Francisco Herrera

List of Publications by Year
in descending order

815 papers	89,419 citations	315 138 h-index	449 273 g-index
851 all docs	851 docs citations	851 times ranked	35451 citing authors

#	Article	IF	Citations
1	Handling Imbalanced Classification Problems With Support Vector Machines via Evolutionary Bilevel Optimization. IEEE Transactions on Cybernetics, 2023, 53, 4735-4747.	6.2	5
2	A Trust Risk Dynamic Management Mechanism Based on Third-Party Monitoring for the Conflict-Eliminating Process of Social Network Group Decision Making. IEEE Transactions on Cybernetics, 2023, 53, 3399-3413.	6.2	10
3	Mixed Opinion Dynamics Based on DeGroot Model and Hegselmann–Krause Model in Social Networks. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2023, 53, 296-308.	5.9	22
4	Crowd Decision Making: Sparse Representation Guided by Sentiment Analysis for Leveraging the Wisdom of the Crowd. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2023, 53, 369-379.	5.9	7
5	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
6	Adaptive Multifactorial Evolutionary Optimization for Multitask Reinforcement Learning. IEEE Transactions on Evolutionary Computation, 2022, 26, 233-247.	7.5	17
7	A Practical Tutorial for Decision Tree Induction. ACM Computing Surveys, 2022, 54, 1-38.	16.1	11
8	A tutorial on the segmentation of metallographic images: Taxonomy, new MetalDAM dataset, deep learning-based ensemble model, experimental analysis and challenges. Information Fusion, 2022, 78, 232-253.	11.7	24
9	Democratic consensus reaching process for multi-person multi-criteria large scale decision making considering participants' individual attributes and concerns. Information Fusion, 2022, 77, 220-232.	11.7	40
10	A New Clustering Algorithm With Preference Adjustment Cost to Reduce the Cooperation Complexity in Large-Scale Group Decision Making. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 5271-5283.	5.9	13
11	Reducing Data Complexity Using Autoencoders With Class-Informed Loss Functions. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, 44, 9549-9560.	9.7	10
12	FW-SMOTE: A feature-weighted oversampling approach for imbalanced classification. Pattern Recognition, 2022, 124, 108511.	5.1	57
13	Human pose estimation for mitigating false negatives in weapon detection in video-surveillance. Neurocomputing, 2022, 489, 488-503.	3.5	26
14	A least square support vector machine approach based on bvRNA-GA for modeling photovoltaic systems. Applied Soft Computing Journal, 2022, 117, 108357.	4.1	3
15	Challenges and Opportunities in Integration of Human and Autonomous systems. Incose International Symposium, 2022, 32, 48-49.	0.2	0
16	Trust-Consensus Multiplex Networks by Combining Trust Social Network Analysis and Consensus Evolution Methods in Group Decision-Making. IEEE Transactions on Fuzzy Systems, 2022, 30, 4741-4753.	6.5	11
17	TimeSpec4LULC: a global multispectral time series database for training LULC mapping models with machine learning. Earth System Science Data, 2022, 14, 1377-1411.	3.7	3
18	Data-driven method to learning personalized individual semantics to support linguistic multi-attribute decision making. Omega, 2022, 111, 102642.	3.6	64

#	Article	IF	Citations
19	Dynamic defense against byzantine poisoning attacks in federated learning. Future Generation Computer Systems, 2022, 133, 1-9.	4.9	13
20	Course Recommendation based on Sequences: An Evolutionary Search of Emerging Sequential Patterns. Cognitive Computation, 2022, 14, 1474-1495.	3.6	5
21	Managing minority opinions in large-scale group decision making based on community detection and group polarization. Computers and Industrial Engineering, 2022, 170, 108337.	3.4	7
22	Probabilistic double hierarchy linguistic term set and its use in designing an improved VIKOR method: The application in smart healthcare. Journal of the Operational Research Society, 2021, 72, 2611-2630.	2.1	125
23	Linguistic Opinions Dynamics Based on Personalized Individual Semantics. IEEE Transactions on Fuzzy Systems, 2021, 29, 2453-2466.	6.5	27
24	Consensus Reaching and Strategic Manipulation in Group Decision Making With Trust Relationships. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 6304-6318.	5.9	128
25	Dynamic subgroup-quality-based consensus in managing consistency, nearness, and evenness quality indices for large-scale group decision making under hesitant environment. Journal of the Operational Research Society, 2021, 72, 865-878.	2.1	26
26	Consensus Model Handling Minority Opinions and Noncooperative Behaviors in Large-Scale Group Decision-Making Under Double Hierarchy Linguistic Preference Relations. IEEE Transactions on Cybernetics, 2021, 51, 283-296.	6.2	105
27	MonuMAI: Dataset, deep learning pipeline and citizen science based app for monumental heritage taxonomy and classification. Neurocomputing, 2021, 420, 266-280.	3.5	22
28	Distributed linguistic representations in decision making: Taxonomy, key elements and applications, and challenges in data science and explainable artificial intelligence. Information Fusion, 2021, 65, 165-178.	11.7	138
29	A tutorial on distance metric learning: Mathematical foundations, algorithms, experimental analysis, prospects and challenges. Neurocomputing, 2021, 425, 300-322.	3.5	61
30	Score function based on concentration degree for probabilistic linguistic term sets: An application to TOPSIS and VIKOR. Information Sciences, 2021, 551, 270-290.	4.0	126
31	Sentiment Analysis based Multi-Person Multi-criteria Decision Making methodology using natural language processing and deep learning for smarter decision aid. Case study of restaurant choice using TripAdvisor reviews. Information Fusion, 2021, 68, 22-36.	11.7	49
32	LUNAR: Cellular automata for drifting data streams. Information Sciences, 2021, 543, 467-487.	4.0	3
33	Lights and shadows in Evolutionary Deep Learning: Taxonomy, critical methodological analysis, cases of study, learned lessons, recommendations and challenges. Information Fusion, 2021, 67, 161-194.	11.7	21
34	Numerical Interval Opinion Dynamics in Social Networks: Stable State and Consensus. IEEE Transactions on Fuzzy Systems, 2021, 29, 584-598.	6.5	22
35	Balance Dynamic Clustering Analysis and Consensus Reaching Process With Consensus Evolution Networks in Large-Scale Group Decision Making. IEEE Transactions on Fuzzy Systems, 2021, 29, 357-371.	6.5	40
36	An Indexing Algorithm Based on Clustering of Minutia Cylinder Codes for Fast Latent Fingerprint Identification. IEEE Access, 2021, 9, 85488-85499.	2.6	3

#	Article	IF	Citations
37	Revisiting Fuzzy and Linguistic Decision Making: Scenarios and Challenges for Making Wiser Decisions in a Better Way. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 191-208.	5.9	132
38	Distance Metric Learning with Prototype Selection for Imbalanced Classification. Lecture Notes in Computer Science, 2021, , 391-402.	1.0	1
39	A Preliminary Analysis on Software Frameworks for the Development of Spiking Neural Networks. Lecture Notes in Computer Science, 2021, , 564-575.	1.0	2
40	BELIEF: A distance-based redundancy-proof feature selection method for Big Data. Information Sciences, 2021, 558, 124-139.	4.0	9
41	Ordering Artificial Intelligence Based Recommendations to Tackle the SDGs with a Decision-Making Model Based on Surveys. Sustainability, 2021, 13, 6038.	1.6	9
42	Revisiting data complexity metrics based on morphology for overlap and imbalance: snapshot, new overlap number of balls metrics and singular problems prospect. Knowledge and Information Systems, 2021, 63, 1961-1989.	2.1	10
43	Fuzzy k-nearest neighbors with monotonicity constraints: Moving towards the robustness of monotonic noise. Neurocomputing, 2021, 439, 106-121.	3.5	10
44	SOUL: Scala Oversampling and Undersampling Library for imbalance classification. SoftwareX, 2021, 15, 100767.	1.2	1
45	A consensus process based on regret theory with probabilistic linguistic term sets and its application in venture capital. Information Sciences, 2021, 562, 347-369.	4.0	65
46	Ordinal regression with explainable distance metric learning based on ordered sequences. Machine Learning, 2021, 110, 2729-2762.	3.4	6
47	Special Issue on Methods and Infrastructures for Data Mining at the Edge of Internet of Things. IEEE Internet of Things Journal, 2021, 8, 10220-10221.	5.5	4
48	A Tutorial On the design, experimentation and application of metaheuristic algorithms to real-World optimization problems. Swarm and Evolutionary Computation, 2021, 64, 100888.	4.5	154
49	AT-MFCGA: An Adaptive Transfer-guided Multifactorial Cellular Genetic Algorithm for Evolutionary Multitasking. Information Sciences, 2021, 570, 577-598.	4.0	25
50	CURIE: a cellular automaton for concept drift detection. Data Mining and Knowledge Discovery, 2021, 35, 2655-2678.	2.4	4
51	Anomaly detection in predictive maintenance: A new evaluation framework for temporal unsupervised anomaly detection algorithms. Neurocomputing, 2021, 462, 440-452.	3.5	18
52	An efficient consensus reaching framework for large-scale social network group decision making and its application in urban resettlement. Information Sciences, 2021, 575, 499-527.	4.0	58
53	Learning interpretable multi-class models by means of hierarchical decomposition: Threshold Control for Nested Dichotomies. Neurocomputing, 2021, 463, 514-524.	3.5	0
54	An interval type-2 fuzzy Kano-prospect-TOPSIS based QFD model: Application to Chinese e-commerce service design. Applied Soft Computing Journal, 2021, 111, 107665.	4.1	30

#	Article	IF	Citations
55	Multiple instance classification: Bag noise filtering for negative instance noise cleaning. Information Sciences, 2021, 579, 388-400.	4.0	5
56	ADOPS: Aspect Discovery OPinion Summarisation Methodology based on deep learning and subgroup discovery for generating explainable opinion summaries. Knowledge-Based Systems, 2021, 231, 107455.	4.0	8
57	A prescription of methodological guidelines for comparing bio-inspired optimization algorithms. Swarm and Evolutionary Computation, 2021, 67, 100973.	4.5	73
58	CI-Dataset and DetDSCI Methodology for Detecting Too Small and Too Large Critical Infrastructures in Satellite Images: Airports and Electrical Substations as Case Study. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 12149-12162.	2.3	3
59	More is not Always Better: Insights from a Massive Comparison of Meta-heuristic Algorithms over Real-Parameter Optimization Problems. , 2021, , .		3
60	What do people think about this monument? Understanding negative reviews via deep learning, clustering and descriptive rules. Journal of Ambient Intelligence and Humanized Computing, 2020, 11, 39-52.	3.3	21
61	Interval MULTIMOORA Method Integrating Interval Borda Rule and Interval Best–Worst-Method-Based Weighting Model: Case Study on Hybrid Vehicle Engine Selection. IEEE Transactions on Cybernetics, 2020, 50, 1157-1169.	6.2	61
62	An integrated method for cognitive complex multiple experts multiple criteria decision making based on ELECTRE III with weighted Borda rule. Omega, 2020, 93, 102052.	3.6	56
63	BreakHis based breast cancer automatic diagnosis using deep learning: Taxonomy, survey and insights. Neurocomputing, 2020, 375, 9-24.	3.5	95
64	otsad: A package for online time-series anomaly detectors. Neurocomputing, 2020, 374, 49-53.	3.5	9
65	Overview of Hesitant Linguistic Preference Relations for Representing Cognitive Complex Information: Where We Stand and What Is Next. Cognitive Computation, 2020, 12, 25-48.	3.6	12
66	Fast and Scalable Approaches to Accelerate the Fuzzy k-Nearest Neighbors Classifier for Big Data. IEEE Transactions on Fuzzy Systems, 2020, 28, 874-886.	6.5	31
67	Hesitancy degree-based correlation measures for hesitant fuzzy linguistic term sets and their applications in multiple criteria decision making. Information Sciences, 2020, 508, 275-292.	4.0	63
68	Modeling agent‐based consumers decision‐making with 2‐tuple fuzzy linguistic perceptions. International Journal of Intelligent Systems, 2020, 35, 283-299.	3.3	18
69	The minimum cost consensus model considering the implicit trust of opinions similarities in social network group decision‐making. International Journal of Intelligent Systems, 2020, 35, 470-493.	3.3	33
70	Explainable Artificial Intelligence (XAI): Concepts, taxonomies, opportunities and challenges toward responsible AI. Information Fusion, 2020, 58, 82-115.	11.7	3,332
71	Predicting literature's early impact with sentiment analysis in Twitter. Knowledge-Based Systems, 2020, 192, 105383.	4.0	46
72	Preprocessing methodology for time series: An industrial world application case study. Information Sciences, 2020, 514, 385-401.	4.0	16

#	Article	IF	Citations
73	Deep learning in video multi-object tracking: A survey. Neurocomputing, 2020, 381, 61-88.	3.5	394
74	HFER: Promoting Explainability in Fuzzy Systems via Hierarchical Fuzzy Exception Rules. , 2020, , .		8
75	Simultaneously Evolving Deep Reinforcement Learning Models using Multifactorial optimization. , 2020, , .		8
76	Multifactorial Cellular Genetic Algorithm (MFCGA): Algorithmic Design, Performance Comparison and Genetic Transferability Analysis. , 2020, , .		9
77	Incremental learning model inspired in Rehearsal for deep convolutional networks. Knowledge-Based Systems, 2020, 208, 106460.	4.0	11
78	Measuring volatility based on ordered weighted average operators: Agricultural products prices case of use. Fuzzy Sets and Systems, 2020, , .	1.6	8
79	A novel methodology to classify test cases using natural language processing and imbalanced learning. Engineering Applications of Artificial Intelligence, 2020, 95, 103878.	4.3	23
80	Asynchronous Processing for Latent Fingerprint Identification on Heterogeneous CPU-GPU Systems. IEEE Access, 2020, 8, 124236-124253.	2.6	9
81	Federated Learning and Differential Privacy: Software tools analysis, the Sherpa.ai FL framework and methodological guidelines for preserving data privacy. Information Fusion, 2020, 64, 270-292.	11.7	69
82	A practical tutorial on bagging and boosting based ensembles for machine learning: Algorithms, software tools, performance study, practical perspectives and opportunities. Information Fusion, 2020, 64, 205-237.	11.7	223
83	Revisiting crowd behaviour analysis through deep learning: Taxonomy, anomaly detection, crowd emotions, datasets, opportunities and prospects. Information Fusion, 2020, 64, 318-335.	11.7	43
84	2-tuple fuzzy linguistic perceptions and probabilistic awareness-based heuristics for modeling consumer purchase behaviors. , 2020, , .		0
85	Tweet Coupling: a social media methodology for clustering scientific publications. Scientometrics, 2020, 124, 973-991.	1.6	15
86	Artificial intelligence within the interplay between natural and artificial computation: Advances in data science, trends and applications. Neurocomputing, 2020, 410, 237-270.	3.5	121
87	Redundancy and Complexity Metrics for Big Data Classification: Towards Smart Data. IEEE Access, 2020, 8, 87918-87928.	2.6	20
88	Irony detection in Twitter with imbalanced class distributions. Journal of Intelligent and Fuzzy Systems, 2020, 39, 2147-2163.	0.8	5
89	Big Data Preprocessing. , 2020, , .		42
90	A Dynamic Credit Index System for TSMEs in China Using the Delphi and Analytic Hierarchy Process (AHP) Methods. Sustainability, 2020, 12, 1715.	1.6	20

