

# 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.

700  
papers

18,065  
citations

61  
h-index

115  
g-index

812  
ext. papers

22,150  
ext. citations

5.7  
avg, IF

7.71  
L-index

#	Paper	IF	Citations
700	Hierarchically Reorganized Multi-Layer Fuzzy Neural Networks Architecture Driven With the Aid of Node Selection Strategies and Structural Network Optimization. <i>IEEE Access</i> , <b>2022</b> , 10, 7772-7792	3.5	1
699	Design of Iterative Fuzzy Radial Basis Function Neural Networks Based on Iterative Weighted Fuzzy C-Means Clustering and Weighted LSE Estimation. <i>IEEE Transactions on Fuzzy Systems</i> , <b>2022</b> , 1-1	8.3	2
698	Air Pollution Monitoring System with Prediction Abilities Based on Smart Autonomous Sensors Equipped with ANNs with Novel Training Scheme. <i>Remote Sensing</i> , <b>2022</b> , 14, 413	5	1
697	Consensus Reaching Based on Social Influence Evolution in Group Decision Making.. <i>IEEE Transactions on Cybernetics</i> , <b>2022</b> , PP,	10.2	2
696	Design of Reinforced Fuzzy Model Driven to Feature Selection Through Univariable-based Correlation and Multivariable-based Determination Coefficient Analysis. <i>IEEE Transactions on Fuzzy Systems</i> , <b>2022</b> , 1-1	8.3	0
695	Bottom-Up Mechanism and Improved Contract Net Protocol for Dynamic Task Planning of Heterogeneous Earth Observation Resources. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , <b>2022</b> , 1-14	7.3	1
694	The Long-Term Prediction of Time Series: A Granular Computing-Based Design Approach. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , <b>2022</b> , 1-13	7.3	
693	A personalized individual semantics-based multi-attribute group decision making approach with flexible linguistic expression. <i>Expert Systems With Applications</i> , <b>2022</b> , 192, 116392	7.8	0
692	Selection of data products: a hybrid AFSA-MABAC approach. <i>International Journal of Machine Learning and Cybernetics</i> , <b>2022</b> , 13, 1079	3.8	
691	Integrating Variable Reduction Strategy With Evolutionary Algorithms for Solving Nonlinear Equations Systems. <i>IEEE/CAA Journal of Automatica Sinica</i> , <b>2022</b> , 9, 75-89	7	2
690	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> , <b>2022</b> , 77, 118-132	16.7	3
689	Anomaly detection based on a granular Markov model. <i>Expert Systems With Applications</i> , <b>2022</b> , 187, 1157-1174	7.4	1
688	Solving Multi-Objective Fuzzy Job-shop Scheduling Problem by a Hybrid Adaptive Differential Evolution Algorithm. <i>IEEE Transactions on Industrial Informatics</i> , <b>2022</b> , 1-1	11.9	7
687	On Fractional Tikhonov Regularization: Application to the Adaptive Network-Based Fuzzy Inference System for Regression Problems. <i>IEEE Transactions on Fuzzy Systems</i> , <b>2022</b> , 1-1	8.3	3
686	A new effective approximate multiplication operation on LR fuzzy numbers and its application. <i>Soft Computing</i> , <b>2022</b> , 26, 4103-4113	3.5	1
685	Data-driven method to learning personalized individual semantics to support linguistic multi-attribute decision making. <i>Omega</i> , <b>2022</b> , 102642	7.2	6
684	Real-time dynamic prediction model of carbon efficiency with working condition identification in sintering process. <i>Journal of Process Control</i> , <b>2022</b> , 111, 97-105	3.9	0

