

Roberto Alejo

List of Publications by Year in Descending Order

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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	A Class-Incremental Learning Method Based on Preserving the Learned Feature Space for EEG-Based Emotion Recognition. <i>Mathematics</i> , 2022 , 10, 598	2.3	0
38	Pedestrian Localization in a Video Sequence Using Motion Detection and Active Shape Models. <i>Applied Sciences (Switzerland)</i> , 2022 , 12, 5371	2.6	1
37	A Preliminary Study of SMOTE on Imbalanced Big Datasets When Dealing with Sparse and Dense High Dimensionality. <i>Lecture Notes in Computer Science</i> , 2022 , 46-55	0.9	0
36	Deep Neural Network to Detect Gender Violence on Mexican Tweets. <i>Lecture Notes in Computer Science</i> , 2021 , 24-32	0.9	
35	Clustering Algorithms: An Application for Adsorption Kinetic Curves. <i>IEEE Latin America Transactions</i> , 2021 , 19, 507-514	0.7	1
34	Deep Neural Network for Gender-Based Violence Detection on Twitter Messages. <i>Mathematics</i> , 2021 , 9, 807	2.3	3
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> , 2020 , 45, 19505-19515	6.7	12
32	Data Sampling Methods to Deal With the Big Data Multi-Class Imbalance Problem. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 1276	2.6	24
31	Comparative study of methods to obtain the number of hidden neurons of an auto-encoder in a high-dimensionality context. <i>IEEE Latin America Transactions</i> , 2020 , 18, 2196-2203	0.7	
30	Using Deep Learning to Classify Class Imbalanced Gene-Expression Microarrays Datasets. <i>Lecture Notes in Computer Science</i> , 2019 , 46-54	0.9	2
29	Theoretical studies in the stability of vacancies in zeolite templated carbon for hydrogen storage. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 6437-6447	6.7	7
28	Addressing the Big Data Multi-class Imbalance Problem with Oversampling and Deep Learning Neural Networks. <i>Lecture Notes in Computer Science</i> , 2019 , 216-224	0.9	2
27	Neural networks to fit potential energy curves from asphaltene-asphaltene interaction data. <i>Fuel</i> , 2019 , 236, 1117-1127	7.1	9
26	On-line Learning With Reject Option. <i>IEEE Latin America Transactions</i> , 2018 , 16, 279-286	0.7	
25	Bayesian Learning on Discrete Systems of Two Classes. <i>International Journal of Pattern Recognition and Artificial Intelligence</i> , 2018 , 32, 1860013	1.1	1
24	Performance Analysis of Deep Neural Networks for Classification of Gene-Expression Microarrays. <i>Lecture Notes in Computer Science</i> , 2018 , 105-115	0.9	5
23	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> , 2017 , 28, 2843-2857	4.8	6

22	A Selective Dynamic Sampling Back-Propagation Approach for Handling the Two-Class Imbalance Problem. <i>Applied Sciences (Switzerland)</i> , 2016 , 6, 200	2.6	8
21	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	2.4	16
20	Analysing the Safe, Average and Border Samples on Two-Class Imbalance Problems in the Back-Propagation Domain. <i>Lecture Notes in Computer Science</i> , 2015 , 699-707	0.9	
19	Empirical Analysis of Assessments Metrics for Multi-class Imbalance Learning on the Back-Propagation Context. <i>Lecture Notes in Computer Science</i> , 2014 , 17-23	0.9	5
18	Making Accurate Credit Risk Predictions with Cost-Sensitive MLP Neural Networks. <i>Advances in Intelligent Systems and Computing</i> , 2013 , 1-8	0.4	6
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	4.7	48
16	2013 ,		3
15	Assessments Metrics for Multi-class Imbalance Learning: A Preliminary Study. <i>Lecture Notes in Computer Science</i> , 2013 , 335-343	0.9	4
14	A Modified Back-Propagation Algorithm to Deal with Severe Two-Class Imbalance Problems on Neural Networks. <i>Lecture Notes in Computer Science</i> , 2012 , 265-272	0.9	2
13	Resampling Methods versus Cost Functions for Training an MLP in the Class Imbalance Context. <i>Lecture Notes in Computer Science</i> , 2011 , 19-26	0.9	1
12	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> , 2011 , 199-206	0.9	4
11	Edited Nearest Neighbor Rule for Improving Neural Networks Classifications. <i>Lecture Notes in Computer Science</i> , 2010 , 303-310	0.9	6
10	Cost-Sensitive Neural Networks and Editing Techniques for Imbalance Problems. <i>Lecture Notes in Computer Science</i> , 2010 , 180-188	0.9	1
9	The Multi-Class Imbalance Problem: Cost Functions with Modular and Non-Modular Neural Networks. <i>Advances in Intelligent and Soft Computing</i> , 2009 , 421-431		2
8	Use of Ensemble Based on GA for Imbalance Problem. <i>Lecture Notes in Computer Science</i> , 2009 , 547-554	0.9	3
7	An Empirical Study for the Multi-class Imbalance Problem with Neural Networks. <i>Lecture Notes in Computer Science</i> , 2008 , 479-486	0.9	7
6	Improving the Performance of the RBF Neural Networks Trained with Imbalanced Samples 2007 , 162-169		16
5	When Overlapping Unexpectedly Alters the Class Imbalance Effects. <i>Lecture Notes in Computer Science</i> , 2007 , 499-506	0.9	8

4	Combined Effects of Class Imbalance and Class Overlap on Instance-Based Classification. <i>Lecture Notes in Computer Science</i> , 2006 , 371-378	0.9	19
3	Improving the Classification Accuracy of RBF and MLP Neural Networks Trained with Imbalanced Samples. <i>Lecture Notes in Computer Science</i> , 2006 , 464-471	0.9	4
2	Analysis of new techniques to obtain quality training sets. <i>Pattern Recognition Letters</i> , 2003 , 24, 1015-1022	1.7	123
1	Performance evaluation of prototype selection algorithms for nearest neighbor classification		6