

Julian Luengo

List of Publications by Citations

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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.

87
papers

4,483
citations

25
h-index

66
g-index

92
ext. papers

5,530
ext. citations

4.6
avg, IF

5.93
L-index

#	Paper	IF	Citations
87	Advanced nonparametric tests for multiple comparisons in the design of experiments in computational intelligence and data mining: Experimental analysis of power. <i>Information Sciences</i> , 2010 , 180, 2044-2064	7.7	1240
86	A study of statistical techniques and performance measures for genetics-based machine learning: accuracy and interpretability. <i>Soft Computing</i> , 2009 , 13, 959-977	3.5	460
85	. <i>IEEE Transactions on Knowledge and Data Engineering</i> , 2013 , 25, 734-750	4.2	284
84	Data Preprocessing in Data Mining. <i>Intelligent Systems Reference Library</i> , 2015 ,	0.8	270
83	SMOTEIPF: Addressing the noisy and borderline examples problem in imbalanced classification by a re-sampling method with filtering. <i>Information Sciences</i> , 2015 , 291, 184-203	7.7	259
82	Big data preprocessing: methods and prospects. <i>Big Data Analytics</i> , 2016 , 1,	2.9	172
81	Tutorial on practical tips of the most influential data preprocessing algorithms in data mining. <i>Knowledge-Based Systems</i> , 2016 , 98, 1-29	7.3	138
80	On the choice of the best imputation methods for missing values considering three groups of classification methods. <i>Knowledge and Information Systems</i> , 2012 , 32, 77-108	2.4	132
79	KEEL 3.0: An Open Source Software for Multi-Stage Analysis in Data Mining. <i>International Journal of Computational Intelligence Systems</i> , 2017 , 10, 1238	3.4	122
78	Addressing data complexity for imbalanced data sets: analysis of SMOTE-based oversampling and evolutionary undersampling. <i>Soft Computing</i> , 2011 , 15, 1909-1936	3.5	109
77	Genetics-Based Machine Learning for Rule Induction: State of the Art, Taxonomy, and Comparative Study. <i>IEEE Transactions on Evolutionary Computation</i> , 2010 , 14, 913-941	15.6	106
76	A study on the use of statistical tests for experimentation with neural networks: Analysis of parametric test conditions and non-parametric tests. <i>Expert Systems With Applications</i> , 2009 , 36, 7798-7808	7.8	103
75	COVIDGR Dataset and COVID-SDNet Methodology for Predicting COVID-19 Based on Chest X-Ray Images. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2020 , 24, 3595-3605	7.2	95
74	Analyzing the presence of noise in multi-class problems: alleviating its influence with the One-vs-One decomposition. <i>Knowledge and Information Systems</i> , 2014 , 38, 179-206	2.4	87
73	Predicting noise filtering efficacy with data complexity measures for nearest neighbor classification. <i>Pattern Recognition</i> , 2013 , 46, 355-364	7.7	79
72	Enabling Smart Data: Noise filtering in Big Data classification. <i>Information Sciences</i> , 2019 , 479, 135-152	7.7	64
71	On the characterization of noise filters for self-training semi-supervised in nearest neighbor classification. <i>Neurocomputing</i> , 2014 , 132, 30-41	5.4	59

