

Salvador Garcia

List of Publications by Citations

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185
papers

15,795
citations

46
h-index

125
g-index

198
ext. papers

19,937
ext. citations

5
avg, IF

7.09
L-index

| # | Paper | IF | Citations |
|-----|--|------|-----------|
| 185 | A practical tutorial on the use of nonparametric statistical tests as a methodology for comparing evolutionary and swarm intelligence algorithms. <i>Swarm and Evolutionary Computation</i> , 2011 , 1, 3-18 | 9.8 | 2857 |
| 184 | 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 |
| 183 | A study on the use of non-parametric tests for analyzing the evolutionary algorithms behaviour: a case study on the CEC2005 Special Session on Real Parameter Optimization. <i>Journal of Heuristics</i> , 2009 , 15, 617-644 | 1.9 | 1223 |
| 182 | Explainable Artificial Intelligence (XAI): Concepts, taxonomies, opportunities and challenges toward responsible AI. <i>Information Fusion</i> , 2020 , 58, 82-115 | 16.7 | 1210 |
| 181 | KEEL: a software tool to assess evolutionary algorithms for data mining problems. <i>Soft Computing</i> , 2009 , 13, 307-318 | 3.5 | 896 |
| 180 | An insight into classification with imbalanced data: Empirical results and current trends on using data intrinsic characteristics. <i>Information Sciences</i> , 2013 , 250, 113-141 | 7.7 | 829 |
| 179 | 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 |
| 178 | Prototype selection for nearest neighbor classification: taxonomy and empirical study. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2012 , 34, 417-35 | 13.3 | 449 |
| 177 | SMOTE for Learning from Imbalanced Data: Progress and Challenges, Marking the 15-year Anniversary. <i>Journal of Artificial Intelligence Research</i> , 2015 , 61, 863-905 | 4 | 415 |
| 176 | . <i>IEEE Transactions on Knowledge and Data Engineering</i> , 2013 , 25, 734-750 | 4.2 | 284 |
| 175 | Data Preprocessing in Data Mining. <i>Intelligent Systems Reference Library</i> , 2015 , | 0.8 | 270 |
| 174 | Self-labeled techniques for semi-supervised learning: taxonomy, software and empirical study. <i>Knowledge and Information Systems</i> , 2015 , 42, 245-284 | 2.4 | 236 |
| 173 | Evolutionary undersampling for classification with imbalanced datasets: proposals and taxonomy. <i>Evolutionary Computation</i> , 2009 , 17, 275-306 | 4.3 | 230 |
| 172 | A survey on data preprocessing for data stream mining: Current status and future directions. <i>Neurocomputing</i> , 2017 , 239, 39-57 | 5.4 | 199 |
| 171 | Learning from Imbalanced Data Sets 2018 , | | 198 |
| 170 | A study of the behaviour of linguistic fuzzy rule based classification systems in the framework of imbalanced data-sets. <i>Fuzzy Sets and Systems</i> , 2008 , 159, 2378-2398 | 3.7 | 196 |
| 169 | Big data preprocessing: methods and prospects. <i>Big Data Analytics</i> , 2016 , 1, | 2.9 | 172 |

