Salvador Garcia

List of Publications by Year
in descending order

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190 papers	24,396 citations	31949 53 h-index	9334 143 g-index
198 all docs	198 docs citations	198 times ranked	16303 citing authors

#	Article	IF	Citations
1	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
2	Explainable Artificial Intelligence (XAI): Concepts, taxonomies, opportunities and challenges toward responsible AI. Information Fusion, 2020, 58, 82-115.	11.7	3,332
3	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
4	A study on the use of non-parametric tests for analyzing the evolutionary algorithmsâ€™ behaviour: aÂcase study onÂtheÂCECâ€™2005 Special Session onÂReal Parameter Optimization. Journal of Heuristics, 2009, 15, 617-644.	1.1	1,454
5	KEEL: a software tool to assess evolutionary algorithms for data mining problems. Soft Computing, 2009, 13, 307-318.	2.1	1,165
6	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
7	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
8	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
9	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
10	Data Preprocessing in Data Mining. Intelligent Systems Reference Library, 2015, , .	1.0	541
11	Learning from Imbalanced Data Sets. , 2018, , .		477
12	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
13	Self-labeled techniques for semi-supervised learning: taxonomy, software and empirical study. Knowledge and Information Systems, 2015, 42, 245-284.	2.1	377
14	A survey on data preprocessing for data stream mining: Current status and future directions. Neurocomputing, 2017, 239, 39-57.	3.5	326
15	Big data preprocessing: methods and prospects. Big Data Analytics, 2016, 1, .	2.2	319
16	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
17	Evolutionary Undersampling for Classification with Imbalanced Datasets: Proposals and Taxonomy. Evolutionary Computation, 2009, 17, 275-306.	2.3	312
18	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

#	Article	IF	Citations
19	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
20	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
21	A practical tutorial on autoencoders for nonlinear feature fusion: Taxonomy, models, software and guidelines. Information Fusion, 2018, 44, 78-96.	11.7	212
22	MRPR: A MapReduce solution for prototype reduction in big data classification. Neurocomputing, 2015, 150, 331-345.	3.5	204
23	Tutorial on practical tips of the most influential data preprocessing algorithms in data mining. Knowledge-Based Systems, 2016, 98, 1-29.	4.0	204
24	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
25	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
26	A memetic algorithm for evolutionary prototype selection: A scaling up approach. Pattern Recognition, 2008, 41, 2693-2709.	5.1	162
27	Addressing data complexity for imbalanced data sets: analysis of SMOTE-based oversampling and evolutionary undersampling. Soft Computing, 2011, 15, 1909-1936.	2.1	144
28	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
29	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
30	Comprehensive Taxonomies of Nature- and Bio-inspired Optimization: Inspiration Versus Algorithmic Behavior, Critical Analysis Recommendations. Cognitive Computation, 2020, 12, 897-939.	3.6	125
31	Evolutionary-based selection of generalized instances for imbalanced classification. Knowledge-Based Systems, 2012, 25, 3-12.	4.0	123
32	Big Data: Tutorial and guidelines on information and process fusion for analytics algorithms with MapReduce. Information Fusion, 2018, 42, 51-61.	11.7	122
33	Dynamic ensemble selection for multi-class imbalanced datasets. Information Sciences, 2018, 445-446, 22-37.	4.0	119
34	Analyzing convergence performance of evolutionary algorithms: A statistical approach. Information Sciences, 2014, 289, 41-58.	4.0	117
35	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
36	Differential evolution for optimizing the positioning of prototypes in nearest neighbor classification. Pattern Recognition, 2011, 44, 901-916.	5.1	111

