

Vicente GarcÃ-a

List of Publications by Year in descending order

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Version: 2024-02-01

96
papers

4,019
citations

172457

29
h-index

123424

61
g-index

101
all docs

101
docs citations

101
times ranked

5284
citing authors

#	ARTICLE	IF	CITATIONS
1	Strategies for learning in class imbalance problems. <i>Pattern Recognition</i> , 2003, 36, 849-851.	8.1	462
2	Electric-field control of magnetic order above room temperature. <i>Nature Materials</i> , 2014, 13, 345-351.	27.5	451
3	Interface-induced room-temperature multiferroicity in BaTiO ₃ . <i>Nature Materials</i> , 2011, 10, 753-758.	27.5	341
4	On the effectiveness of preprocessing methods when dealing with different levels of class imbalance. <i>Knowledge-Based Systems</i> , 2012, 25, 13-21.	7.1	256
5	Real-space imaging of non-collinear antiferromagnetic order with a single-spin magnetometer. <i>Nature</i> , 2017, 549, 252-256.	27.8	203
6	On the k-NN performance in a challenging scenario of imbalance and overlapping. <i>Pattern Analysis and Applications</i> , 2008, 11, 269-280.	4.6	171
7	A Role for p27/Kip1 in the Control of Cerebellar Granule Cell Precursor Proliferation. <i>Journal of Neuroscience</i> , 2000, 20, 5756-5763.	3.6	143
8	Effect of formic acid on performance, digestibility, intestinal histomorphology and plasma metabolite levels of broiler chickens. <i>British Poultry Science</i> , 2006, 47, 50-56.	1.7	141
9	On the suitability of resampling techniques for the class imbalance problem in credit scoring. <i>Journal of the Operational Research Society</i> , 2013, 64, 1060-1070.	3.4	117
10	Exploring the behaviour of base classifiers in credit scoring ensembles. <i>Expert Systems With Applications</i> , 2012, 39, 10244-10250.	7.6	106
11	Exploring the synergetic effects of sample types on the performance of ensembles for credit risk and corporate bankruptcy prediction. <i>Information Fusion</i> , 2019, 47, 88-101.	19.1	92
12	Two-level classifier ensembles for credit risk assessment. <i>Expert Systems With Applications</i> , 2012, 39, 10916-10922.	7.6	90
13	Index of Balanced Accuracy: A Performance Measure for Skewed Class Distributions. <i>Lecture Notes in Computer Science</i> , 2009, , 441-448.	1.3	84
14	A literature review on the application of evolutionary computing to credit scoring. <i>Journal of the Operational Research Society</i> , 2013, 64, 1384-1399.	3.4	81
15	Serotypes of <i>Escherichia coli</i> isolated from septicaemic chickens in Galicia (Northwest Spain). <i>Veterinary Microbiology</i> , 1998, 61, 229-235.	1.9	77
16	CD40 Signals Apoptosis through FAN-regulated Activation of the Sphingomyelin-Ceramide Pathway. <i>Journal of Biological Chemistry</i> , 1999, 274, 37251-37258.	3.4	64
17	A hybrid method to face class overlap and class imbalance on neural networks and multi-class scenarios. <i>Pattern Recognition Letters</i> , 2013, 34, 380-388.	4.2	60
18	Financial distress prediction using the hybrid associative memory with translation. <i>Applied Soft Computing Journal</i> , 2016, 44, 144-152.	7.2	60