683	Weak multi-label learning with missing labels via instance granular discrimination. <i>Information Sciences</i> , <b>2022</b> , 594, 200-216	7.7	1
682	Design Gaussian information granule based on the principle of justifiable granularity: A multi-dimensional perspective. <i>Expert Systems With Applications</i> , <b>2022</b> , 197, 116763	7.8	0
681	Fractional-order differentiation based sparse representation for multi-focus image fusion. <i>Multimedia Tools and Applications</i> , <b>2022</b> , 81, 4387-4411	2.5	1
680	A Dynamic Scheduling Framework for Byproduct Gas System Combining Expert Knowledge and Production Plan. <i>IEEE Transactions on Automation Science and Engineering</i> , <b>2022</b> , 1-12	4.9	
679	The Trend-Fuzzy-Granulation-Based Adaptive Fuzzy Cognitive Map for Long-Term Time Series Forecasting. <i>IEEE Transactions on Fuzzy Systems</i> , <b>2022</b> , 1-1	8.3	1
678	Generalized Divergence-based Decision Making Method with an Application to Pattern Classification. <i>IEEE Transactions on Knowledge and Data Engineering</i> , <b>2022</b> , 1-1	4.2	10
677	Evaluating quality of models via prediction information granules. <i>IEEE Transactions on Fuzzy Systems</i> , <b>2022</b> , 1-1	8.3	
676	Socially Aware Fuzzy Vehicle Routing Problem: A Topic Modeling Based Approach for Driver Well-Being. <i>Expert Systems With Applications</i> , <b>2022</b> , 117655	7.8	2
675	Robust Multi-Label Classification with Enhanced Global and Local Label Correlation. <i>Mathematics</i> , <b>2022</b> , 10, 1871	2.3	0
674	ARIMA Feature-Based Approach to Time Series Classification. <i>Lecture Notes in Computer Science</i> , <b>2022</b> , 192-199	0.9	
673	Rule-Based Modeling With DBSCAN-Based Information Granules. <i>IEEE Transactions on Cybernetics</i> , <b>2021</b> , 51, 3653-3663	10.2	8
672	A Dynamic Adaptive Subgroup-to-Subgroup Compatibility-Based Conflict Detection and Resolution Model for Multicriteria Large-Scale Group Decision Making. <i>IEEE Transactions on Cybernetics</i> , <b>2021</b> , 51, 4784-4795	10.2	22
671	Remote Sensing Imagery Segmentation: A Hybrid Approach. <i>Remote Sensing</i> , <b>2021</b> , 13, 4604	5	1
670	Granular models as networks of associations of information granules: A development scheme via augmented principle of justifiable granularity. <i>Applied Soft Computing Journal</i> , <b>2021</b> , 108062	7.5	1
669	Convolutional rule inference network based on belief rule-based system using an evidential reasoning approach. <i>Knowledge-Based Systems</i> , <b>2021</b> , 237, 107713	7.3	1
668	PARTIAL BACKORDERING INVENTORY MODEL WITH LIMITED STORAGE CAPACITY UNDER ORDER-SIZE DEPENDENT TRADE CREDIT. <i>Technological and Economic Development of Economy</i> , <b>2021</b> , 1-32	4.7	0
667	Information Granulation with Rectangular Information Granules and Its Application in Time Series Similarity Measurement. <i>IEEE Transactions on Fuzzy Systems</i> , <b>2021</b> , 1-1	8.3	1
666	A Design of Granular Classifier Based on Granular Data Descriptors.. <i>IEEE Transactions on Cybernetics</i> , <b>2021</b> , PP,	10.2	1

