

Francisco Herrera

List of Publications by Year in Descending Order

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

802 papers	63,072 citations	123 h-index	233 g-index
851 ext. papers	75,903 ext. citations	5.3 avg, IF	8.48 L-index

#	Paper	IF	Citations
802	Human pose estimation for mitigating false negatives in weapon detection in video-surveillance. <i>Neurocomputing</i> , 2022 ,	5.4	2
801	Action Recognition for Anomaly Detection Using Transfer Learning and Deep Architectures. <i>Lecture Notes in Networks and Systems</i> , 2022 , 183-192	0.5	
800	A least square support vector machine approach based on bVRNA-GA for modeling photovoltaic systems. <i>Applied Soft Computing Journal</i> , 2022 , 117, 108357	7.5	0
799	Challenges and Opportunities in Integration of Human and Autonomous systems. <i>Incose International Symposium</i> , 2022 , 32, 48-49	0.4	
798	FW-SMOTE: A feature-weighted oversampling approach for imbalanced classification. <i>Pattern Recognition</i> , 2022 , 124, 108511	7.7	5
797	Democratic consensus reaching process for multi-person multi-criteria large scale decision making considering participants' individual attributes and concerns. <i>Information Fusion</i> , 2022 , 77, 220-232	16.7	8
796	Trust-Consensus Multiplex Networks by Combining Trust Social Network Analysis and Consensus Evolution Methods in Group Decision-Making. <i>IEEE Transactions on Fuzzy Systems</i> , 2022 , 1-1	8.3	1
795	TimeSpec4LULC: a global multispectral time series database for training LULC mapping models with machine learning. <i>Earth System Science Data</i> , 2022 , 14, 1377-1411	10.5	
794	Data-driven method to learning personalized individual semantics to support linguistic multi-attribute decision making. <i>Omega</i> , 2022 , 102642	7.2	6
793	Dynamic defense against byzantine poisoning attacks in federated learning. <i>Future Generation Computer Systems</i> , 2022 , 133, 1-9	7.5	2
792	Mixed Opinion Dynamics Based on DeGroot Model and Hegselmann-Krause Model in Social Networks. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2022 , 1-13	7.3	2
791	Reducing Data Complexity using Autoencoders with Class-informed Loss Functions. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2021 , PP,	13.3	2
790	CI-Dataset and DetDSCI Methodology for Detecting Too Small and Too Large Critical Infrastructures in Satellite Images: Airports and Electrical Substations as Case Study. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2021 , 14, 12149-12162	4.7	
789	A New Clustering Algorithm With Preference Adjustment Cost to Reduce the Cooperation Complexity in Large-Scale Group Decision Making. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2021 , 1-13	7.3	0
788	A Practical Tutorial for Decision Tree Induction. <i>ACM Computing Surveys</i> , 2021 , 54, 1-38	13.4	3
787	BELIEF: A distance-based redundancy-proof feature selection method for Big Data. <i>Information Sciences</i> , 2021 , 558, 124-139	7.7	2
786	Ordering Artificial Intelligence Based Recommendations to Tackle the SDGs with a Decision-Making Model Based on Surveys. <i>Sustainability</i> , 2021 , 13, 6038	3.6	5