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19	An insight into the experimental design for credit risk and corporate bankruptcy prediction systems. Journal of Intelligent Information Systems, 2015, 44, 159-189.	3.9	59
20	An ATM homologue from Arabidopsis thaliana: complete genomic organisation and expression analysis. Nucleic Acids Research, 2000, 28, 1692-1699.	14.5	54
21	Using regression models for predicting the product quality in a tubing extrusion process. Journal of Intelligent Manufacturing, 2019, 30, 2535-2544.	7.3	53
22	Understanding the apparent superiority of over-sampling through an analysis of local information for class-imbalanced data. Expert Systems With Applications, 2020, 158, 113026.	7.6	52
23	Caspase-mediated inhibition of sphingomyelin synthesis is involved in FasL-triggered cell death. Cell Death and Differentiation, 2010, 17, 642-654.	11.2	49
24	An Empirical Study of the Behavior of Classifiers on Imbalanced and Overlapped Data Sets. , 2007, , 397-406.		42
25	Surrounding neighborhood-based SMOTE for learning from imbalanced data sets. Progress in Artificial Intelligence, 2012, 1, 347-362.	2.4	41
26	Theoretical Analysis of a Performance Measure for Imbalanced Data. , 2010, , .		38
27	Structural organization of the multienzyme complex of mammalian aminoacyl-tRNA synthetases. Biochemistry, 1988, 27, 6921-6928.	2.5	37
28	Mapping microarray gene expression data into dissimilarity spaces for tumor classification. Information Sciences, 2015, 294, 362-375.	6.9	36
29	An Enhanced Lightweight IoT-based Authentication Scheme in Cloud Computing Circumstances. Sensors, 2019, 19, 2098.	3.8	33
30	Combined Effects of Class Imbalance and Class Overlap on Instance-Based Classification. Lecture Notes in Computer Science, 2006, , 371-378.	1.3	31
31	Retrovirus-Mediated Correction of the Metabolic Defect in Cultured Farber Disease Cells. Human Gene Therapy, 1999, 10, 1321-1329.	2.7	30
32	An Efficient Over-sampling Approach Based on Mean Square Error Back-propagation for Dealing with the Multi-class Imbalance Problem. Neural Processing Letters, 2015, 42, 603-617.	3.2	28
33	Ranking-based MCDM models in financial management applications: analysis and emerging challenges. Progress in Artificial Intelligence, 2020, 9, 171-193.	2.4	28
34	Implementing a Novel Use of Multicriteria Decision Analysis to Select IIoT Platforms for Smart Manufacturing. Symmetry, 2020, 12, 368.	2.2	26
35	Improving the Performance of the RBF Neural Networks Trained with Imbalanced Samples. , 2007, , 162-169.		22
36	On the use of data filtering techniques for credit risk prediction with instance-based models. Expert Systems With Applications, 2012, 39, 13267-13276.	7.6	22

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37	A bias correction function for classification performance assessment in two-class imbalanced problems. Knowledge-Based Systems, 2014, 59, 66-74.	7.1	20
38	Outranking-based multi-objective PSO for scheduling unrelated parallel machines with a freight industry-oriented application. Engineering Applications of Artificial Intelligence, 2022, 108, 104556.	8.1	19
39	Dissimilarity-Based Linear Models for Corporate Bankruptcy Prediction. Computational Economics, 2019, 53, 1019-1031.	2.6	17
40	Deep transfer learning for the recognition of types of face masks as a core measure to prevent the transmission of COVID-19. Applied Soft Computing Journal, 2022, 125, 109207.	7.2	16
41	Clinical and microbiological efficacy of an antimicrobial mouth rinse containing 0.05% cetylpyridinium chloride in patients with gingivitis. International Journal of Dental Hygiene, 2012, 10, 98-106.	1.9	15
42	News Classification for Identifying Traffic Incident Points in a Spanish-Speaking Country: A Real-World Case Study of Class Imbalance Learning. Applied Sciences (Switzerland), 2020, 10, 6253.	2.5	14
43	Exploring the Performance of Resampling Strategies for the Class Imbalance Problem. Lecture Notes in Computer Science, 2010, , 541-549.	1.3	13
44	Auto-adaptive multilayer perceptron for univariate time series classification. Expert Systems With Applications, 2021, 181, 115147.	7.6	12
45	Associative learning on imbalanced environments: An empirical study. Expert Systems With Applications, 2016, 54, 387-397.	7.6	10
46	Plaque inhibitory effect of a 0.05% cetyl-pyridinium chloride mouth-rinse in a 4-day non-brushing model. International Journal of Dental Hygiene, 2011, 9, 266-273.	1.9	9
47	Making Accurate Credit Risk Predictions with Cost-Sensitive MLP Neural Networks. Advances in Intelligent Systems and Computing, 2013, , 1-8.	0.6	9
48	Improving the Classification Accuracy of RBF and MLP Neural Networks Trained with Imbalanced Samples. Lecture Notes in Computer Science, 2006, , 464-471.	1.3	9
49	Gene selection and disease prediction from gene expression data using a two-stage hetero-associative memory. Progress in Artificial Intelligence, 2019, 8, 63-71.	2.4	8
50	When Overlapping Unexpectedly Alters the Class Imbalance Effects. Lecture Notes in Computer Science, 2007, , 499-506.	1.3	8
51	Fuzzy-Based Time Series Forecasting and Modelling: A Bibliometric Analysis. Applied Sciences (Switzerland), 2022, 12, 6894.	2.5	8
52	Improving Risk Predictions by Preprocessing Imbalanced Credit Data. Lecture Notes in Computer Science, 2012, , 68-75.	1.3	7
53	A regression model based on the nearest centroid neighborhood. Pattern Analysis and Applications, 2018, 21, 941-951.	4.6	7
54	A New Performance Evaluation Method for Two-Class Imbalanced Problems. Lecture Notes in Computer Science, 2008, , 917-925.	1.3	7