665	. <i>IEEE Transactions on Intelligent Transportation Systems</i> , <b>2021</b> , 1-14	6.1	0
664	ComGCN: Community-Driven Graph Convolutional Network for Link Prediction in Dynamic Networks. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , <b>2021</b> , 1-13	7.3	1
663	Horizontal Federated Learning of Takagi-Sugeno Fuzzy Rule-based Models. <i>IEEE Transactions on Fuzzy Systems</i> , <b>2021</b> , 1-1	8.3	0
662	Kullback-Leibler Divergence-Based Fuzzy C-Means Clustering Incorporating Morphological Reconstruction and Wavelet Frames for Image Segmentation. <i>IEEE Transactions on Cybernetics</i> , <b>2021</b> , PP,	10.2	3
661	A population randomization-based multi-objective genetic algorithm for gesture adaptation in human-robot interaction. <i>Science China Information Sciences</i> , <b>2021</b> , 64, 1	3.4	1
660	Residual-driven Fuzzy C-Means Clustering for Image Segmentation. <i>IEEE/CAA Journal of Automatica Sinica</i> , <b>2021</b> , 8, 876-889	7	17
659	A Novel Resource Productivity Based on Granular Neural Network in Cloud Computing. <i>Complexity</i> , <b>2021</b> , 2021, 1-15	1.6	2
658	Transdisciplinary Scientific Strategies for Soft Computing Development: Towards an Era of Data and Business Analytics. <i>Axioms</i> , <b>2021</b> , 10, 93	1.6	1
657	A novel method based on probabilistic linguistic term sets and its application in ranking products through online ratings. <i>International Journal of Intelligent Systems</i> , <b>2021</b> , 36, 4632-4658	8.4	0
656	Granular computing: An augmented scheme of degranulation through a modified partition matrix. <i>Fuzzy Sets and Systems</i> , <b>2021</b> ,	3.7	1
655	Average utility driven data analytics on damped windows for intelligent systems with data streams. <i>International Journal of Intelligent Systems</i> , <b>2021</b> , 36, 5741-5769	8.4	1
654	Augmentation of the reconstruction performance of Fuzzy C-Means with an optimized fuzzification factor vector. <i>Knowledge-Based Systems</i> , <b>2021</b> , 222, 106951	7.3	3
653	Prediction model of burn-through point with fuzzy time series for iron ore sintering process. <i>Engineering Applications of Artificial Intelligence</i> , <b>2021</b> , 102, 104259	7.2	6
652	Ensemble fuzzy radial basis function neural networks architecture driven with the aid of multi-optimization through clustering techniques and polynomial-based learning. <i>Fuzzy Sets and Systems</i> , <b>2021</b> ,	3.7	4
651	Fuzzy C-Means-based Isolation Forest. <i>Applied Soft Computing Journal</i> , <b>2021</b> , 106, 107354	7.5	5
650	Group Decision Making Based on Flexibility Degree of Fuzzy Numbers Under a Confidence Level. <i>IEEE Transactions on Fuzzy Systems</i> , <b>2021</b> , 29, 1640-1653	8.3	2
649	. <i>IEEE Transactions on Fuzzy Systems</i> , <b>2021</b> , 29, 1297-1310	8.3	6
648	Optimizing the prototypes with a novel data weighting algorithm for enhancing the classification performance of fuzzy clustering. <i>Fuzzy Sets and Systems</i> , <b>2021</b> , 413, 29-41	3.7	5