70	Tackling the problem of classification with noisy data using Multiple Classifier Systems: Analysis of the performance and robustness. <i>Information Sciences</i> , 2013 , 247, 1-20	7.7	58
69	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. <i>Neural Networks</i> , 2010 , 23, 406-18	9.1	58
68	INFFC: An iterative class noise filter based on the fusion of classifiers with noise sensitivity control. <i>Information Fusion</i> , 2016 , 27, 19-32	16.7	55
67	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
66	Evaluating the classifier behavior with noisy data considering performance and robustness: The Equalized Loss of Accuracy measure. <i>Neurocomputing</i> , 2016 , 176, 26-35	5.4	43
65	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. <i>Fuzzy Sets and Systems</i> , 2010 , 161, 3-19	3.7	38
64	An automatic extraction method of the domains of competence for learning classifiers using data complexity measures. <i>Knowledge and Information Systems</i> , 2015 , 42, 147-180	2.4	31
63	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
62	Missing data imputation for fuzzy rule-based classification systems. <i>Soft Computing</i> , 2012 , 16, 863-881	3.5	24
61	Statistical computation of feature weighting schemes through data estimation for nearest neighbor classifiers. <i>Pattern Recognition</i> , 2014 , 47, 3941-3948	7.7	22
60	Using the One-vs-One decomposition to improve the performance of class noise filters via an aggregation strategy in multi-class classification problems. <i>Knowledge-Based Systems</i> , 2015 , 90, 153-164	7.3	21
59	Big Data Preprocessing 2020 ,		19
58	CNC-NOS: Class noise cleaning by ensemble filtering and noise scoring. <i>Knowledge-Based Systems</i> , 2018 , 140, 27-49	7.3	18
57	Shared domains of competence of approximate learning models using measures of separability of classes. <i>Information Sciences</i> , 2012 , 185, 43-65	7.7	18
56	Evolutionary selection of hyperrectangles in nested generalized exemplar learning. <i>Applied Soft Computing Journal</i> , 2011 , 11, 3032-3045	7.5	17
55	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
54	Managing Borderline and Noisy Examples in Imbalanced Classification by Combining SMOTE with Ensemble Filtering. <i>Lecture Notes in Computer Science</i> , 2014 , 61-68	0.9	14
53	Exact fuzzy k-nearest neighbor classification for big datasets 2017 ,		12

52	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
51	Smartdata: Data preprocessing to achieve smart data in R. <i>Neurocomputing</i> , 2019 , 360, 1-13	5.4	8
50	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
49	A Study on the Noise Label Influence in Boosting Algorithms: AdaBoost, GBM and XGBoost. <i>Lecture Notes in Computer Science</i> , 2017 , 268-280	0.9	8
48	Preprocessing methodology for time series: An industrial world application case study. <i>Information Sciences</i> , 2020 , 514, 385-401	7.7	8
47	Feature Selection. <i>Intelligent Systems Reference Library</i> , 2015 , 163-193	0.8	7
46	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
45	2011 ,		7
44	Dealing with Missing Values. <i>Intelligent Systems Reference Library</i> , 2015 , 59-105	0.8	7
43	The NoiseFiltersR Package: Label Noise Preprocessing in R. <i>R Journal</i> , 2017 , 9, 219	3.3	6
42	Label noise filtering techniques to improve monotonic classification. <i>Neurocomputing</i> , 2019 , 353, 83-95	5.4	5
41	DILS: Constrained clustering through dual iterative local search. <i>Computers and Operations Research</i> , 2020 , 121, 104979	4.6	5
40	Using KEEL software as a educational tool: A case of study teaching data mining 2011 ,		5
39	Dealing with Noisy Data. <i>Intelligent Systems Reference Library</i> , 2015 , 107-145	0.8	5
38	A First Study on Decomposition Strategies with Data with Class Noise Using Decision Trees. <i>Lecture Notes in Computer Science</i> , 2012 , 25-35	0.9	5
37	An analysis on the use of pre-processing methods in evolutionary fuzzy systems for subgroup discovery. <i>Expert Systems With Applications</i> , 2012 , 39, 11404-11412	7.8	4
36	Instance Selection. <i>Intelligent Systems Reference Library</i> , 2015 , 195-243	0.8	4
35	Data Preparation Basic Models. <i>Intelligent Systems Reference Library</i> , 2015 , 39-57	0.8	4