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37	Data discretization: taxonomy and big data challenge. Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery, 2016, 6, 5-21.	4.6	105
38	Web usage mining to improve the design of an e-commerce website: OrOliveSur.com. Expert Systems With Applications, 2012, 39, 11243-11249.	4.4	103
39	Fuzzy nearest neighbor algorithms: Taxonomy, experimental analysis and prospects. Information Sciences, 2014, 260, 98-119.	4.0	103
40	Enabling Smart Data: Noise filtering in Big Data classification. Information Sciences, 2019, 479, 135-152.	4.0	103
41	Enhancing evolutionary instance selection algorithms by means of fuzzy rough set based feature selection. Information Sciences, 2012, 186, 73-92.	4.0	102
42	Transforming big data into smart data: An insight on the use of the kâ€nearest neighbors algorithm to obtain quality data. Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery, 2019, 9, e1289.	4.6	88
43	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
44	IFS-CoCo: Instance and feature selection based on cooperative coevolution with nearest neighbor rule. Pattern Recognition, 2010, 43, 2082-2105.	5.1	81
45	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
46	On the characterization of noise filters for self-training semi-supervised in nearest neighbor classification. Neurocomputing, 2014, 132, 30-41.	3.5	81
47	Empowering one-vs-one decomposition with ensemble learning for multi-class imbalanced data. Knowledge-Based Systems, 2016, 106, 251-263.	4.0	81
48	A comparison on scalability for batch big data processing on Apache Spark and Apache Flink. Big Data Analytics, 2017, 2, .	2.2	62
49	Evolutionary fuzzy k-nearest neighbors algorithm using interval-valued fuzzy sets. Information Sciences, 2016, 329, 144-163.	4.0	61
50	A tutorial on distance metric learning: Mathematical foundations, algorithms, experimental analysis, prospects and challenges. Neurocomputing, 2021, 425, 300-322.	3.5	61
51	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
52	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
53	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
54	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

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55	A Survey on Evolutionary Instance Selection and Generation. International Journal of Applied Metaheuristic Computing, 2010, 1, 60-92.	0.5	56
56	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
57	Imbalance: Oversampling algorithms for imbalanced classification in R. Knowledge-Based Systems, 2018, 161, 329-341.	4.0	53
58	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
59	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
60	Monotonic classification: An overview on algorithms, performance measures and data sets. Neurocomputing, 2019, 341, 168-182.	3.5	50
61	Addressing imbalanced classification with instance generation techniques: IPADE-ID. Neurocomputing, 2014, 126, 15-28.	3.5	48
62	IPADE: Iterative Prototype Adjustment for Nearest Neighbor Classification. IEEE Transactions on Neural Networks, 2010, 21, 1984-1990.	4.8	44
63	How to design the fair experimental classifier evaluation. Applied Soft Computing Journal, 2021, 104, 107219.	4.1	44
64	Big Data Preprocessing. , 2020, , .		42
65	A survey of fingerprint classification Part II: Experimental analysis and ensemble proposal. Knowledge-Based Systems, 2015, 81, 98-116.	4.0	40
66	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
67	Multivariate Discretization Based on Evolutionary Cut Points Selection for Classification. IEEE Transactions on Cybernetics, 2016, 46, 595-608.	6.2	39
68	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
69	Monotonic Random Forest with an Ensemble Pruning Mechanism based on the Degree of Monotonicity. New Generation Computing, 2015, 33, 367-388.	2.5	36
70	Evolutionary Fuzzy Rule-Based Methods for Monotonic Classification. IEEE Transactions on Fuzzy Systems, 2017, 25, 1376-1390.	6.5	36
71	Stratified prototype selection based on a steady-state memetic algorithm: a study of scalability. Memetic Computing, 2010, 2, 183-199.	2.7	33
72	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

