

# Fernando Bacao

## 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.

55  
papers

1,982  
citations

21  
h-index

44  
g-index

59  
ext. papers

2,668  
ext. citations

4.1  
avg. IF

5.89  
L-index

#	Paper	IF	Citations
55	Geometric SMOTE for regression. <i>Expert Systems With Applications</i> , <b>2022</b> , 193, 116387	7.8	2
54	Improving the quality of predictive models in small data GSDOT: A new algorithm for generating synthetic data.. <i>PLoS ONE</i> , <b>2022</b> , 17, e0265626	3.7	0
53	How Does Gender Moderate Customer Intention of Shopping via Live-Streaming Apps during the COVID-19 Pandemic Lockdown Period?. <i>International Journal of Environmental Research and Public Health</i> , <b>2021</b> , 18,	4.6	3
52	Open data and injuries in urban areas-A spatial analytical framework of Toronto using machine learning and spatial regressions. <i>PLoS ONE</i> , <b>2021</b> , 16, e0248285	3.7	2
51	Improving Imbalanced Land Cover Classification with K-Means SMOTE: Detecting and Oversampling Distinctive Minority Spectral Signatures. <i>Information (Switzerland)</i> , <b>2021</b> , 12, 266	2.6	1
50	Mumbai's business landscape: A spatial analytical approach to urbanisation. <i>Heliyon</i> , <b>2021</b> , 7, e07522	3.6	2
49	Increasing the Effectiveness of Active Learning: Introducing Artificial Data Generation in Active Learning for Land Use/Land Cover Classification. <i>Remote Sensing</i> , <b>2021</b> , 13, 2619	5	1
48	Machine Learning Approaches to Bike-Sharing Systems: A Systematic Literature Review. <i>ISPRS International Journal of Geo-Information</i> , <b>2021</b> , 10, 62	2.9	9
47	Machine learning for analysis of wealth in cities: A spatial-empirical examination of wealth in Toronto. <i>Habitat International</i> , <b>2021</b> , 108, 102319	4.6	2
46	G-SOMO: An oversampling approach based on self-organized maps and geometric SMOTE. <i>Expert Systems With Applications</i> , <b>2021</b> , 183, 115230	7.8	1
45	How Does the Pandemic Facilitate Mobile Payment? An Investigation on Users' Perspective under the COVID-19 Pandemic. <i>International Journal of Environmental Research and Public Health</i> , <b>2021</b> , 18,	4.6	26
44	A comprehensive model integrating UTAUT and ECM with espoused cultural values for investigating users' continuance intention of using mobile payment <b>2020</b> ,		1
43	What factors determining customer continuingly using food delivery apps during 2019 novel coronavirus pandemic period?. <i>International Journal of Hospitality Management</i> , <b>2020</b> , 91, 102683	8.3	76
42	Spatial Data Science. <i>ISPRS International Journal of Geo-Information</i> , <b>2020</b> , 9, 428	2.9	1
41	Geometric SMOTE a geometrically enhanced drop-in replacement for SMOTE. <i>Information Sciences</i> , <b>2019</b> , 501, 118-135	7.7	66
40	Gamification: A key determinant of massive open online course (MOOC) success. <i>Information and Management</i> , <b>2019</b> , 56, 39-54	6.6	86
39	Imbalanced Learning in Land Cover Classification: Improving Minority Classes Prediction Accuracy Using the Geometric SMOTE Algorithm. <i>Remote Sensing</i> , <b>2019</b> , 11, 3040	5	26

