

# Vicente GarcÃ-a

## List of Publications by Year in descending order

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96  
papers

4,019  
citations

172457

29  
h-index

123424

61  
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101  
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101  
docs citations

101  
times ranked

5284  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Outranking-based multi-objective PSO for scheduling unrelated parallel machines with a freight industry-oriented application. <i>Engineering Applications of Artificial Intelligence</i> , 2022, 108, 104556.	8.1	19
3	Deep transfer learning for the recognition of types of face masks as a core measure to prevent the transmission of COVID-19. <i>Applied Soft Computing Journal</i> , 2022, 125, 109207.	7.2	16
4	Fuzzy-Based Time Series Forecasting and Modelling: A Bibliometric Analysis. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 6894.	2.5	8
5	Opinion Mining for Instructor Evaluations at the Autonomous University of Ciudad Juarez. <i>Advances in Computational Intelligence and Robotics Book Series</i> , 2021, , 427-444.	0.4	0
6	Identifying Suggestions in Airline-User Tweets Using Natural Language Processing and Machine Learning. <i>Advances in Computational Intelligence and Robotics Book Series</i> , 2021, , 481-498.	0.4	0
7	Risk Score Based on Critical Factors Associated with COVID-19. <i>IEEE Latin America Transactions</i> , 2021, 19, 1090-1098.	1.6	1
8	Auto-adaptive multilayer perceptron for univariate time series classification. <i>Expert Systems With Applications</i> , 2021, 181, 115147.	7.6	12
9	Deep Neural Network to Detect Gender Violence on Mexican Tweets. <i>Lecture Notes in Computer Science</i> , 2021, , 24-32.	1.3	0
10	Revisiting the Dissimilarity Representation in the Context of Regression. <i>IEEE Access</i> , 2021, 9, 157043-157051.	4.2	0
11	Understanding the apparent superiority of over-sampling through an analysis of local information for class-imbalanced data. <i>Expert Systems With Applications</i> , 2020, 158, 113026.	7.6	52
12	News Classification for Identifying Traffic Incident Points in a Spanish-Speaking Country: A Real-World Case Study of Class Imbalance Learning. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 6253.	2.5	14
13	Ranking-based MCDM models in financial management applications: analysis and emerging challenges. <i>Progress in Artificial Intelligence</i> , 2020, 9, 171-193.	2.4	28
14	Reliability analysis for DC motors under voltage step-stress scenario. <i>Electrical Engineering</i> , 2020, 102, 1433-1440.	2.0	2
15	Implementing a Novel Use of Multicriteria Decision Analysis to Select IIoT Platforms for Smart Manufacturing. <i>Symmetry</i> , 2020, 12, 368.	2.2	26
16	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
17	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
18	An Enhanced Lightweight IoT-based Authentication Scheme in Cloud Computing Circumstances. <i>Sensors</i> , 2019, 19, 2098.	3.8	33

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19	Synergetic Application of Multi-Criteria Decision-Making Models to Credit Granting Decision Problems. Applied Sciences (Switzerland), 2019, 9, 5052.	2.5	6
20	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
21	Dissimilarity-Based Linear Models for Corporate Bankruptcy Prediction. Computational Economics, 2019, 53, 1019-1031.	2.6	17
22	Using regression models for predicting the product quality in a tubing extrusion process. Journal of Intelligent Manufacturing, 2019, 30, 2535-2544.	7.3	53
23	Empirical Study of the Associative Approach in the Context of Classification Problems. Computacion Y Sistemas, 2019, 23, .	0.3	1
24	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
25	Predicting Airline Customer Satisfaction using k-nn Ensemble Regression Models. Research in Computing Science, 2019, 148, 205-215.	0.1	4
26	Use of Elephant Search Algorithm to Solve an Order Picking Problem in a Mobile Atelier. Advances in Human Resources Management and Organizational Development Book Series, 2019, , 161-172.	0.3	1
27	Design of an Order Picking Reduce Module Using Bat Algorithm. Advances in Human Resources Management and Organizational Development Book Series, 2019, , 211-225.	0.3	1
28	Instance Selection for the Nearest Neighbor Classifier: Connecting the Performance to the Underlying Data Structure. Lecture Notes in Computer Science, 2019, , 249-256.	1.3	1
29	A regression model based on the nearest centroid neighborhood. Pattern Analysis and Applications, 2018, 21, 941-951.	4.6	7
30	Process capability index for AC transformer under electrical harmonics. Electrical Engineering, 2018, 100, 347-353.	2.0	1
31	Denoising of Ultrasound Medical Images Using the DM6437 High-Performance Digital Media Processor. , 2018, , 3-25.		0
32	My Personal Images as My Graphical Password. IEEE Latin America Transactions, 2018, 16, 1516-1523.	1.6	2
33	Addressing the Links Between Dimensionality and Data Characteristics in Gene-Expression Microarrays. , 2018, , .		3
34	Interfaz de lenguaje natural para consultar cubos multidimensionales utilizando procesamiento analítico en línea. Research in Computing Science, 2018, 147, 153-165.	0.1	7
35	Minería de opiniones aplicada a la evaluación docente de la UACJ. Research in Computing Science, 2018, 147, 167-177.	0.1	5
36	Evaluation of Denoising Methods in the Spatial Domain for Medical Ultrasound Imaging Applications. Intelligent Systems Reference Library, 2017, , 263-281.	1.2	1