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55	Classification of High Dimensional and Imbalanced Hyperspectral Imagery Data. Lecture Notes in Computer Science, 2011, , 644-651.	1.3	7
56	Interfaz de lenguaje natural para consultar cubos multidimensionales utilizando procesamiento analítico en IA. Research in Computing Science, 2018, 147, 153-165.	0.1	7
57	Dissimilarity-Based Learning from Imbalanced Data with Small Disjuncts and Noise. Lecture Notes in Computer Science, 2015, , 370-378.	1.3	6
58	Synergetic Application of Multi-Criteria Decision-Making Models to Credit Granting Decision Problems. Applied Sciences (Switzerland), 2019, 9, 5052.	2.5	6
59	Back Propagation with Balanced MSE Cost Function and Nearest Neighbor Editing for Handling Class Overlap and Class Imbalance. Lecture Notes in Computer Science, 2011, , 199-206.	1.3	6
60	Non-parametric Statistical Analysis of Machine Learning Methods for Credit Scoring. Advances in Intelligent Systems and Computing, 2012, , 263-272.	0.6	6
61	Selection of IoT Platform with Multi-Criteria Analysis: Defining Criteria and Experts to Interview. Research in Computing Science, 2019, 148, 9-19.	0.1	6
62	Analysis of Discrepancy Metrics Used in Medical Image Segmentation. IEEE Latin America Transactions, 2015, 13, 235-240.	1.6	5
63	An Insight on the "Large G, Small n" Problem in Gene-Expression Microarray Classification. Lecture Notes in Computer Science, 2017, , 483-490.	1.3	5
64	Learning from Imbalanced Sets through Resampling and Weighting. Lecture Notes in Computer Science, 2003, , 80-88.	1.3	5
65	Assessment of Financial Risk Prediction Models with Multi-criteria Decision Making Methods. Lecture Notes in Computer Science, 2012, , 60-67.	1.3	5
66	Minería de opiniones aplicada a la evaluación docente de la UACJ. Research in Computing Science, 2018, 147, 167-177.	0.1	5
67	Gait-based Gender Classification Considering Resampling and Feature Selection. Journal of Image and Graphics(UK), 2013, 1, 85-89.	3.2	5
68	Predicting Airline Customer Satisfaction using k-nn Ensemble Regression Models. Research in Computing Science, 2019, 148, 205-215.	0.1	4
69	Preliminary Evaluation of a Simple Method for Detection of Bovine Tuberculosis: the Glutaraldehyde Test. Zoonoses and Public Health, 1993, 40, 27-30.	1.4	3
70	Susceptibility Profile to Common Antimicrobials Used for Eradication of Helicobacter pylori Infection in Mexico by Agar Dilution Method. Journal of Chemotherapy, 2007, 19, 108-109.	1.5	3
71	Model Selection for Financial Distress Prediction by Aggregating TOPSIS and PROMETHEE Rankings. Lecture Notes in Computer Science, 2016, , 524-535.	1.3	3
72	Addressing the Links Between Dimensionality and Data Characteristics in Gene-Expression Microarrays. , 2018, , .		3

