

Francisco MartÃ-nez-Ãlvarez

List of Publications by Year in descending order

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82
papers

3,257
citations

147801

31
h-index

155660

55
g-index

89
all docs

89
docs citations

89
times ranked

2678
citing authors

#	ARTICLE	IF	CITATIONS
1	Electricity consumption forecasting based on ensemble deep learning with application to the Algerian market. <i>Energy</i> , 2022, 243, 123060.	8.8	42
2	Deformation forecasting of a hydropower dam by hybridizing a long short-term memory deep learning network with the coronavirus optimization algorithm. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 2022, 37, 1368-1386.	9.8	26
3	A new big data triclustering approach for extracting three-dimensional patterns in precision agriculture. <i>Neurocomputing</i> , 2022, 500, 268-278.	5.9	9
4	Deep Learning for Time Series Forecasting: A Survey. <i>Big Data</i> , 2021, 9, 3-21.	3.4	267
5	Fuzzy Clustering Problem. , 2021, , 147-166.		0
6	Mahalanobis Data Clustering. , 2021, , 117-146.		0
7	Searching for an Optimal Partition. , 2021, , 65-100.		0
8	Mahalanobis clustering for the determination of incidence-magnitude seismic parameters for the Iberian Peninsula and the Republic of Croatia. <i>Computers and Geosciences</i> , 2021, 156, 104873.	4.2	8
9	A Preliminary Study on Deep Transfer Learning Applied to Image Classification for Small Datasets. <i>Advances in Intelligent Systems and Computing</i> , 2021, , 741-750.	0.6	2
10	Use of IT in Project-Based Learning Applied to the Subject Surveying in Civil Engineering. <i>Advances in Intelligent Systems and Computing</i> , 2021, , 428-437.	0.6	0
11	Discovering Spatio-Temporal Patterns in Precision Agriculture Based on Triclustering. <i>Advances in Intelligent Systems and Computing</i> , 2021, , 226-236.	0.6	3
12	Analysis of Student Achievement Scores: A Machine Learning Approach. <i>Advances in Intelligent Systems and Computing</i> , 2020, , 275-284.	0.6	2
13	Real-Time Big Data Analytics in Smart Cities from LoRa-Based IoT Networks. <i>Advances in Intelligent Systems and Computing</i> , 2020, , 91-100.	0.6	5
14	A novel deep learning neural network approach for predicting flash flood susceptibility: A case study at a high frequency tropical storm area. <i>Science of the Total Environment</i> , 2020, 701, 134413.	8.0	216
15	A novel hybrid GA-PSO framework for mining quantitative association rules. <i>Soft Computing</i> , 2020, 24, 4645-4666.	3.6	37
16	Seismicity analysis and machine learning models for short-term low magnitude seismic activity predictions in Cyprus. <i>Soil Dynamics and Earthquake Engineering</i> , 2020, 130, 105932.	3.8	35
17	Hybridizing Deep Learning and Neuroevolution: Application to the Spanish Short-Term Electric Energy Consumption Forecasting. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 5487.	2.5	15
18	Analysis of the Impact of Residential Property and Equipment on Building Energy Efficiency and Consumption—A Data Mining Approach. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 3589.	2.5	5

