Julian Luengo

List of Publications by Year in Descending Order

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	The impact of heterogeneous distance functions on missing data imputation and classification performance. *Engineering Applications of Artificial Intelligence*, **2022**, 111, 104791	7.2	
86	Synthetic Sample Generation for Label Distribution Learning. *Information Sciences*, **2021**, 544, 197-213	7.7	3
85	Enhancing instance-level constrained clustering through differential evolution. *Applied Soft Computing Journal*, **2021**, 108, 107435	7.5	2
84	A tutorial on the segmentation of metallographic images: Taxonomy, new MetalDAM dataset, deep learning-based ensemble model, experimental analysis and challenges. *Information Fusion*, **2021**, 78, 232-232	16.7	2
83	ME-MEOA/DCC: Multiobjective constrained clustering through decomposition-based memetic elitism. *Swarm and Evolutionary Computation*, **2021**, 66, 100939	9.8	1
82	Multiple instance classification: Bag noise filtering for negative instance noise cleaning. *Information Sciences*, **2021**, 579, 388-400	7.7	2
81	Big Data Preprocessing **2020**,		19
80	DILS: Constrained clustering through dual iterative local search. *Computers and Operations Research* , **2020**, 121, 104979	4.6	5
79	Improving constrained clustering via decomposition-based multiobjective optimization with memetic elitism **2020**,		1
78	Big Data Discretization **2020**, 121-146		2
77	Big Data Software **2020**, 161-182		
76	Final Thoughts: From Big Data to Smart Data **2020**, 183-186		
75	Agglomerative Constrained Clustering Through Similarity and Distance Recalculation. *Lecture Notes in Computer Science*, **2020**, 424-436	0.9	
74	Imperfect Big Data **2020**, 101-119		
73	Smart Data **2020**, 45-51		2
72	Data Reduction for Big Data **2020**, 81-99		1
71	Preprocessing methodology for time series: An industrial world application case study. *Information Sciences*, **2020**, 514, 385-401	7.7	8

70	COVIDGR Dataset and COVID-SDNet Methodology for Predicting COVID-19 Based on Chest X-Ray Images. *IEEE Journal of Biomedical and Health Informatics*, **2020**, 24, 3595-3605	7.2	95
69	Fast and Scalable Approaches to Accelerate the Fuzzy k-Nearest Neighbors Classifier for Big Data. *IEEE Transactions on Fuzzy Systems*, **2020**, 28, 874-886	8.3	17
68	Smartdata: Data preprocessing to achieve smart data in R. *Neurocomputing*, **2019**, 360, 1-13	5.4	8
67	Label noise filtering techniques to improve monotonic classification. *Neurocomputing*, **2019**, 353, 83-95	5.4	5
66	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	2.4	8
65	Coral species identification with texture or structure images using a two-level classifier based on Convolutional Neural Networks. *Knowledge-Based Systems*, **2019**, 184, 104891	7.3	9
64	From Big to Smart Data: Iterative ensemble filter for noise filtering in Big Data classification. *International Journal of Intelligent Systems*, **2019**, 34, 3260-3274	8.4	7
63	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	6.9	30
62	Enabling Smart Data: Noise filtering in Big Data classification. *Information Sciences*, **2019**, 479, 135-152	7.7	64
61	Towards highly accurate coral texture images classification using deep convolutional neural networks and data augmentation. *Expert Systems With Applications*, **2019**, 118, 315-328	7.8	46
60	CNC-NOS: Class noise cleaning by ensemble filtering and noise scoring. *Knowledge-Based Systems*, **2018**, 140, 27-49	7.3	18
59	A First Study on the Use of Noise Filtering to Clean the Bags in Multi-Instance Classification **2018**,		1
58	A preliminary study on Hybrid Spill-Tree Fuzzy k-Nearest Neighbors for big data classification **2018**,		2
57	Exact fuzzy k-nearest neighbor classification for big datasets **2017**,		12
56	KEEL 3.0: An Open Source Software for Multi-Stage Analysis in Data Mining. *International Journal of Computational Intelligence Systems*, **2017**, 10, 1238	3.4	122
55	The NoiseFiltersR Package: Label Noise Preprocessing in R. *R Journal*, **2017**, 9, 219	3.3	6
54	A Study on the Noise Label Influence in Boosting Algorithms: AdaBoost, GBM and XGBoost. *Lecture Notes in Computer Science*, **2017**, 268-280	0.9	8
53	The influence of noise on the evolutionary fuzzy systems for subgroup discovery. *Soft Computing*, **2016**, 20, 4313-4330	3.5	1