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73	Pre-existing comorbidity, the highest risk factor for poor prognosis of COVID-19 among the Mexican population. <i>Nova Scientia</i> , 0, 13, .	0.1	3
74	Metaheuristics for Order Picking Optimisation: A Comparison Among Three Swarm-Intelligence Algorithms. <i>Studies in Systems, Decision and Control</i> , 2022, , 177-194.	1.0	3
75	Use of Ensemble Based on GA for Imbalance Problem. <i>Lecture Notes in Computer Science</i> , 2009, , 547-554.	1.3	3
76	Exploring Synergetic Effects of Dimensionality Reduction and Resampling Tools on Hyperspectral Imagery Data Classification. <i>Lecture Notes in Computer Science</i> , 2011, , 511-523.	1.3	3
77	My Personal Images as My Graphical Password. <i>IEEE Latin America Transactions</i> , 2018, 16, 1516-1523.	1.6	2
78	Reliability analysis for DC motors under voltage step-stress scenario. <i>Electrical Engineering</i> , 2020, 102, 1433-1440.	2.0	2
79	Melodic Track Identification in MIDI Files Considering the Imbalanced Context. <i>Lecture Notes in Computer Science</i> , 2009, , 489-496.	1.3	2
80	Cost-Sensitive Neural Networks and Editing Techniques for Imbalance Problems. <i>Lecture Notes in Computer Science</i> , 2010, , 180-188.	1.3	2
81	Hybrid Associative Memories for Imbalanced Data Classification: An Experimental Study. <i>Lecture Notes in Computer Science</i> , 2013, , 325-334.	1.3	2
82	Evaluation of Denoising Methods in the Spatial Domain for Medical Ultrasound Imaging Applications. <i>Intelligent Systems Reference Library</i> , 2017, , 263-281.	1.2	1
83	Process capability index for AC transformer under electrical harmonics. <i>Electrical Engineering</i> , 2018, 100, 347-353.	2.0	1
84	Design and Implementation of an IoT-Based Haptic Interface Implemented by Memetic Algorithms to Improve Competitiveness in an Industry 4.0 Model for the Manufacturing Sector. <i>Advances in Intelligent Systems and Computing</i> , 2019, , 103-117.	0.6	1
85	Risk Score Based on Critical Factors Associated with COVID-19. <i>IEEE Latin America Transactions</i> , 2021, 19, 1090-1098.	1.6	1
86	Instance Selection Methods and Resampling Techniques for Dissimilarity Representation with Imbalanced Data Sets. <i>Advances in Intelligent Systems and Computing</i> , 2013, , 149-160.	0.6	1
87	Empirical Study of the Associative Approach in the Context of Classification Problems. <i>Computacion Y Sistemas</i> , 2019, 23, .	0.3	1
88	Use of Elephant Search Algorithm to Solve an Order Picking Problem in a Mobile Atelier. <i>Advances in Human Resources Management and Organizational Development Book Series</i> , 2019, , 161-172.	0.3	1
89	Design of an Order Picking Reduce Module Using Bat Algorithm. <i>Advances in Human Resources Management and Organizational Development Book Series</i> , 2019, , 211-225.	0.3	1
90	Instance Selection for the Nearest Neighbor Classifier: Connecting the Performance to the Underlying Data Structure. <i>Lecture Notes in Computer Science</i> , 2019, , 249-256.	1.3	1

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91	The quality control of tuberculin PPD products from seven Latin American laboratories. Journal of Biological Standardization, 1989, 17, 233-239.	0.4	0
92	Denosing of Ultrasound Medical Images Using the DM6437 High-Performance Digital Media Processor. , 2018, , 3-25.		0
93	Opinion Mining for Instructor Evaluations at the Autonomous University of Ciudad Juarez. Advances in Computational Intelligence and Robotics Book Series, 2021, , 427-444.	0.4	0
94	Identifying Suggestions in Airline-User Tweets Using Natural Language Processing and Machine Learning. Advances in Computational Intelligence and Robotics Book Series, 2021, , 481-498.	0.4	0
95	Deep Neural Network to Detect Gender Violence on Mexican Tweets. Lecture Notes in Computer Science, 2021, , 24-32.	1.3	0
96	Revisiting the Dissimilarity Representation in the Context of Regression. IEEE Access, 2021, 9, 157043-157051.	4.2	0