#	Article	IF	Citations
91	Linguistic group decision making: Axiomatic distance and minimum cost consensus. Information Sciences, 2020, 541, 242-258.	4.0	16
92	Comprehensive Taxonomies of Nature- and Bio-inspired Optimization: Inspiration Versus Algorithmic Behavior, Critical Analysis Recommendations. Cognitive Computation, 2020, 12, 897-939.	3.6	125
93	Recent trends in the use of statistical tests for comparing swarm and evolutionary computing algorithms: Practical guidelines and a critical review. Swarm and Evolutionary Computation, 2020, 54, 100665.	4.5	317
94	Tree Cover Estimation in Global Drylands from Space Using Deep Learning. Remote Sensing, 2020, 12, 343.	1.8	17
95	An overview on feedback mechanisms with minimum adjustment or cost in consensus reaching in group decision making: Research paradigms and challenges. Information Fusion, 2020, 60, 65-79.	11.7	219
96	Object Detection Binary Classifiers methodology based on deep learning to identify small objects handled similarly: Application in video surveillance. Knowledge-Based Systems, 2020, 194, 105590.	4.0	112
97	Large-Scale decision-making: Characterization, taxonomy, challenges and future directions from an Artificial Intelligence and applications perspective. Information Fusion, 2020, 59, 84-102.	11.7	179
98	Ensembles of cost-diverse Bayesian neural learners for imbalanced binary classification. Information Sciences, 2020, 520, 31-45.	4.0	10
99	A two-step communication opinion dynamics model with self-persistence and influence index for social networks based on the DeGroot model. Information Sciences, 2020, 519, 363-381.	4.0	34
100	MNIST-NET10: A heterogeneous deep networks fusion based on the degree of certainty to reach 0.1% error rate. Ensembles overview and proposal. Information Fusion, 2020, 62, 73-80.	11.7	27
101	Smart Data. , 2020, , 45-51.		2
102	Data Reduction for Big Data. , 2020, , 81-99.		2
103	Imbalanced Data Preprocessing for Big Data. , 2020, , 147-160.		4
104	An analysis on the use of autoencoders for representation learning: Fundamentals, learning task case studies, explainability and challenges. Neurocomputing, 2020, 404, 93-107.	3.5	38
105	Big Data: Technologies and Tools. , 2020, , 15-43.		1
106	Final Thoughts: From Big Data to Smart Data. , 2020, , 183-186.		0
107	Big Data Discretization. , 2020, , 121-146.		2
108	Big Data Software. , 2020, , 161-182.		0

#	Article	IF	Citations
109	Evolutionary Fuzzy Systems: A Case Study for Intrusion Detection Systems. Studies in Computational Intelligence, 2019, , 169-190.	0.7	14
110	Instance reduction for one-class classification. Knowledge and Information Systems, 2019, 59, 601-628.	2.1	21
111	Score-HeDLiSF: A score function of hesitant fuzzy linguistic term set based on hesitant degrees and linguistic scale functions: An application to unbalanced hesitant fuzzy linguistic MULTIMOORA. Information Fusion, 2019, 48, 39-54.	11.7	143
112	A Metahierarchical Rule Decision System to Design Robust Fuzzy Classifiers Based on Data Complexity. IEEE Transactions on Fuzzy Systems, 2019, 27, 701-715.	6.5	12
113	Sparse Representation-Based Intuitionistic Fuzzy Clustering Approach to Find the Group Intra-Relations and Group Leaders for Large-Scale Decision Making. IEEE Transactions on Fuzzy Systems, 2019, 27, 559-573.	6.5	75
114	A Consensus Model for Large-Scale Linguistic Group Decision Making With a Feedback Recommendation Based on Clustered Personalized Individual Semantics and Opposing Consensus Groups. IEEE Transactions on Fuzzy Systems, 2019, 27, 221-233.	6.5	227
115	Emerging topics and challenges of learning from noisy data in nonstandard classification: a survey beyond binary class noise. Knowledge and Information Systems, 2019, 60, 63-97.	2.1	18
116	Consensus Building With Individual Consistency Control in Group Decision Making. IEEE Transactions on Fuzzy Systems, 2019, 27, 319-332.	6.5	56
117	Coral species identification with texture or structure images using a two-level classifier based on Convolutional Neural Networks. Knowledge-Based Systems, 2019, 184, 104891.	4.0	26
118	An Analysis of Local and Global Solutions to Address Big Data Imbalanced Classification: A Case Study with SMOTE Preprocessing. Communications in Computer and Information Science, 2019, , 75-85.	0.4	8
119	Social network group decision making: Managing self-confidence-based consensus model with the dynamic importance degree of experts and trust-based feedback mechanism. Information Sciences, 2019, 505, 215-232.	4.0	110
120	DPASF: a flink library for streaming data preprocessing. Big Data Analytics, 2019, 4, .	2.2	11
121	Whale counting in satellite and aerial images with deep learning. Scientific Reports, 2019, 9, 14259.	1.6	89
122	From Big to Smart Data: Iterative ensemble filter for noise filtering in Big Data classification. International Journal of Intelligent Systems, 2019, 34, 3260-3274.	3.3	12
123	Defective alternatives detection-based multi-attribute intuitionistic fuzzy large-scale decision making model. Knowledge-Based Systems, 2019, 186, 104962.	4.0	25
124	Consensus evolution networks: A consensus reaching tool for managing consensus thresholds in group decision making. Information Fusion, 2019, 52, 375-388.	11.7	50
125	Guest Editorial: Computational Intelligence for Big Data Analytics. Cognitive Computation, 2019, 11, 329-330.	3.6	0
126	Smartdata: Data preprocessing to achieve smart data in R. Neurocomputing, 2019, 360, 1-13.	3.5	13

#	Article	IF	Citations
127	Virtual learning environment to predict withdrawal by leveraging deep learning. International Journal of Intelligent Systems, 2019, 34, 1935-1952.	3.3	53
128	Life satisfaction evaluation in earthquake-hit area by the probabilistic linguistic GLDS method integrated with the logarithm-multiplicative analytic hierarchy process. International Journal of Disaster Risk Reduction, 2019, 38, 101190.	1.8	27
129	Ordinal consensus measure with objective threshold for heterogeneous large-scale group decision making. Knowledge-Based Systems, 2019, 180, 62-74.	4.0	106
130	A Showcase of the Use of Autoencoders in Feature Learning Applications. Lecture Notes in Computer Science, 2019, , 412-421.	1.0	2
131	Bio-inspired computation: Where we stand and what's next. Swarm and Evolutionary Computation, 2019, 48, 220-250.	4.5	430
132	OCAPIS: R package for Ordinal Classification and Preprocessing in Scala. Progress in Artificial Intelligence, 2019, 8, 287-292.	1.5	4
133	A Review of Fingerprint Feature Representations and Their Applications for Latent Fingerprint Identification: Trends and Evaluation. IEEE Access, 2019, 7, 48484-48499.	2.6	48
134	Inconsistencies on TripAdvisor reviews: A unified index between users and Sentiment Analysis Methods. Neurocomputing, 2019, 353, 3-16.	3.5	53
135	Group decision making with double hierarchy hesitant fuzzy linguistic preference relations: Consistency based measures, index and repairing algorithms and decision model. Information Sciences, 2019, 489, 93-112.	4.0	66
136	Detection of Fir Trees (Abies sibirica) Damaged by the Bark Beetle in Unmanned Aerial Vehicle Images with Deep Learning. Remote Sensing, 2019, 11, 643.	1.8	99
137	Consensus model for large-scale group decision making based on fuzzy preference relation with self-confidence: Detecting and managing overconfidence behaviors. Information Fusion, 2019, 52, 245-256.	11.7	148
138	Deep recurrent neural network for geographical entities disambiguation on social media data. Knowledge-Based Systems, 2019, 173, 117-127.	4.0	10
139	Social network analysis-based conflict relationship investigation and conflict degree-based consensus reaching process for large scale decision making using sparse representation. Information Fusion, 2019, 50, 251-272.	11.7	123
140	Ruta: Implementations of neural autoencoders in R. Knowledge-Based Systems, 2019, 174, 4-8.	4.0	4
141	Hesitant Fuzzy Linguistic Analytic Hierarchical Process With Prioritization, Consistency Checking, and Inconsistency Repairing. IEEE Access, 2019, 7, 44135-44149.	2.6	30
142	Generic Disjunctive Belief-Rule-Base Modeling, Inferencing, and Optimization. IEEE Transactions on Fuzzy Systems, 2019, 27, 1866-1880.	6.5	44
143	A Group Decision Making Approach Considering Self-confidence Behaviors and Its Application in Environmental Pollution Emergency Management. International Journal of Environmental Research and Public Health, 2019, 16, 385.	1.2	26
144	Consensus reaching in social network DeGroot Model: The roles of the Self-confidence and node degree. Information Sciences, 2019, 486, 62-72.	4.0	77

#	Article	IF	Citations
145	Revisiting inconsistent judgments for incomplete fuzzy linguistic preference relations: Algorithms to identify and rectify ordinal inconsistencies. Knowledge-Based Systems, 2019, 163, 305-319.	4.0	30
146	E2SAM: Evolutionary ensemble of sentiment analysis methods for domain adaptation. Information Sciences, 2019, 480, 273-286.	4.0	30
147	An overview on managing additive consistency of reciprocal preference relations for consistency-driven decision making and fusion: Taxonomy and future directions. Information Fusion, 2019, 52, 143-156.	11.7	164
148	Analysis of self-confidence indices-based additive consistency for fuzzy preference relations with self-confidence and its application in group decision making. International Journal of Intelligent Systems, 2019, 34, 920-946.	3.3	37
149	A snapshot on nonstandard supervised learning problems: taxonomy, relationships, problem transformations and algorithm adaptations. Progress in Artificial Intelligence, 2019, 8, 1-14.	1.5	29
150	Brightness guided preprocessing for automatic cold steel weapon detection in surveillance videos with deep learning. Neurocomputing, 2019, 330, 151-161.	3.5	61
151	Evolutionary Fuzzy Systems for Explainable Artificial Intelligence: Why, When, What for, and Where to?. IEEE Computational Intelligence Magazine, 2019, 14, 69-81.	3.4	154
152	Alternative Ranking-Based Clustering and Reliability Index-Based Consensus Reaching Process for Hesitant Fuzzy Large Scale Group Decision Making. IEEE Transactions on Fuzzy Systems, 2019, 27, 159-171.	6.5	115
153	An overview of MULTIMOORA for multi-criteria decision-making: Theory, developments, applications, and challenges. Information Fusion, 2019, 51, 145-177.	11.7	162
154	A binocular image fusion approach for minimizing false positives in handgun detection with deep learning. Information Fusion, 2019, 49, 271-280.	11.7	27
155	Transforming big data into smart data: An insight on the use of the k-nearest neighbors algorithm to obtain quality data. Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery, 2019, 9, e1289.	4.6	88
156	Large-scale group decision making model based on social network analysis: Trust relationship-based conflict detection and elimination. European Journal of Operational Research, 2019, 275, 737-754.	3.5	243
157	Enabling Smart Data: Noise filtering in Big Data classification. Information Sciences, 2019, 479, 135-152.	4.0	103
158	Visualizing and rectifying different inconsistencies for fuzzy reciprocal preference relations. Fuzzy Sets and Systems, 2019, 362, 85-109.	1.6	49
159	Towards highly accurate coral texture images classification using deep convolutional neural networks and data augmentation. Expert Systems With Applications, 2019, 118, 315-328.	4.4	85
160	Chain based sampling for monotonic imbalanced classification. Information Sciences, 2019, 474, 187-204.	4.0	19
161	On the Suitability of Fuzzy Rule-Based Classification Systems with Noisy Data. IEEE Transactions on Fuzzy Systems, 2019, , 1-1.	6.5	1
162	A multi-objective evolutionary fuzzy system to obtain a broad and accurate set of solutions in intrusion detection systems. Soft Computing, 2019, 23, 1321-1336.	2.1	43

#	Article	IF	Citations
163	Dealing with difficult minority labels in imbalanced mutilabel data sets. Neurocomputing, 2019, 326-327, 39-53.	3.5	35
164	REMEDIAL-HwR: Tackling multilabel imbalance through label decoupling and data resampling hybridization. Neurocomputing, 2019, 326-327, 110-122.	3.5	30
165	CONSENSUS BASED ON MULTIPLICATIVE CONSISTENT DOUBLE HIERARCHY LINGUISTIC PREFERENCES: VENTURE CAPITAL IN REAL ESTATE MARKET. International Journal of Strategic Property Management, 2019, 24, 1-23.	0.8	23
166	A First Approach on Big Data Missing Values Imputation. , 2019, , .		2
167	DRCW-ASEG: One-versus-One distance-based relative competence weighting with adaptive synthetic example generation for multi-class imbalanced datasets. Neurocomputing, 2018, 285, 176-187.	3.5	28
168	Dynamic ensemble selection for multi-class imbalanced datasets. Information Sciences, 2018, 445-446, 22-37.	4.0	119
169	A continuous interval-valued linguistic ORESTE method for multi-criteria group decision making. Knowledge-Based Systems, 2018, 153, 65-77.	4.0	69
170	On a new methodology for ranking fuzzy numbers and its application to real economic data. Fuzzy Sets and Systems, 2018, 353, 86-110.	1.6	27
171	Intuitionistic Fuzzy Analytic Network Process. IEEE Transactions on Fuzzy Systems, 2018, 26, 2578-2590.	6.5	59
172	A multi-objective evolutionary approach to training set selection for support vector machine. Knowledge-Based Systems, 2018, 147, 94-108.	4.0	30
173	Tips, guidelines and tools for managing multi-label datasets: The mldr.datasets R package and the Cometa data repository. Neurocomputing, 2018, 289, 68-85.	3.5	24
174	Cognitive Computing: Architecture, Technologies and Intelligent Applications. IEEE Access, 2018, 6, 19774-19783.	2.6	166
175	A practical tutorial on autoencoders for nonlinear feature fusion: Taxonomy, models, software and guidelines. Information Fusion, 2018, 44, 78-96.	11.7	212
176	Personalized individual semantics based on consistency in hesitant linguistic group decision making with comparative linguistic expressions. Knowledge-Based Systems, 2018, 145, 156-165.	4.0	143
177	Distinguishing between facts and opinions for sentiment analysis: Survey and challenges. Information Fusion, 2018, 44, 65-77.	11.7	176
178	An Insight into Bio-inspired and Evolutionary Algorithms for Global Optimization: Review, Analysis, and Lessons Learnt over a Decade of Competitions. Cognitive Computation, 2018, 10, 517-544.	3.6	66
179	MRQAR: A generic MapReduce framework to discover quantitative association rules in big data problems. Knowledge-Based Systems, 2018, 153, 176-192.	4.0	35
180	MC2ESVM: Multiclass Classification Based on Cooperative Evolution of Support Vector Machines. IEEE Computational Intelligence Magazine, 2018, 13, 18-29.	3.4	22

#	Article	IF	Citations
181	Consensus vote models for detecting and filtering neutrality in sentiment analysis. Information Fusion, 2018, 44, 126-135.	11.7	89
182	Online entropy-based discretization for data streaming classification. Future Generation Computer Systems, 2018, 86, 59-70.	4.9	15
183	Principal Components Analysis Random Discretization Ensemble for Big Data. Knowledge-Based Systems, 2018, 150, 166-174.	4.0	32
184	A Forecasting Methodology for Workload Forecasting in Cloud Systems. IEEE Transactions on Cloud Computing, 2018, 6, 929-941.	3.1	28
185	Automatic handgun detection alarm in videos using deep learning. Neurocomputing, 2018, 275, 66-72.	3.5	132
186	Teranga Go!: Carpooling Collaborative Consumption Community with multi-criteria hesitant fuzzy linguistic term set opinions to build confidence and trust. Applied Soft Computing Journal, 2018, 67, 941-952.	4.1	14
187	An Information Theory-Based Feature Selection Framework for Big Data Under Apache Spark. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2018, 48, 1441-1453.	5.9	55
188	CNC-NOS: Class noise cleaning by ensemble filtering and noise scoring. Knowledge-Based Systems, 2018, 140, 27-49.	4.0	33
189	Big Data: Tutorial and guidelines on information and process fusion for analytics algorithms with MapReduce. Information Fusion, 2018, 42, 51-61.	11.7	122
190	A distributed evolutionary multivariate discretizer for Big Data processing on Apache Spark. Swarm and Evolutionary Computation, 2018, 38, 240-250.	4.5	29
191	A unifying analysis for the supervised descriptive rule discovery via the weighted relative accuracy. Knowledge-Based Systems, 2018, 139, 89-100.	4.0	20
192	Consistency of hesitant fuzzy linguistic preference relations: An interval consistency index. Information Sciences, 2018, 432, 347-361.	4.0	106
193	Hesitant Fuzzy Linguistic Term Set and Its Application in Decision Making: A State-of-the-Art Survey. International Journal of Fuzzy Systems, 2018, 20, 2084-2110.	2.3	189
194	On the use of convolutional neural networks for robust classification of multiple fingerprint captures. International Journal of Intelligent Systems, 2018, 33, 213-230.	3.3	58
195	Dynamic affinity-based classification of multi-class imbalanced data with one-versus-one decomposition: a fuzzy rough set approach. Knowledge and Information Systems, 2018, 56, 55-84.	2.1	27
196	A preliminary study on Hybrid Spill-Tree Fuzzy k-Nearest Neighbors for big data classification. , 2018, , .		4
197	SHADE with Iterative Local Search for Large-Scale Global Optimization. , 2018, , .		55
198	Computing with Words: Revisiting the Qualitative Scale. International Journal of Uncertainty, Fuzziness and Knowlege-Based Systems, 2018, 26, 127-143.	0.9	29