52	Big data preprocessing: methods and prospects. *Big Data Analytics*, **2016**, 1,	2.9	172
51	Evaluating the classifier behavior with noisy data considering performance and robustness: The Equalized Loss of Accuracy measure. *Neurocomputing*, **2016**, 176, 26-35	5.4	43
50	INFFC: An iterative class noise filter based on the fusion of classifiers with noise sensitivity control. *Information Fusion*, **2016**, 27, 19-32	16.7	55
49	Tutorial on practical tips of the most influential data preprocessing algorithms in data mining. *Knowledge-Based Systems*, **2016**, 98, 1-29	7.3	138
48	A First Study on the Use of Boosting for Class Noise Reparation. *Lecture Notes in Computer Science*, **2016**, 549-559	0.9	2
47	From Big Data to Smart Data with the K-Nearest Neighbours Algorithm **2016**,		4
46	Feature Selection. *Intelligent Systems Reference Library*, **2015**, 163-193	0.8	7
45	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	7.3	21
44	An automatic extraction method of the domains of competence for learning classifiers using data complexity measures. *Knowledge and Information Systems*, **2015**, 42, 147-180	2.4	31
43	SMOTE-PF: Addressing the noisy and borderline examples problem in imbalanced classification by a re-sampling method with filtering. *Information Sciences*, **2015**, 291, 184-203	7.7	259
42	Data Preprocessing in Data Mining. *Intelligent Systems Reference Library*, **2015**,	0.8	270
41	Discretization. *Intelligent Systems Reference Library*, **2015**, 245-283	0.8	2
40	Dealing with Missing Values. *Intelligent Systems Reference Library*, **2015**, 59-105	0.8	7
39	Dealing with Noisy Data. *Intelligent Systems Reference Library*, **2015**, 107-145	0.8	5
38	Data Reduction. *Intelligent Systems Reference Library*, **2015**, 147-162	0.8	1
37	Instance Selection. *Intelligent Systems Reference Library*, **2015**, 195-243	0.8	4
36	Data Preparation Basic Models. *Intelligent Systems Reference Library*, **2015**, 39-57	0.8	4
35	Data Sets and Proper Statistical Analysis of Data Mining Techniques. *Intelligent Systems Reference Library*, **2015**, 19-38	0.8	1

34	A Data Mining Software Package Including Data Preparation and Reduction: KEEL. *Intelligent Systems Reference Library*, **2015**, 285-313	0.8	2
33	A First Approach in the Class Noise Filtering Approaches for Fuzzy Subgroup Discovery. *Advances in Intelligent Systems and Computing*, **2015**, 387-399	0.4	
32	Statistical computation of feature weighting schemes through data estimation for nearest neighbor classifiers. *Pattern Recognition*, **2014**, 47, 3941-3948	7.7	22
31	On the characterization of noise filters for self-training semi-supervised in nearest neighbor classification. *Neurocomputing*, **2014**, 132, 30-41	5.4	59
30	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	2.4	87
29	Managing Borderline and Noisy Examples in Imbalanced Classification by Combining SMOTE with Ensemble Filtering. *Lecture Notes in Computer Science*, **2014**, 61-68	0.9	14
28	Improving the Behavior of the Nearest Neighbor Classifier against Noisy Data with Feature Weighting Schemes. *Lecture Notes in Computer Science*, **2014**, 597-606	0.9	
27	. *IEEE Transactions on Knowledge and Data Engineering*, **2013**, 25, 734-750	4.2	284
26	Tackling the problem of classification with noisy data using Multiple Classifier Systems: Analysis of the performance and robustness. *Information Sciences*, **2013**, 247, 1-20	7.7	58
25	Predicting noise filtering efficacy with data complexity measures for nearest neighbor classification. *Pattern Recognition*, **2013**, 46, 355-364	7.7	79
24	An Experimental Case of Study on the Behavior of Multiple Classifier Systems with Class Noise Datasets. *Lecture Notes in Computer Science*, **2013**, 568-577	0.9	
23	Shared domains of competence of approximate learning models using measures of separability of classes. *Information Sciences*, **2012**, 185, 43-65	7.7	18
22	An analysis on the use of pre-processing methods in evolutionary fuzzy systems for subgroup discovery. *Expert Systems With Applications*, **2012**, 39, 11404-11412	7.8	4
21	A preliminary study on missing data imputation in evolutionary fuzzy systems of subgroup discovery **2012**,		2
20	Missing data imputation for fuzzy rule-based classification systems. *Soft Computing*, **2012**, 16, 863-881	3.5	24
19	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	2.4	132
18	A First Study on Decomposition Strategies with Data with Class Noise Using Decision Trees. *Lecture Notes in Computer Science*, **2012**, 25-35	0.9	5
17	Addressing data complexity for imbalanced data sets: analysis of SMOTE-based oversampling and evolutionary undersampling. *Soft Computing*, **2011**, 15, 1909-1936	3.5	109

16	Evolutionary selection of hyperrectangles in nested generalized exemplar learning. *Applied Soft Computing Journal*, **2011**, 11, 3032-3045	7.5	17
15	**2011**,		7
14	Using KEEL software as a educational tool: A case of study teaching data mining **2011**,		5
13	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
12	A first study on the noise impact in classes for Fuzzy Rule Based Classification Systems **2010**,		3
11	Genetics-Based Machine Learning for Rule Induction: State of the Art, Taxonomy, and Comparative Study. *IEEE Transactions on Evolutionary Computation*, **2010**, 14, 913-941	15.6	106
10	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	3.7	38
9	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, 406-18	9.1	58
8	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	7.7	1240
7	A study of statistical techniques and performance measures for genetics-based machine learning: accuracy and interpretability. *Soft Computing*, **2009**, 13, 959-977	3.5	460
6	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	7.8	103
5	Addressing Data-Complexity for Imbalanced Data-Sets: A Preliminary Study on the Use of Preprocessing for C4.5 **2009**,		3
4	A First Approach to Nearest Hyperrectangle Selection by Evolutionary Algorithms **2009**,		3
3	Implementation and Integration of Algorithms into the KEEL Data-Mining Software Tool. *Lecture Notes in Computer Science*, **2009**, 562-569	0.9	0
2	Domains of Competence of Artificial Neural Networks Using Measures of Separability of Classes. *Lecture Notes in Computer Science*, **2009**, 81-88	0.9	
1	A Study on the Use of Statistical Tests for Experimentation with Neural Networks **2007**, 72-79		1