Alicia Troncoso

List of Publications by Citations

93 papers	1,698 citations	21 h-index	38 g-index
101 ext. papers	2,161 ext. citations	3.2 avg, IF	5.34 L-index

#	Paper	IF	Citations
93	Electricity Market Price Forecasting Based on Weighted Nearest Neighbors Techniques. *IEEE Transactions on Power Systems*, **2007**, 22, 1294-1301	7	164
92	Energy Time Series Forecasting Based on Pattern Sequence Similarity. *IEEE Transactions on Knowledge and Data Engineering*, **2011**, 23, 1230-1243	4.2	149
91	A Survey on Data Mining Techniques Applied to Electricity-Related Time Series Forecasting. *Energies*, **2015**, 8, 13162-13193	3.1	98
90	Multi-step forecasting for big data time series based on ensemble learning. *Knowledge-Based Systems*, **2019**, 163, 830-841	7.3	95
89	Deep Learning for Time Series Forecasting: A Survey. *Big Data*, **2021**, 9, 3-21	3.1	69
88	A scalable approach based on deep learning for big data time series forecasting. *Integrated Computer-Aided Engineering*, **2018**, 25, 335-348	5.2	68
87	A comparison of machine learning regression techniques for LiDAR-derived estimation of forest variables. *Neurocomputing*, **2015**, 167, 24-31	5.4	63
86	Big Data Analytics for Discovering Electricity Consumption Patterns in Smart Cities. *Energies*, **2018**, 11, 683	3.1	60
85	Coronavirus Optimization Algorithm: A Bioinspired Metaheuristic Based on the COVID-19 Propagation Model. *Big Data*, **2020**, 8, 308-322	3.1	58
84	Pattern recognition to forecast seismic time series. *Expert Systems With Applications*, **2010**, 37, 8333-8342	7.8	54
83	Local models-based regression trees for very short-term wind speed prediction. *Renewable Energy*, **2015**, 81, 589-598	8.1	47
82	Mining quantitative association rules based on evolutionary computation and its application to atmospheric pollution. *Integrated Computer-Aided Engineering*, **2010**, 17, 227-242	5.2	37
81	Medium□arge earthquake magnitude prediction in Tokyo with artificial neural networks. *Neural Computing and Applications*, **2017**, 28, 1043-1055	4.8	36
80	Biclustering of gene expression data by correlation-based scatter search. *BioData Mining*, **2011**, 4, 3	4.3	34
79	Big data solar power forecasting based on deep learning and multiple data sources. *Expert Systems*, **2019**, 36, e12394	2.1	32
78	Big data time series forecasting based on nearest neighbours distributed computing with Spark. *Knowledge-Based Systems*, **2018**, 161, 12-25	7.3	31
77	An evolutionary algorithm to discover quantitative association rules in multidimensional time series. *Soft Computing*, **2011**, 15, 2065-2084	3.5	27

76	Discovery of motifs to forecast outlier occurrence in time series. *Pattern Recognition Letters*, **2011**, 32, 1652-1665	4.7	27
75	Enhancing the scalability of a genetic algorithm to discover quantitative association rules in large-scale datasets. *Integrated Computer-Aided Engineering*, **2015**, 22, 21-39	5.2	26
74	Integrating biological knowledge based on functional annotations for biclustering of gene expression data. *Computer Methods and Programs in Biomedicine*, **2015**, 119, 163-80	6.9	21
73	Selecting the best measures to discover quantitative association rules. *Neurocomputing*, **2014**, 126, 3-14	5.4	21
72	MV-kWNN: A novel multivariate and multi-output weighted nearest neighbours algorithm for big data time series forecasting. *Neurocomputing*, **2019**, 353, 56-73	5.4	20
71	A novel spark-based multi-step forecasting algorithm for big data time series. *Information Sciences*, **2018**, 467, 800-818	7.7	20
70	Finding improved local minima of power system optimization problems by interior-point methods. *IEEE Transactions on Power Systems*, **2003**, 18, 238-244	7	19
69	A factorization approach to evaluate open-response assignments in MOOCs using preference learning on peer assessments. *Knowledge-Based Systems*, **2015**, 85, 322-328	7.3	18
68	Combining pattern sequence similarity with neural networks for forecasting electricity demand time series **2013**,		18
67	Partitioning-Clustering Techniques Applied to the Electricity Price Time Series **2007**, 990-999		18
66	Random Hyper-parameter Search-Based Deep Neural Network for Power Consumption Forecasting. *Lecture Notes in Computer Science*, **2019**, 259-269	0.9	16
65	Initialization Methods for Multiple Seasonal Holt□Winters Forecasting Models. *Mathematics*, **2020**, 8, 268	2.3	15
64	LBF: A Labeled-Based Forecasting Algorithm and Its Application to Electricity Price Time Series **2008**,		15
63	Deep Learning-Based Approach for Time Series Forecasting with Application to Electricity Load. *Lecture Notes in Computer Science*, **2017**, 203-212	0.9	15
62	A Nearest Neighbours-Based Algorithm for Big Time Series Data Forecasting. *Lecture Notes in Computer Science*, **2016**, 174-185	0.9	14
61	Big data time series forecasting based on pattern sequence similarity and its application to the electricity demand. *Information Sciences*, **2020**, 540, 160-174	7.7	13
60	Finding Electric Energy Consumption Patterns in Big Time Series Data. *Advances in Intelligent Systems and Computing*, **2016**, 231-238	0.4	13
59	A New Methodology Based on Imbalanced Classification for Predicting Outliers in Electricity Demand Time Series. *Energies*, **2016**, 9, 752	3.1	13