#	Article	IF	Citations
199	Multiple criteria decision making based on distance and similarity measures under double hierarchy hesitant fuzzy linguistic environment. Computers and Industrial Engineering, 2018, 126, 516-530.	3.4	90
200	Editorial Message: Special Issue on Hesitant Fuzzy Linguistic Decision Making: Algorithms, Theory and Applications. International Journal of Fuzzy Systems, 2018, 20, 2083-2083.	2.3	15
201	Learning from Imbalanced Data Sets. , 2018, , .		477
202	Introduction to KDD and Data Science. , 2018, , 1-17.		8
203	Software and Libraries for Imbalanced Classification. , 2018, , 351-377.		0
204	Data Level Preprocessing Methods. , 2018, , 79-121.		2
205	Dimensionality Reduction for Imbalanced Learning. , 2018, , 227-251.		3
206	Non-classical Imbalanced Classification Problems. , 2018, , 305-325.		0
207	Imbalanced Classification for Big Data. , 2018, , 327-349.		7
208	Foundations on Imbalanced Classification. , 2018, , 19-46.		9
209	Cost-Sensitive Learning. , 2018, , 63-78.		37
210	Algorithm-Level Approaches. , 2018, , 123-146.		4
211	Imbalanced Classification with Multiple Classes. , 2018, , 197-226.		1
212	Underground Mining Method Selection With the Hesitant Fuzzy Linguistic Gained and Lost Dominance Score Method. IEEE Access, 2018, 6, 66442-66458.	2.6	28
213	Ensemble Learning. , 2018, , 147-196.		3
214	A Preliminary Study of the Feasibility of Global Evolutionary Feature Selection for Big Datasets under Apache Spark. , 2018, , .		2
215	Data Intrinsic Characteristics. , 2018, , 253-277.		7
216	Imbalance: Oversampling algorithms for imbalanced classification in R. Knowledge-Based Systems, 2018, 161, 329-341.	4.0	53

13

#	Article	IF	Citations
217	Cooperative multi-objective evolutionary support vector machines for multiclass problems. , 2018, , .		2
218	Dynamic ensemble selection for multi-class classification with one-class classifiers. Pattern Recognition, 2018, 83, 34-51.	5.1	59
219	Consensus reaching process for large-scale group decision making with double hierarchy hesitant fuzzy linguistic preference relations. Knowledge-Based Systems, 2018, 157, 20-33.	4.0	186
220	On the Use of Random Discretization and Dimensionality Reduction in Ensembles for Big Data. Lecture Notes in Computer Science, 2018, , 15-26.	1.0	1
221	A New Hesitant Fuzzy Linguistic ORESTE Method for Hybrid Multicriteria Decision Making. IEEE Transactions on Fuzzy Systems, 2018, 26, 3793-3807.	6.5	70
222	A First Study on the Use of Noise Filtering to Clean the Bags in Multi-Instance Classification. , 2018, , .		1
223	A first study exploring the performance of the state-of-the art CNN model in the problem of breast cancer. , 2018, , .		31
224	Surveying alignment-free features for Ortholog detection in related yeast proteomes by using supervised big data classifiers. BMC Bioinformatics, 2018, 19, 166.	1.2	3
225	Probabilistic Linguistic MULTIMOORA: A Multicriteria Decision Making Method Based on the Probabilistic Linguistic Expectation Function and the Improved Borda Rule. IEEE Transactions on Fuzzy Systems, 2018, 26, 3688-3702.	6.5	283
226	The Use of Fuzzy Linguistic Information and Fuzzy Delphi Method to Validate by Consensus a Questionnaire in a Blended-Learning Environment. Communications in Computer and Information Science, 2018, , 137-149.	0.4	2
227	A First Step to Accelerating Fingerprint Matching Based on Deformable Minutiae Clustering. Lecture Notes in Computer Science, 2018, , 361-371.	1.0	2
228	SMOTE-BD: An Exact and Scalable Oversampling Method for Imbalanced Classification in Big Data. Journal of Computer Science and Technology(Argentina), 2018, 18, e23.	0.5	15
229	kNN-IS: An Iterative Spark-based design of the k-Nearest Neighbors classifier for big data. Knowledge-Based Systems, 2017, 117, 3-15.	4.0	216
230	Fuzzy rule based classification systems for big data with MapReduce: granularity analysis. Advances in Data Analysis and Classification, 2017, 11, 711-730.	0.9	33
231	Personalized individual semantics in computing with words for supporting linguistic group decision making. An application on consensus reaching. Information Fusion, 2017, 33, 29-40.	11.7	310
232	Since CEC 2005 competition on real-parameter optimisation: a decade of research, progress and comparative analysisâ€™s weakness. Soft Computing, 2017, 21, 5573-5583.	2.1	66
233	A survey on data preprocessing for data stream mining: Current status and future directions. Neurocomputing, 2017, 239, 39-57.	3.5	326
234	Managing consensus based on leadership in opinion dynamics. Information Sciences, 2017, 397-398, 187-205.	4.0	280

#	Article	IF	Citations
235	An insight into imbalanced Big Data classification: outcomes and challenges. Complex & Intelligent Systems, 2017, 3, 105-120.	4.0	153
236	A comparison on scalability for batch big data processing on Apache Spark and Apache Flink. Big Data Analytics, 2017, 2, .	2.2	62
237	Exploring the effectiveness of dynamic ensemble selection in the one-versus-one scheme. Knowledge-Based Systems, 2017, 125, 53-63.	4.0	23
238	Minutiae-based fingerprint matching decomposition: Methodology for big data frameworks. Information Sciences, 2017, 408, 198-212.	4.0	26
239	Class Switching according to Nearest Enemy Distance for learning from highly imbalanced data-sets. Pattern Recognition, 2017, 70, 12-24.	5.1	30
240	SMOTE-GPU: Big Data preprocessing on commodity hardware for imbalanced classification. Progress in Artificial Intelligence, 2017, 6, 347-354.	1.5	16
241	A Pareto-based Ensemble with Feature and Instance Selection for Learning from Multi-Class Imbalanced Datasets. International Journal of Neural Systems, 2017, 27, 1750028.	3.2	42
242	Double hierarchy hesitant fuzzy linguistic term set and MULTIMOORA method: A case of study to evaluate the implementation status of haze controlling measures. Information Fusion, 2017, 38, 22-34.	11.7	270
243	Cost-Sensitive back-propagation neural networks with binarization techniques in addressing multi-class problems and non-competent classifiers. Applied Soft Computing Journal, 2017, 56, 357-367.	4.1	32
244	Distributed incremental fingerprint identification with reduced database penetration rate using a hierarchical classification based on feature fusion and selection. Knowledge-Based Systems, 2017, 126, 91-103.	4.0	29
245	An Evolutionary Multiobjective Model and Instance Selection for Support Vector Machines With Pareto-Based Ensembles. IEEE Transactions on Evolutionary Computation, 2017, 21, 863-877.	7.5	54
246	Guest Editorial: Recent Trends in Intelligent Systems. International Journal of Intelligent Systems, 2017, 32, 107-108.	3.3	0
247	NMC: nearest matrix classification â€" A new combination model for pruning One-vs-One ensembles by transforming the aggregation problem. Information Fusion, 2017, 36, 26-51.	11.7	18
248	A consistency-driven approach to set personalized numerical scales for hesitant fuzzy linguistic preference relations. , 2017, , .		2
249	Sentiment Analysis in TripAdvisor. IEEE Intelligent Systems, 2017, 32, 72-77.	4.0	122
250	Nearest Neighbor Classification for High-Speed Big Data Streams Using Spark. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2017, 47, 2727-2739.	5.9	60
251	Chi-Spark-RS: An Spark-built evolutionary fuzzy rule selection algorithm in imbalanced classification for big data problems. , 2017, , .		16
252	Mining association rules on Big Data through MapReduce genetic programming. Integrated Computer-Aided Engineering, 2017, 25, 31-48.	2.5	35

#	Article	IF	Citations
253	Analysis among winners of different IEEE CEC competitions on real-parameters optimization: Is there always improvement?. , 2017, , .		6
254	A first attempt on global evolutionary undersampling for imbalanced big data. , 2017, , .		13
255	A linear programming method for multiple criteria decision making with probabilistic linguistic information. Information Sciences, 2017, 415-416, 341-355.	4.0	167
256	Fast-mRMR: Fast Minimum Redundancy Maximum Relevance Algorithm for High-Dimensional Big Data. International Journal of Intelligent Systems, 2017, 32, 134-152.	3.3	125
257	Exact fuzzy k-nearest neighbor classification for big datasets. , 2017, , .		13
258	A decision making model to evaluate the reputation in social networks using HFLTS. , 2017, , .		3
259	A first approach towards a fuzzy decision tree for multilabel classification. , 2017, , .		6
260	Deep-learning Versus OBIA for Scattered Shrub Detection with Google Earth Imagery: Ziziphus lotus as Case Study. Remote Sensing, 2017, 9, 1220.	1.8	120
261	A Study on the Noise Label Influence inÂBoosting Algorithms: AdaBoost, GBM and XGBoost. Lecture Notes in Computer Science, 2017, , 268-280.	1.0	26
262	rNPBST: An R Package Covering Non-parametric and Bayesian Statistical Tests. Lecture Notes in Computer Science, 2017, , 281-292.	1.0	19
263	KEEL 3.0: An Open Source Software for Multi-Stage Analysis in Data Mining. International Journal of Computational Intelligence Systems, 2017, 10, 1238.	1.6	201
264	A snapshot of image pre-processing for convolutional neural networks: case study of MNIST. International Journal of Computational Intelligence Systems, 2017, 10, 555.	1.6	52
265	The NoiseFiltersR Package: Label Noise Preprocessing in R. R Journal, 2017, 9, 219.	0.7	11
266	A Review of Distributed Data Models for Learning. Lecture Notes in Computer Science, 2017, , 88-97.	1.0	3
267	From Big Data to Smart Data with the K-Nearest Neighbours Algorithm. , 2016, , .		11
268	A coral reefs optimization algorithm with substrate layers and local search for large scale global optimization. , 2016, , .		27
269	Fuzzy-Citation-KNN: A fuzzy nearest neighbor approach for multi-instance classification. , 2016, , .		3
270	A First Approach in Evolutionary Fuzzy Systems based on the lateral tuning of the linguistic labels for Big Data classification. , 2016, , .		10

#	Article	IF	Citations
271	DPD-DFF: A dual phase distributed scheme with double fingerprint fusion for fast and accurate identification in large databases. Information Fusion, 2016, 32, 40-51.	11.7	17
272	A Review of Hesitant Fuzzy Sets: Quantitative and Qualitative Extensions. Studies in Fuzziness and Soft Computing, 2016, , 109-128.	0.6	8
273	NICGAR: A Niching Genetic Algorithm to mine a diverse set of interesting quantitative association rules. Information Sciences, 2016, 355-356, 208-228.	4.0	71
274	R Ultimate Multilabel Dataset Repository. Lecture Notes in Computer Science, 2016, , 487-499.	1.0	15
275	A View on Fuzzy Systems for Big Data: Progress and Opportunities. International Journal of Computational Intelligence Systems, 2016, 9, 69.	1.6	47
276	Multilabel Classification. , 2016, , 17-31.		28
277	DESIGNING FUZZY SYSTEMS FOR BIG DATA: CHALLENGES AND OPPORTUNITIES. , 2016, , .		0
278	Imbalance in Multilabel Datasets. , 2016, , 133-151.		0
279	Multilabel Classification. , 2016, , .		50
280	Region-based memetic algorithm with archive for multimodal optimisation. Information Sciences, 2016, 367-368, 719-746.	4.0	15
281	Data discretization: taxonomy and big data challenge. Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery, 2016, 6, 5-21.	4.6	105
282	GPU-SME-kNN: Scalable and memory efficient kNN and lazy learning using GPUs. Information Sciences, 2016, 373, 165-182.	4.0	22
283	Evolutionary undersampling for extremely imbalanced big data classification under apache spark. , 2016, , .		49
284	An optimization-based approach to estimate the range of consistency in hesitant fuzzy linguistic preference relations. , 2016, , .		3
285	Imbalanced Multi-instance Data. , 2016, , 191-208.		1
286	Designing optimal harmonic filters in power systems using greedy adaptive Differential Evolution. , 2016, , .		4
287	Big data preprocessing: methods and prospects. Big Data Analytics, 2016, 1, .	2.2	319
288	Multiple Instance Learning. , 2016, , .		41

#	Article	IF	Citations
289	Case Studies and Metrics. , 2016, , 33-63.		1
290	Transformation-Based Classifiers. , 2016, , 65-79.		0
291	Empowering one-vs-one decomposition with ensemble learning for multi-class imbalanced data. Knowledge-Based Systems, 2016, 106, 251-263.	4.0	81
292	Evolutionary Fuzzy Systems: A Case Study in Imbalanced Classification. Studies in Fuzziness and Soft Computing, 2016, , 169-200.	0.6	1
293	Connecting the linguistic hierarchy and the numerical scale for the 2-tuple linguistic model and its use to deal with hesitant unbalanced linguistic information. Information Sciences, 2016, 367-368, 259-278.	4.0	199
294	On the Impact of Dataset Complexity and Sampling Strategy in Multilabel Classifiers Performance. Lecture Notes in Computer Science, 2016, , 500-511.	1.0	15
295	Evaluating the classifier behavior with noisy data considering performance and robustness: The Equalized Loss of Accuracy measure. Neurocomputing, 2016, 176, 26-35.	3.5	60
296	INFFC: An iterative class noise filter based on the fusion of classifiers with noise sensitivity control. Information Fusion, 2016, 27, 19-32.	11.7	73
297	Fuzzy Multi-Instance Classifiers. IEEE Transactions on Fuzzy Systems, 2016, 24, 1395-1409.	6.5	11
298	A position and perspective analysis of hesitant fuzzy sets on information fusion in decision making. Towards high quality progress. Information Fusion, 2016, 29, 89-97.	11.7	199
299	Enhancing evolutionary fuzzy systems for multi-class problems: Distance-based relative competence weighting with truncated confidences (DRCW-TC). International Journal of Approximate Reasoning, 2016, 73, 108-122.	1.9	5
300	Ordering-based pruning for improving the performance of ensembles of classifiers in the framework of imbalanced datasets. Information Sciences, 2016, 354, 178-196.	4.0	78
301	Deriving the priority weights from incomplete hesitant fuzzy preference relations in group decision making. Knowledge-Based Systems, 2016, 99, 71-78.	4.0	148
302	Fuzzy rough classifiers for class imbalanced multi-instance data. Pattern Recognition, 2016, 53, 36-45.	5.1	51
303	Tutorial on practical tips of the most influential data preprocessing algorithms in data mining. Knowledge-Based Systems, 2016, 98, 1-29.	4.0	204
304	Fuzzy-rough imbalanced learning for the diagnosis of High Voltage Circuit Breaker maintenance: The SMOTE-FRST-2T algorithm. Engineering Applications of Artificial Intelligence, 2016, 48, 134-139.	4.3	56
305	A distance-based framework to deal with ordinal and additive inconsistencies for fuzzy reciprocal preference relations. Information Sciences, 2016, 328, 189-205.	4.0	56
306	Evolutionary wrapper approaches for training set selection as preprocessing mechanism for support vector machines: Experimental evaluation and support vector analysis. Applied Soft Computing Journal, 2016, 38, 10-22.	4.1	38