647	Typical Characteristic-Based Type-2 Fuzzy C-Means Algorithm. <i>IEEE Transactions on Fuzzy Systems</i> , <b>2021</b> , 29, 1173-1187	8.3	4
646	Linguistic Distribution and Priority-Based Approximation to Linguistic Preference Relations With Flexible Linguistic Expressions in Decision Making. <i>IEEE Transactions on Cybernetics</i> , <b>2021</b> , 51, 649-659	10.2	18
645	Agile Earth Observation Satellite Scheduling Over 20 Years: Formulations, Methods, and Future Directions. <i>IEEE Systems Journal</i> , <b>2021</b> , 15, 3881-3892	4.3	24
644	. <i>IEEE Transactions on Fuzzy Systems</i> , <b>2021</b> , 29, 1395-1408	8.3	14
643	Sentiment Analysis for Driver Selection in Fuzzy Capacitated Vehicle Routing Problem With Simultaneous Pick-Up and Drop in Shared Transportation. <i>IEEE Transactions on Fuzzy Systems</i> , <b>2021</b> , 29, 1198-1211	8.3	2
642	Granular Description of Data Structures: A Two-Phase Design. <i>IEEE Transactions on Cybernetics</i> , <b>2021</b> , 51, 1902-1912	10.2	8
641	A Development of Granular Input Space in System Modeling. <i>IEEE Transactions on Cybernetics</i> , <b>2021</b> , 51, 1639-1650	10.2	11
640	Granular Prediction and Dynamic Scheduling Based on Adaptive Dynamic Programming for the Blast Furnace Gas System. <i>IEEE Transactions on Cybernetics</i> , <b>2021</b> , 51, 2201-2214	10.2	7
639	Granular Fuzzy Modeling Guided Through the Synergy of Granulating Output Space and Clustering Input Subspaces. <i>IEEE Transactions on Cybernetics</i> , <b>2021</b> , 51, 2625-2638	10.2	3
638	. <i>IEEE Transactions on Fuzzy Systems</i> , <b>2021</b> , 29, 75-89	8.3	9
637	Prediction Intervals for Granular Data Streams Based on Evolving Type-2 Fuzzy Granular Neural Network Dynamic Ensemble. <i>IEEE Transactions on Fuzzy Systems</i> , <b>2021</b> , 29, 874-888	8.3	7
636	Dense crowd counting based on adaptive scene division. <i>International Journal of Machine Learning and Cybernetics</i> , <b>2021</b> , 12, 931-942	3.8	4
635	The Learning of Fuzzy Cognitive Maps With Noisy Data: A Rapid and Robust Learning Method With Maximum Entropy. <i>IEEE Transactions on Cybernetics</i> , <b>2021</b> , 51, 2080-2092	10.2	6
634	Solving Many-Objective Optimization Problems via Multistage Evolutionary Search. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , <b>2021</b> , 51, 3552-3564	7.3	10
633	Design of Fuzzy Ensemble Architecture Realized With the Aid of FCM-Based Fuzzy Partition and NN With Weighted LSE Estimation. <i>IEEE Transactions on Fuzzy Systems</i> , <b>2021</b> , 29, 569-583	8.3	1
632	Hierarchical Axiomatic Fuzzy Set Granulation for Financial Time Series Clustering. <i>IEEE Transactions on Fuzzy Systems</i> , <b>2021</b> , 1-1	8.3	2
631	Construction and Evaluation of Information Granules: From the Perspective of Clustering. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , <b>2021</b> , 1-14	7.3	0
630	Granular Multilabel Batch Active Learning With Pairwise Label Correlation. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , <b>2021</b> , 1-13	7.3	3

629	High-Efficient Fuzzy Querying with HiveQL for Big Data Warehousing. <i>IEEE Transactions on Fuzzy Systems</i> , <b>2021</b> , 1-1	8.3	0
628	Trend-Based Granular Representation of Time Series and Its Application in Clustering. <i>IEEE Transactions on Cybernetics</i> , <b>2021</b> , PP,	10.2	1
627	Identification of Fuzzy Rule-Based Models With Collaborative Fuzzy Clustering. <i>IEEE Transactions on Cybernetics</i> , <b>2021</b> , PP,	10.2	3
626	. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , <b>2021</b> , 51, 5-21	7.3	5
625	Methods for solving LR-bipolar fuzzy linear systems. <i>Soft Computing</i> , <b>2021</b> , 25, 85-108	3.5	14
624	An integrated neural network with nonlinear output structure for interval-valued data. <i>Journal of Intelligent and Fuzzy Systems</i> , <b>2021</b> , 40, 673-683	1.6	3
623	Fuzzy Analytic Hierarchy Process in a Graphical Approach. <i>Group Decision and Negotiation</i> , <b>2021</b> , 30, 463-481	4.8	5
622	Exponential Stability of Fractional-Order Switched Systems With Mode-Dependent Impulses and Its Application. <i>IEEE Transactions on Cybernetics</i> , <b>2021</b> , PP,	10.2	3
621	Oscillation-Bound Estimation of Perturbations Under Bandler-Kohout Subproduct. <i>IEEE Transactions on Cybernetics</i> , <b>2021</b> , PP,	10.2	14
620	Granular Computing: Fundamentals and System Modeling. <i>Studies in Systems, Decision and Control</i> , <b>2021</b> , 167-192	0.8	0
619	SuperSketch: A Multi-Dimensional Reversible Data Structure for Super Host Identification. <i>IEEE Transactions on Dependable and Secure Computing</i> , <b>2021</b> , 1-1	3.9	4
618	Building trend fuzzy granulation based LSTM recurrent neural network for long-term time series forecasting. <i>IEEE Transactions on Fuzzy Systems</i> , <b>2021</b> , 1-1	8.3	4
617	Intuitionistic Entropy-Induced Cooperative Symmetric Implicational Inference. <i>Communications in Computer and Information Science</i> , <b>2021</b> , 142-154	0.3	
616	Federated FCM: Clustering Under Privacy Requirements. <i>IEEE Transactions on Fuzzy Systems</i> , <b>2021</b> , 1-1	8.3	0
615	A New Fuzzy Spiking Neural Network Based on Neuronal Contribution Degree. <i>IEEE Transactions on Fuzzy Systems</i> , <b>2021</b> , 1-1	8.3	1
614	Abnormal Event Detection and Localization via Adversarial Event Prediction. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , <b>2021</b> , PP,	10.3	11
613	Granular Symmetric Implicational Method. <i>IEEE Transactions on Emerging Topics in Computational Intelligence</i> , <b>2021</b> , 1-15	4.1	6
612	. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , <b>2021</b> , 1-1	3.7	2