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|-----|---|------|-----|
| 168 | A Taxonomy and Experimental Study on Prototype Generation for Nearest Neighbor Classification. <i>IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews</i> , 2012 , 42, 86-100 | | 171 |
| 167 | MRPR: A MapReduce solution for prototype reduction in big data classification. <i>Neurocomputing</i> , 2015 , 150, 331-345 | 5.4 | 159 |
| 166 | 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 |
| 165 | A memetic algorithm for evolutionary prototype selection: A scaling up approach. <i>Pattern Recognition</i> , 2008 , 41, 2693-2709 | 7.7 | 141 |
| 164 | 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 |
| 163 | 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 |
| 162 | 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 |
| 161 | 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 |
| 160 | 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 |
| 159 | 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 |
| 158 | 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 |
| 157 | Evolutionary-based selection of generalized instances for imbalanced classification. <i>Knowledge-Based Systems</i> , 2012 , 25, 3-12 | 7.3 | 99 |
| 156 | Differential evolution for optimizing the positioning of prototypes in nearest neighbor classification. <i>Pattern Recognition</i> , 2011 , 44, 901-916 | 7.7 | 98 |
| 155 | Big Data: Tutorial and guidelines on information and process fusion for analytics algorithms with MapReduce. <i>Information Fusion</i> , 2018 , 42, 51-61 | 16.7 | 90 |
| 154 | Analyzing convergence performance of evolutionary algorithms: A statistical approach. <i>Information Sciences</i> , 2014 , 289, 41-58 | 7.7 | 86 |
| 153 | Enhancing evolutionary instance selection algorithms by means of fuzzy rough set based feature selection. <i>Information Sciences</i> , 2012 , 186, 73-92 | 7.7 | 86 |
| 152 | A survey on fingerprint minutiae-based local matching for verification and identification: Taxonomy and experimental evaluation. <i>Information Sciences</i> , 2015 , 315, 67-87 | 7.7 | 82 |
| 151 | Dynamic ensemble selection for multi-class imbalanced datasets. <i>Information Sciences</i> , 2018 , 445-446, 22-37 | 7.7 | 80 |

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|-----|---|------|----|
| 150 | Fuzzy nearest neighbor algorithms: Taxonomy, experimental analysis and prospects. <i>Information Sciences</i> , 2014 , 260, 98-119 | 7.7 | 72 |
| 149 | Web usage mining to improve the design of an e-commerce website: OrOliveSur.com. <i>Expert Systems With Applications</i> , 2012 , 39, 11243-11249 | 7.8 | 72 |
| 148 | Enhancing the effectiveness and interpretability of decision tree and rule induction classifiers with evolutionary training set selection over imbalanced problems. <i>Applied Soft Computing Journal</i> , 2009 , 9, 1304-1314 | 7.5 | 72 |
| 147 | Data discretization: taxonomy and big data challenge. <i>Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery</i> , 2016 , 6, 5-21 | 6.9 | 71 |
| 146 | Empowering one-vs-one decomposition with ensemble learning for multi-class imbalanced data. <i>Knowledge-Based Systems</i> , 2016 , 106, 251-263 | 7.3 | 66 |
| 145 | Enabling Smart Data: Noise filtering in Big Data classification. <i>Information Sciences</i> , 2019 , 479, 135-152 | 7.7 | 64 |
| 144 | IFS-CoCo: Instance and feature selection based on cooperative coevolution with nearest neighbor rule. <i>Pattern Recognition</i> , 2010 , 43, 2082-2105 | 7.7 | 63 |
| 143 | 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 |
| 142 | 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 |
| 141 | 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 |
| 140 | Evolutionary fuzzy k-nearest neighbors algorithm using interval-valued fuzzy sets. <i>Information Sciences</i> , 2016 , 329, 144-163 | 7.7 | 53 |
| 139 | A First Study on the Use of Coevolutionary Algorithms for Instance and Feature Selection. <i>Lecture Notes in Computer Science</i> , 2009 , 557-564 | 0.9 | 46 |
| 138 | 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 |
| 137 | Integrating instance selection, instance weighting, and feature weighting for nearest neighbor classifiers by coevolutionary algorithms. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , 2012 , 42, 1383-97 | | 45 |
| 136 | On the use of convolutional neural networks for robust classification of multiple fingerprint captures. <i>International Journal of Intelligent Systems</i> , 2018 , 33, 213-230 | 8.4 | 44 |
| 135 | IPADE: Iterative prototype adjustment for nearest neighbor classification. <i>IEEE Transactions on Neural Networks</i> , 2010 , 21, 1984-90 | | 43 |
| 134 | A comparison on scalability for batch big data processing on Apache Spark and Apache Flink. <i>Big Data Analytics</i> , 2017 , 2, | 2.9 | 42 |
| 133 | A survey of fingerprint classification Part I: Taxonomies on feature extraction methods and learning models. <i>Knowledge-Based Systems</i> , 2015 , 81, 76-97 | 7.3 | 42 |