#	Article	IF	Citations
307	Evolutionary undersampling boosting for imbalanced classification of breast cancer malignancy. Applied Soft Computing Journal, 2016, 38, 714-726.	4.1	206
308	Evolutionary fuzzy k-nearest neighbors algorithm using interval-valued fuzzy sets. Information Sciences, 2016, 329, 144-163.	4.0	61
309	Comments on â€œInterval Type-2 Fuzzy Sets are Generalization of Interval-Valued Fuzzy Sets: Towards a Wide View on Their Relationshipâ€. IEEE Transactions on Fuzzy Systems, 2016, 24, 249-250.	6.5	49
310	A Historical Account of Types of Fuzzy Sets and Their Relationships. IEEE Transactions on Fuzzy Systems, 2016, 24, 179-194.	6.5	384
311	Multivariate Discretization Based on Evolutionary Cut Points Selection for Classification. IEEE Transactions on Cybernetics, 2016, 46, 595-608.	6.2	39
312	A First Study on the Use of Boosting for Class Noise Reparation. Lecture Notes in Computer Science, 2016, , 549-559.	1.0	3
313	Multiple Instance Learning. , 2016, , 17-33.		16
314	Managing Monotonicity in Classification by a Pruned AdaBoost. Lecture Notes in Computer Science, 2016, , 512-523.	1.0	2
315	On the Combination of Pairwise and Granularity Learning for Improving Fuzzy Rule-Based Classification Systems: GL-FARCHD-OVO. Advances in Intelligent Systems and Computing, 2016, , 135-146.	0.5	1
316	Data Reduction. , 2016, , 169-189.		0
317	A Wrapper Evolutionary Approach for Supervised Multivariate Discretization: A Case Study on Decision Trees. Advances in Intelligent Systems and Computing, 2016, , 47-58.	0.5	0
318	CONSISTENCY OF HESITANT FUZZY PREFERENCE RELATIONS. , 2016, , .		0
319	An Effective Big Data Supervised Imbalanced Classification Approach for Ortholog Detection in Related Yeast Species. BioMed Research International, 2015, 2015, 1-12.	0.9	17
320	Discretization. Intelligent Systems Reference Library, 2015, , 245-283.	1.0	4
321	Monotonic Random Forest with an Ensemble Pruning Mechanism based on the Degree of Monotonicity. New Generation Computing, 2015, 33, 367-388.	2.5	36
322	QUINTA: A question tagging assistant to improve the answering ratio in electronic forums. , 2015, , .		12
323	On the impact of Distance-based Relative Competence Weighting approach in One-vs-One classification for Evolutionary Fuzzy Systems: DRCW-FH-GBML algorithm. , 2015, , .		0
324	Analysis of Data Preprocessing Increasing the Oversampling Ratio for Extremely Imbalanced Big Data Classification. , 2015, , .		19

#	Article	IF	Citations
325	The 2-tuple Linguistic Model. , 2015, , .		42
326	A MapReduce-Based k-Nearest Neighbor Approach for Big Data Classification. , 2015, , .		53
327	Distributed Entropy Minimization Discretizer for Big Data Analysis under Apache Spark. , 2015, , .		17
328	Linguistic Approaches Based on the 2-Tuple Fuzzy Linguistic Representation Model. , 2015, , 43-50.		1
329	Iterative hybridization of DE with local search for the CEC'2015 special session on large scale global optimization. , 2015, , .		31
330	A linguistic 2-tuple multicriteria decision making model dealing with hesitant linguistic information. , 2015, , .		2
331	Revisiting Evolutionary Fuzzy Systems: Taxonomy, applications, new trends and challenges. Knowledge-Based Systems, 2015, 80, 109-121.	4.0	120
332	Fast fingerprint identification using GPUs. Information Sciences, 2015, 301, 195-214.	4.0	22
333	IFROWANN: Imbalanced Fuzzy-Rough Ordered Weighted Average Nearest Neighbor Classification. IEEE Transactions on Fuzzy Systems, 2015, 23, 1622-1637.	6.5	84
334	A survey of fingerprint classification Part I: Taxonomies on feature extraction methods and learning models. Knowledge-Based Systems, 2015, 81, 76-97.	4.0	57
335	A web tool to support decision making in the housing market using hesitant fuzzy linguistic term sets. Applied Soft Computing Journal, 2015, 35, 949-957.	4.1	50
336	A MapReduce Approach to Address Big Data Classification Problems Based on the Fusion of Linguistic Fuzzy Rules. International Journal of Computational Intelligence Systems, 2015, 8, 422.	1.6	86
337	Addressing imbalance in multilabel classification: Measures and random resampling algorithms. Neurocomputing, 2015, 163, 3-16.	3.5	185
338	MLSMOTE: Approaching imbalanced multilabel learning through synthetic instance generation. Knowledge-Based Systems, 2015, 89, 385-397.	4.0	144
339	On the usefulness of one-class classifier ensembles for decomposition of multi-class problems. Pattern Recognition, 2015, 48, 3969-3982.	5.1	60
340	ROSEFW-RF: The winner algorithm for the ECBDLâ€™14 big data competition: An extremely imbalanced big data bioinformatics problem. Knowledge-Based Systems, 2015, 87, 69-79.	4.0	116
341	A survey of fingerprint classification Part II: Experimental analysis and ensemble proposal. Knowledge-Based Systems, 2015, 81, 98-116.	4.0	40
342	A survey on fingerprint minutiae-based local matching for verification and identification: Taxonomy and experimental evaluation. Information Sciences, 2015, 315, 67-87.	4.0	115

#	Article	IF	Citations
343	A Walk into Metaheuristics for Engineering Optimization: Principles, Methods and Recent Trends. International Journal of Computational Intelligence Systems, 2015, 8, 606.	1.6	69
344	SEG-SSC: A Framework Based on Synthetic Examples Generation for Self-Labeled Semi-Supervised Classification. IEEE Transactions on Cybernetics, 2015, 45, 622-634.	6.2	60
345	A Compact Evolutionary Interval-Valued Fuzzy Rule-Based Classification System for the Modeling and Prediction of Real-World Financial Applications With Imbalanced Data. IEEE Transactions on Fuzzy Systems, 2015, 23, 973-990.	6.5	133
346	Using the One-vs-One decomposition to improve the performance of class noise filters via an aggregation strategy in multi-class classification problems. Knowledge-Based Systems, 2015, 90, 153-164.	4.0	26
347	Evolutionary undersampling for imbalanced big data classification. , 2015, , .		38
348	Interval Type-2 Fuzzy Sets are Generalization of Interval-Valued Fuzzy Sets: Toward a Wider View on Their Relationship. IEEE Transactions on Fuzzy Systems, 2015, 23, 1876-1882.	6.5	136
349	A proposal for evolutionary fuzzy systems using feature weighting: Dealing with overlapping in imbalanced datasets. Knowledge-Based Systems, 2015, 73, 1-17.	4.0	49
350	Self-labeled techniques for semi-supervised learning: taxonomy, software and empirical study. Knowledge and Information Systems, 2015, 42, 245-284.	2.1	377
351	An automatic extraction method of the domains of competence for learning classifiers using data complexity measures. Knowledge and Information Systems, 2015, 42, 147-180.	2.1	47
352	Cost-sensitive linguistic fuzzy rule based classification systems under the MapReduce framework for imbalanced big data. Fuzzy Sets and Systems, 2015, 258, 5-38.	1.6	223
353	MRPR: A MapReduce solution for prototype reduction in big data classification. Neurocomputing, 2015, 150, 331-345.	3.5	204
354	Enhancing Multiclass Classification in FARC-HD Fuzzy Classifier: On the Synergy Between n-Dimensional Overlap Functions and Decomposition Strategies. IEEE Transactions on Fuzzy Systems, 2015, 23, 1562-1580.	6.5	132
355	Minimizing adjusted simple terms in the consensus reaching process with hesitant linguistic assessments in group decision making. Information Sciences, 2015, 297, 95-117.	4.0	208
356	On the combination of genetic fuzzy systems and pairwise learning for improving detection rates on Intrusion Detection Systems. Expert Systems With Applications, 2015, 42, 193-202.	4.4	162
357	SMOTE–IPF: Addressing the noisy and borderline examples problem in imbalanced classification by a re-sampling method with filtering. Information Sciences, 2015, 291, 184-203.	4.0	413
358	Data Preprocessing in Data Mining. Intelligent Systems Reference Library, 2015, , .	1.0	541
359	An optimization-based approach to adjusting unbalanced linguistic preference relations to obtain a required consistency level. Information Sciences, 2015, 292, 27-38.	4.0	79
360	DRCW-OVO: Distance-based relative competence weighting combination for One-vs-One strategy in multi-class problems. Pattern Recognition, 2015, 48, 28-42.	5.1	74

#	Article	IF	Citations
361	Dealing with Noisy Data. Intelligent Systems Reference Library, 2015, , 107-145.	1.0	10
362	Instance Selection. Intelligent Systems Reference Library, 2015, , 195-243.	1.0	10
363	Computing with Words for Decision Making Versus Linguistic Decision Making: A Reflection on both Scenarios. Studies in Fuzziness and Soft Computing, 2015, , 245-260.	0.6	3
364	Classification of Binary Imbalanced Data Using A Bayesian Ensemble of Bayesian Neural Networks. Communications in Computer and Information Science, 2015, , 304-314.	0.4	2
365	Linguistic Decision Making and Computing with Words. , 2015, , 1-21.		3
366	2-Tuple Linguistic Model. , 2015, , 23-42.		8
367	Addressing Overlapping in Classification with Imbalanced Datasets: A First Multi-objective Approach for Feature and Instance Selection. Lecture Notes in Computer Science, 2015, , 36-44.	1.0	5
368	Data Sets and Proper Statistical Analysis of Data Mining Techniques. Intelligent Systems Reference Library, 2015, , 19-38.	1.0	2
369	A Data Mining Software Package Including Data Preparation and Reduction: KEEL. Intelligent Systems Reference Library, 2015, , 285-313.	1.0	2
370	Flintstones: A Fuzzy Linguistic Decision Tools Enhancement Suite. , 2015, , 145-168.		0
371	2-Tuple Linguistic Decision Based Applications. , 2015, , 131-143.		0
372	Decision Making in Heterogeneous Context: 2-Tuple Linguistic Based Approaches. , 2015, , 51-82.		1
373	Managing Monotonicity in Classification by a Pruned Random Forest. Lecture Notes in Computer Science, 2015, , 53-60.	1.0	1
374	Dealing with Hesitant Fuzzy Linguistic Information in Decision Making. , 2015, , 113-129.		0
375	Decision Making with Unbalanced Linguistic Information. , 2015, , 83-112.		0
376	Weighted one-class classification for different types of minority class examples in imbalanced data. , 2014, , .		16
377	Implementing algorithms of rough set theory and fuzzy rough set theory in the R package â€œRoughSetsâ€. Information Sciences, 2014, 287, 68-89.	4.0	129
378	A Consensus Model to Detect and Manage Noncooperative Behaviors in Large-Scale Group Decision Making. IEEE Transactions on Fuzzy Systems, 2014, 22, 516-530.	6.5	413

#	Article	IF	Citations
379	Influence of regions on the memetic algorithm for the CEC'2014 Special Session on Real-Parameter Single Objective Optimisation. , 2014, , .		11
380	On the use of MapReduce to build linguistic fuzzy rule based classification systems for big data. , 2014, , .		15
381	Designing a compact Genetic fuzzy rule-based system for one-class classification. , 2014, , .		3
382	Overview on evolutionary subgroup discovery: analysis of the suitability and potential of the search performed by evolutionary algorithms. Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery, 2014, 4, 87-103.	4.6	32
383	Big Data with Cloud Computing: an insight on the computing environment, <scp>MapReduce</scp>, and programming frameworks. Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery, 2014, 4, 380-409.	4.6	175
384	A combined MapReduce-windowing two-level parallel scheme for evolutionary prototype generation. , 2014, , .		5
385	Learning from data using the R package "FRBS". , 2014, , .		14
386	Fast fingerprint identification for large databases. Pattern Recognition, 2014, 47, 588-602.	5.1	51
387	QAR-CIP-NSGA-II: A new multi-objective evolutionary algorithm to mine quantitative association rules. Information Sciences, 2014, 258, 1-28.	4.0	63
388	Addressing imbalanced classification with instance generation techniques: IPADE-ID. Neurocomputing, 2014, 126, 15-28.	3.5	48
389	Analyzing the presence of noise in multi-class problems: alleviating its influence with the One-vs-One decomposition. Knowledge and Information Systems, 2014, 38, 179-206.	2.1	105
390	On the importance of the validation technique for classification with imbalanced datasets: Addressing covariate shift when data is skewed. Information Sciences, 2014, 257, 1-13.	4.0	125
391	On the use of MapReduce for imbalanced big data using Random Forest. Information Sciences, 2014, 285, 112-137.	4.0	236
392	Hesitant Fuzzy Sets: An Emerging Tool in Decision Making. International Journal of Intelligent Systems, 2014, 29, 493-494.	3.3	26
393	Hesitant Fuzzy Sets: State of the Art and Future Directions. International Journal of Intelligent Systems, 2014, 29, 495-524.	3.3	390
394	Minutiae filtering to improve both efficacy and efficiency of fingerprint matching algorithms. Engineering Applications of Artificial Intelligence, 2014, 32, 37-53.	4.3	27
395	A multi-instance learning wrapper based on the Rocchio classifier for web index recommendation. Knowledge-Based Systems, 2014, 59, 173-181.	4.0	12
396	Fuzzy nearest neighbor algorithms: Taxonomy, experimental analysis and prospects. Information Sciences, 2014, 260, 98-119.	4.0	103

#	Article	IF	Citations
397	A first attempt on evolutionary prototype reduction for nearest neighbor one-class classification. , 2014, , .		3
398	A preliminary study on fingerprint classification using fuzzy rule-based classification systems. , 2014, , .		8
399	LI-MLC: A Label Inference Methodology for Addressing High Dimensionality in the Label Space for Multilabel Classification. IEEE Transactions on Neural Networks and Learning Systems, 2014, 25, 1842-1854.	7.2	30
400	Connecting the numerical scale model to the unbalanced linguistic term sets. , 2014, , .		3
401	Analyzing convergence performance of evolutionary algorithms: A statistical approach. Information Sciences, 2014, 289, 41-58.	4.0	117
402	Statistical computation of feature weighting schemes through data estimation for nearest neighbor classifiers. Pattern Recognition, 2014, 47, 3941-3948.	5.1	28
403	On the characterization of noise filters for self-training semi-supervised in nearest neighbor classification. Neurocomputing, 2014, 132, 30-41.	3.5	81
404	An insight into the importance of national university rankings in an international context: the case of the I-UGR rankings of Spanish universities. Scientometrics, 2014, 101, 1309-1324.	1.6	10
405	On the statistical analysis of the parameters’ trend in a machine learning algorithm. Progress in Artificial Intelligence, 2014, 3, 51-53.	1.5	3
406	A multi-objective evolutionary method for learning granularities based on fuzzy discretization to improve the accuracy-complexity trade-off of fuzzy rule-based classification systems: D-MOFARC algorithm. Applied Soft Computing Journal, 2014, 24, 470-481.	4.1	55
407	A High Performance Fingerprint Matching System for Large Databases Based on GPU. IEEE Transactions on Information Forensics and Security, 2014, 9, 62-71.	4.5	43
408	A New Multiobjective Evolutionary Algorithm for Mining a Reduced Set of Interesting Positive and Negative Quantitative Association Rules. IEEE Transactions on Evolutionary Computation, 2014, 18, 54-69.	7.5	84
409	MENTOR: A graphical monitoring tool of preferences evolution in large-scale group decision making. Knowledge-Based Systems, 2014, 58, 66-74.	4.0	83
410	Consensus under a fuzzy context: Taxonomy, analysis framework AFRYCA and experimental case of study. Information Fusion, 2014, 20, 252-271.	11.7	254
411	FLINTSTONES: A fuzzy linguistic decision tools enhancement suite based on the 2-tuple linguistic model and extensions. Information Sciences, 2014, 280, 152-170.	4.0	53
412	Region based memetic algorithm for real-parameter optimisation. Information Sciences, 2014, 262, 15-31.	4.0	16
413	METSK-HDe: A multiobjective evolutionary algorithm to learn accurate TSK-fuzzy systems in high-dimensional and large-scale regression problems. Information Sciences, 2014, 276, 63-79.	4.0	59
414	Preprocessing noisy imbalanced datasets using SMOTE enhanced with fuzzy rough prototype selection. Applied Soft Computing Journal, 2014, 22, 511-517.	4.1	61