38	Effective data generation for imbalanced learning using conditional generative adversarial networks. <i>Expert Systems With Applications</i> , <b>2018</b> , 91, 464-471	7.8	197
37	Improving imbalanced learning through a heuristic oversampling method based on k-means and SMOTE. <i>Information Sciences</i> , <b>2018</b> , 465, 1-20	7.7	243
36	The Global Digital Divide. <i>Journal of Global Information Management</i> , <b>2018</b> , 26, 1-26	1.9	34
35	Assessing the pattern between economic and digital development of countries. <i>Information Systems Frontiers</i> , <b>2017</b> , 19, 835-854	4	51
34	Improving specific class mapping from remotely sensed data by cost-sensitive learning. <i>International Journal of Remote Sensing</i> , <b>2017</b> , 38, 3294-3316	3.1	11
33	Self-Organizing Map Oversampling (SOMO) for imbalanced data set learning. <i>Expert Systems With Applications</i> , <b>2017</b> , 82, 40-52	7.8	68
32	Grit in the path to e-learning success. <i>Computers in Human Behavior</i> , <b>2017</b> , 66, 388-399	7.7	84
31	Specific Land Cover Class Mapping by Semi-Supervised Weighted Support Vector Machines. <i>Remote Sensing</i> , <b>2017</b> , 9, 181	5	13
30	Cultural impacts on e-learning systems' success. <i>Internet and Higher Education</i> , <b>2016</b> , 31, 58-70	7.4	69
29	The education-related digital divide: An analysis for the EU-28. <i>Computers in Human Behavior</i> , <b>2016</b> , 56, 72-82	7.7	85
28	Combining per-pixel and object-based classifications for mapping land cover over large areas. <i>International Journal of Remote Sensing</i> , <b>2014</b> , 35, 738-753	3.1	26
27	Exploring the Pattern between Education Attendance and Digital Development of Countries. <i>Procedia Technology</i> , <b>2014</b> , 16, 452-458		1
26	MOOC's business models <b>2014</b> ,		3
25	e-learning concept trends <b>2013</b> ,		6
24	Medication and Polymedication in Portugal <b>2013</b> , 59-68		0
23	Self-perception of Health Status and Socio-Economic Differences in the Use of Health Services. <i>Studies in Theoretical and Applied Statistics, Selected Papers of the Statistical Societies</i> , <b>2013</b> , 355-362		
22	Digital divide across the European Union. <i>Information and Management</i> , <b>2012</b> , 49, 278-291	6.6	114
21	Exploratory geospatial data analysis using the GeoSOM suite. <i>Computers, Environment and Urban Systems</i> , <b>2012</b> , 36, 218-232	5.9	21

20	Exploratory Factor Analysis for the Digital Divide: Evidence for the European Union - 27. <i>Communications in Computer and Information Science</i> , <b>2011</b> , 44-53	0.3	1
19	Spatial Clustering with SOM and GeoSOM: Case Study of Lisbon's Metropolitan Area <b>2010</b> ,		2
18	Size-dependent pattern of wildfire ignitions in Portugal: when do ignitions turn into big fires?. <i>Landscape Ecology</i> , <b>2010</b> , 25, 1405-1417	4.3	65
17	UAV Path Planning Based on Event Density Detection <b>2009</b> ,		1
16	The Third Dimension in Urban Geography: The Urban-Volume Approach. <i>Environment and Planning B: Planning and Design</i> , <b>2009</b> , 36, 1008-1025		24
15	Modeling and mapping wildfire ignition risk in Portugal. <i>International Journal of Wildland Fire</i> , <b>2009</b> , 18, 921	3.2	207
14	Carto-SOM: cartogram creation using self-organizing maps. <i>International Journal of Geographical Information Science</i> , <b>2009</b> , 23, 483-511	4.1	20
13	GeoSOM Suite: A Tool for Spatial Clustering. <i>Lecture Notes in Computer Science</i> , <b>2009</b> , 453-466	0.9	4
12	Cartograms, Self-Organizing Maps, and Magnification Control. <i>Lecture Notes in Computer Science</i> , <b>2009</b> , 89-97	0.9	
11	Expectation-Maximization x Self-Organizing Maps for Image Classification <b>2008</b> ,		2
10	Characterizing and modelling the spatial patterns of wildfire ignitions in Portugal: fire initiation and resulting burned area <b>2008</b> ,		12
9	Density Based Fuzzy Membership Functions in the Context of Geocomputation. <i>Lecture Notes in Computer Science</i> , <b>2007</b> , 542-549	0.9	
8	The self-organizing map, the Geo-SOM, and relevant variants for geosciences. <i>Computers and Geosciences</i> , <b>2005</b> , 31, 155-163	4.5	76
7	Exploring spatial data through computational intelligence: a joint perspective. <i>Soft Computing</i> , <b>2005</b> , 9, 326-331	3.5	1
6	Applying genetic algorithms to zone design. <i>Soft Computing</i> , <b>2005</b> , 9, 341-348	3.5	68
5	Self-organizing Maps as Substitutes for K-Means Clustering. <i>Lecture Notes in Computer Science</i> , <b>2005</b> , 476-483	0.9	145
4	One dimensional Self-Organizing Maps to optimize marine patrol activities <b>2005</b> ,		4
3	Geo-Self-Organizing Map (Geo-SOM) for Building and Exploring Homogeneous Regions. <i>Lecture Notes in Computer Science</i> , <b>2004</b> , 22-37	0.9	10

2	Applications of Different Self-Organizing Map Variants to Geographical Information Science Problems	21-44	7
1	Does R&D tax credit impact firm behaviour? Micro evidence for Portugal. <i>Research Evaluation</i> ,	1-7	1