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73	Principal Components Analysis Random Discretization Ensemble for Big Data. Knowledge-Based Systems, 2018, 150, 166-174.	4.0	32
74	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
75	On the use of evolutionary feature selection for improving fuzzy rough set based prototype selection. Soft Computing, 2013, 17, 223-238.	2.1	30
76	Class Switching according to Nearest Enemy Distance for learning from highly imbalanced data-sets. Pattern Recognition, 2017, 70, 12-24.	5.1	30
77	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
78	A distributed evolutionary multivariate discretizer for Big Data processing on Apache Spark. Swarm and Evolutionary Computation, 2018, 38, 240-250.	4.5	29
79	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
80	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
81	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
82	Minutiae-based fingerprint matching decomposition: Methodology for big data frameworks. Information Sciences, 2017, 408, 198-212.	4.0	26
83	Dealing with Missing Values. Intelligent Systems Reference Library, 2015, , 59-105.	1.0	26
84	Integrating a differential evolution feature weighting scheme into prototype generation. Neurocomputing, 2012, 97, 332-343.	3.5	23
85	Exploring the effectiveness of dynamic ensemble selection in the one-versus-one scheme. Knowledge-Based Systems, 2017, 125, 53-63.	4.0	23
86	CommuniMents. International Journal on Semantic Web and Information Systems, 2017, 13, 87-108.	2.2	23
87	DIAGNOSE EFFECTIVE EVOLUTIONARY PROTOTYPE SELECTION USING AN OVERLAPPING MEASURE. International Journal of Pattern Recognition and Artificial Intelligence, 2009, 23, 1527-1548.	0.7	22
88	Prototype selection to improve monotonic nearest neighbor. Engineering Applications of Artificial Intelligence, 2017, 60, 128-135.	4.3	22
89	MC2ESVM: Multiclass Classification Based on Cooperative Evolution of Support Vector Machines. IEEE Computational Intelligence Magazine, 2018, 13, 18-29.	3.4	22
90	Instance reduction for one-class classification. Knowledge and Information Systems, 2019, 59, 601-628.	2.1	21

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91	EUSC: A clustering-based surrogate model to accelerate evolutionary undersampling in imbalanced classification. Applied Soft Computing Journal, 2021, 101, 107033.	4.1	21
92	Evolutionary selection of hyperrectangles in nested generalized exemplar learning. Applied Soft Computing Journal, 2011, 11, 3032-3045.	4.1	19
93	Current prospects on ordinal and monotonic classification. Progress in Artificial Intelligence, 2016, 5, 171-179.	1.5	19
94	Chain based sampling for monotonic imbalanced classification. Information Sciences, 2019, 474, 187-204.	4.0	19
95	rNPBST: An R Package Covering Non-parametric and Bayesian Statistical Tests. Lecture Notes in Computer Science, 2017, , 281-292.	1.0	19
96	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
97	Distributed Entropy Minimization Discretizer for Big Data Analysis under Apache Spark. , 2015, , .		17
98	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
99	Hyperrectangles Selection for Monotonic Classification by Using Evolutionary Algorithms. International Journal of Computational Intelligence Systems, 2016, 9, 184.	1.6	16
100	Preprocessing methodology for time series: An industrial world application case study. Information Sciences, 2020, 514, 385-401.	4.0	16
101	Online entropy-based discretization for data streaming classification. Future Generation Computer Systems, 2018, 86, 59-70.	4.9	15
102	Feature Selection. Intelligent Systems Reference Library, 2015, , 163-193.	1.0	14
103	Exact fuzzy k-nearest neighbor classification for big datasets. , 2017, , .		13
104	Smartdata: Data preprocessing to achieve smart data in R. Neurocomputing, 2019, 360, 1-13.	3.5	13
105	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
106	Statistical analysis of convergence performance throughout the evolutionary search: A case study with SaDE-MMTS and Sa-EPSDE-MMTS. , 2013, , .		11
107	From Big Data to Smart Data with the K-Nearest Neighbours Algorithm. , 2016, , .		11
108	DPASF: a flink library for streaming data preprocessing. Big Data Analytics, 2019, 4, .	2.2	11