785	Revisiting data complexity metrics based on morphology for overlap and imbalance: snapshot, new overlap number of balls metrics and singular problems prospect. <i>Knowledge and Information Systems</i> , 2021 , 63, 1961-1989	2.4	5
784	Fuzzy k-nearest neighbors with monotonicity constraints: Moving towards the robustness of monotonic noise. <i>Neurocomputing</i> , 2021 , 439, 106-121	5.4	6
783	SOUL: Scala Oversampling and Undersampling Library for imbalance classification. <i>SoftwareX</i> , 2021 , 15, 100767	2.7	0
782	A consensus process based on regret theory with probabilistic linguistic term sets and its application in venture capital. <i>Information Sciences</i> , 2021 , 562, 347-369	7.7	13
781	Dynamic subgroup-quality-based consensus in managing consistency, nearness, and evenness quality indices for large-scale group decision making under hesitant environment. <i>Journal of the Operational Research Society</i> , 2021 , 72, 865-878	2	10
780	Consensus Model Handling Minority Opinions and Noncooperative Behaviors in Large-Scale Group Decision-Making Under Double Hierarchy Linguistic Preference Relations. <i>IEEE Transactions on Cybernetics</i> , 2021 , 51, 283-296	10.2	37
779	MonuMAI: Dataset, deep learning pipeline and citizen science based app for monumental heritage taxonomy and classification. <i>Neurocomputing</i> , 2021 , 420, 266-280	5.4	8
778	Distributed linguistic representations in decision making: Taxonomy, key elements and applications, and challenges in data science and explainable artificial intelligence. <i>Information Fusion</i> , 2021 , 65, 165-178	16.7	59
777	A tutorial on distance metric learning: Mathematical foundations, algorithms, experimental analysis, prospects and challenges. <i>Neurocomputing</i> , 2021 , 425, 300-322	5.4	29
776	Score function based on concentration degree for probabilistic linguistic term sets: An application to TOPSIS and VIKOR. <i>Information Sciences</i> , 2021 , 551, 270-290	7.7	53
775	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. <i>Information Fusion</i> , 2021 , 68, 22-36	16.7	16
774	LUNAR: Cellular automata for drifting data streams. <i>Information Sciences</i> , 2021 , 543, 467-487	7.7	3
773	Lights and shadows in Evolutionary Deep Learning: Taxonomy, critical methodological analysis, cases of study, learned lessons, recommendations and challenges. <i>Information Fusion</i> , 2021 , 67, 161-194	16.7	6
772	Numerical Interval Opinion Dynamics in Social Networks: Stable State and Consensus. <i>IEEE Transactions on Fuzzy Systems</i> , 2021 , 29, 584-598	8.3	6
771	Balance Dynamic Clustering Analysis and Consensus Reaching Process With Consensus Evolution Networks in Large-Scale Group Decision Making. <i>IEEE Transactions on Fuzzy Systems</i> , 2021 , 29, 357-371	8.3	9
770	. <i>IEEE Access</i> , 2021 , 9, 85488-85499	3.5	1
769	Adaptive Multi-factorial Evolutionary Optimization for Multi-task Reinforcement Learning. <i>IEEE Transactions on Evolutionary Computation</i> , 2021 , 1-1	15.6	5
768	. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2021 , 51, 191-208	7.3	46

767	Distance Metric Learning with Prototype Selection for Imbalanced Classification. <i>Lecture Notes in Computer Science</i> , 2021 , 391-402	0.9	1
766	A Preliminary Analysis on Software Frameworks for the Development of Spiking Neural Networks. <i>Lecture Notes in Computer Science</i> , 2021 , 564-575	0.9	
765	Special Issue on Methods and Infrastructures for Data Mining at the Edge of Internet of Things. <i>IEEE Internet of Things Journal</i> , 2021 , 8, 10220-10221	10.7	2
764	A Tutorial On the design, experimentation and application of metaheuristic algorithms to real-World optimization problems. <i>Swarm and Evolutionary Computation</i> , 2021 , 64, 100888	9.8	33
763	AT-MFCGA: An Adaptive Transfer-guided Multifactorial Cellular Genetic Algorithm for Evolutionary Multitasking. <i>Information Sciences</i> , 2021 , 570, 577-598	7.7	3
762	CURIE: a cellular automaton for concept drift detection. <i>Data Mining and Knowledge Discovery</i> , 2021 , 35, 2655	5.6	1
761	A tutorial on the segmentation of metallographic images: Taxonomy, new MetalDAM dataset, deep learning-based ensemble model, experimental analysis and challenges. <i>Information Fusion</i> , 2021 , 78, 232-232	16.7	2
760	Anomaly detection in predictive maintenance: A new evaluation framework for temporal unsupervised anomaly detection algorithms. <i>Neurocomputing</i> , 2021 , 462, 440-452	5.4	6
759	An efficient consensus reaching framework for large-scale social network group decision making and its application in urban resettlement. <i>Information Sciences</i> , 2021 , 575, 499-527	7.7	11
758	Learning interpretable multi-class models by means of hierarchical decomposition: Threshold Control for Nested Dichotomies. <i>Neurocomputing</i> , 2021 , 463, 514-524	5.4	
757	An interval type-2 fuzzy Kano-prospect-TOPSIS based QFD model: Application to Chinese e-commerce service design. <i>Applied Soft Computing Journal</i> , 2021 , 111, 107665	7.5	11
756	Multiple instance classification: Bag noise filtering for negative instance noise cleaning. <i>Information Sciences</i> , 2021 , 579, 388-400	7.7	2
755	ADOPS: Aspect Discovery OPinion Summarisation Methodology based on deep learning and subgroup discovery for generating explainable opinion summaries. <i>Knowledge-Based Systems</i> , 2021 , 231, 107455	7.3	0
754	A prescription of methodological guidelines for comparing bio-inspired optimization algorithms. <i>Swarm and Evolutionary Computation</i> , 2021 , 67, 100973	9.8	16
753	Slicer: Feature Learning for Class Separability with Least-Squares Support Vector Machine Loss and COVID-19 Chest X-Ray Case Study. <i>Lecture Notes in Computer Science</i> , 2021 , 305-315	0.9	0
752	Tweet Coupling: a social media methodology for clustering scientific publications. <i>Scientometrics</i> , 2020 , 124, 973-991	3	9
751	Artificial intelligence within the interplay between natural and artificial computation: Advances in data science, trends and applications. <i>Neurocomputing</i> , 2020 , 410, 237-270	5.4	67
750	Linguistic Opinions Dynamics Based on Personalized Individual Semantics. <i>IEEE Transactions on Fuzzy Systems</i> , 2020 , 1-1	8.3	6