611	. <i>IEEE Access</i> , <b>2021</b> , 9, 32131-32148	3.5	1
610	Detection and Classification of Anomalies in Large Data Sets on the Basis of Information Granules. <i>IEEE Transactions on Fuzzy Systems</i> , <b>2021</b> , 1-1	8.3	7
609	A Compensatory Fuzzy Logic Model in Technical Trading. <i>Axioms</i> , <b>2021</b> , 10, 36	1.6	1
608	A new method for deriving priority from dual hesitant fuzzy preference relations. <i>International Journal of Intelligent Systems</i> , <b>2021</b> , 36, 6613-6644	8.4	1
607	Improving distributed anti-flocking algorithm for dynamic coverage of mobile wireless networks with obstacle avoidance. <i>Knowledge-Based Systems</i> , <b>2021</b> , 225, 107133	7.3	5
606	An improved numerical iterative method for solving nonlinear fuzzy Fredholm integral equations via Picard method and generalized quadrature rule. <i>Computational and Applied Mathematics</i> , <b>2021</b> , 40, 1	2.4	1
605	An Iterative Two-Phase Optimization Method Based on Divide and Conquer Framework for Integrated Scheduling of Multiple UAVs. <i>IEEE Transactions on Intelligent Transportation Systems</i> , <b>2021</b> , 22, 5926-5938	6.1	9
604	Guest Editorial Evolutionary Computation Meets Deep Learning. <i>IEEE Transactions on Evolutionary Computation</i> , <b>2021</b> , 25, 810-814	15.6	
603	Service Optimization of Production Process of Polyester Fiber Based on Immune and Endocrine Regulation Algorithm. <i>IEEE Transactions on Industrial Informatics</i> , <b>2021</b> , 17, 6776-6785	11.9	2
602	Designing of higher order information granules through clustering heterogeneous granular data. <i>Applied Soft Computing Journal</i> , <b>2021</b> , 112, 107820	7.5	1
601	Building fuzzy relationships between compressive strength and 3D microstructural image features for cement hydration using Gaussian mixture model-based polynomial radial basis function neural networks. <i>Applied Soft Computing Journal</i> , <b>2021</b> , 112, 107766	7.5	2
600	A randomization mechanism for realizing granular models in distributed system modeling. <i>Knowledge-Based Systems</i> , <b>2021</b> , 232, 107376	7.3	1
599	Spatiotemporal Prediction for Energy System of Steel Industry by Generalized Tensor Granularity Based Evolving Type-2 Fuzzy Neural Network. <i>IEEE Transactions on Industrial Informatics</i> , <b>2021</b> , 17, 7933-7945	11.9	2
598	. <i>IEEE Transactions on Intelligent Transportation Systems</i> , <b>2021</b> , 1-10	6.1	28
597	A Hierarchical Approach to Interpretability of TS Rule-Based Models. <i>IEEE Transactions on Fuzzy Systems</i> , <b>2021</b> , 1-1	8.3	
596	Pre-Large based Utility-Oriented Data Analytics for Transaction Modifications in Internet of Things. <i>IEEE Internet of Things Journal</i> , <b>2021</b> , 1-1	10.7	0
595	Granular Fuzzy Rule-Based Modeling With Incomplete Data Representation. <i>IEEE Transactions on Cybernetics</i> , <b>2021</b> , PP,	10.2	3
594	A Voting-Mechanism based Ensemble Framework for Constraint Handling Techniques. <i>IEEE Transactions on Evolutionary Computation</i> , <b>2021</b> , 1-1	15.6	4

