Fernando Bacao

List of Publications by Year in descending order

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53 papers	3,479 citations	257101 24 h-index	264894 42 g-index
59 all docs	59 docs citations	59 times ranked	3180 citing authors

#	Article	IF	Citations
1	Improving imbalanced learning through a heuristic oversampling method based on k-means and SMOTE. Information Sciences, 2018, 465, 1-20.	4.0	602
2	Effective data generation for imbalanced learning using conditional generative adversarial networks. Expert Systems With Applications, 2018, 91, 464-471.	4.4	350
3	Modeling and mapping wildfire ignition risk in Portugal. International Journal of Wildland Fire, 2009, 18, 921.	1.0	269
4	What factors determining customer continuingly using food delivery apps during 2019 novel coronavirus pandemic period?. International Journal of Hospitality Management, 2020, 91, 102683.	5.3	231
5	Self-organizing Maps as Substitutes for K-Means Clustering. Lecture Notes in Computer Science, 2005, , 476-483.	1.0	174
6	Gamification: A key determinant of massive open online course (MOOC) success. Information and Management, 2019, 56, 39-54.	3.6	170
7	Digital divide across the European Union. Information and Management, 2012, 49, 278-291.	3.6	155
8	Grit in the path to e-learning success. Computers in Human Behavior, 2017, 66, 388-399.	5.1	152
9	Geometric SMOTE a geometrically enhanced drop-in replacement for SMOTE. Information Sciences, 2019, 501, 118-135.	4.0	139
10	The education-related digital divide: An analysis for the EU-28. Computers in Human Behavior, 2016, 56, 72-82.	5.1	126
11	Self-Organizing Map Oversampling (SOMO) for imbalanced data set learning. Expert Systems With Applications, 2017, 82, 40-52.	4.4	122
12	Cultural impacts on e-learning systems' success. Internet and Higher Education, 2016, 31, 58-70.	4.2	113
13	The self-organizing map, the Geo-SOM, and relevant variants for geosciences. Computers and Geosciences, 2005, 31, 155-163.	2.0	89
14	Applying genetic algorithms to zone design. Soft Computing, 2005, 9, 341-348.	2.1	89
15	Assessing the pattern between economic and digital development of countries. Information Systems Frontiers, 2017, 19, 835-854.	4.1	79
16	How Does the Pandemic Facilitate Mobile Payment? An Investigation on Usersâ€™ Perspective under the COVID-19 Pandemic. International Journal of Environmental Research and Public Health, 2021, 18, 1016.	1.2	77
17	Size-dependent pattern of wildfire ignitions in Portugal: when do ignitions turn into big fires?. Landscape Ecology, 2010, 25, 1405-1417.	1.9	75
18	The Global Digital Divide. Journal of Global Information Management, 2018, 26, 1-26.	1.4	65