749	Redundancy and Complexity Metrics for Big Data Classification: Towards Smart Data. <i>IEEE Access</i> , 2020 , 8, 87918-87928	3.5	8
748	Irony detection in Twitter with imbalanced class distributions. <i>Journal of Intelligent and Fuzzy Systems</i> , 2020 , 39, 2147-2163	1.6	2
747	Big Data Preprocessing 2020 ,		19
746	A Dynamic Credit Index System for TSMEs in China Using the Delphi and Analytic Hierarchy Process (AHP) Methods. <i>Sustainability</i> , 2020 , 12, 1715	3.6	15
745	Linguistic group decision making: Axiomatic distance and minimum cost consensus. <i>Information Sciences</i> , 2020 , 541, 242-258	7.7	10
744	Comprehensive Taxonomies of Nature- and Bio-inspired Optimization: Inspiration Versus Algorithmic Behavior, Critical Analysis Recommendations. <i>Cognitive Computation</i> , 2020 , 12, 897-939	4.4	57
743	Recent trends in the use of statistical tests for comparing swarm and evolutionary computing algorithms: Practical guidelines and a critical review. <i>Swarm and Evolutionary Computation</i> , 2020 , 54, 100665	9.8	159
742	Tree Cover Estimation in Global Drylands from Space Using Deep Learning. <i>Remote Sensing</i> , 2020 , 12, 343	5	10
741	An overview on feedback mechanisms with minimum adjustment or cost in consensus reaching in group decision making: Research paradigms and challenges. <i>Information Fusion</i> , 2020 , 60, 65-79	16.7	90
740	Object Detection Binary Classifiers methodology based on deep learning to identify small objects handled similarly: Application in video surveillance. <i>Knowledge-Based Systems</i> , 2020 , 194, 105590	7.3	66
739	Consensus Reaching and Strategic Manipulation in Group Decision Making With Trust Relationships. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2020 , 1-15	7.3	31
738	Large-Scale decision-making: Characterization, taxonomy, challenges and future directions from an Artificial Intelligence and applications perspective. <i>Information Fusion</i> , 2020 , 59, 84-102	16.7	82
737	Ensembles of cost-diverse Bayesian neural learners for imbalanced binary classification. <i>Information Sciences</i> , 2020 , 520, 31-45	7.7	6
736	A two-step communication opinion dynamics model with self-persistence and influence index for social networks based on the DeGroot model. <i>Information Sciences</i> , 2020 , 519, 363-381	7.7	9
735	MNIST-NET10: A heterogeneous deep networks fusion based on the degree of certainty to reach 0.1% error rate. Ensembles overview and proposal. <i>Information Fusion</i> , 2020 , 62, 73-80	16.7	15
734	Big Data Discretization 2020 , 121-146		2
733	Big Data Software 2020 , 161-182		
732	Big Data: Technologies and Tools 2020 , 15-43		1