593	. <i>IEEE Transactions on Fuzzy Systems</i> , <b>2021</b> , 1-1	8.3	7
592	A Novel Modeling Framework Based on Customized Kernel-based Fuzzy C-Means Clustering in Iron Ore Sintering Process. <i>IEEE/ASME Transactions on Mechatronics</i> , <b>2021</b> , 1-1	5.5	1
591	Intelligent Control of Sintering Process. <i>Studies in Systems, Decision and Control</i> , <b>2021</b> , 101-141	0.8	
590	Hybrid Intelligent Control Based on Condition Identification for Combustion Process in Heating Furnace of Compact Strip Production. <i>IEEE Transactions on Industrial Electronics</i> , <b>2021</b> , 1-1	8.9	2
589	Fuzzy Relational Matrix Factorization and Its Granular Characterization in Data Description. <i>IEEE Transactions on Fuzzy Systems</i> , <b>2021</b> , 1-1	8.3	0
588	Robust Jointly Sparse Fuzzy Clustering with Neighborhood Structure Preservation. <i>IEEE Transactions on Fuzzy Systems</i> , <b>2021</b> , 1-1	8.3	2
587	LDNet: End-to-End Lane Marking Detection Approach Using a Dynamic Vision Sensor. <i>IEEE Transactions on Intelligent Transportation Systems</i> , <b>2021</b> , 1-17	6.1	1
586	Measuring Weak Consistency and Weak Transitivity of Pairwise Comparison Matrices. <i>IEEE Transactions on Cybernetics</i> , <b>2021</b> , PP,	10.2	1
585	Analysis of Ranking Consistency in Linguistic Multiple Attribute Decision Making: The Roles of Granularity and Decision Rules. <i>IEEE Transactions on Fuzzy Systems</i> , <b>2021</b> , 1-1	8.3	1
584	An intelligent decision-making strategy based on the forecast of abnormal operating mode for iron ore sintering process. <i>Journal of Process Control</i> , <b>2020</b> , 96, 57-66	3.9	4
583	. <i>IEEE Transactions on Fuzzy Systems</i> , <b>2020</b> , 1-1	8.3	1
582	Fuzzy-Rough Cognitive Networks: Theoretical Analysis and Simpler Models. <i>IEEE Transactions on Cybernetics</i> , <b>2020</b> , PP,	10.2	2
581	Probabilistic Linguistic Term Set with Interval Uncertainty. <i>IEEE Transactions on Fuzzy Systems</i> , <b>2020</b> , 1-1	8.3	5
580	Design of Interval Type-2 Information Granules Based on the Principle of Justifiable Granularity. <i>IEEE Transactions on Fuzzy Systems</i> , <b>2020</b> , 1-1	8.3	3
579	A Development of Hierarchically Structured Granular Models Realized through Allocation of Information Granularity. <i>IEEE Transactions on Fuzzy Systems</i> , <b>2020</b> , 1-1	8.3	2
578	Operating Mode Recognition Based on Fluctuation Interval Prediction for Iron Ore Sintering Process. <i>IEEE/ASME Transactions on Mechatronics</i> , <b>2020</b> , 25, 2297-2308	5.5	7
577	A design of information granule-based under-sampling method in imbalanced data classification. <i>Soft Computing</i> , <b>2020</b> , 24, 17333-17347	3.5	9
576	. <i>IEEE Transactions on Fuzzy Systems</i> , <b>2020</b> , 1-1	8.3	17