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19	Learning analytics for student modeling in virtual reality training systems: Lineworkers case. Computers and Education, 2020, 151, 103871.	8.3	24
20	Advanced Machine Learning and Big Data Analytics in Remote Sensing for Natural Hazards Management. Remote Sensing, 2020, 12, 301.	4.0	7
21	A Novel Ensemble Method for Electric Vehicle Power Consumption Forecasting: Application to the Spanish System. IEEE Access, 2019, 7, 120840-120856.	4.2	23
22	A Novel Hybrid Algorithm to Forecast Functional Time Series Based on Pattern Sequence Similarity with Application to Electricity Demand. Energies, 2019, 12, 94.	3.1	19
23	MV-kWNN: A novel multivariate and multi-output weighted nearest neighbours algorithm for big data time series forecasting. Neurocomputing, 2019, 353, 56-73.	5.9	34
24	Big data solar power forecasting based on deep learning and multiple data sources. Expert Systems, 2019, 36, e12394.	4.5	47
25	A novel ensemble modeling approach for the spatial prediction of tropical forest fire susceptibility using LogitBoost machine learning classifier and multi-source geospatial data. Theoretical and Applied Climatology, 2019, 137, 637-653.	2.8	119
26	Multi-step forecasting for big data time series based on ensemble learning. Knowledge-Based Systems, 2019, 163, 830-841.	7.1	161
27	Seismic indicators based earthquake predictor system using Genetic Programming and AdaBoost classification. Soil Dynamics and Earthquake Engineering, 2018, 111, 1-7.	3.8	55
28	A novel tree-based algorithm to discover seismic patterns in earthquake catalogs. Computers and Geosciences, 2018, 115, 96-104.	4.2	10
29	Earthquake prediction in California using regression algorithms and cloud-based big data infrastructure. Computers and Geosciences, 2018, 115, 198-210.	4.2	66
30	Mapping of seismic parameters of the Iberian Peninsula by means of a geographic information system. Central European Journal of Operations Research, 2018, 26, 739-758.	1.8	24
31	Data Science and Big Data in Energy Forecasting. Energies, 2018, 11, 3224.	3.1	3
32	Static and Dynamic Ensembles of Neural Networks for Solar Power Forecasting. , 2018, , .		13
33	A novel imputation methodology for time series based on pattern sequence forecasting. Pattern Recognition Letters, 2018, 116, 88-96.	4.2	54
34	A novel approach to forecast urban surface-level ozone considering heterogeneous locations and limited information. Environmental Modelling and Software, 2018, 110, 52-61.	4.5	8
35	Big Data Analytics for Discovering Electricity Consumption Patterns in Smart Cities. Energies, 2018, 11, 683.	3.1	79
36	Earthquake prediction model using support vector regressor and hybrid neural networks. PLoS ONE, 2018, 13, e0199004.	2.5	88

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37	Big data time series forecasting based on nearest neighbours distributed computing with Spark. Knowledge-Based Systems, 2018, 161, 12-25.	7.1	40
38	A scalable approach based on deep learning for big data time series forecasting. Integrated Computer-Aided Engineering, 2018, 25, 335-348.	4.6	94
39	Medium- to large earthquake magnitude prediction in Tokyo with artificial neural networks. Neural Computing and Applications, 2017, 28, 1043-1055.	5.6	54
40	Temporal analysis of croatian seismogenic zones to improve earthquake magnitude prediction. Earth Science Informatics, 2017, 10, 303-320.	3.2	6
41	Seismic activity prediction using computational intelligence techniques in northern Pakistan. Acta Geophysica, 2017, 65, 919-930.	2.0	29
42	Comparing seismic parameters for different source zone models in the Iberian Peninsula. Tectonophysics, 2017, 717, 449-472.	2.2	21
43	Earthquake magnitude prediction in Hindukush region using machine learning techniques. Natural Hazards, 2017, 85, 471-486.	3.4	141
44	Using principal component analysis to improve earthquake magnitude prediction in Japan. Logic Journal of the IGPL, 2017, 25, 949-966.	1.5	7
45	Large Earthquake Magnitude Prediction in Chile with Imbalanced Classifiers and Ensemble Learning. Applied Sciences (Switzerland), 2017, 7, 625.	2.5	15
46	Recent Advances in Energy Time Series Forecasting. Energies, 2017, 10, 809.	3.1	2
47	Applications of Computational Intelligence in Time Series. Computational Intelligence and Neuroscience, 2017, 2017, 1-2.	1.7	1
48	Scalable Forecasting Techniques Applied to Big Electricity Time Series. Lecture Notes in Computer Science, 2017, , 165-175.	1.3	9
49	PSF: Introduction to R Package for Pattern Sequence Based Forecasting Algorithm. R Journal, 2017, 9, 324.	1.8	28
50	A New Methodology Based on Imbalanced Classification for Predicting Outliers in Electricity Demand Time Series. Energies, 2016, 9, 752.	3.1	15
51	Short Term Earthquake Prediction in Hindukush Region Using Tree Based Ensemble Learning. , 2016, , .		10
52	A Nearest Neighbours-Based Algorithm for Big Time Series Data Forecasting. Lecture Notes in Computer Science, 2016, , 174-185.	1.3	20
53	A novel methodology to predict urban traffic congestion with ensemble learning. Soft Computing, 2016, 20, 4205-4216.	3.6	21
54	Comparison between Utsu's and Vere-Jones' aftershocks model by means of a computer simulation based on the acceptance-rejection sampling of von Neumann. Tectonophysics, 2016, 682, 108-119.	2.2	2