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|-----|---|------|----|
| 132 | Addressing imbalanced classification with instance generation techniques: IPADE-ID. <i>Neurocomputing</i> , 2014 , 126, 15-28 | 5.4 | 42 |
| 131 | A Survey on Evolutionary Instance Selection and Generation. <i>International Journal of Applied Metaheuristic Computing</i> , 2010 , 1, 60-92 | 0.8 | 42 |
| 130 | SEG-SSC: a framework based on synthetic examples generation for self-labeled semi-supervised classification. <i>IEEE Transactions on Cybernetics</i> , 2015 , 45, 622-34 | 10.2 | 41 |
| 129 | Nearest Neighbor Classification for High-Speed Big Data Streams Using Spark. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2017 , 47, 2727-2739 | 7.3 | 38 |
| 128 | . <i>IEEE Transactions on Evolutionary Computation</i> , 2017 , 21, 863-877 | 15.6 | 36 |
| 127 | A survey of fingerprint classification Part II: Experimental analysis and ensemble proposal. <i>Knowledge-Based Systems</i> , 2015 , 81, 98-116 | 7.3 | 31 |
| 126 | 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 |
| 125 | Evolutionary Fuzzy Rule-Based Methods for Monotonic Classification. <i>IEEE Transactions on Fuzzy Systems</i> , 2017 , 25, 1376-1390 | 8.3 | 29 |
| 124 | Monotonic Random Forest with an Ensemble Pruning Mechanism based on the Degree of Monotonicity. <i>New Generation Computing</i> , 2015 , 33, 367-388 | 0.9 | 29 |
| 123 | A tutorial on distance metric learning: Mathematical foundations, algorithms, experimental analysis, prospects and challenges. <i>Neurocomputing</i> , 2021 , 425, 300-322 | 5.4 | 29 |
| 122 | Imbalance: Oversampling algorithms for imbalanced classification in R. <i>Knowledge-Based Systems</i> , 2018 , 161, 329-341 | 7.3 | 29 |
| 121 | Multivariate Discretization Based on Evolutionary Cut Points Selection for Classification. <i>IEEE Transactions on Cybernetics</i> , 2016 , 46, 595-608 | 10.2 | 28 |
| 120 | Addressing the Classification with Imbalanced Data: Open Problems and New Challenges on Class Distribution. <i>Lecture Notes in Computer Science</i> , 2011 , 1-10 | 0.9 | 28 |
| 119 | Stratified prototype selection based on a steady-state memetic algorithm: a study of scalability. <i>Memetic Computing</i> , 2010 , 2, 183-199 | 3.4 | 28 |
| 118 | Evolutionary wrapper approaches for training set selection as preprocessing mechanism for support vector machines: Experimental evaluation and support vector analysis. <i>Applied Soft Computing Journal</i> , 2016 , 38, 10-22 | 7.5 | 27 |
| 117 | Class Switching according to Nearest Enemy Distance for learning from highly imbalanced data-sets. <i>Pattern Recognition</i> , 2017 , 70, 12-24 | 7.7 | 27 |
| 116 | On the use of evolutionary feature selection for improving fuzzy rough set based prototype selection. <i>Soft Computing</i> , 2013 , 17, 223-238 | 3.5 | 27 |
| 115 | Minutiae-based fingerprint matching decomposition: Methodology for big data frameworks. <i>Information Sciences</i> , 2017 , 408, 198-212 | 7.7 | 24 |