575	Hierarchical Granular Computing-Based Model and Its Reinforcement Structural Learning for Construction of Long-Term Prediction Intervals. <i>IEEE Transactions on Cybernetics</i> , <b>2020</b> , PP,	10.2	7
574	Structural optimization of fuzzy rule-based models: Towards efficient complexity management. <i>Expert Systems With Applications</i> , <b>2020</b> , 152, 113362	7.8	4
573	1,000,000 cases of COVID-19 outside of China: The date predicted by a simple heuristic. <i>Global Epidemiology</i> , <b>2020</b> , 2, 100023	2.3	21
572	. <i>IEEE Transactions on Industrial Informatics</i> , <b>2020</b> , 16, 7602-7612	11.9	2
571	Information Granulation-Based Fuzzy Clustering of Time Series. <i>IEEE Transactions on Cybernetics</i> , <b>2020</b> ,	10.2	5
570	Solving Fuzzy Job-Shop Scheduling Problem Using DE Algorithm Improved by a Selection Mechanism. <i>IEEE Transactions on Fuzzy Systems</i> , <b>2020</b> , 28, 3265-3275	8.3	61
569	Sparse Regularization-Based Fuzzy C-Means Clustering Incorporating Morphological Grayscale Reconstruction and Wavelet Frames. <i>IEEE Transactions on Fuzzy Systems</i> , <b>2020</b> , 1-1	8.3	14
568	Maximum Fuzzy Consensus Feedback Mechanism With Minimum Cost and Private Interest in Group Decision-Making. <i>IEEE Transactions on Fuzzy Systems</i> , <b>2020</b> , 1-1	8.3	4
567	Consistency- and Consensus-Based Group Decision-Making Method With Incomplete Probabilistic Linguistic Preference Relations. <i>IEEE Transactions on Fuzzy Systems</i> , <b>2020</b> , 1-1	8.3	13
566	Optimal Interaction Priority Calculation From Hesitant Fuzzy Preference Relations Based on the Monte Carlo Simulation Method for the Acceptable Consistency and Consensus. <i>IEEE Transactions on Cybernetics</i> , <b>2020</b> , PP,	10.2	5
565	A Weighted Fidelity and Regularization-Based Method for Mixed or Unknown Noise Removal from Images on Graphs. <i>IEEE Transactions on Image Processing</i> , <b>2020</b> ,	8.7	16
564	Granularity and Entropy of Intuitionistic Fuzzy Information and Their Applications. <i>IEEE Transactions on Cybernetics</i> , <b>2020</b> ,	10.2	10
563	Measuring consistency of interval-valued preference relations: comments and comparison. <i>Operational Research</i> , <b>2020</b> , 1	1.6	3
562	On weak consistency of interval additive reciprocal matrices. <i>Fuzzy Optimization and Decision Making</i> , <b>2020</b> , 19, 153-175	5.1	5
561	Decision making with a sequential modeling of pairwise comparison process. <i>Knowledge-Based Systems</i> , <b>2020</b> , 195, 105642	7.3	10
560	Two-Echelon Routing Problem for Parcel Delivery by Cooperated Truck and Drone. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , <b>2020</b> , 1-16	7.3	11
559	Clustering method for production of Z-number based if-then rules. <i>Information Sciences</i> , <b>2020</b> , 520, 155-176	11.7	12
558	Quintuple Implication Principle on interval-valued intuitionistic fuzzy sets. <i>Soft Computing</i> , <b>2020</b> , 24, 12091-12109	3.5	2

557	Rule-based granular classification: A hypersphere information granule-based method. <i>Knowledge-Based Systems</i> , <b>2020</b> , 194, 105500	7.3	7
556	Two-stage Fuzzy Fusion based-Convolution Neural Network for Dynamic Emotion Recognition. <i>IEEE Transactions on Affective Computing</i> , <b>2020</b> , 1-1	5.7	7
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