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55	A sensitivity study of seismicity indicators in supervised learning to improve earthquake prediction. Knowledge-Based Systems, 2016, 101, 15-30.	7.1	51
56	Improving a multi-objective evolutionary algorithm to discover quantitative association rules. Knowledge and Information Systems, 2016, 49, 481-509.	3.2	15
57	Obtaining optimal quality measures for quantitative association rules. Neurocomputing, 2016, 176, 36-47.	5.9	11
58	A Novel Method for Seismogenic Zoning Based on Triclustering: Application to the Iberian Peninsula. Entropy, 2015, 17, 5000-5021.	2.2	18
59	A Survey on Data Mining Techniques Applied to Electricity-Related Time Series Forecasting. Energies, 2015, 8, 13162-13193.	3.1	130
60	Detecting precursory patterns to enhance earthquake prediction in Chile. Computers and Geosciences, 2015, 76, 112-120.	4.2	39
61	Improving Earthquake Prediction with Principal Component Analysis: Application to Chile. Lecture Notes in Computer Science, 2015, , 393-404.	1.3	13
62	A comparison of machine learning regression techniques for LiDAR-derived estimation of forest variables. Neurocomputing, 2015, 167, 24-31.	5.9	87
63	Stability analysis of a slope subject to real accelerograms by finite elements. Application to San Pedro cliff at the Alhambra in Granada. Soil Dynamics and Earthquake Engineering, 2015, 69, 28-45.	3.8	18
64	TriGen: A genetic algorithm to mine triclusters in temporal gene expression data. Neurocomputing, 2014, 132, 42-53.	5.9	36
65	A fast partitioning algorithm using adaptive Mahalanobis clustering with application to seismic zoning. Computers and Geosciences, 2014, 73, 132-141.	4.2	55
66	A Comparative Study of Machine Learning Regression Methods on LiDAR Data: A Case Study. Advances in Intelligent Systems and Computing, 2014, , 249-258.	0.6	6
67	Earthquake prediction in seismogenic areas of the Iberian Peninsula based on computational intelligence. Tectonophysics, 2013, 593, 121-134.	2.2	55
68	Determining the best set of seismicity indicators to predict earthquakes. Two case studies: Chile and the Iberian Peninsula. Knowledge-Based Systems, 2013, 50, 198-210.	7.1	82
69	Neural networks to predict earthquakes in Chile. Applied Soft Computing Journal, 2013, 13, 1314-1328.	7.2	151
70	Combining pattern sequence similarity with neural networks for forecasting electricity demand time series. , 2013, , .		23
71	A Sensitivity Analysis for Quality Measures of Quantitative Association Rules. Lecture Notes in Computer Science, 2013, , 578-587.	1.3	2
72	Probabilistic method to select calculation accelerograms based on uniform seismic hazard acceleration response spectra. Soil Dynamics and Earthquake Engineering, 2012, 43, 174-185.	3.8	13

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73	Energy Time Series Forecasting Based on Pattern Sequence Similarity. IEEE Transactions on Knowledge and Data Engineering, 2011, 23, 1230-1243.	5.7	193
74	Clustering preprocessing to improve time series forecasting. AI Communications, 2011, 24, 97-98.	1.2	3
75	An evolutionary algorithm to discover quantitative association rules in multidimensional time series. Soft Computing, 2011, 15, 2065-2084.	3.6	42
76	Discovery of motifs to forecast outlier occurrence in time series. Pattern Recognition Letters, 2011, 32, 1652-1665.	4.2	31
77	Pattern Recognition in Biological Time Series. Lecture Notes in Computer Science, 2011, , 164-172.	1.3	4
78	Pattern recognition to forecast seismic time series. Expert Systems With Applications, 2010, 37, 8333-8342.	7.6	74
79	Mining quantitative association rules based on evolutionary computation and its application to atmospheric pollution. Integrated Computer-Aided Engineering, 2010, 17, 227-242.	4.6	49
80	Using Remote Data Mining on LIDAR and Imagery Fusion Data to Develop Land Cover Maps. Lecture Notes in Computer Science, 2010, , 378-387.	1.3	2
81	Improving Time Series Forecasting by Discovering Frequent Episodes in Sequences. Lecture Notes in Computer Science, 2009, , 357-368.	1.3	4
82	Classification of Gene Expression Profiles: Comparison of K-means and Expectation Maximization Algorithms. , 2008, , .		7