| | | | |
|-----|---|-----|----|
| 114 | Distributed incremental fingerprint identification with reduced database penetration rate using a hierarchical classification based on feature fusion and selection. <i>Knowledge-Based Systems</i> , 2017 , 126, 91-103 | 7.3 | 24 |
| 113 | Monotonic classification: An overview on algorithms, performance measures and data sets. <i>Neurocomputing</i> , 2019 , 341, 168-182 | 5.4 | 24 |
| 112 | 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 |
| 111 | Cost-Sensitive back-propagation neural networks with binarization techniques in addressing multi-class problems and non-competent classifiers. <i>Applied Soft Computing Journal</i> , 2017 , 56, 357-367 | 7.5 | 22 |
| 110 | Principal Components Analysis Random Discretization Ensemble for Big Data. <i>Knowledge-Based Systems</i> , 2018 , 150, 166-174 | 7.3 | 22 |
| 109 | DIAGNOSE EFFECTIVE EVOLUTIONARY PROTOTYPE SELECTION USING AN OVERLAPPING MEASURE. <i>International Journal of Pattern Recognition and Artificial Intelligence</i> , 2009 , 23, 1527-1548 | 1.1 | 22 |
| 108 | CommuniMents. <i>International Journal on Semantic Web and Information Systems</i> , 2017 , 13, 87-108 | 1.4 | 21 |
| 107 | A distributed evolutionary multivariate discretizer for Big Data processing on Apache Spark. <i>Swarm and Evolutionary Computation</i> , 2018 , 38, 240-250 | 9.8 | 21 |
| 106 | Integrating a differential evolution feature weighting scheme into prototype generation. <i>Neurocomputing</i> , 2012 , 97, 332-343 | 5.4 | 21 |
| 105 | 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 |
| 104 | Subgroup discover in large size data sets preprocessed using stratified instance selection for increasing the presence of minority classes. <i>Pattern Recognition Letters</i> , 2008 , 29, 2156-2164 | 4.7 | 20 |
| 103 | Exploring the effectiveness of dynamic ensemble selection in the one-versus-one scheme. <i>Knowledge-Based Systems</i> , 2017 , 125, 53-63 | 7.3 | 19 |
| 102 | Big Data Preprocessing 2020 , | | 19 |
| 101 | Evolutionary selection of hyperrectangles in nested generalized exemplar learning. <i>Applied Soft Computing Journal</i> , 2011 , 11, 3032-3045 | 7.5 | 17 |
| 100 | Making CN2-SD subgroup discovery algorithm scalable to large size data sets using instance selection. <i>Expert Systems With Applications</i> , 2008 , 35, 1949-1965 | 7.8 | 17 |
| 99 | 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 |
| 98 | Prototype selection to improve monotonic nearest neighbor. <i>Engineering Applications of Artificial Intelligence</i> , 2017 , 60, 128-135 | 7.2 | 16 |
| 97 | Instance reduction for one-class classification. <i>Knowledge and Information Systems</i> , 2019 , 59, 601-628 | 2.4 | 16 |

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|----|--|------|----|
| 96 | rNPBST: An R Package Covering Non-parametric and Bayesian Statistical Tests. <i>Lecture Notes in Computer Science</i> , 2017 , 281-292 | 0.9 | 16 |
| 95 | Current prospects on ordinal and monotonic classification. <i>Progress in Artificial Intelligence</i> , 2016 , 5, 171-179 | 17.7 | 15 |
| 94 | Distributed Entropy Minimization Discretizer for Big Data Analysis under Apache Spark 2015 , | | 15 |
| 93 | How to design the fair experimental classifier evaluation. <i>Applied Soft Computing Journal</i> , 2021 , 104, 107219 | 7.5 | 15 |
| 92 | DPD-DFF: A dual phase distributed scheme with double fingerprint fusion for fast and accurate identification in large databases. <i>Information Fusion</i> , 2016 , 32, 40-51 | 16.7 | 15 |
| 91 | Chain based sampling for monotonic imbalanced classification. <i>Information Sciences</i> , 2019 , 474, 187-204 | 7.7 | 15 |
| 90 | MC2ESVM: Multiclass Classification Based on Cooperative Evolution of Support Vector Machines. <i>IEEE Computational Intelligence Magazine</i> , 2018 , 13, 18-29 | 5.6 | 13 |
| 89 | Online entropy-based discretization for data streaming classification. <i>Future Generation Computer Systems</i> , 2018 , 86, 59-70 | 7.5 | 12 |
| 88 | Exact fuzzy k-nearest neighbor classification for big datasets 2017 , | | 12 |
| 87 | Hyperrectangles Selection for Monotonic Classification by Using Evolutionary Algorithms. <i>International Journal of Computational Intelligence Systems</i> , 2016 , 9, 184 | 3.4 | 11 |
| 86 | Adaptive cooperation of multi-swarm particle swarm optimizer-based hidden Markov model. <i>Progress in Artificial Intelligence</i> , 2019 , 8, 441-452 | 4 | 9 |
| 85 | Statistical analysis of convergence performance throughout the evolutionary search: A case study with SaDE-MMTS and Sa-EPsDE-MMTS 2013 , | | 9 |
| 84 | MoNGEL: monotonic nested generalized exemplar learning. <i>Pattern Analysis and Applications</i> , 2017 , 20, 441-452 | 2.3 | 8 |
| 83 | Smartdata: Data preprocessing to achieve smart data in R. <i>Neurocomputing</i> , 2019 , 360, 1-13 | 5.4 | 8 |
| 82 | KEEL: A data mining software tool integrating genetic fuzzy systems 2008 , | | 8 |
| 81 | Preprocessing methodology for time series: An industrial world application case study. <i>Information Sciences</i> , 2020 , 514, 385-401 | 7.7 | 8 |
| 80 | Training set selection for monotonic ordinal classification. <i>Data and Knowledge Engineering</i> , 2017 , 112, 94-105 | 1.5 | 7 |
| 79 | Feature Selection. <i>Intelligent Systems Reference Library</i> , 2015 , 163-193 | 0.8 | 7 |