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37	Real-space imaging of non-collinear antiferromagnetic order with a single-spin magnetometer. <i>Nature</i> , 2017, 549, 252-256.	27.8	203
38	An Insight on the "Large G, Small n" Problem in Gene-Expression Microarray Classification. <i>Lecture Notes in Computer Science</i> , 2017, , 483-490.	1.3	5
39	Model Selection for Financial Distress Prediction by Aggregating TOPSIS and PROMETHEE Rankings. <i>Lecture Notes in Computer Science</i> , 2016, , 524-535.	1.3	3
40	Financial distress prediction using the hybrid associative memory with translation. <i>Applied Soft Computing Journal</i> , 2016, 44, 144-152.	7.2	60
41	Associative learning on imbalanced environments: An empirical study. <i>Expert Systems With Applications</i> , 2016, 54, 387-397.	7.6	10
42	An Efficient Over-sampling Approach Based on Mean Square Error Back-propagation for Dealing with the Multi-class Imbalance Problem. <i>Neural Processing Letters</i> , 2015, 42, 603-617.	3.2	28
43	Dissimilarity-Based Learning from Imbalanced Data with Small Disjuncts and Noise. <i>Lecture Notes in Computer Science</i> , 2015, , 370-378.	1.3	6
44	Analysis of Discrepancy Metrics Used in Medical Image Segmentation. <i>IEEE Latin America Transactions</i> , 2015, 13, 235-240.	1.6	5
45	Mapping microarray gene expression data into dissimilarity spaces for tumor classification. <i>Information Sciences</i> , 2015, 294, 362-375.	6.9	36
46	An insight into the experimental design for credit risk and corporate bankruptcy prediction systems. <i>Journal of Intelligent Information Systems</i> , 2015, 44, 159-189.	3.9	59
47	Electric-field control of magnetic order above room temperature. <i>Nature Materials</i> , 2014, 13, 345-351.	27.5	451
48	A bias correction function for classification performance assessment in two-class imbalanced problems. <i>Knowledge-Based Systems</i> , 2014, 59, 66-74.	7.1	20
49	Making Accurate Credit Risk Predictions with Cost-Sensitive MLP Neural Networks. <i>Advances in Intelligent Systems and Computing</i> , 2013, , 1-8.	0.6	9
50	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
51	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
52	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
53	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
54	Hybrid Associative Memories for Imbalanced Data Classification: An Experimental Study. <i>Lecture Notes in Computer Science</i> , 2013, , 325-334.	1.3	2