#	Article	IF	Citations
415	A review of microarray datasets and applied feature selection methods. Information Sciences, 2014, 282, 111-135.	4.0	507
416	Empowering difficult classes with a similarity-based aggregation in multi-class classification problems. Information Sciences, 2014, 264, 135-157.	4.0	34
417	Concurrence among Imbalanced Labels and Its Influence on Multilabel Resampling Algorithms. Lecture Notes in Computer Science, 2014, , 110-121.	1.0	26
418	Managing Borderline and Noisy Examples in Imbalanced Classification by Combining SMOTE with Ensemble Filtering. Lecture Notes in Computer Science, 2014, , 61-68.	1.0	17
419	Improving the Performance of FARC-HD in Multi-class Classification Problems Using the One-Versus-One Strategy and an Adaptation of the Inference System. Communications in Computer and Information Science, 2014, , 296-306.	0.4	0
420	Improving the Behavior of the Nearest Neighbor Classifier against Noisy Data with Feature Weighting Schemes. Lecture Notes in Computer Science, 2014, , 597-606.	1.0	0
421	A study on the application of instance selection techniques in genetic fuzzy rule-based classification systems: Accuracy-complexity trade-off. Knowledge-Based Systems, 2013, 54, 32-41.	4.0	25
422	An insight into classification with imbalanced data: Empirical results and current trends on using data intrinsic characteristics. Information Sciences, 2013, 250, 113-141.	4.0	1,158
423	IVTURS: A Linguistic Fuzzy Rule-Based Classification System Based On a New Interval-Valued Fuzzy Reasoning Method With Tuning and Rule Selection. IEEE Transactions on Fuzzy Systems, 2013, 21, 399-411.	6.5	122
424	Analysing the classification of imbalanced data-sets with multiple classes: Binarization techniques and ad-hoc approaches. Knowledge-Based Systems, 2013, 42, 97-110.	4.0	286
425	Variable mesh optimization for the 2013 CEC Special Session Niching Methods for Multimodal Optimization. , 2013, , .		19
426	FRPS: A Fuzzy Rough Prototype Selection method. Pattern Recognition, 2013, 46, 2770-2782.	5.1	49
427	A group decision making model dealing with comparative linguistic expressions based on hesitant fuzzy linguistic term sets. Information Sciences, 2013, 241, 28-42.	4.0	466
428	Dynamically updated region based memetic algorithm for the 2013 CEC Special Session and Competition on Real Parameter Single Objective Optimization. , 2013, , .		13
429	Statistical analysis of convergence performance throughout the evolutionary search: A case study with SaDE-MMTS and Sa-EPSDE-MMTS. , 2013, , .		11
430	Eliciting comparative linguistic expressions in group decision making. , 2013, , .		3
431	Obtaining accurate TSK Fuzzy Rule-Based Systems by Multi-Objective Evolutionary Learning in high-dimensional regression problems. , 2013, , .		2
432	A Review of the Application of Multiobjective Evolutionary Fuzzy Systems: Current Status and Further Directions. IEEE Transactions on Fuzzy Systems, 2013, 21, 45-65.	6.5	321

#	Article	IF	Citations
433	On the use of evolutionary feature selection for improving fuzzy rough set based prototype selection. Soft Computing, 2013, 17, 223-238.	2.1	30
434	Dynamic classifier selection for One-vs-One strategy: Avoiding non-competent classifiers. Pattern Recognition, 2013, 46, 3412-3424.	5.1	85
435	A Survey of Discretization Techniques: Taxonomy and Empirical Analysis in Supervised Learning. IEEE Transactions on Knowledge and Data Engineering, 2013, 25, 734-750.	4.0	389
436	EUSBoost: Enhancing ensembles for highly imbalanced data-sets by evolutionary undersampling. Pattern Recognition, 2013, 46, 3460-3471.	5.1	317
437	On the use of biplot analysis for multivariate bibliometric and scientific indicators. Journal of the Association for Information Science and Technology, 2013, 64, 1468-1479.	2.6	25
438	Tackling the problem of classification with noisy data using Multiple Classifier Systems: Analysis of the performance and robustness. Information Sciences, 2013, 247, 1-20.	4.0	77
439	A hierarchical genetic fuzzy system based on genetic programming for addressing classification with highly imbalanced and borderline data-sets. Knowledge-Based Systems, 2013, 38, 85-104.	4.0	70
440	Predicting noise filtering efficacy with data complexity measures for nearest neighbor classification. Pattern Recognition, 2013, 46, 355-364.	5.1	92
441	Improving a fuzzy association rule-based classification model by granularity learning based on heuristic measures over multiple granularities. , 2013, , .		4
442	Addressing covariate shift for Genetic Fuzzy Systems classifiers: A case of study with FARC-HD for imbalanced datasets. , 2013, , .		4
443	A First Approach to Deal with Imbalance in Multi-label Datasets. Lecture Notes in Computer Science, 2013, , 150-160.	1.0	46
444	OWA-FRPS: A Prototype Selection Method Based on Ordered Weighted Average Fuzzy Rough Set Theory. Lecture Notes in Computer Science, 2013, , 180-190.	1.0	13
445	An Experimental Case of Study on the Behavior of Multiple Classifier Systems with Class Noise Datasets. Lecture Notes in Computer Science, 2013, , 568-577.	1.0	0
446	Optimising real parameters using the information of a mesh of solutions: VMO algorithm. , 2012, , .		2
447	A case study on the application of instance selection techniques for Genetic Fuzzy Rule-Based Classifiers. , 2012, , .		3
448	IIVFDT: IGNORANCE FUNCTIONS BASED INTERVAL-VALUED FUZZY DECISION TREE WITH GENETIC TUNING. International Journal of Uncertainty, Fuzziness and Knowlege-Based Systems, 2012, 20, 1-30.	0.9	32
449	Ranking of research output of universities on the basis of the multidimensional prestige of influential fields: Spanish universities as a case of study. Scientometrics, 2012, 93, 1081-1099.	1.6	11
450	SMOTE-RSB *: a hybrid preprocessing approach based on oversampling and undersampling for high imbalanced data-sets using SMOTE and rough sets theory. Knowledge and Information Systems, 2012, 33, 245-265.	2.1	342

#	ARTICLE	IF	CITATIONS
451	Integrating a differential evolution feature weighting scheme into prototype generation. Neurocomputing, 2012, 97, 332-343.	3.5	23
452	Region based memetic algorithm with LS chaining. , 2012, , .		4
453	FEATURE SELECTION AND GRANULARITY LEARNING IN GENETIC FUZZY RULE-BASED CLASSIFICATION SYSTEMS FOR HIGHLY IMBALANCED DATA-SETS. International Journal of Uncertainty, Fuzziness and Knowlege-Based Systems, 2012, 20, 369-397.	0.9	30
454	Study on the Impact of Partition-Induced Dataset Shift on <formula formulatype="inline"><tex Notation="TeX">k</tex></formula>-Fold Cross-Validation. IEEE Transactions on Neural Networks and Learning Systems, 2012, 23, 1304-1312.	7.2	243
455	A Review on Ensembles for the Class Imbalance Problem: Bagging-, Boosting-, and Hybrid-Based Approaches. IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews, 2012, 42, 463-484.	3.3	1,955
456	Group Decision Making with Comparative Linguistic Terms. Communications in Computer and Information Science, 2012, , 181-190.	0.4	2
457	Integrating Instance Selection, Instance Weighting, and Feature Weighting for Nearest Neighbor Classifiers by Coevolutionary Algorithms. IEEE Transactions on Systems, Man, and Cybernetics, 2012, 42, 1383-1397.	5.5	51
458	A Co-evolutionary Framework for Nearest Neighbor Enhancement: Combining Instance and Feature Weighting with Instance Selection. Lecture Notes in Computer Science, 2012, , 176-187.	1.0	1
459	Special Issue on Evolutionary Fuzzy Systems. International Journal of Computational Intelligence Systems, 2012, 5, 209.	1.6	6
460	<scp>SciMAT</scp>: A new science mapping analysis software tool. Journal of the Association for Information Science and Technology, 2012, 63, 1609-1630.	2.6	692
461	A Taxonomy and Experimental Study on Prototype Generation for Nearest Neighbor Classification. IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews, 2012, 42, 86-100.	3.3	215
462	Analysis of new niching genetic algorithms for finding multiple solutions in the job shop scheduling. Journal of Intelligent Manufacturing, 2012, 23, 341-356.	4.4	42
463	Missing data imputation for fuzzy rule-based classification systems. Soft Computing, 2012, 16, 863-881.	2.1	31
464	On the choice of the best imputation methods for missing values considering three groups of classification methods. Knowledge and Information Systems, 2012, 32, 77-108.	2.1	185
465	Shared domains of competence of approximate learning models using measures of separability of classes. Information Sciences, 2012, 185, 43-65.	4.0	22
466	Enhancing evolutionary instance selection algorithms by means of fuzzy rough set based feature selection. Information Sciences, 2012, 186, 73-92.	4.0	102
467	An overview on the 2-tuple linguistic model for computing with words in decision making: Extensions, applications and challenges. Information Sciences, 2012, 207, 1-18.	4.0	424
468	Analysis of preprocessing vs. cost-sensitive learning for imbalanced classification. Open problems on intrinsic data characteristics. Expert Systems With Applications, 2012, 39, 6585-6608.	4.4	248

#	Article	IF	Citations
469	Evolutionary-based selection of generalized instances for imbalanced classification. Knowledge-Based Systems, 2012, 25, 3-12.	4.0	123
470	A unifying view on dataset shift in classification. Pattern Recognition, 2012, 45, 521-530.	5.1	525
471	Hesitant Fuzzy Linguistic Term Sets for Decision Making. IEEE Transactions on Fuzzy Systems, 2012, 20, 109-119.	6.5	1,926
472	Grouping, Overlap, and Generalized Bientropic Functions for Fuzzy Modeling of Pairwise Comparisons. IEEE Transactions on Fuzzy Systems, 2012, 20, 405-415.	6.5	241
473	A Note on the ITS Topic Evolution in the Period 2000â€"2009 at T-ITS. IEEE Transactions on Intelligent Transportation Systems, 2012, 13, 413-420.	4.7	53
474	Prototype Selection for Nearest Neighbor Classification: Taxonomy and Empirical Study. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2012, 34, 417-435.	9.7	611
475	A multi-objective evolutionary algorithm for an effective tuning ofÂfuzzy logic controllers inÂheating, ventilating and air conditioning systems. Applied Intelligence, 2012, 36, 330-347.	3.3	59
476	Hybrid laser pointer detection algorithm based on template matching and fuzzy rule-based systems for domotic control inÂrealÂhome environments. Applied Intelligence, 2012, 36, 407-423.	3.3	14
477	Modeling dynamics of a real-coded CHC algorithm in terms of dynamical probability distributions. Soft Computing, 2012, 16, 331-351.	2.1	1
478	Variable mesh optimization for continuous optimization problems. Soft Computing, 2012, 16, 511-525.	2.1	30
479	Linguistic Fuzzy Rules in Data Mining: Follow-Up Mamdani Fuzzy Modeling Principle. Studies in Fuzziness and Soft Computing, 2012, , 103-122.	0.6	6
480	A First Study on Decomposition Strategies with Data with Class Noise Using Decision Trees. Lecture Notes in Computer Science, 2012, , 25-35.	1.0	8
481	Improving SMOTE with Fuzzy Rough Prototype Selection to Detect Noise in Imbalanced Classification Data. Lecture Notes in Computer Science, 2012, , 169-178.	1.0	11
482	SMOTE-FRST: A NEW RESAMPLING METHOD USING FUZZY ROUGH SET THEORY. World Scientific Proceedings Series on Computer Engineering and Information Science, 2012, , 800-805.	0.1	27
483	Efecto de la agregaciÃ³n de universidades espaÃ±olas en el <i>Ranking de Shanghai</i> (<i>ARWU</i>): caso de las comunidades autÃ³nomas y los campus de excelencia. Profesional De La Informacion, 2012, 21, 428-432.	2.7	15
484	Evolutionary Multi-Objective Algorithm to effectively improve the performance of the classic tuning of fuzzy logic controllers for a heating, ventilating and Air Conditioning system. , 2011, , .		5
485	A case study on medical diagnosis of cardiovascular diseases using a Genetic Algorithm for Tuning Fuzzy Rule-Based Classification Systems with Interval-Valued Fuzzy Sets. , 2011, , .		3
486	Analysis of the impact of using different diversity functions for the subgroup discovery algorithm NMEEF-SD. , 2011, , .		2

#	Article	IF	Citations
487	Fuzzy Rule Based Classification Systems versus crisp robust learners trained in presence of class noise's effects: A case of study. , 2011, , .		11
488	A study of the scaling up capabilities of stratified prototype generation. , 2011, , .		4
489	Evolutionary learning of a laser pointer detection fuzzy system for an environment control system. , 2011, , .		5
490	On the cooperation of interval-valued fuzzy sets and genetic tuning to improve the performance of fuzzy decision trees. , 2011, , .		1
491	Addressing the Classification with Imbalanced Data: Open Problems and New Challenges on Class Distribution. Lecture Notes in Computer Science, 2011, , 1-10.	1.0	39
492	A multi-objective evolutionary algorithm for mining quantitative association rules. , 2011, , .		12
493	A Fuzzy Association Rule-Based Classification Model for High-Dimensional Problems With Genetic Rule Selection and Lateral Tuning. IEEE Transactions on Fuzzy Systems, 2011, 19, 857-872.	6.5	274
494	A methodology for Institution-Field ranking based on a bidimensional analysis: the IFQ 2 A index. Scientometrics, 2011, 88, 771-786.	1.6	36
495	Addressing data complexity for imbalanced data sets: analysis of SMOTE-based oversampling and evolutionary undersampling. Soft Computing, 2011, 15, 1909-1936.	2.1	144
496	Editorial scalability of evolutionary algorithms and other metaheuristics for large-scale continuous optimization problems. Soft Computing, 2011, 15, 2085-2087.	2.1	147
497	Memetic algorithms based on local search chains for large scale continuous optimisation problems: MA-SSW-Chains. Soft Computing, 2011, 15, 2201-2220.	2.1	88
498	Special issue on evolutionary fuzzy systems. Soft Computing, 2011, 15, 2299-2301.	2.1	8
499	Multiobjective genetic fuzzy rule selection of single granularity-based fuzzy classification rules and its interaction with the lateral tuning of membership functions. Soft Computing, 2011, 15, 2303-2318.	2.1	82
500	An overview on subgroup discovery: foundations and applications. Knowledge and Information Systems, 2011, 29, 495-525.	2.1	229
501	Special issue on the trends in applied intelligence systems. Applied Intelligence, 2011, 34, 329-330.	3.3	1
502	Interpretability of linguistic fuzzy rule-based systems: An overview of interpretability measures. Information Sciences, 2011, 181, 4340-4360.	4.0	428
503	Evolutionary selection of hyperrectangles in nested generalized exemplar learning. Applied Soft Computing Journal, 2011, 11, 3032-3045.	4.1	19
504	Differential evolution for optimizing the positioning of prototypes in nearest neighbor classification. Pattern Recognition, 2011, 44, 901-916.	5.1	111

#	Article	IF	Citations
505	Science mapping software tools: Review, analysis, and cooperative study among tools. Journal of the Association for Information Science and Technology, 2011, 62, 1382-1402.	2.6	1,536
506	A genetic tuning to improve the performance of Fuzzy Rule-Based Classification Systems with Interval-Valued Fuzzy Sets: Degree of ignorance and lateral position. International Journal of Approximate Reasoning, 2011, 52, 751-766.	1.9	121
507	An approach for detecting, quantifying, and visualizing the evolution of a research field: A practical application to the Fuzzy Sets Theory field. Journal of Informetrics, 2011, 5, 146-166.	1.4	1,226
508	An overview of ensemble methods for binary classifiers in multi-class problems: Experimental study on one-vs-one and one-vs-all schemes. Pattern Recognition, 2011, 44, 1761-1776.	5.1	599
509	A practical tutorial on the use of nonparametric statistical tests as a methodology for comparing evolutionary and swarm intelligence algorithms. Swarm and Evolutionary Computation, 2011, 1, 3-18.	4.5	4,070
510	Musical genre classification by means of Fuzzy Rule-Based Systems: A preliminary approach. , 2011, , .		6
511	A Fast and Scalable Multiobjective Genetic Fuzzy System for Linguistic Fuzzy Modeling in High-Dimensional Regression Problems. IEEE Transactions on Fuzzy Systems, 2011, 19, 666-681.	6.5	139
512	Studying the behavior of a multiobjective genetic algorithm to design fuzzy rule-based classification systems for imbalanced data-sets. , 2011, , .		2
513	Applying Linguistic OWA Operators in Consensus Models under Unbalanced Linguistic Information. Studies in Fuzziness and Soft Computing, 2011, , 167-186.	0.6	11
514	Enhancing IPADE Algorithm with a Different Individual Codification. Lecture Notes in Computer Science, 2011, , 262-270.	1.0	4
515	A Preliminary Study on the Use of Fuzzy Rough Set Based Feature Selection for Improving Evolutionary Instance Selection Algorithms. Lecture Notes in Computer Science, 2011, , 174-182.	1.0	2
516	A Double Axis Classification of Interpretability Measures for Linguistic Fuzzy Rule-Based Systems. Lecture Notes in Computer Science, 2011, , 99-106.	1.0	4
517	Construction of Interval-Valued Fuzzy Preference Relations Using Ignorance Functions: Interval-Valued Non Dominance Criterion. Advances in Intelligent and Soft Computing, 2011, , 243-255.	0.2	5
518	Hesitant Fuzzy Linguistic Term Sets. Advances in Intelligent and Soft Computing, 2011, , 287-295.	0.2	36
519	*Rankings ISI* de las Universidades Españolas Según Campos Científicos: Descripción y Resultados. Profesional De La Informacion, 2011, 20, 111-122.	2.7	20
520	Rankings *ISI* de las universidades españolas según campos y disciplinas científicas (2ª ed. 2011). Profesional De La Informacion, 2011, 20, 701-711.	2.7	12
521	On the Usefulness of Fuzzy Rule Based Systems Based on Hierarchical Linguistic Fuzzy Partitions. Intelligent Systems Reference Library, 2011, , 155-184.	1.0	0
522	Special Issue on Decision Support Systems based on Computing with Words: Applications. International Journal of Computational Intelligence Systems, 2010, 3, 381-381.	1.6	1