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|----|---|-----|---|
| 78 | Self Inertia Weight Adaptation for the Particle Swarm Optimization 2018 , | | 7 |
| 77 | DPASF: a flink library for streaming data preprocessing. <i>Big Data Analytics</i> , 2019 , 4, | 2.9 | 7 |
| 76 | 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 |
| 75 | Dealing with Missing Values. <i>Intelligent Systems Reference Library</i> , 2015 , 59-105 | 0.8 | 7 |
| 74 | Fuzzy k-nearest neighbors with monotonicity constraints: Moving towards the robustness of monotonic noise. <i>Neurocomputing</i> , 2021 , 439, 106-121 | 5.4 | 6 |
| 73 | EUSC: A clustering-based surrogate model to accelerate evolutionary undersampling in imbalanced classification. <i>Applied Soft Computing Journal</i> , 2021 , 101, 107033 | 7.5 | 6 |
| 72 | Label noise filtering techniques to improve monotonic classification. <i>Neurocomputing</i> , 2019 , 353, 83-95 | 5.4 | 5 |
| 71 | DILS: Constrained clustering through dual iterative local search. <i>Computers and Operations Research</i> , 2020 , 121, 104979 | 4.6 | 5 |
| 70 | A combined MapReduce-windowing two-level parallel scheme for evolutionary prototype generation 2014 , | | 5 |
| 69 | Using KEEL software as a educational tool: A case of study teaching data mining 2011 , | | 5 |
| 68 | Dealing with Noisy Data. <i>Intelligent Systems Reference Library</i> , 2015 , 107-145 | 0.8 | 5 |
| 67 | An Analysis of the Rule Weights and Fuzzy Reasoning Methods for Linguistic Rule Based Classification Systems Applied to Problems with Highly Imbalanced Data Sets. <i>Lecture Notes in Computer Science</i> , 2007 , 170-178 | 0.9 | 5 |
| 66 | Introduction to KDD and Data Science 2018 , 1-17 | | 5 |
| 65 | Foundations on Imbalanced Classification 2018 , 19-46 | | 5 |
| 64 | A study of the scaling up capabilities of stratified prototype generation 2011 , | | 4 |
| 63 | A Survey on Evolutionary Instance Selection and Generation 2011 , 233-266 | | 4 |
| 62 | Instance Selection. <i>Intelligent Systems Reference Library</i> , 2015 , 195-243 | 0.8 | 4 |
| 61 | Enhancing IPADE Algorithm with a Different Individual Codification. <i>Lecture Notes in Computer Science</i> , 2011 , 262-270 | 0.9 | 4 |