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55	Gait-based Gender Classification Considering Resampling and Feature Selection. Journal of Image and Graphics(United Kingdom), 2013, 1, 85-89.	3.2	5
56	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
57	Surrounding neighborhood-based SMOTE for learning from imbalanced data sets. Progress in Artificial Intelligence, 2012, 1, 347-362.	2.4	41
58	Improving Risk Predictions by Preprocessing Imbalanced Credit Data. Lecture Notes in Computer Science, 2012, , 68-75.	1.3	7
59	Exploring the behaviour of base classifiers in credit scoring ensembles. Expert Systems With Applications, 2012, 39, 10244-10250.	7.6	106
60	Two-level classifier ensembles for credit risk assessment. Expert Systems With Applications, 2012, 39, 10916-10922.	7.6	90
61	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
62	On the effectiveness of preprocessing methods when dealing with different levels of class imbalance. Knowledge-Based Systems, 2012, 25, 13-21.	7.1	256
63	Non-parametric Statistical Analysis of Machine Learning Methods for Credit Scoring. Advances in Intelligent Systems and Computing, 2012, , 263-272.	0.6	6
64	Assessment of Financial Risk Prediction Models with Multi-criteria Decision Making Methods. Lecture Notes in Computer Science, 2012, , 60-67.	1.3	5
65	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
66	Interface-induced room-temperature multiferroicity in BaTiO <sub>3</sub> . Nature Materials, 2011, 10, 753-758.	27.5	341
67	Classification of High Dimensional and Imbalanced Hyperspectral Imagery Data. Lecture Notes in Computer Science, 2011, , 644-651.	1.3	7
68	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
69	Exploring Synergetic Effects of Dimensionality Reduction and Resampling Tools on Hyperspectral Imagery Data Classification. Lecture Notes in Computer Science, 2011, , 511-523.	1.3	3
70	Caspase-mediated inhibition of sphingomyelin synthesis is involved in FasL-triggered cell death. Cell Death and Differentiation, 2010, 17, 642-654.	11.2	49
71	Theoretical Analysis of a Performance Measure for Imbalanced Data. , 2010, , .		38
72	Exploring the Performance of Resampling Strategies for the Class Imbalance Problem. Lecture Notes in Computer Science, 2010, , 541-549.	1.3	13

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73	Cost-Sensitive Neural Networks and Editing Techniques for Imbalance Problems. Lecture Notes in Computer Science, 2010, , 180-188.	1.3	2
74	Use of Ensemble Based on GA for Imbalance Problem. Lecture Notes in Computer Science, 2009, , 547-554.	1.3	3
75	Index of Balanced Accuracy: A Performance Measure for Skewed Class Distributions. Lecture Notes in Computer Science, 2009, , 441-448.	1.3	84
76	Melodic Track Identification in MIDI Files Considering the Imbalanced Context. Lecture Notes in Computer Science, 2009, , 489-496.	1.3	2
77	On the k-NN performance in a challenging scenario of imbalance and overlapping. Pattern Analysis and Applications, 2008, 11, 269-280.	4.6	171
78	A New Performance Evaluation Method for Two-Class Imbalanced Problems. Lecture Notes in Computer Science, 2008, , 917-925.	1.3	7
79	Improving the Performance of the RBF Neural Networks Trained with Imbalanced Samples. , 2007, , 162-169.		22
80	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
81	When Overlapping Unexpectedly Alters the Class Imbalance Effects. Lecture Notes in Computer Science, 2007, , 499-506.	1.3	8
82	An Empirical Study of the Behavior of Classifiers on Imbalanced and Overlapped Data Sets. , 2007, , 397-406.		42
83	Effect of formic acid on performance, digestibility, intestinal histomorphology and plasma metabolite levels of broiler chickens. British Poultry Science, 2006, 47, 50-56.	1.7	141
84	Combined Effects of Class Imbalance and Class Overlap on Instance-Based Classification. Lecture Notes in Computer Science, 2006, , 371-378.	1.3	31
85	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
86	Strategies for learning in class imbalance problems. Pattern Recognition, 2003, 36, 849-851.	8.1	462
87	Learning from Imbalanced Sets through Resampling and Weighting. Lecture Notes in Computer Science, 2003, , 80-88.	1.3	5
88	A Role for p27/Kip1 in the Control of Cerebellar Granule Cell Precursor Proliferation. Journal of Neuroscience, 2000, 20, 5756-5763.	3.6	143
89	An ATM homologue from Arabidopsis thaliana: complete genomic organisation and expression analysis. Nucleic Acids Research, 2000, 28, 1692-1699.	14.5	54
90	CD40 Signals Apoptosis through FAN-regulated Activation of the Sphingomyelin-Ceramide Pathway. Journal of Biological Chemistry, 1999, 274, 37251-37258.	3.4	64

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91	Retrovirus-Mediated Correction of the Metabolic Defect in Cultured Farber Disease Cells. <i>Human Gene Therapy</i> , 1999, 10, 1321-1329.	2.7	30
92	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
93	Preliminary Evaluation of a Simple Method for Detection of Bovine Tuberculosis: the Glutaraldehyde Test. <i>Zoonoses and Public Health</i> , 1993, 40, 27-30.	1.4	3
94	The quality control of tuberculin PPD products from seven Latin American laboratories. <i>Journal of Biological Standardization</i> , 1989, 17, 233-239.	0.4	0
95	Structural organization of the multienzyme complex of mammalian aminoacyl-tRNA synthetases. <i>Biochemistry</i> , 1988, 27, 6921-6928.	2.5	37
96	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