731 Dimensionality Reduction for Big Data **2020**, 53-79

730 Final Thoughts: From Big Data to Smart Data **2020**, 183-186

729 Imperfect Big Data **2020**, 101-119

728 Smart Data **2020**, 45-51

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727 Data Reduction for Big Data **2020**, 81-99

1

726 Imbalanced Data Preprocessing for Big Data **2020**, 147-160

2

725 An analysis on the use of autoencoders for representation learning: Fundamentals, learning task case studies, explainability and challenges. *Neurocomputing*, **2020**, 404, 93-107

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724 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

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723 Modeling agent-based consumers decision-making with 2-tuple fuzzy linguistic perceptions. *International Journal of Intelligent Systems*, **2020**, 35, 283-299

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722 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

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721 Explainable Artificial Intelligence (XAI): Concepts, taxonomies, opportunities and challenges toward responsible AI. *Information Fusion*, **2020**, 58, 82-115

16.7 1210

720 Predicting literature's early impact with sentiment analysis in Twitter. *Knowledge-Based Systems*, **2020**, 192, 105383

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719 Preprocessing methodology for time series: An industrial world application case study. *Information Sciences*, **2020**, 514, 385-401

7.7 8

718 Deep learning in video multi-object tracking: A survey. *Neurocomputing*, **2020**, 381, 61-88

5.4 157

717 HFER: Promoting Explainability in Fuzzy Systems via Hierarchical Fuzzy Exception Rules **2020**,

4

716 Simultaneously Evolving Deep Reinforcement Learning Models using Multifactorial optimization **2020**,

4

715 Multifactorial Cellular Genetic Algorithm (MFCGA): Algorithmic Design, Performance Comparison and Genetic Transferability Analysis **2020**,

8

714 Incremental learning model inspired in Rehearsal for deep convolutional networks. *Knowledge-Based Systems*, **2020**, 208, 106460

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713	Measuring volatility based on ordered weighted average operators: Agricultural products prices case of use. <i>Fuzzy Sets and Systems</i> , 2020 ,	3.7	3
712	A novel methodology to classify test cases using natural language processing and imbalanced learning. <i>Engineering Applications of Artificial Intelligence</i> , 2020 , 95, 103878	7.2	7
711	Probabilistic double hierarchy linguistic term set and its use in designing an improved VIKOR method: The application in smart healthcare. <i>Journal of the Operational Research Society</i> , 2020 , 1-20	2	41
710	Asynchronous Processing for Latent Fingerprint Identification on Heterogeneous CPU-GPU Systems. <i>IEEE Access</i> , 2020 , 8, 124236-124253	3.5	6
709	Federated Learning and Differential Privacy: Software tools analysis, the Sherpa.ai FL framework and methodological guidelines for preserving data privacy. <i>Information Fusion</i> , 2020 , 64, 270-292	16.7	23
708	A practical tutorial on bagging and boosting based ensembles for machine learning: Algorithms, software tools, performance study, practical perspectives and opportunities. <i>Information Fusion</i> , 2020 , 64, 205-237	16.7	46
707	Revisiting crowd behaviour analysis through deep learning: Taxonomy, anomaly detection, crowd emotions, datasets, opportunities and prospects. <i>Information Fusion</i> , 2020 , 64, 318-335	16.7	12
706	Integrating Continual Personalized Individual Semantics Learning in Consensus Reaching in Linguistic Group Decision Making. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2020 , 1-12	7.3	14
705	What do people think about this monument? Understanding negative reviews via deep learning, clustering and descriptive rules. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 2020 , 11, 39-52	3.7	15
704	Interval MULTIMOORA Method Integrating Interval Borda Rule and Interval Best-Worst-Method-Based Weighting Model: Case Study on Hybrid Vehicle Engine Selection. <i>IEEE Transactions on Cybernetics</i> , 2020 , 50, 1157-1169	10.2	38
703	An integrated method for cognitive complex multiple experts multiple criteria decision making based on ELECTRE III with weighted Borda rule. <i>Omega</i> , 2020 , 93, 102052	7.2	38
702	BreakHis based breast cancer automatic diagnosis using deep learning: Taxonomy, survey and insights. <i>Neurocomputing</i> , 2020 , 375, 9-24	5.4	45
701	otsad: A package for online time-series anomaly detectors. <i>Neurocomputing</i> , 2020 , 374, 49-53	5.4	5
700	Overview of Hesitant Linguistic Preference Relations for Representing Cognitive Complex Information: Where We Stand and What Is Next. <i>Cognitive Computation</i> , 2020 , 12, 25-48	4.4	9
699	Fast and Scalable Approaches to Accelerate the Fuzzy k-Nearest Neighbors Classifier for Big Data. <i>IEEE Transactions on Fuzzy Systems</i> , 2020 , 28, 874-886	8.3	17
698	Defective alternatives detection-based multi-attribute intuitionistic fuzzy large-scale decision making model. <i>Knowledge-Based Systems</i> , 2019 , 186, 104962	7.3	11
697	Consensus evolution networks: A consensus reaching tool for managing consensus thresholds in group decision making. <i>Information Fusion</i> , 2019 , 52, 375-388	16.7	25
696	Smartdata: Data preprocessing to achieve smart data in R. <i>Neurocomputing</i> , 2019 , 360, 1-13	5.4	8