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109	KEEL: A data mining software tool integrating genetic fuzzy systems. , 2008, , .		10
110	Adaptive cooperation of multi-swarm particle swarm optimizer-based hidden Markov model. Progress in Artificial Intelligence, 2019, 8, 441-452.	1.5	10
111	Fuzzy k-nearest neighbors with monotonicity constraints: Moving towards the robustness of monotonic noise. Neurocomputing, 2021, 439, 106-121.	3.5	10
112	Dealing with Noisy Data. Intelligent Systems Reference Library, 2015, , 107-145.	1.0	10
113	Instance Selection. Intelligent Systems Reference Library, 2015, , 195-243.	1.0	10
114	Data Preparation Basic Models. Intelligent Systems Reference Library, 2015, , 39-57.	1.0	10
115	MoNGEL: monotonic nested generalized exemplar learning. Pattern Analysis and Applications, 2017, 20, 441-452.	3.1	9
116	Foundations on Imbalanced Classification. , 2018, , 19-46.		9
117	DILS: Constrained clustering through dual iterative local search. Computers and Operations Research, 2020, 121, 104979.	2.4	9
118	BELIEF: A distance-based redundancy-proof feature selection method for Big Data. Information Sciences, 2021, 558, 124-139.	4.0	9
119	Training set selection for monotonic ordinal classification. Data and Knowledge Engineering, 2017, 112, 94-105.	2.1	8
120	Introduction to KDD and Data Science. , 2018, , 1-17.		8
121	Label noise filtering techniques to improve monotonic classification. Neurocomputing, 2019, 353, 83-95.	3.5	8
122	ProLSFEO-LDL: Prototype Selection and Label- Specific Feature Evolutionary Optimization for Label Distribution Learning. Applied Sciences (Switzerland), 2020, 10, 3089.	1.3	8
123	A Survey on Evolutionary Instance Selection and Generation. , 0, , 233-266.		8
124	An empirical study on the joint impact of feature selection and data resampling on imbalance classification. Applied Intelligence, 0, , .	3.3	8
125	A First Approach to Nearest Hyperrectangle Selection by Evolutionary Algorithms. , 2009, , .		7
126	Using KEEL software as a educational tool: A case of study teaching data mining. , 2011, , .		7

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127	Imbalanced Classification for Big Data. , 2018, , 327-349.		7
128	Data Intrinsic Characteristics. , 2018, , 253-277.		7
129	Self Inertia Weight Adaptation for the Particle Swarm Optimization. , 2018, , .		7
130	Synthetic Sample Generation for Label Distribution Learning. Information Sciences, 2021, 544, 197-213.	4.0	7
131	Addressing Data-Complexity for Imbalanced Data-Sets: A Preliminary Study on the Use of Preprocessing for C4.5. , 2009, , .		6
132	Decomposition-Fusion for Label Distribution Learning. Information Fusion, 2021, 66, 64-75.	11.7	6
133	Ordinal regression with explainable distance metric learning based on ordered sequences. Machine Learning, 2021, 110, 2729-2762.	3.4	6
134	GEN: Generative Equivariant Networks for Diverse Image-to-Image Translation. IEEE Transactions on Cybernetics, 2023, 53, 874-886.	6.2	6
135	A preliminary study on the use of differential evolution for adjusting the position of examples in nearest neighbor classification. , 2010, , .		5
136	A combined MapReduce-windowing two-level parallel scheme for evolutionary prototype generation. , 2014, , .		5
137	Enhancing instance-level constrained clustering through differential evolution. Applied Soft Computing Journal, 2021, 108, 107435.	4.1	5
138	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
139	Handling Imbalanced Classification Problems With Support Vector Machines via Evolutionary Bilevel Optimization. IEEE Transactions on Cybernetics, 2023, 53, 4735-4747.	6.2	5
140	A study of the scaling up capabilities of stratified prototype generation. , 2011, , .		4
141	Discretization. Intelligent Systems Reference Library, 2015, , 245-283.	1.0	4
142	A preliminary study on Hybrid Spill-Tree Fuzzy k-Nearest Neighbors for big data classification. , 2018, , .		4
143	Algorithm-Level Approaches. , 2018, , 123-146.		4
144	OCAPIS: R package for Ordinal Classification and Preprocessing in Scala. Progress in Artificial Intelligence, 2019, 8, 287-292.	1.5	4