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|----|---|------|---|
| 60 | Data Preparation Basic Models. <i>Intelligent Systems Reference Library</i> , 2015 , 39-57 | 0.8 | 4 |
| 59 | From Big Data to Smart Data with the K-Nearest Neighbours Algorithm 2016 , | | 4 |
| 58 | Imbalanced Classification for Big Data 2018 , 327-349 | | 4 |
| 57 | Algorithm-Level Approaches 2018 , 123-146 | | 4 |
| 56 | ProLSFEO-LDL: Prototype Selection and Label- Specific Feature Evolutionary Optimization for Label Distribution Learning. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 3089 | 2.6 | 3 |
| 55 | A first attempt on evolutionary prototype reduction for nearest neighbor one-class classification 2014 , | | 3 |
| 54 | On the statistical analysis of the parameters trend in a machine learning algorithm. <i>Progress in Artificial Intelligence</i> , 2014 , 3, 51-53 | 4 | 3 |
| 53 | A preliminary study on the use of differential evolution for adjusting the position of examples in nearest neighbor classification 2010 , | | 3 |
| 52 | Addressing Data-Complexity for Imbalanced Data-Sets: A Preliminary Study on the Use of Preprocessing for C4.5 2009 , | | 3 |
| 51 | A First Approach to Nearest Hyperrectangle Selection by Evolutionary Algorithms 2009 , | | 3 |
| 50 | Synthetic Sample Generation for Label Distribution Learning. <i>Information Sciences</i> , 2021 , 544, 197-213 | 7.7 | 3 |
| 49 | Decomposition-Fusion for Label Distribution Learning. <i>Information Fusion</i> , 2021 , 66, 64-75 | 16.7 | 3 |
| 48 | Ensemble Learning 2018 , 147-196 | | 3 |
| 47 | A Proposal of Evolutionary Prototype Selection for Class Imbalance Problems. <i>Lecture Notes in Computer Science</i> , 2006 , 1415-1423 | 0.9 | 3 |
| 46 | OCAPIS: R package for Ordinal Classification and Preprocessing in Scala. <i>Progress in Artificial Intelligence</i> , 2019 , 8, 287-292 | 4 | 2 |
| 45 | Discretization. <i>Intelligent Systems Reference Library</i> , 2015 , 245-283 | 0.8 | 2 |
| 44 | Big Data Discretization 2020 , 121-146 | | 2 |
| 43 | Smart Data 2020 , 45-51 | | 2 |

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| 42 | Imbalanced Data Preprocessing for Big Data 2020 , 147-160 | | 2 |
| 41 | A Study on the Use of the Fuzzy Reasoning Method Based on the Winning Rule vs. Voting Procedure for Classification with Imbalanced Data Sets. <i>Lecture Notes in Computer Science</i> , 2007 , 375-382 ^{9,9} | | 2 |
| 40 | A Data Mining Software Package Including Data Preparation and Reduction: KEEL. <i>Intelligent Systems Reference Library</i> , 2015 , 285-313 | 0.8 | 2 |
| 39 | Managing Monotonicity in Classification by a Pruned AdaBoost. <i>Lecture Notes in Computer Science</i> , 2016 , 512-523 | 0.9 | 2 |
| 38 | BELIEF: A distance-based redundancy-proof feature selection method for Big Data. <i>Information Sciences</i> , 2021 , 558, 124-139 | 7.7 | 2 |
| 37 | A preliminary study on Hybrid Spill-Tree Fuzzy k-Nearest Neighbors for big data classification 2018 , | | 2 |
| 36 | Dimensionality Reduction for Imbalanced Learning 2018 , 227-251 | | 2 |
| 35 | Data Intrinsic Characteristics 2018 , 253-277 | | 2 |
| 34 | Enhancing instance-level constrained clustering through differential evolution. <i>Applied Soft Computing Journal</i> , 2021 , 108, 107435 | 7.5 | 2 |
| 33 | A Co-evolutionary Framework for Nearest Neighbor Enhancement: Combining Instance and Feature Weighting with Instance Selection. <i>Lecture Notes in Computer Science</i> , 2012 , 176-187 | 0.9 | 1 |
| 32 | 2008 , | | 1 |
| 31 | Improving constrained clustering via decomposition-based multiobjective optimization with memetic elitism 2020 , | | 1 |
| 30 | A Review on Evolutionary Prototype Selection 2010 , 92-113 | | 1 |
| 29 | A First Attempt on Monotonic Training Set Selection. <i>Lecture Notes in Computer Science</i> , 2018 , 277-288 | 0.9 | 1 |
| 28 | Data Reduction for Big Data 2020 , 81-99 | | 1 |
| 27 | Data Reduction. <i>Intelligent Systems Reference Library</i> , 2015 , 147-162 | 0.8 | 1 |
| 26 | A Study on the Use of Statistical Tests for Experimentation with Neural Networks 2007 , 72-79 | | 1 |
| 25 | Design of Experiments in Computational Intelligence: On the Use of Statistical Inference. <i>Lecture Notes in Computer Science</i> , 2008 , 4-14 | 0.9 | 1 |