695	Virtual learning environment to predict withdrawal by leveraging deep learning. <i>International Journal of Intelligent Systems</i> , 2019 , 34, 1935-1952	8.4	28
694	Life satisfaction evaluation in earthquake-hit area by the probabilistic linguistic GLDS method integrated with the logarithm-multiplicative analytic hierarchy process. <i>International Journal of Disaster Risk Reduction</i> , 2019 , 38, 101190	4.5	19
693	Ordinal consensus measure with objective threshold for heterogeneous large-scale group decision making. <i>Knowledge-Based Systems</i> , 2019 , 180, 62-74	7.3	60
692	A Showcase of the Use of Autoencoders in Feature Learning Applications. <i>Lecture Notes in Computer Science</i> , 2019 , 412-421	0.9	1
691	Bio-inspired computation: Where we stand and what's next. <i>Swarm and Evolutionary Computation</i> , 2019 , 48, 220-250	9.8	264
690	OCAPIS: R package for Ordinal Classification and Preprocessing in Scala. <i>Progress in Artificial Intelligence</i> , 2019 , 8, 287-292	4	2
689	A Review of Fingerprint Feature Representations and Their Applications for Latent Fingerprint Identification: Trends and Evaluation. <i>IEEE Access</i> , 2019 , 7, 48484-48499	3.5	32
688	Inconsistencies on TripAdvisor reviews: A unified index between users and Sentiment Analysis Methods. <i>Neurocomputing</i> , 2019 , 353, 3-16	5.4	31
687	Group decision making with double hierarchy hesitant fuzzy linguistic preference relations: Consistency based measures, index and repairing algorithms and decision model. <i>Information Sciences</i> , 2019 , 489, 93-112	7.7	47
686	Detection of Fir Trees (<i>Abies sibirica</i>) Damaged by the Bark Beetle in Unmanned Aerial Vehicle Images with Deep Learning. <i>Remote Sensing</i> , 2019 , 11, 643	5	61
685	Consensus model for large-scale group decision making based on fuzzy preference relation with self-confidence: Detecting and managing overconfidence behaviors. <i>Information Fusion</i> , 2019 , 52, 245-256	16.7	91
684	Deep recurrent neural network for geographical entities disambiguation on social media data. <i>Knowledge-Based Systems</i> , 2019 , 173, 117-127	7.3	6
683	Social network analysis-based conflict relationship investigation and conflict degree-based consensus reaching process for large scale decision making using sparse representation. <i>Information Fusion</i> , 2019 , 50, 251-272	16.7	74
682	Ruta: Implementations of neural autoencoders in R. <i>Knowledge-Based Systems</i> , 2019 , 174, 4-8	7.3	4
681	Hesitant Fuzzy Linguistic Analytic Hierarchical Process With Prioritization, Consistency Checking, and Inconsistency Repairing. <i>IEEE Access</i> , 2019 , 7, 44135-44149	3.5	21
680	Generic Disjunctive Belief-Rule-Base Modeling, Inferencing, and Optimization. <i>IEEE Transactions on Fuzzy Systems</i> , 2019 , 27, 1866-1880	8.3	27
679	A Group Decision Making Approach Considering Self-confidence Behaviors and Its Application in Environmental Pollution Emergency Management. <i>International Journal of Environmental Research and Public Health</i> , 2019 , 16,	4.6	21
678	Evolutionary Fuzzy Systems: A Case Study for Intrusion Detection Systems. <i>Studies in Computational Intelligence</i> , 2019 , 169-190	0.8	11