#	Article	IF	Citations
523	Genetic fuzzy systems for subgroup discovery. Models and applications. , 2010, , .		0
524	A web based consensus support system for group decision making problems and incomplete preferences. Information Sciences, 2010, 180, 4477-4495.	4.0	275
525	IFS-CoCo: Instance and feature selection based on cooperative coevolution with nearest neighbor rule. Pattern Recognition, 2010, 43, 2082-2105.	5.1	81
526	Stratified prototype selection based on a steady-state memetic algorithm: a study of scalability. Memetic Computing, 2010, 2, 183-199.	2.7	33
527	hg-index: a new index to characterize the scientific output of researchers based on the h- and g-indices. Scientometrics, 2010, 82, 391-400.	1.6	167
528	Genetics-Based Machine Learning for Rule Induction: State of the Art, Taxonomy, and Comparative Study. IEEE Transactions on Evolutionary Computation, 2010, 14, 913-941.	7.5	137
529	*WoS* query partitioner: A tool to retrieve very large numbers of items from the *Web of Science* using different source€based partitioning approaches. Journal of the Association for Information Science and Technology, 2010, 61, 1582-1597.	2.6	0
530	q2-Index: Quantitative and qualitative evaluation based on the number and impact of papers in the Hirsch core. Journal of Informetrics, 2010, 4, 23-28.	1.4	85
531	Domains of competence of fuzzy rule based classification systems with data complexity measures: A case of study using a fuzzy hybrid genetic based machine learning method. Fuzzy Sets and Systems, 2010, 161, 3-19.	1.6	45
532	Solving multi-class problems with linguistic fuzzy rule based classification systems based on pairwise learning and preference relations. Fuzzy Sets and Systems, 2010, 161, 3064-3080.	1.6	66
533	A study on the use of imputation methods for experimentation with Radial Basis Function Network classifiers handling missing attribute values: The good synergy between RBFNs and EventCovering method. Neural Networks, 2010, 23, 406-418.	3.3	81
534	Analysis of the efficacy of a Two-Stage methodology for ant colony optimization: Case of study with TSP and QAP. Expert Systems With Applications, 2010, 37, 5443-5453.	4.4	48
535	Advanced nonparametric tests for multiple comparisons in the design of experiments in computational intelligence and data mining: Experimental analysis of power. Information Sciences, 2010, 180, 2044-2064.	4.0	1,627
536	On the 2-tuples based genetic tuning performance for fuzzy rule based classification systems in imbalanced data-sets. Information Sciences, 2010, 180, 1268-1291.	4.0	95
537	GP-COACH: Genetic Programming-based learning of COmpact and ACcurate fuzzy rule-based classification systems for High-dimensional problems. Information Sciences, 2010, 180, 1183-1200.	4.0	111
538	Improving the performance of fuzzy rule-based classification systems with interval-valued fuzzy sets and genetic amplitude tuning. Information Sciences, 2010, 180, 3674-3685.	4.0	106
539	A Survey on Evolutionary Instance Selection and Generation. International Journal of Applied Metaheuristic Computing, 2010, 1, 60-92.	0.5	56
540	An extraction method for the characterization of the Fuzzy Rule Based Classification Systems' behavior using data complexity measures: A case of study with FH-GBML. , 2010, , .		1

#	Article	IF	Citations
541	A preliminary study on the use of differential evolution for adjusting the position of examples in nearest neighbor classification. , 2010, , .		5
542	A first approach for cost-sensitive classification with linguistic Genetic Fuzzy Systems in imbalanced data-sets. , 2010, , .		3
543	A preliminary study on overlapping and data fracture in imbalanced domains by means of Genetic Programming-based feature extraction. , 2010, , .		16
544	Memetic Algorithms for Continuous Optimisation Based on Local Search Chains. Evolutionary Computation, 2010, 18, 27-63.	2.3	155
545	MA-SW-Chains: Memetic algorithm based on local search chains for large scale continuous global optimization. , 2010, , .		112
546	IPADE: Iterative Prototype Adjustment for Nearest Neighbor Classification. IEEE Transactions on Neural Networks, 2010, 21, 1984-1990.	4.8	44
547	Analysis of the Effectiveness of the Genetic Algorithms based on Extraction of Association Rules. Fundamenta Informaticae, 2010, 98, 1-14.	0.3	26
548	A bibliometric study about the research based on hybridating the fuzzy logic field and the other computational intelligent techniques: A visual approach. International Journal of Hybrid Intelligent Systems, 2010, 7, 17-32.	0.9	23
549	Computing with Words in Decision support Systems: An overview on Models and Applications. International Journal of Computational Intelligence Systems, 2010, 3, 382-395.	1.6	240
550	A Survey on the Application of Genetic Programming to Classification. IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews, 2010, 40, 121-144.	3.3	435
551	A genetic algorithm for tuning fuzzy rule-based classification systems with Interval-Valued Fuzzy Sets. , 2010, , .		6
552	Genetic tuning of a laser pointer environment control device system for handicapped people with fuzzy systems. , 2010, , .		6
553	NMEEF-SD: Non-dominated Multiobjective Evolutionary Algorithm for Extracting Fuzzy Rules in Subgroup Discovery. IEEE Transactions on Fuzzy Systems, 2010, 18, 958-970.	6.5	102
554	Integration of an Index to Preserve the Semantic Interpretability in the Multiobjective Evolutionary Rule Selection and Tuning of Linguistic Fuzzy Systems. IEEE Transactions on Fuzzy Systems, 2010, 18, 515-531.	6.5	141
555	A fuzzy associative classification system with genetic rule selection for high-dimensional problems. , 2010, , .		0
556	Analysing the Hierarchical Fuzzy Rule Based Classification Systems with genetic rule selection. , 2010, , .		6
557	A first study on the noise impact in classes for Fuzzy Rule Based Classification Systems. , 2010, , .		4
558	Multi-class Imbalanced Data-Sets with Linguistic Fuzzy Rule Based Classification Systems Based on Pairwise Learning. Lecture Notes in Computer Science, 2010, , 89-98.	1.0	31

#	Article	IF	Citations
559	Computing with Words in Decision support Systems: An overview on Models and Applications. International Journal of Computational Intelligence Systems, 2010, 3, 382.	1.6	50
560	On the Use of Distributed Genetic Algorithms for the Tuning of Fuzzy Rule Based-Systems. Studies in Computational Intelligence, 2010, , 235-261.	0.7	1
561	Analysis of the Performance of a Semantic Interpretability-Based Tuning and Rule Selection of Fuzzy Rule-Based Systems by Means of a Multi-Objective Evolutionary Algorithm. Lecture Notes in Computer Science, 2010, , 228-238.	1.0	0
562	IFS-CoCo in the Landscape Contest: Description and Results. Lecture Notes in Computer Science, 2010, , 56-65.	1.0	1
563	An analysis of evolutionary algorithms with different types of fuzzy rules in subgroup discovery. , 2009, , .		5
564	Memetic Algorithm with Local Search Chaining for Continuous Optimization Problems: A Scalability Test. , 2009, , .		16
565	A genetic learning of the fuzzy rule-based classification system granularity for highly imbalanced data-sets. , 2009, , .		5
566	DIAGNOSE EFFECTIVE EVOLUTIONARY PROTOTYPE SELECTION USING AN OVERLAPPING MEASURE. International Journal of Pattern Recognition and Artificial Intelligence, 2009, 23, 1527-1548.	0.7	22
567	A Multiobjective Evolutionary Approach to Concurrently Learn Rule and Data Bases of Linguistic Fuzzy-Rule-Based Systems. IEEE Transactions on Fuzzy Systems, 2009, 17, 1106-1122.	6.5	153
568	Fuzzy Evolutionary Algorithms and Genetic Fuzzy Systems: A Positive Collaboration between Evolutionary Algorithms and Fuzzy Systems. Intelligent Systems Reference Library, 2009, , 83-130.	1.0	8
569	INDIVIDUAL AND SOCIAL STRATEGIES TO DEAL WITH IGNORANCE SITUATIONS IN MULTI-PERSON DECISION MAKING. International Journal of Information Technology and Decision Making, 2009, 08, 313-333.	2.3	89
570	Group decision making with incomplete fuzzy linguistic preference relations. International Journal of Intelligent Systems, 2009, 24, 201-222.	3.3	248
571	Hybrid crossover operators with multiple descendents for real-coded genetic algorithms: Combining neighborhood-based crossover operators. International Journal of Intelligent Systems, 2009, 24, 540-567.	3.3	22
572	A study of the use of multiâ€‘objective evolutionary algorithms to learn Boolean queries: A comparative study. Journal of the Association for Information Science and Technology, 2009, 60, 1192-1207.	2.6	10
573	KEEL: a software tool to assess evolutionary algorithms for data mining problems. Soft Computing, 2009, 13, 307-318.	2.1	1,165
574	Adaptation and application of multi-objective evolutionary algorithms for rule reduction and parameter tuning of fuzzy rule-based systems. Soft Computing, 2009, 13, 419-436.	2.1	121
575	A study of statistical techniques and performance measures for genetics-based machine learning: accuracy and interpretability. Soft Computing, 2009, 13, 959-977.	2.1	563
576	Improving fuzzy logic controllers obtained by experts: a case study in HVAC systems. Applied Intelligence, 2009, 31, 15-30.	3.3	46

#	Article	IF	Citations
577	h-Index: A review focused in its variants, computation and standardization for different scientific fields. Journal of Informetrics, 2009, 3, 273-289.	1.4	625
578	On the influence of an adaptive inference system in fuzzy rule based classification systems for imbalanced data-sets. Expert Systems With Applications, 2009, 36, 9805-9812.	4.4	55
579	Computing with words in decision making: foundations, trends and prospects. Fuzzy Optimization and Decision Making, 2009, 8, 337-364.	3.4	426
580	Computing with words and decision making. Fuzzy Optimization and Decision Making, 2009, 8, 323-324.	3.4	14
581	A study on the use of non-parametric tests for analyzing the evolutionary algorithms' behaviour: aÂcase study onÂtheÂCECâ€™2005 Special Session onÂReal Parameter Optimization. Journal of Heuristics, 2009, 15, 617-644.	1.1	1,454
582	Evolutionary parallel and gradually distributed lateral tuning of fuzzy rule-based systems. Evolutionary Intelligence, 2009, 2, 5-19.	2.3	20
583	A study on the use of statistical tests for experimentation with neural networks: Analysis of parametric test conditions and non-parametric tests. Expert Systems With Applications, 2009, 36, 7798-7808.	4.4	127
584	Learning the membership function contexts for mining fuzzy association rules by using genetic algorithms. Fuzzy Sets and Systems, 2009, 160, 905-921.	1.6	154
585	Applying multi-objective evolutionary algorithms to the automatic learning of extended Boolean queries in fuzzy ordinal linguistic information retrieval systems. Fuzzy Sets and Systems, 2009, 160, 2192-2205.	1.6	17
586	Hierarchical fuzzy rule based classification systems with genetic rule selection for imbalanced data-sets. International Journal of Approximate Reasoning, 2009, 50, 561-577.	1.9	166
587	Enhancing the effectiveness and interpretability of decision tree and rule induction classifiers with evolutionary training set selection over imbalanced problems. Applied Soft Computing Journal, 2009, 9, 1304-1314.	4.1	87
588	Evolutionary algorithms for subgroup discovery in e-learning: A practical application using Moodle data. Expert Systems With Applications, 2009, 36, 1632-1644.	4.4	80
589	A fuzzy model to evaluate the suitability of installing an enterprise resource planning system. Information Sciences, 2009, 179, 2333-2341.	4.0	21
590	Cardinal Consistency of Reciprocal Preference Relations: A Characterization of Multiplicative Transitivity. IEEE Transactions on Fuzzy Systems, 2009, 17, 14-23.	6.5	383
591	Evolutionary Undersampling for Classification with Imbalanced Datasets: Proposals and Taxonomy. Evolutionary Computation, 2009, 17, 275-306.	2.3	312
592	Generating single granularity-based fuzzy classification rules for multiobjective genetic fuzzy rule selection. , 2009, , .		11
593	Addressing Data-Complexity for Imbalanced Data-Sets: A Preliminary Study on the Use of Preprocessing for C4.5. , 2009, , .		6
594	Handling High-Dimensional Regression Problems by Means of an Efficient Multi-Objective Evolutionary Algorithm. , 2009, , .		4

#	ARTICLE	IF	CITATIONS
595	Memetic algorithm with Local search chaining for large scale continuous optimization problems. , 2009, , .		15
596	A First Approach to Nearest Hyperrectangle Selection by Evolutionary Algorithms. , 2009, , .		7
597	Non-dominated Multi-objective Evolutionary Algorithm Based on Fuzzy Rules Extraction for Subgroup Discovery. Lecture Notes in Computer Science, 2009, , 573-580.	1.0	10
598	A First Study on the Use of Coevolutionary Algorithms for Instance and Feature Selection. Lecture Notes in Computer Science, 2009, , 557-564.	1.0	53
599	A First Study on the Use of Interval-Valued Fuzzy Sets with Genetic Tuning for Classification with Imbalanced Data-Sets. Lecture Notes in Computer Science, 2009, , 581-588.	1.0	2
600	Evolutionary Extraction of Association Rules: A Preliminary Study on their Effectiveness. Lecture Notes in Computer Science, 2009, , 646-653.	1.0	3
601	Improving the Performance of Fuzzy Rule Based Classification Systems for Highly Imbalanced Data-Sets Using an Evolutionary Adaptive Inference System. Lecture Notes in Computer Science, 2009, , 294-301.	1.0	3
602	Implementation and Integration of Algorithms into the KEEL Data-Mining Software Tool. Lecture Notes in Computer Science, 2009, , 562-569.	1.0	3
603	Domains of Competence of Artificial Neural Networks Using Measures of Separability of Classes. Lecture Notes in Computer Science, 2009, , 81-88.	1.0	0
604	A Preliminar Analysis of CO2RBFN in Imbalanced Problems. Lecture Notes in Computer Science, 2009, , 57-64.	1.0	0
605	Study of the Influence of the Local Search Method in Memetic Algorithms for Large Scale Continuous Optimization Problems. Lecture Notes in Computer Science, 2009, , 221-234.	1.0	0
606	Agregación de índices bibliométricos para evaluar la producción científica de los investigadores. Profesional De La Informacion, 2009, 18, 559-562.	2.7	8
607	Making CN2-SD subgroup discovery algorithm scalable to large size data sets using instance selection. Expert Systems With Applications, 2008, 35, 1949-1965.	4.4	18
608	Genetic fuzzy systems: taxonomy, current research trends and prospects. Evolutionary Intelligence, 2008, 1, 27-46.	2.3	509
609	Real-parameter crossover operators with multiple descendents: An experimental study. International Journal of Intelligent Systems, 2008, 23, 246-268.	3.3	8
610	A consistency-based procedure to estimate missing pairwise preference values. International Journal of Intelligent Systems, 2008, 23, 155-175.	3.3	251
611	A memetic algorithm for evolutionary prototype selection: A scaling up approach. Pattern Recognition, 2008, 41, 2693-2709.	5.1	162
612	Global and local real-coded genetic algorithms based on parent-centric crossover operators. European Journal of Operational Research, 2008, 185, 1088-1113.	3.5	288

