Under a Confidence Level. IEEE Transactions on Fuzzy Systems, 2021, 29, 1640-1653.	6.5	6
137	Granular Aggregation of Fuzzy Rule-Based Models in Distributed Data Environment. IEEE Transactions on Fuzzy Systems, 2021, 29, 1297-1310.	6.5	10
138	Optimizing the prototypes with a novel data weighting algorithm for enhancing the classification performance of fuzzy clustering. Fuzzy Sets and Systems, 2021, 413, 29-41.	1.6	9
139	Typical Characteristic-Based Type-2 Fuzzy C-Means Algorithm. IEEE Transactions on Fuzzy Systems, 2021, 29, 1173-1187.	6.5	8
140	Linguistic Distribution and Priority-Based Approximation to Linguistic Preference Relations With Flexible Linguistic Expressions in Decision Making. IEEE Transactions on Cybernetics, 2021, 51, 649-659.	6.2	45
141	Agile Earth Observation Satellite Scheduling Over 20 Years: Formulations, Methods, and Future Directions. IEEE Systems Journal, 2021, 15, 3881-3892.	2.9	70
142	Multigranulation Supertrust Model for Attribute Reduction. IEEE Transactions on Fuzzy Systems, 2021, 29, 1395-1408.	6.5	45
143	Sentiment Analysis for Driver Selection in Fuzzy Capacitated Vehicle Routing Problem With Simultaneous Pick-Up and Drop in Shared Transportation. IEEE Transactions on Fuzzy Systems, 2021, 29, 1198-1211.	6.5	5
144	Granular Description of Data Structures: A Two-Phase Design. IEEE Transactions on Cybernetics, 2021, 51, 1902-1912.	6.2	24

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145	A Development of Granular Input Space in System Modeling. IEEE Transactions on Cybernetics, 2021, 51, 1639-1650.	6.2	25
146	Granular Prediction and Dynamic Scheduling Based on Adaptive Dynamic Programming for the Blast Furnace Gas System. IEEE Transactions on Cybernetics, 2021, 51, 2201-2214.	6.2	23
147	Granular Fuzzy Modeling Guided Through the Synergy of Granulating Output Space and Clustering Input Subspaces. IEEE Transactions on Cybernetics, 2021, 51, 2625-2638.	6.2	11
148	SFCM: A Fuzzy Clustering Algorithm of Extracting the Shape Information of Data. IEEE Transactions on Fuzzy Systems, 2021, 29, 75-89.	6.5	27
149	Prediction Intervals for Granular Data Streams Based on Evolving Type-2 Fuzzy Granular Neural Network Dynamic Ensemble. IEEE Transactions on Fuzzy Systems, 2021, 29, 874-888.	6.5	17
150	Dense crowd counting based on adaptive scene division. International Journal of Machine Learning and Cybernetics, 2021, 12, 931-942.	2.3	7
151	The Learning of Fuzzy Cognitive Maps With Noisy Data: A Rapid and Robust Learning Method With Maximum Entropy. IEEE Transactions on Cybernetics, 2021, 51, 2080-2092.	6.2	17
152	Solving Many-Objective Optimization Problems via Multistage Evolutionary Search. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 3552-3564.	5.9	32
153	Design of Fuzzy Ensemble Architecture Realized With the Aid of FCM-Based Fuzzy Partition and NN With Weighted LSE Estimation. IEEE Transactions on Fuzzy Systems, 2021, 29, 569-583.	6.5	3
154	Systems Science and Engineering Research in the Context of Systems, Man, and Cybernetics: Recollection, Trends, and Future Directions. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 5-21.	5.9	14
155	Methods for solving LR-bipolar fuzzy linear systems. Soft Computing, 2021, 25, 85-108.	2.1	24
156	An integrated neural network with nonlinear output structure for interval-valued data. Journal of Intelligent and Fuzzy Systems, 2021, 40, 673-683.	0.8	5
157	Fuzzy Analytic Hierarchy Process in a Graphical Approach. Group Decision and Negotiation, 2021, 30, 463-481.	2.0	11
158	Granular Computing: Fundamentals and System Modeling. Studies in Systems, Decision and Control, 2021, , 167-192.	0.8	2
159	Intuitionistic Entropy-Induced Cooperative Symmetric Implicational Inference. Communications in Computer and Information Science, 2021, , 142-154.	0.4	0
160	Multi-Swarm Optimization for Extracting Multiple-Choice Tests From Question Banks. IEEE Access, 2021, 9, 32131-32148.	2.6	2
161	A Compensatory Fuzzy Logic Model in Technical Trading. Axioms, 2021, 10, 36.	0.9	2
162	Constrained tolerance rough set in incomplete information systems. CAAI Transactions on Intelligence Technology, 2021, 6, 440-449.	3.4	1

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