677	Instance reduction for one-class classification. <i>Knowledge and Information Systems</i> , 2019 , 59, 601-628	2.4	16
676	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. <i>Information Fusion</i> , 2019 , 48, 39-54	16.7	94
675	A Metahierarchical Rule Decision System to Design Robust Fuzzy Classifiers Based on Data Complexity. <i>IEEE Transactions on Fuzzy Systems</i> , 2019 , 27, 701-715	8.3	9
674	Sparse Representation-Based Intuitionistic Fuzzy Clustering Approach to Find the Group Intra-Relations and Group Leaders for Large-Scale Decision Making. <i>IEEE Transactions on Fuzzy Systems</i> , 2019 , 27, 559-573	8.3	43
673	A Consensus Model for Large-Scale Linguistic Group Decision Making With a Feedback Recommendation Based on Clustered Personalized Individual Semantics and Opposing Consensus Groups. <i>IEEE Transactions on Fuzzy Systems</i> , 2019 , 27, 221-233	8.3	152
672	Emerging topics and challenges of learning from noisy data in nonstandard classification: a survey beyond binary class noise. <i>Knowledge and Information Systems</i> , 2019 , 60, 63-97	2.4	8
671	Consensus Building With Individual Consistency Control in Group Decision Making. <i>IEEE Transactions on Fuzzy Systems</i> , 2019 , 27, 319-332	8.3	47
670	Coral species identification with texture or structure images using a two-level classifier based on Convolutional Neural Networks. <i>Knowledge-Based Systems</i> , 2019 , 184, 104891	7.3	9
669	An Analysis of Local and Global Solutions to Address Big Data Imbalanced Classification: A Case Study with SMOTE Preprocessing. <i>Communications in Computer and Information Science</i> , 2019 , 75-85	0.3	5
668	Social network group decision making: Managing self-confidence-based consensus model with the dynamic importance degree of experts and trust-based feedback mechanism. <i>Information Sciences</i> , 2019 , 505, 215-232	7.7	50
667	DPASF: a flink library for streaming data preprocessing. <i>Big Data Analytics</i> , 2019 , 4,	2.9	7
666	Whale counting in satellite and aerial images with deep learning. <i>Scientific Reports</i> , 2019 , 9, 14259	4.9	43
665	From Big to Smart Data: Iterative ensemble filter for noise filtering in Big Data classification. <i>International Journal of Intelligent Systems</i> , 2019 , 34, 3260-3274	8.4	7
664	CONSENSUS BASED ON MULTIPLICATIVE CONSISTENT DOUBLE HIERARCHY LINGUISTIC PREFERENCES: VENTURE CAPITAL IN REAL ESTATE MARKET. <i>International Journal of Strategic Property Management</i> , 2019 , 24, 1-23	1.9	16
663	Consensus reaching in social network DeGroot Model: The roles of the Self-confidence and node degree. <i>Information Sciences</i> , 2019 , 486, 62-72	7.7	40
662	Revisiting inconsistent judgments for incomplete fuzzy linguistic preference relations: Algorithms to identify and rectify ordinal inconsistencies. <i>Knowledge-Based Systems</i> , 2019 , 163, 305-319	7.3	25
661	E2SAM: Evolutionary ensemble of sentiment analysis methods for domain adaptation. <i>Information Sciences</i> , 2019 , 480, 273-286	7.7	18
660	An overview on managing additive consistency of reciprocal preference relations for consistency-driven decision making and fusion: Taxonomy and future directions. <i>Information Fusion</i> , 2019 , 52, 143-156	16.7	86