#	Article	IF	Citations
613	Replacement strategies to preserve useful diversity in steady-state genetic algorithms. Information Sciences, 2008, 178, 4421-4433.	4.0	140
614	Subgroup discover in large size data sets preprocessed using stratified instance selection for increasing the presence of minority classes. Pattern Recognition Letters, 2008, 29, 2156-2164.	2.6	27
615	A study of the behaviour of linguistic fuzzy rule based classification systems in the framework of imbalanced data-sets. Fuzzy Sets and Systems, 2008, 159, 2378-2398.	1.6	250
616	A NOTE ON THE ESTIMATION OF MISSING PAIRWISE PREFERENCE VALUES: A UNINORM CONSISTENCY BASED METHOD. International Journal of Uncertainty, Fuzziness and Knowledge-Based Systems, 2008, 16, 19-32.	0.9	47
617	A Multiobjective Evolutionary Conceptual Clustering Methodology for Gene Annotation Within Structural Databases: A Case of Study on the <i>Gene Ontology</i> Database. IEEE Transactions on Evolutionary Computation, 2008, 12, 679-701.	7.5	33
618	A Multiobjective Evolutionary Algorithm for spam e-mail filtering. , 2008, , .		7
619	A Fuzzy Linguistic Methodology to Deal With Unbalanced Linguistic Term Sets. IEEE Transactions on Fuzzy Systems, 2008, 16, 354-370.	6.5	494
620	KEEL: A data mining software tool integrating genetic fuzzy systems. , 2008, , .		10
621	Evolutionary Training Set Selection to Optimize C4.5 in Imbalanced Problems. , 2008, , .		1
622	A Short Study on the Use of Genetic 2-Tuples Tuning for Fuzzy Rule Based Classification Systems in Imbalanced Data-Sets. , 2008, , .		1
623	A novel genetic cooperative-competitive fuzzy rule based learning method using genetic programming for high dimensional problems. , 2008, , .		5
624	Construction of consistent fuzzy preference relations using uninorms. , 2008, , .		0
625	Subgroup Discovery with Linguistic Rules. , 2008, , 411-430.		2
626	On the Usefulness of MOEAs for Getting Compact FRBSs Under Parameter Tuning and Rule Selection. Studies in Computational Intelligence, 2008, , 91-107.	0.7	7
627	Design of Experiments in Computational Intelligence: On the Use of Statistical Inference. Lecture Notes in Computer Science, 2008, , 4-14.	1.0	1
628	Memetic Algorithm for Intense Local Search Methods Using Local Search Chains. Lecture Notes in Computer Science, 2008, , 58-71.	1.0	8
629	A SELECTION PROCESS TO DEAL WITH INCOMPLETE FUZZY PREFERENCE RELATIONS IN A 2-TUPLE FUZZY LINGUISTIC APPROACH. , 2008, , .		0
630	Knowledge Base Learning of Linguistic Fuzzy Rule-Based Systems in a Multi-objective Evolutionary Framework. Lecture Notes in Computer Science, 2008, , 747-754.	1.0	2

#	ARTICLE	IF	CITATIONS
631	Genetic Learning of Membership Functions for Mining Fuzzy Association Rules. IEEE International Conference on Fuzzy Systems, 2007, , .	0.0	10
632	Consistency of Reciprocal Preference Relations. IEEE International Conference on Fuzzy Systems, 2007, , .	0.0	2
633	Visualizing Consensus in Group Decision Making Situations. IEEE International Conference on Fuzzy Systems, 2007, , .	0.0	11
634	A Proposal for the Genetic Lateral Tuning of Linguistic Fuzzy Systems and Its Interaction With Rule Selection. IEEE Transactions on Fuzzy Systems, 2007, 15, 616-635.	6.5	164
635	Niching genetic feature selection algorithms applied to the design of fuzzy rule-based classification systems. IEEE International Conference on Fuzzy Systems, 2007, , .	0.0	9
636	A Multi-Objective Evolutionary Algorithm for Rule Selection and Tuning on Fuzzy Rule-Based Systems. IEEE International Conference on Fuzzy Systems, 2007, , .	0.0	10
637	Evolutionary Fuzzy Rule Induction Process for Subgroup Discovery: A Case Study in Marketing. IEEE Transactions on Fuzzy Systems, 2007, 15, 578-592.	6.5	81
638	Group Decision-Making Model With Incomplete Fuzzy Preference Relations Based on Additive Consistency. IEEE Transactions on Systems, Man, and Cybernetics, 2007, 37, 176-189.	5.5	515
639	Multiobjective Genetic Algorithm for Extracting Subgroup Discovery Fuzzy Rules. , 2007, , .		30
640	Cooperative Evolutionary Learning of Linguistic Fuzzy Rules and Parametric Aggregation Connectors for Mamdani Fuzzy Systems. IEEE Transactions on Fuzzy Systems, 2007, 15, 1162-1178.	6.5	40
641	A MULTI-OBJECTIVE GENETIC ALGORITHM FOR TUNING AND RULE SELECTION TO OBTAIN ACCURATE AND COMPACT LINGUISTIC FUZZY RULE-BASED SYSTEMS. International Journal of Uncertainty, Fuzziness and Knowlege-Based Systems, 2007, 15, 539-557.	0.9	109
642	A Consensus Model for Group Decision Making With Incomplete Fuzzy Preference Relations. IEEE Transactions on Fuzzy Systems, 2007, 15, 863-877.	6.5	574
643	Local identification of prototypes for genetic learning of accurate TSK fuzzy rule-based systems. International Journal of Intelligent Systems, 2007, 22, 909-941.	3.3	54
644	Increasing fuzzy rules cooperation based on evolutionary adaptive inference systems. International Journal of Intelligent Systems, 2007, 22, 1035-1064.	3.3	45
645	Genetic learning of accurate and compact fuzzy rule based systems based on the 2-tuples linguistic representation. International Journal of Approximate Reasoning, 2007, 44, 45-64.	1.9	104
646	Some induced ordered weighted averaging operators and their use for solving group decision-making problems based on fuzzy preference relations. European Journal of Operational Research, 2007, 182, 383-399.	3.5	318
647	Evolutionary stratified training set selection for extracting classification rules with trade off precision-interpretability. Data and Knowledge Engineering, 2007, 60, 90-108.	2.1	87
648	A taxonomy and an empirical analysis of multiple objective ant colony optimization algorithms for the bi-criteria TSP. European Journal of Operational Research, 2007, 180, 116-148.	3.5	254

#	Article	IF	Citations
649	A Study on the Use of Statistical Tests for Experimentation with Neural Networks. , 2007, , 72-79.		3
650	An Analysis of the Rule Weights and Fuzzy Reasoning Methods for Linguistic Rule Based Classification Systems Applied to Problems with Highly Imbalanced Data Sets. Lecture Notes in Computer Science, 2007, , 170-178.	1.0	5
651	Multi-objective Evolutionary Algorithms in the Automatic Learning of Boolean Queries: A Comparative Study. , 2007, , 71-80.		0
652	New Consistency Properties for Preference Relations. , 2006, , 121-131.		0
653	A Linguistic Hierarchical Evaluation Model for Engineering Systems. , 2006, , 295-305.		0
654	Continuous scatter search: An analysis of the integration of some combination methods and improvement strategies. European Journal of Operational Research, 2006, 169, 450-476.	3.5	60
655	On the combination of evolutionary algorithms and stratified strategies for training set selection in data mining. Applied Soft Computing Journal, 2006, 6, 323-332.	4.1	76
656	New trends in the fuzzy modeling part I: novel approaches. Soft Computing, 2006, 10, 715-716.	2.1	0
657	Hybrid learning models to get the interpretabilityâ€"accuracy trade-off in fuzzy modeling. Soft Computing, 2006, 10, 717-734.	2.1	82
658	New trends in fuzzy modeling. part II: applications. Soft Computing, 2006, 10, 865-865.	2.1	0
659	Rule Base Reduction and Genetic Tuning of Fuzzy Systems Based on the Linguistic 3-tuples Representation. Soft Computing, 2006, 11, 401-419.	2.1	45
660	Fuzzy Rule Reduction and Tuning of Fuzzy Logic Controllers for a HVAC System. , 2006, , 89-117.		4
661	Multiobjective Evolutionary Induction of Subgroup Discovery Fuzzy Rules: A Case Study in Marketing. Lecture Notes in Computer Science, 2006, , 337-349.	1.0	31
662	Strategies to Manage Ignorance Situations in Multiperson Decision Making Problems. Lecture Notes in Computer Science, 2006, , 34-45.	1.0	1
663	Improving Fuzzy Rule-Based Decision Models by Means of a Genetic 2-Tuples Based Tuning and the Rule Selection. Lecture Notes in Computer Science, 2006, , 317-328.	1.0	0
664	Incorporating Knowledge in Evolutionary Prototype Selection. Lecture Notes in Computer Science, 2006, , 1358-1366.	1.0	0
665	A Genetic-Programming-Based Approach for the Learning of Compact Fuzzy Rule-Based Classification Systems. Lecture Notes in Computer Science, 2006, , 182-191.	1.0	4
666	Genetic Lateral and Amplitude Tuning with Rule Selection for Fuzzy Control of Heating, Ventilating and Air Conditioning Systems. Lecture Notes in Computer Science, 2006, , 452-461.	1.0	0

#	Article	IF	Citations
667	AN INTERACTIVE SUPPORT SYSTEM TO AID EXPERTS TO EXPRESS CONSISTENT PREFERENCES. , 2006, , .		2
668	Stratification for scaling up evolutionary prototype selection. Pattern Recognition Letters, 2005, 26, 953-963.	2.6	105
669	Managing non-homogeneous information in group decision making. European Journal of Operational Research, 2005, 166, 115-132.	3.5	569
670	Learning cooperative linguistic fuzzy rules using the best-worst ant system algorithm. International Journal of Intelligent Systems, 2005, 20, 433-452.	3.3	39
671	A multigranular hierarchical linguistic model for design evaluation based on safety and cost analysis. International Journal of Intelligent Systems, 2005, 20, 1161-1194.	3.3	80
672	A genetic rule weighting and selection process for fuzzy control of heating, ventilating and air conditioning systems. Engineering Applications of Artificial Intelligence, 2005, 18, 279-296.	4.3	100
673	Editorial Real coded genetic algorithms. Soft Computing, 2005, 9, 223-224.	2.1	3
674	Hybrid crossover operators for real-coded genetic algorithms: an experimental study. Soft Computing, 2005, 9, 280-298.	2.1	84
675	Strategies for Scaling Up Evolutionary Instance Reduction Algorithms for Data Mining. , 2005, , 21-39.		4
676	Genetic tuning of fuzzy rule deep structures preserving interpretability and its interaction with fuzzy rule set reduction. IEEE Transactions on Fuzzy Systems, 2005, 13, 13-29.	6.5	203
677	Replacement Strategies to Maintain Useful Diversity in Steady-State Genetic Algorithms. , 2005, , 85-96.		5
678	Genetic Fuzzy Systems: Status, Critical Considerations and Future Directions. International Journal of Computational Intelligence Research, 2005, 1, .	0.3	96
679	A Study on the Combination of Evolutionary Algorithms and Stratified Strategies for Training Set Selection in Data Mining. , 2005, , 271-284.		5
680	A Study on the Evolutionary Adaptive Defuzzification Methods in Fuzzy Modeling. International Journal of Hybrid Intelligent Systems, 2004, 1, 36-48.	0.9	16
681	A Multi-granular Linguistic Decision Model for Evaluating the Quality of Network Services. , 2004, , 71-91.		3
682	A Learning Procedure to Estimate Missing Values in Fuzzy Preference Relations Based on Additive Consistency. Lecture Notes in Computer Science, 2004, , 227-238.	1.0	24
683	Incorporating filtering techniques in a fuzzy linguistic multi-agent model for information gathering on the web. Fuzzy Sets and Systems, 2004, 148, 61-83.	1.6	90
684	Some issues on consistency of fuzzy preference relations. European Journal of Operational Research, 2004, 154, 98-109.	3.5	880

#	Article	IF	Citations
685	Genetic fuzzy systems. New developments. Fuzzy Sets and Systems, 2004, 141, 1-3.	1.6	27
686	Ten years of genetic fuzzy systems: current framework and new trends. Fuzzy Sets and Systems, 2004, 141, 5-31.	1.6	705
687	Induced ordered weighted geometric operators and their use in the aggregation of multiplicative preference relations. International Journal of Intelligent Systems, 2004, 19, 233-255.	3.3	127
688	Real-Coded Memetic Algorithms with Crossover Hill-Climbing. Evolutionary Computation, 2004, 12, 273-302.	2.3	285
689	An Empirical Analysis of Multiple Objective Ant Colony Optimization Algorithms for the Bi-criteria TSP. Lecture Notes in Computer Science, 2004, , 61-72.	1.0	24
690	Information Gathering on the Internet Using a Distributed Intelligent Agent Model with Multi-Granular Linguistic Information. Studies in Fuzziness and Soft Computing, 2004, , 95-115.	0.6	2
691	Finding multiple solutions in job shop scheduling by niching genetic algorithms. Journal of Intelligent Manufacturing, 2003, 14, 323-339.	4.4	35
692	Fuzzy adaptive genetic algorithms: design, taxonomy, and future directions. Soft Computing, 2003, 7, 545-562.	2.1	95
693	A taxonomy for the crossover operator for real-coded genetic algorithms: An experimental study. International Journal of Intelligent Systems, 2003, 18, 309-338.	3.3	301
694	A study of the origin and uses of the ordered weighted geometric operator in multicriteria decision making. International Journal of Intelligent Systems, 2003, 18, 689-707.	3.3	127
695	Preference modeling and applications: EUROFUSE 2001. International Journal of Intelligent Systems, 2003, 18, 709-710.	3.3	1
696	A hierarchical knowledge-based environment for linguistic modeling: models and iterative methodology. Fuzzy Sets and Systems, 2003, 138, 307-341.	1.6	33
697	A note on the reciprocity in the aggregation of fuzzy preference relations using OWA operators. Fuzzy Sets and Systems, 2003, 137, 71-83.	1.6	106
698	Linguistic modeling with hierarchical systems of weighted linguistic rules. International Journal of Approximate Reasoning, 2003, 32, 187-215.	1.9	27
699	Multicriteria Genetic Tuning for the Optimization and Control of HVAC Systems. Studies in Fuzziness and Soft Computing, 2003, , 308-345.	0.6	0
700	Using evolutionary algorithms as instance selection for data reduction in KDD: an experimental study. IEEE Transactions on Evolutionary Computation, 2003, 7, 561-575.	7.5	275
701	A Multiobjective Genetic Algorithm for Feature Selection and Data Base Learning in Fuzzy-Rule Based Classification Systems. , 2003, , 315-326.		2
702	Combining Rule Weight Learning and Rule Selection to Obtain Simpler and More Accurate Linguistic Fuzzy Models. Lecture Notes in Computer Science, 2003, , 44-63.	1.0	6

#	Article	IF	Citations
703	A Multiobjective Genetic Learning Process for joint Feature Selection and Granularity and Contexts Learning in Fuzzy Rule-Based Classification Systems. Studies in Fuzziness and Soft Computing, 2003, , 79-99.	0.6	19
704	Linguistic modeling with weighted double-consequent fuzzy rules based on cooperative coevolutionary learning. Integrated Computer-Aided Engineering, 2003, 10, 343-355.	2.5	18
705	Interpretability Improvements to Find the Balance Interpretability-Accuracy in Fuzzy Modeling: An Overview. Studies in Fuzziness and Soft Computing, 2003, , 3-22.	0.6	74
706	Accuracy Improvements to Find the Balance Interpretability-Accuracy in Linguistic Fuzzy Modeling: An Overview. Studies in Fuzziness and Soft Computing, 2003, , 3-24.	0.6	31
707	COR Methodology: A Simple Way to Obtain Linguistic Fuzzy Models with Good Interpretability and Accuracy. Studies in Fuzziness and Soft Computing, 2003, , 27-45.	0.6	8
708	Applying Rule Weight Derivation to Obtain Cooperative Rules. , 2003, , 139-147.		0
709	An Iterative Learning Methodology to Design Hierarchical Systems of Linguistic Rules for Linguistic Modeling. Studies in Fuzziness and Soft Computing, 2003, , 277-301.	0.6	0
710	Combining Heterogeneous Information in Group Decision Making. , 2003, , 81-92.		1
711	A Prediction System for Cardiovascularity Diseases Using Genetic Fuzzy Rule-Based Systems. Lecture Notes in Computer Science, 2002, , 381-391.	1.0	6
712	A GRASP Algorithm for Clustering. Lecture Notes in Computer Science, 2002, , 214-223.	1.0	10
713	Multiple Crossover per Couple with Selection of the Two Best Offspring: An Experimental study with the BLX-α Crossover Operator for Real-Coded Genetic Algorithms. Lecture Notes in Computer Science, 2002, , 392-401.	1.0	16
714	Linguistic modeling by hierarchical systems of linguistic rules. IEEE Transactions on Fuzzy Systems, 2002, 10, 2-20.	6.5	177
715	A consensus model for multiperson decision making with different preference structures. IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans, 2002, 32, 394-402.	3.4	627
716	COR: a methodology to improve ad hoc data-driven linguistic rule learning methods by inducing cooperation among rules. IEEE Transactions on Systems, Man, and Cybernetics, 2002, 32, 526-537.	5.5	77
717	A communication model based on the 2-tuple fuzzy linguistic representation for a distributed intelligent agent system on Internet. Soft Computing, 2002, 6, 320-328.	2.1	93
718	A linguistic decision model for promotion mix management solved with genetic algorithms. Fuzzy Sets and Systems, 2002, 131, 47-61.	1.6	39
719	A note on the internal consistency of various preference representations. Fuzzy Sets and Systems, 2002, 131, 75-78.	1.6	95
720	Analysis of the Best-Worst Ant System and Its Variants on the QAP. Lecture Notes in Computer Science, 2002, , 228-234.	1.0	22

