

# Roberto Alejo

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

39  
papers

366  
citations

8  
h-index

18  
g-index

43  
ext. papers

450  
ext. citations

1.7  
avg, IF

3.46  
L-index

#	Paper	IF	Citations
39	Analysis of new techniques to obtain quality training sets. <i>Pattern Recognition Letters</i> , <b>2003</b> , 24, 1015-1022	4.7	123
38	A hybrid method to face class overlap and class imbalance on neural networks and multi-class scenarios. <i>Pattern Recognition Letters</i> , <b>2013</b> , 34, 380-388	4.7	48
37	Data Sampling Methods to Deal With the Big Data Multi-Class Imbalance Problem. <i>Applied Sciences (Switzerland)</i> , <b>2020</b> , 10, 1276	2.6	24
36	Combined Effects of Class Imbalance and Class Overlap on Instance-Based Classification. <i>Lecture Notes in Computer Science</i> , <b>2006</b> , 371-378	0.9	19
35	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> , <b>2015</b> , 42, 603-617	2.4	16
34	Improving the Performance of the RBF Neural Networks Trained with Imbalanced Samples <b>2007</b> , 162-169		16
33	DFT study of hydrogen storage on the metallic decoration of boron substitution on zeolite templated carbon vacancy. <i>International Journal of Hydrogen Energy</i> , <b>2020</b> , 45, 19505-19515	6.7	12
32	Neural networks to fit potential energy curves from asphaltene-asphaltene interaction data. <i>Fuel</i> , <b>2019</b> , 236, 1117-1127	7.1	9
31	When Overlapping Unexpectedly Alters the Class Imbalance Effects. <i>Lecture Notes in Computer Science</i> , <b>2007</b> , 499-506	0.9	8
30	A Selective Dynamic Sampling Back-Propagation Approach for Handling the Two-Class Imbalance Problem. <i>Applied Sciences (Switzerland)</i> , <b>2016</b> , 6, 200	2.6	8
29	Theoretical studies in the stability of vacancies in zeolite templated carbon for hydrogen storage. <i>International Journal of Hydrogen Energy</i> , <b>2019</b> , 44, 6437-6447	6.7	7
28	An Empirical Study for the Multi-class Imbalance Problem with Neural Networks. <i>Lecture Notes in Computer Science</i> , <b>2008</b> , 479-486	0.9	7
27	Making Accurate Credit Risk Predictions with Cost-Sensitive MLP Neural Networks. <i>Advances in Intelligent Systems and Computing</i> , <b>2013</b> , 1-8	0.4	6
26	An improved dynamic sampling back-propagation algorithm based on mean square error to face the multi-class imbalance problem. <i>Neural Computing and Applications</i> , <b>2017</b> , 28, 2843-2857	4.8	6
25	Performance evaluation of prototype selection algorithms for nearest neighbor classification		6
24	Edited Nearest Neighbor Rule for Improving Neural Networks Classifications. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 303-310	0.9	6
23	Performance Analysis of Deep Neural Networks for Classification of Gene-Expression Microarrays. <i>Lecture Notes in Computer Science</i> , <b>2018</b> , 105-115	0.9	5

22	Empirical Analysis of Assessments Metrics for Multi-class Imbalance Learning on the Back-Propagation Context. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 17-23	0.9	5
21	Back Propagation with Balanced MSE Cost Function and Nearest Neighbor Editing for Handling Class Overlap and Class Imbalance. <i>Lecture Notes in Computer Science</i> , <b>2011</b> , 199-206	0.9	4
20	Assessments Metrics for Multi-class Imbalance Learning: A Preliminary Study. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 335-343	0.9	4
19	Improving the Classification Accuracy of RBF and MLP Neural Networks Trained with Imbalanced Samples. <i>Lecture Notes in Computer Science</i> , <b>2006</b> , 464-471	0.9	4
18	<b>2013</b> ,		3
17	Use of Ensemble Based on GA for Imbalance Problem. <i>Lecture Notes in Computer Science</i> , <b>2009</b> , 547-554	0.9	3
16	Deep Neural Network for Gender-Based Violence Detection on Twitter Messages. <i>Mathematics</i> , <b>2021</b> , 9, 807	2.3	3
15	Using Deep Learning to Classify Class Imbalanced Gene-Expression Microarrays Datasets. <i>Lecture Notes in Computer Science</i> , <b>2019</b> , 46-54	0.9	2
14	Addressing the Big Data Multi-class Imbalance Problem with Oversampling and Deep Learning Neural Networks. <i>Lecture Notes in Computer Science</i> , <b>2019</b> , 216-224	0.9	2
13	The Multi-Class Imbalance Problem: Cost Functions with Modular and Non-Modular Neural Networks. <i>Advances in Intelligent and Soft Computing</i> , <b>2009</b> , 421-431		2
12	A Modified Back-Propagation Algorithm to Deal with Severe Two-Class Imbalance Problems on Neural Networks. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 265-272	0.9	2
11	Bayesian Learning on Discrete Systems of Two Classes. <i>International Journal of Pattern Recognition and Artificial Intelligence</i> , <b>2018</b> , 32, 1860013	1.1	1
10	Cost-Sensitive Neural Networks and Editing Techniques for Imbalance Problems. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 180-188	0.9	1
9	Resampling Methods versus Cost Functions for Training an MLP in the Class Imbalance Context. <i>Lecture Notes in Computer Science</i> , <b>2011</b> , 19-26	0.9	1
8	Clustering Algorithms: An Application for Adsorption Kinetic Curves. <i>IEEE Latin America Transactions</i> , <b>2021</b> , 19, 507-514	0.7	1
7	Pedestrian Localization in a Video Sequence Using Motion Detection and Active Shape Models. <i>Applied Sciences (Switzerland)</i> , <b>2022</b> , 12, 5371	2.6	1
6	A Class-Incremental Learning Method Based on Preserving the Learned Feature Space for EEG-Based Emotion Recognition. <i>Mathematics</i> , <b>2022</b> , 10, 598	2.3	0
5	A Preliminary Study of SMOTE on Imbalanced Big Datasets When Dealing with Sparse and Dense High Dimensionality. <i>Lecture Notes in Computer Science</i> , <b>2022</b> , 46-55	0.9	0

- 4 On-line Learning With Reject Option. *IEEE Latin America Transactions*, **2018**, 16, 279-286 0.7
- 3 Comparative study of methods to obtain the number of hidden neurons of an auto-encoder in a high-dimensionality context. *IEEE Latin America Transactions*, **2020**, 18, 2196-2203 0.7
- 2 Deep Neural Network to Detect Gender Violence on Mexican Tweets. *Lecture Notes in Computer Science*, **2021**, 24-32 0.9
- 1 Analysing the Safe, Average and Border Samples on Two-Class Imbalance Problems in the Back-Propagation Domain. *Lecture Notes in Computer Science*, **2015**, 699-707 0.9