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145	Imbalanced Data Preprocessing for Big Data. , 2020, , 147-160.		4
146	Enhancing IPADE Algorithm with a Different Individual Codification. Lecture Notes in Computer Science, 2011, , 262-270.	1.0	4
147	An Interval Valued K-Nearest Neighbors Classifier. , 0, , .		4
148	A first attempt on evolutionary prototype reduction for nearest neighbor one-class classification. , 2014, , .		3
149	On the statistical analysis of the parametersâ€™ trend in a machine learning algorithm. Progress in Artificial Intelligence, 2014, 3, 51-53.	1.5	3
150	Dimensionality Reduction for Imbalanced Learning. , 2018, , 227-251.		3
151	Ensemble Learning. , 2018, , 147-196.		3
152	An Indexing Algorithm Based on Clustering of Minutia Cylinder Codes for Fast Latent Fingerprint Identification. IEEE Access, 2021, 9, 85488-85499.	2.6	3
153	A Study on the Use of Statistical Tests for Experimentation with Neural Networks. , 2007, , 72-79.		3
154	Landmark-based music recognition system optimisation using genetic algorithms. Multimedia Tools and Applications, 2016, 75, 16905-16922.	2.6	2
155	Data Level Preprocessing Methods. , 2018, , 79-121.		2
156	Cooperative multi-objective evolutionary support vector machines for multiclass problems. , 2018, , .		2
157	A Hybrid Surrogate Model for Evolutionary Undersampling in Imbalanced Classification. , 2020, , .		2
158	Smart Data. , 2020, , 45-51.		2
159	Data Reduction for Big Data. , 2020, , 81-99.		2
160	Data Reduction. Intelligent Systems Reference Library, 2015, , 147-162.	1.0	2
161	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
162	Big Data Preprocessing as the Bridge between Big Data and Smart Data: BigDaPSpark and BigDaPFlink Libraries. , 2019, , .		2

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163	Data Sets and Proper Statistical Analysis of Data Mining Techniques. Intelligent Systems Reference Library, 2015, , 19-38.	1.0	2
164	A Data Mining Software Package Including Data Preparation and Reduction: KEEL. Intelligent Systems Reference Library, 2015, , 285-313.	1.0	2
165	Managing Monotonicity in Classification by a Pruned AdaBoost. Lecture Notes in Computer Science, 2016, , 512-523.	1.0	2
166	A First Approach on Big Data Missing Values Imputation. , 2019, , .		2
167	Big Data Discretization. , 2020, , 121-146.		2
168	Evolutionary Training Set Selection to Optimize C4.5 in Imbalanced Problems. , 2008, , .		1
169	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
170	Imbalanced Classification with Multiple Classes. , 2018, , 197-226.		1
171	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
172	Distance Metric Learning with Prototype Selection for Imbalanced Classification. Lecture Notes in Computer Science, 2021, , 391-402.	1.0	1
173	SOUL: Scala Oversampling and Undersampling Library for imbalance classification. SoftwareX, 2021, 15, 100767.	1.2	1
174	Design of Experiments in Computational Intelligence: On the Use of Statistical Inference. Lecture Notes in Computer Science, 2008, , 4-14.	1.0	1
175	Improving constrained clustering via decomposition-based multiobjective optimization with memetic elitism. , 2020, , .		1
176	A Review on Evolutionary Prototype Selection. , 2010, , 92-113.		1
177	IFS-CoCo in the Landscape Contest: Description and Results. Lecture Notes in Computer Science, 2010, , 56-65.	1.0	1
178	Managing Monotonicity in Classification by a Pruned Random Forest. Lecture Notes in Computer Science, 2015, , 53-60.	1.0	1
179	A First Attempt on Monotonic Training Set Selection. Lecture Notes in Computer Science, 2018, , 277-288.	1.0	1
180	A Nearest Hyperrectangle Monotonic Learning Method. Lecture Notes in Computer Science, 2016, , 311-322.	1.0	0

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181	Software and Libraries for Imbalanced Classification. , 2018, , 351-377.		0
182	CommuniMents. , 2021, , 382-404.		0
183	Incorporating Knowledge in Evolutionary Prototype Selection. Lecture Notes in Computer Science, 2006, , 1358-1366.	1.0	0
184	Applying Subgroup Discovery Based on Evolutionary Fuzzy Systems for Web Usage Mining in E-Commerce: A Case Study on OrOliveSur.com. Advances in Intelligent Systems and Computing, 2014, , 591-601.	0.5	0
185	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
186	Final Thoughts: From Big Data to Smart Data. , 2020, , 183-186.		0
187	Agglomerative Constrained Clustering Through Similarity and Distance Recalculation. Lecture Notes in Computer Science, 2020, , 424-436.	1.0	0
188	Big Data Software. , 2020, , 161-182.		0
189	3SHACC: Three stages hybrid agglomerative constrained clustering. Neurocomputing, 2022, 490, 441-461.	3.5	0
190	Introduction to the Experimental Design in the Data Mining Tool KEEL. , 0, , 1-25.		0