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19	Imbalanced Learning in Land Cover Classification: Improving Minority Classesâ€™ Prediction Accuracy Using the Geometric SMOTE Algorithm. Remote Sensing, 2019, 11, 3040.	1.8	53
20	Exploratory geospatial data analysis using the GeoSOM suite. Computers, Environment and Urban Systems, 2012, 36, 218-232.	3.3	31
21	Geometric SMOTE for regression. Expert Systems With Applications, 2022, 193, 116387.	4.4	30
22	Cartoâ€SOM: cartogram creation using selfâ€organizing maps. International Journal of Geographical Information Science, 2009, 23, 483-511.	2.2	28
23	Combining per-pixel and object-based classifications for mapping land cover over large areas. International Journal of Remote Sensing, 2014, 35, 738-753.	1.3	28
24	The Third Dimension in Urban Geography: The Urban-Volume Approach. Environment and Planning B: Planning and Design, 2009, 36, 1008-1025.	1.7	26
25	Machine Learning Approaches to Bike-Sharing Systems: A Systematic Literature Review. ISPRS International Journal of Geo-Information, 2021, 10, 62.	1.4	26
26	Geo-Self-Organizing Map (Geo-SOM) for Building and Exploring Homogeneous Regions. Lecture Notes in Computer Science, 2004, , 22-37.	1.0	17
27	Specific Land Cover Class Mapping by Semi-Supervised Weighted Support Vector Machines. Remote Sensing, 2017, 9, 181.	1.8	15
28	e-learning concept trends. , 2013, , .		13
29	Characterizing and modelling the spatial patterns of wildfire ignitions in Portugal: fire initiation and resulting burned area. , 2008, , .		12
30	Improving specific class mapping from remotely sensed data by cost-sensitive learning. International Journal of Remote Sensing, 2017, 38, 3294-3316.	1.3	11
31	How Does Gender Moderate Customer Intention of Shopping via Live-Streaming Apps during the COVID-19 Pandemic Lockdown Period?. International Journal of Environmental Research and Public Health, 2021, 18, 13004.	1.2	11
32	Improving Imbalanced Land Cover Classification with K-Means SMOTE: Detecting and Oversampling Distinctive Minority Spectral Signatures. Information (Switzerland), 2021, 12, 266.	1.7	10
33	MOOC's business models. , 2014, , .		8
34	G-SOMO: An oversampling approach based on self-organized maps and geometric SMOTE. Expert Systems With Applications, 2021, 183, 115230.	4.4	8
35	One dimensional Self-Organizing Maps to optimize marine patrol activities. , 2005, , .		7
36	Exploring spatial data through computational intelligence: a joint perspective. Soft Computing, 2005, 9, 326-331.	2.1	6

#	Article	IF	Citations
37	Increasing the Effectiveness of Active Learning: Introducing Artificial Data Generation in Active Learning for Land Use/Land Cover Classification. Remote Sensing, 2021, 13, 2619.	1.8	6
38	GeoSOM Suite: A Tool for Spatial Clustering. Lecture Notes in Computer Science, 2009, , 453-466.	1.0	5
39	Improving the quality of predictive models in small data GSDOT: A new algorithm for generating synthetic data. PLoS ONE, 2022, 17, e0265626.	1.1	5
40	Spatial Clustering with SOM and GeoSOM: Case Study of Lisbon's Metropolitan Area. , 2010, , .		4
41	Open data and injuries in urban areasâ€"A spatial analytical framework of Toronto using machine learning and spatial regressions. PLoS ONE, 2021, 16, e0248285.	1.1	4
42	A comprehensive model integrating UTAUT and ECM with espoused cultural values for investigating users' continuance intention of using mobile payment. , 2020, , .		4
43	UAV Path Planning Based on Event Density Detection. , 2009, , .		3
44	Exploring the Pattern between Education Attendance and Digital Development of Countries. Procedia Technology, 2014, 16, 452-458.	1.1	3
45	Machine learning for analysis of wealth in cities: A spatial-empirical examination of wealth in Toronto. Habitat International, 2021, 108, 102319.	2.3	3
46	Mumbai's business landscape: A spatial analytical approach to urbanisation. Heliyon, 2021, 7, e07522.	1.4	3
47	Does R&D tax credit impact firm behaviour? Micro evidence for Portugal. Research Evaluation, 2022, 31, 226-235.	1.3	3
48	Expectation-Maximization x Self-Organizing Maps for Image Classification. , 2008, , .		2
49	Spatial Data Science. ISPRS International Journal of Geo-Information, 2020, 9, 428.	1.4	2
50	Exploratory Factor Analysis for the Digital Divide: Evidence for the European Union - 27. Communications in Computer and Information Science, 2011, , 44-53.	0.4	1
51	Theoretical Development: Extending the Flow Theory with Variables from the UTAUT2 Model. , 2020, , .		1
52	Density Based Fuzzy Membership Functions in the Context of Geocomputation. Lecture Notes in Computer Science, 2007, , 542-549.	1.0	0
53	Cartograms, Self-Organizing Maps, and Magnification Control. Lecture Notes in Computer Science, 2009, , 89-97.	1.0	0