659	Analysis of self-confidence indices-based additive consistency for fuzzy preference relations with self-confidence and its application in group decision making. <i>International Journal of Intelligent Systems</i> , 2019 , 34, 920-946	8.4	25
658	A snapshot on nonstandard supervised learning problems: taxonomy, relationships, problem transformations and algorithm adaptations. <i>Progress in Artificial Intelligence</i> , 2019 , 8, 1-14	4	23
657	Brightness guided preprocessing for automatic cold steel weapon detection in surveillance videos with deep learning. <i>Neurocomputing</i> , 2019 , 330, 151-161	5.4	31
656	. <i>IEEE Computational Intelligence Magazine</i> , 2019 , 14, 69-81	5.6	90
655	Alternative Ranking-Based Clustering and Reliability Index-Based Consensus Reaching Process for Hesitant Fuzzy Large Scale Group Decision Making. <i>IEEE Transactions on Fuzzy Systems</i> , 2019 , 27, 159-171	8.3	75
654	An overview of MULTIMOORA for multi-criteria decision-making: Theory, developments, applications, and challenges. <i>Information Fusion</i> , 2019 , 51, 145-177	16.7	86
653	A binocular image fusion approach for minimizing false positives in handgun detection with deep learning. <i>Information Fusion</i> , 2019 , 49, 271-280	16.7	17
652	Transforming big data into smart data: An insight on the use of the k-nearest neighbors algorithm to obtain quality data. <i>Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery</i> , 2019 , 9, e1289	6.9	30
651	Large-scale group decision making model based on social network analysis: Trust relationship-based conflict detection and elimination. <i>European Journal of Operational Research</i> , 2019 , 275, 737-754	5.6	126
650	Enabling Smart Data: Noise filtering in Big Data classification. <i>Information Sciences</i> , 2019 , 479, 135-152	7.7	64
649	Visualizing and rectifying different inconsistencies for fuzzy reciprocal preference relations. <i>Fuzzy Sets and Systems</i> , 2019 , 362, 85-109	3.7	34
648	Towards highly accurate coral texture images classification using deep convolutional neural networks and data augmentation. <i>Expert Systems With Applications</i> , 2019 , 118, 315-328	7.8	46
647	Chain based sampling for monotonic imbalanced classification. <i>Information Sciences</i> , 2019 , 474, 187-204	7.7	15
646	On the Suitability of Fuzzy Rule-Based Classification Systems with Noisy Data. <i>IEEE Transactions on Fuzzy Systems</i> , 2019 , 1-1	8.3	1
645	A multi-objective evolutionary fuzzy system to obtain a broad and accurate set of solutions in intrusion detection systems. <i>Soft Computing</i> , 2019 , 23, 1321-1336	3.5	26
644	Dealing with difficult minority labels in imbalanced multilabel data sets. <i>Neurocomputing</i> , 2019 , 326-327, 39-53	5.4	23
643	REMEDIAL-HwR: Tackling multilabel imbalance through label decoupling and data resampling hybridization. <i>Neurocomputing</i> , 2019 , 326-327, 110-122	5.4	17
642	DRCW-ASEG: One-versus-One distance-based relative competence weighting with adaptive synthetic example generation for multi-class imbalanced datasets. <i>Neurocomputing</i> , 2018 , 285, 176-187	5.4	20

641	Dynamic ensemble selection for multi-class imbalanced datasets. <i>Information Sciences</i> , 2018 , 445-446, 22-37	7.7	80
640	A continuous interval-valued linguistic ORESTE method for multi-criteria group decision making. <i>Knowledge-Based Systems</i> , 2018 , 153, 65-77	7.3	52
639	On a new methodology for ranking fuzzy numbers and its application to real economic data. <i>Fuzzy Sets and Systems</i> , 2018 , 353, 86-110	3.7	15
638	Intuitionistic Fuzzy Analytic Network Process. <i>IEEE Transactions on Fuzzy Systems</i> , 2018 , 26, 2578-2590	8.3	51
637	A multi-objective evolutionary approach to training set selection for support vector machine. <i>Knowledge-Based Systems</i> , 2018 , 147, 94-108	7.3	21
636	Tips, guidelines and tools for managing multi-label datasets: The mldr.datasets R package and the Cometa data repository. <i>Neurocomputing</i> , 2018 , 289, 68-85	5.4	16
635	Cognitive Computing: Architecture, Technologies and Intelligent Applications. <i>IEEE Access</i> , 2018 , 6, 19774-19783	4.5	114
634	A practical tutorial on autoencoders for nonlinear feature fusion: Taxonomy, models, software and guidelines. <i>Information Fusion</i> , 2018 , 44, 78-96	16.7	130
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462	Distributed Entropy Minimization Discretizer for Big Data Analysis under Apache Spark 2015 ,		15

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