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|----|--|-----|---|
| 24 | A Preliminary Study on the Use of Fuzzy Rough Set Based Feature Selection for Improving Evolutionary Instance Selection Algorithms. <i>Lecture Notes in Computer Science</i> , 2011 , 174-182 | 0.9 | 1 |
| 23 | Data Sets and Proper Statistical Analysis of Data Mining Techniques. <i>Intelligent Systems Reference Library</i> , 2015 , 19-38 | 0.8 | 1 |
| 22 | Managing Monotonicity in Classification by a Pruned Random Forest. <i>Lecture Notes in Computer Science</i> , 2015 , 53-60 | 0.9 | 1 |
| 21 | IFS-CoCo in the Landscape Contest: Description and Results. <i>Lecture Notes in Computer Science</i> , 2010 , 56-65 | 0.9 | 1 |
| 20 | Landmark-based music recognition system optimisation using genetic algorithms. <i>Multimedia Tools and Applications</i> , 2016 , 75, 16905-16922 | 2.5 | 1 |
| 19 | . <i>IEEE Access</i> , 2021 , 9, 85488-85499 | 3.5 | 1 |
| 18 | Distance Metric Learning with Prototype Selection for Imbalanced Classification. <i>Lecture Notes in Computer Science</i> , 2021 , 391-402 | 0.9 | 1 |
| 17 | On the Use of Random Discretization and Dimensionality Reduction in Ensembles for Big Data. <i>Lecture Notes in Computer Science</i> , 2018 , 15-26 | 0.9 | 1 |
| 16 | Ordinal regression with explainable distance metric learning based on ordered sequences. <i>Machine Learning</i> , 1 | 4 | 1 |
| 15 | An empirical study on the joint impact of feature selection and data resampling on imbalance classification. <i>Applied Intelligence</i> , | 4.9 | 1 |
| 14 | SOUL: Scala Oversampling and Undersampling Library for imbalance classification. <i>SoftwareX</i> , 2021 , 15, 100767 | 2.7 | 0 |
| 13 | Data Level Preprocessing Methods 2018 , 79-121 | | 0 |
| 12 | Imbalanced Classification with Multiple Classes 2018 , 197-226 | | 0 |
| 11 | Big Data Software 2020 , 161-182 | | |
| 10 | Incorporating Knowledge in Evolutionary Prototype Selection. <i>Lecture Notes in Computer Science</i> , 2006 , 1358-1366 | 0.9 | |
| 9 | Final Thoughts: From Big Data to Smart Data 2020 , 183-186 | | |
| 8 | Agglomerative Constrained Clustering Through Similarity and Distance Recalculation. <i>Lecture Notes in Computer Science</i> , 2020 , 424-436 | 0.9 | |
| 7 | Imperfect Big Data 2020 , 101-119 | | |

- 6 A Wrapper Evolutionary Approach for Supervised Multivariate Discretization: A Case Study on Decision Trees. *Advances in Intelligent Systems and Computing*, **2016**, 47-58 0.4
- 5 A Preliminary Study on the Selection of Generalized Instances for Imbalanced Classification. *Lecture Notes in Computer Science*, **2010**, 601-610 0.9
- 4 A Nearest Hyperrectangle Monotonic Learning Method. *Lecture Notes in Computer Science*, **2016**, 311-320.9
- 3 CommuniMents **2021**, 382-404
- 2 Software and Libraries for Imbalanced Classification **2018**, 351-377
- 1 Introduction to the Experimental Design in the Data Mining Tool KEEL1-25