34	From Big Data to Smart Data with the K-Nearest Neighbours Algorithm 2016 ,		4
33	A first study on the noise impact in classes for Fuzzy Rule Based Classification Systems 2010 ,		3
32	Addressing Data-Complexity for Imbalanced Data-Sets: A Preliminary Study on the Use of Preprocessing for C4.5 2009 ,		3
31	A First Approach to Nearest Hyperrectangle Selection by Evolutionary Algorithms 2009 ,		3
30	Synthetic Sample Generation for Label Distribution Learning. <i>Information Sciences</i> , 2021 , 544, 197-213	7.7	3
29	Discretization. <i>Intelligent Systems Reference Library</i> , 2015 , 245-283	0.8	2
28	A preliminary study on missing data imputation in evolutionary fuzzy systems of subgroup discovery 2012 ,		2
27	Big Data Discretization 2020 , 121-146		2
26	Smart Data 2020 , 45-51		2
25	A First Study on the Use of Boosting for Class Noise Reparation. <i>Lecture Notes in Computer Science</i> , 2016 , 549-559	0.9	2
24	A Data Mining Software Package Including Data Preparation and Reduction: KEEL. <i>Intelligent Systems Reference Library</i> , 2015 , 285-313	0.8	2
23	A preliminary study on Hybrid Spill-Tree Fuzzy k-Nearest Neighbors for big data classification 2018 ,		2
22	Enhancing instance-level constrained clustering through differential evolution. <i>Applied Soft Computing Journal</i> , 2021 , 108, 107435	7.5	2
21	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
20	Multiple instance classification: Bag noise filtering for negative instance noise cleaning. <i>Information Sciences</i> , 2021 , 579, 388-400	7.7	2
19	The influence of noise on the evolutionary fuzzy systems for subgroup discovery. <i>Soft Computing</i> , 2016 , 20, 4313-4330	3.5	1
18	A First Study on the Use of Noise Filtering to Clean the Bags in Multi-Instance Classification 2018 ,		1
17	An extraction method for the characterization of the Fuzzy Rule Based Classification SystemsX behavior using data complexity measures: A case of study with FH-GBML 2010 ,		1

16	Improving constrained clustering via decomposition-based multiobjective optimization with memetic elitism 2020 ,		1
15	Data Reduction for Big Data 2020 , 81-99		1
14	Data Reduction. <i>Intelligent Systems Reference Library</i> , 2015 , 147-162	0.8	1
13	A Study on the Use of Statistical Tests for Experimentation with Neural Networks 2007 , 72-79		1
12	Data Sets and Proper Statistical Analysis of Data Mining Techniques. <i>Intelligent Systems Reference Library</i> , 2015 , 19-38	0.8	1
11	ME-MEOA/DCC: Multiobjective constrained clustering through decomposition-based memetic elitism. <i>Swarm and Evolutionary Computation</i> , 2021 , 66, 100939	9.8	1
10	Implementation and Integration of Algorithms into the KEEL Data-Mining Software Tool. <i>Lecture Notes in Computer Science</i> , 2009 , 562-569	0.9	0
9	Big Data Software 2020 , 161-182		
8	Final Thoughts: From Big Data to Smart Data 2020 , 183-186		
7	Agglomerative Constrained Clustering Through Similarity and Distance Recalculation. <i>Lecture Notes in Computer Science</i> , 2020 , 424-436	0.9	
6	Imperfect Big Data 2020 , 101-119		
5	A First Approach in the Class Noise Filtering Approaches for Fuzzy Subgroup Discovery. <i>Advances in Intelligent Systems and Computing</i> , 2015 , 387-399	0.4	
4	Domains of Competence of Artificial Neural Networks Using Measures of Separability of Classes. <i>Lecture Notes in Computer Science</i> , 2009 , 81-88	0.9	
3	An Experimental Case of Study on the Behavior of Multiple Classifier Systems with Class Noise Datasets. <i>Lecture Notes in Computer Science</i> , 2013 , 568-577	0.9	
2	Improving the Behavior of the Nearest Neighbor Classifier against Noisy Data with Feature Weighting Schemes. <i>Lecture Notes in Computer Science</i> , 2014 , 597-606	0.9	
1	The impact of heterogeneous distance functions on missing data imputation and classification performance. <i>Engineering Applications of Artificial Intelligence</i> , 2022 , 111, 104791	7.2	