#	Article	IF	Citations
721	Cooperative Coevolution for Learning Fuzzy Rule-Based Systems. Lecture Notes in Computer Science, 2002, , 311-322.	1.0	7
722	The Ordered Weighted Geometric Operator: Properties and Application in MCDM Problems. Studies in Fuzziness and Soft Computing, 2002, , 173-183.	0.6	19
723	Representation Models for Aggregating Linguistic Information: Issues and Analysis. Studies in Fuzziness and Soft Computing, 2002, , 245-259.	0.6	5
724	Improving Simple Linguistic Fuzzy Models by Means of the Weighted COR Methodology. Lecture Notes in Computer Science, 2002, , 294-302.	1.0	6
725	Different Approaches to Induce Cooperation in Fuzzy Linguistic Models Under the COR Methodology. Studies in Fuzziness and Soft Computing, 2002, , 321-334.	0.6	6
726	Techniques for Designing and RefiningLinguistic Fuzzy Models to Improve Their Accuracy. , 2002, , .		0
727	THE 2-TUPLE LINGUISTIC COMPUTATIONAL MODEL: ADVANTAGES OF ITS LINGUISTIC DESCRIPTION, ACCURACY AND CONSISTENCY. International Journal of Uncertainty, Fuzziness and Knowlege-Based Systems, 2001, 09, 33-48.	0.9	224
728	A model based on linguistic 2-tuples for dealing with multigranular hierarchical linguistic contexts in multi-expert decision-making. IEEE Transactions on Systems, Man, and Cybernetics, 2001, 31, 227-234.	5.5	767
729	Adaptive genetic operators based on coevolution with fuzzy behaviors. IEEE Transactions on Evolutionary Computation, 2001, 5, 149-165.	7.5	66
730	Generating the knowledge base of a fuzzy rule-based system by the genetic learning of the data base. IEEE Transactions on Fuzzy Systems, 2001, 9, 667-674.	6.5	251
731	Feature Selection Algorithms Applied to Parkinson's Disease. Lecture Notes in Computer Science, 2001, , 195-200.	1.0	3
732	Integrating multiplicative preference relations in a multipurpose decision-making model based on fuzzy preference relations. Fuzzy Sets and Systems, 2001, 122, 277-291.	1.6	471
733	Hybridizing genetic algorithms with sharing scheme and evolution strategies for designing approximate fuzzy rule-based systems. Fuzzy Sets and Systems, 2001, 118, 235-255.	1.6	92
734	A linguistic decision model for personnel management solved with a linguistic biobjective genetic algorithm. Fuzzy Sets and Systems, 2001, 118, 47-64.	1.6	51
735	Multiperson decision-making based on multiplicative preference relations. European Journal of Operational Research, 2001, 129, 372-385.	3.5	416
736	Fuzzy modeling by hierarchically built fuzzy rule bases. International Journal of Approximate Reasoning, 2001, 27, 61-93.	1.9	14
737	Recent advances in genetic fuzzy systems. Information Sciences, 2001, 136, 1-5.	4.0	16
738	A genetic learning process for the scaling factors, granularity and contexts of the fuzzy rule-based system data base. Information Sciences, 2001, 136, 85-107.	4.0	93

#	Article	IF	Citations
739	Genetic feature selection in a fuzzy rule-based classification system learning process for high-dimensional problems. Information Sciences, 2001, 136, 135-157.	4.0	114
740	Choice functions and mechanisms for linguistic preference relations. European Journal of Operational Research, 2000, 120, 144-161.	3.5	316
741	Searching for basic properties obtaining robust implication operators in fuzzy control. Fuzzy Sets and Systems, 2000, 111, 237-251.	1.6	22
742	A fusion approach for managing multi-granularity linguistic term sets in decision making. Fuzzy Sets and Systems, 2000, 114, 43-58.	1.6	716
743	Linguistic decision analysis: steps for solving decision problems under linguistic information. Fuzzy Sets and Systems, 2000, 115, 67-82.	1.6	1,342
744	Analysis and guidelines to obtain a good uniform fuzzy partition granularity for fuzzy rule-based systems using simulated annealing. International Journal of Approximate Reasoning, 2000, 25, 187-215.	1.9	101
745	Two-Loop Real-Coded Genetic Algorithms with Adaptive Control of Mutation Step Sizes. Applied Intelligence, 2000, 13, 187-204.	3.3	39
746	Learning and Tuning Fuzzy Rule-Based Systems for Linguistic Modeling. , 2000, , 889-941.		14
747	AN APPROACH FOR COMBINING LINGUISTIC AND NUMERICAL INFORMATION BASED ON THE 2-TUPLE FUZZY LINGUISTIC REPRESENTATION MODEL IN DECISION-MAKING. International Journal of Uncertainty, Fuzziness and Knowlege-Based Systems, 2000, 08, 539-562.	0.9	399
748	Adaptive Control of the Mutation Probability by Fuzzy Logic Controllers. Lecture Notes in Computer Science, 2000, , 335-344.	1.0	6
749	Gradual distributed real-coded genetic algorithms. IEEE Transactions on Evolutionary Computation, 2000, 4, 43-63.	7.5	228
750	A proposal for improving the accuracy of linguistic modeling. IEEE Transactions on Fuzzy Systems, 2000, 8, 335-344.	6.5	127
751	A 2-tuple fuzzy linguistic representation model for computing with words. IEEE Transactions on Fuzzy Systems, 2000, 8, 746-752.	6.5	2,161
752	Different Proposals to Improve the Accuracy of Fuzzy Linguistic Modeling. , 2000, , 189-221.		1
753	Solving an assignment–selection problem with verbal information and using genetic algorithms. European Journal of Operational Research, 1999, 119, 326-337.	3.5	24
754	A proposal on reasoning methods in fuzzy rule-based classification systems. International Journal of Approximate Reasoning, 1999, 20, 21-45.	1.9	336
755	Solving Electrical Distribution Problems Using Hybrid Evolutionary Data Analysis Techniques. Applied Intelligence, 1999, 10, 5-24.	3.3	91
756	ALM: A Methodology for Designing Accurate Linguistic Models for Intelligent Data Analysis. Lecture Notes in Computer Science, 1999, , 15-26.	1.0	0

#	Article	IF	Citations
757	Hierarchical distributed genetic algorithms. International Journal of Intelligent Systems, 1999, 14, 1099-1121.	3.3	46
758	MOGUL: A methodology to obtain genetic fuzzy rule-based systems under the iterative rule learning approach. International Journal of Intelligent Systems, 1999, 14, 1123-1153.	3.3	103
759	A two-stage evolutionary process for designing TSK fuzzy rule-based systems. IEEE Transactions on Systems, Man, and Cybernetics, 1999, 29, 703-715.	5.5	94
760	MOGUL: A methodology to obtain genetic fuzzy ruleâ€based systems under the iterative rule learning approach. International Journal of Intelligent Systems, 1999, 14, 1123-1153.	3.3	6
761	Aggregation of Linguistic Information Based on a Symbolic Approach. Studies in Fuzziness and Soft Computing, 1999, , 428-440.	0.6	9
762	Encouraging Cooperation in the Genetic Iterative Rule Learning Approach for Qualitative Modeling. Studies in Fuzziness and Soft Computing, 1999, , 95-117.	0.6	7
763	A Linguistic Decision Model to Suppliers Selection in International Purchasing. Studies in Fuzziness and Soft Computing, 1999, , 500-524.	0.6	5
764	Combining numerical and linguistic information in group decision making. Information Sciences, 1998, 107, 177-194.	4.0	285
765	Tackling Real-Coded Genetic Algorithms: Operators and Tools for Behavioural Analysis. Artificial Intelligence Review, 1998, 12, 265-319.	9.7	905
766	Dynamic and heuristic fuzzy connectives-based crossover operators for controlling the diversity and convergence of real-coded genetic algorithms. International Journal of Intelligent Systems, 1998, 11, 1013-1040.	3.3	29
767	Genetic learning of fuzzy rule-based classification systems cooperating with fuzzy reasoning methods. International Journal of Intelligent Systems, 1998, 13, 1025-1053.	3.3	94
768	Introduction: Genetic fuzzy systems. International Journal of Intelligent Systems, 1998, 13, 887-890.	3.3	9
769	Choice processes for non-homogeneous group decision making in linguistic setting. Fuzzy Sets and Systems, 1998, 94, 287-308.	1.6	116
770	Integrating three representation models in fuzzy multipurpose decision making based on fuzzy preference relations. Fuzzy Sets and Systems, 1998, 97, 33-48.	1.6	689
771	A learning process for fuzzy control rules using genetic algorithms. Fuzzy Sets and Systems, 1998, 100, 143-158.	1.6	162
772	Hybrid distributed real-coded genetic algorithms. Lecture Notes in Computer Science, 1998, , 603-612.	1.0	9
773	Genetic learning of fuzzy ruleâ€based classification systems cooperating with fuzzy reasoning methods. International Journal of Intelligent Systems, 1998, 13, 1025-1053.	3.3	24
774	A CLASSIFIED REVIEW ON THE COMBINATION FUZZY LOGICâ€"GENETIC ALGORITHMS BIBLIOGRAPHY: 1989â€"1995. Advances in Fuzzy Systems, 1997, , 209-240.	8.7	24

#	Article	IF	Citations
775	Heterogeneous distributed genetic algorithms based on the crossover operator. , 1997, , .		9
776	Aggregation operators for linguistic weighted information. IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans, 1997, 27, 646-656.	3.4	353
777	Special issue on genetic fuzzy systems for control and roboticsâ€" Preface. International Journal of Approximate Reasoning, 1997, 17, 325-326.	1.9	6
778	Linguistic measures based on fuzzy coincidence for reaching consensus in group decision making. International Journal of Approximate Reasoning, 1997, 16, 309-334.	1.9	125
779	A three-stage evolutionary process for learning descriptive and approximate fuzzy-logic-controller knowledge bases from examples. International Journal of Approximate Reasoning, 1997, 17, 369-407.	1.9	181
780	A rational consensus model in group decision making using linguistic assessments. Fuzzy Sets and Systems, 1997, 88, 31-49.	1.6	329
781	Fuzzy connectives based crossover operators to model genetic algorithms population diversity. Fuzzy Sets and Systems, 1997, 92, 21-30.	1.6	136
782	Fuzzy sets and operations research: Perspectives. Fuzzy Sets and Systems, 1997, 90, 207-218.	1.6	23
783	Applicability of the fuzzy operators in the design of fuzzy logic controllers. Fuzzy Sets and Systems, 1997, 86, 15-41.	1.6	144
784	Consensus Based on Fuzzy Coincidence for Group Decision Making in Linguistic Setting. International Series in Intelligent Technologies, 1997, , 121-146.	0.1	4
785	Identification of Linguistic Fuzzy Models by Means of Genetic Algorithms*. , 1997, , 215-250.		9
786	Applications of the Linguistic OWA Operators in Group Decision Making. , 1997, , 207-218.		3
787	Fuzzy boolean programming problems with fuzzy costs: A general study. Fuzzy Sets and Systems, 1996, 81, 57-76.	1.6	23
788	A model of consensus in group decision making under linguistic assessments. Fuzzy Sets and Systems, 1996, 78, 73-87.	1.6	1,010
789	Direct approach processes in group decision making using linguistic OWA operators. Fuzzy Sets and Systems, 1996, 79, 175-190.	1.6	612
790	A linguistic decision process in group decision making. Group Decision and Negotiation, 1996, 5, 165-176.	2.0	115
791	Dynamic and heuristic fuzzy connectivesâ€based crossover operators for controlling the diversity and convergence of realâ€coded genetic algorithms. International Journal of Intelligent Systems, 1996, 11, 1013-1040.	3.3	20
792	Making Decisions on Fuzzy Integer Linear Programming Problems. International Series in Intelligent Technologies, 1996, , 147-164.	0.1	2

#	Article	IF	Citations
793	A Three-stage method for designing Genetic Fuzzy Systems by learning from examples. Lecture Notes in Computer Science, 1996, , 720-729.	1.0	5
794	A sequential selection process in group decision making with a linguistic assessment approach. Information Sciences, 1995, 85, 223-239.	4.0	538
795	Three models of fuzzy integer linear programming. European Journal of Operational Research, 1995, 83, 581-593.	3.5	78
796	Tuning fuzzy logic controllers by genetic algorithms. International Journal of Approximate Reasoning, 1995, 12, 299-315.	1.9	299
797	GENERATING FUZZY RULES FROM EXAMPLES USING GENETIC ALGORITHMS. Advances in Fuzzy Systems, 1995, , 11-20.	8.7	35
798	ON GROUP DECISION MAKING UNDER LINGUISTIC PREFERENCES AND FUZZY LINGUISTIC QUANTIFIERS. Advances in Fuzzy Systems, 1995, , 173-180.	8.7	7
799	HOMOGENEOUS LINEAR FUZZY FUNCTIONS AND RANKING METHODS IN FUZZY LINEAR PROGRAMMING PROBLEMS. International Journal of Uncertainty, Fuzziness and Knowlege-Based Systems, 1994, 02, 25-35.	0.9	7
800	Knowledge-based systems and fuzzy boolean programming. International Journal of Intelligent Systems, 1994, 9, 211-225.	3.3	9
801	Boolean programming problems with fuzzy constraints. Fuzzy Sets and Systems, 1993, 55, 285-293.	1.6	24
802	Optimality for fuzzified mathematical programming problems: A parametric approach. Fuzzy Sets and Systems, 1993, 54, 279-285.	1.6	26
803	Post-optimality analysis on the membership functions of a fuzzy linear programming problem. Fuzzy Sets and Systems, 1993, 53, 289-297.	1.6	37
804	Approaching Fuzzy Integer Linear Programming Problems. Lecture Notes in Economics and Mathematical Systems, 1991, , 78-91.	0.3	10
805	Genetic tuning of fuzzy rule-based systems integrating linguistic hedges. , 0, , .		9
806	Analyzing and extending hierarchical systems of linguistic rules. , 0, , .		0
807	Evolutionary design of TSK fuzzy rule-based systems using (Î¼,Î»)-evolution strategies. , 0, , .		9
808	A multiobjective genetic algorithm for feature selection and granularity learning in fuzzy-rule based classification systems. , 0, , .		19
809	The use of linguistic information in operational research. , 0, , .		0
810	Ten years of genetic fuzzy systems: current framework and new trends. , 0, , .		61

#	Article	IF	Citations
811	Genetic tuning on fuzzy systems based on the linguistic 2-tuples representation. , 0, , .		11
812	Adaptive Local Search Parameters for Real-Coded Memetic Algorithms. , 0, , .		70
813	Genetic Learning of the Knowledge Base of a Fuzzy System by Using the Linguistic 2-Tuples Representation. , 0, , .		2
814	SMOTE for Learning from Imbalanced Data: Progress and Challenges, Marking the 15-year Anniversary. Journal of Artificial Intelligence Research, 0, 61, 863-905.	7.0	942
815	A Survey on Evolutionary Instance Selection and Generation. , 0, , 233-266.		8