58	A novel methodology to predict urban traffic congestion with ensemble learning. *Soft Computing*, **2016**, 20, 4205-4216	3.5	12
57	Computational Intelligence Techniques for Predicting Earthquakes. *Lecture Notes in Computer Science*, **2011**, 287-294	0.9	12
56	Application of Discrete-Interval Moving Seasonalities to Spanish Electricity Demand Forecasting during Easter. *Energies*, **2019**, 12, 1083	3.1	11
55	A Novel Ensemble Method for Electric Vehicle Power Consumption Forecasting: Application to the Spanish System. *IEEE Access*, **2019**, 7, 120840-120856	3.5	11
54	Forecasting hourly electricity load profile using neural networks **2014**,		11
53	Obtaining optimal quality measures for quantitative association rules. *Neurocomputing*, **2016**, 176, 36-47	5.4	10
52	Scatter search-based identification of local patterns with positive and negative correlations in gene expression data. *Applied Soft Computing Journal*, **2015**, 35, 637-651	7.5	10
51	Stability of Multiple Seasonal Holt-Winters Models Applied to Hourly Electricity Demand in Spain. *Applied Sciences (Switzerland)*, **2020**, 10, 2630	2.6	10
50	Large Earthquake Magnitude Prediction in Chile with Imbalanced Classifiers and Ensemble Learning. *Applied Sciences (Switzerland)*, **2017**, 7, 625	2.6	10
49	Evolutionary techniques applied to the optimal short-term scheduling of the electrical energy production. *European Journal of Operational Research*, **2008**, 185, 1114-1127	5.6	10
48	Improving Earthquake Prediction with Principal Component Analysis: Application to Chile. *Lecture Notes in Computer Science*, **2015**, 393-404	0.9	7
47	A multi-scale smoothing kernel for measuring time-series similarity. *Neurocomputing*, **2015**, 167, 8-17	5.4	7
46	Imbalanced classification techniques for monsoon forecasting based on a new climatic time series. *Environmental Modelling and Software*, **2018**, 106, 48-56	5.2	7
45	Improving a multi-objective evolutionary algorithm to discover quantitative association rules. *Knowledge and Information Systems*, **2016**, 49, 481-509	2.4	7
44	Electricity consumption forecasting based on ensemble deep learning with application to the Algerian market. *Energy*, **2022**, 243, 123060	7.9	7
43	Hybridizing Deep Learning and Neuroevolution: Application to the Spanish Short-Term Electric Energy Consumption Forecasting. *Applied Sciences (Switzerland)*, **2020**, 10, 5487	2.6	7
42	Pairwise gene GO-based measures for biclustering of high-dimensional expression data. *BioData Mining*, **2018**, 11, 4	4.3	6
41	Deep Learning for Big Data Time Series Forecasting Applied to Solar Power. *Advances in Intelligent Systems and Computing*, **2019**, 123-133	0.4	6

40	Content-based methods in peer assessment of open-response questions to grade students as authors and as graders. *Knowledge-Based Systems*, **2017**, 117, 79-87	7.3	6
39	Scalable Forecasting Techniques Applied to Big Electricity Time Series. *Lecture Notes in Computer Science*, **2017**, 165-175	0.9	6
38	Applying the Open Government Principles to the University Strategic Planning: A Sound Practice. *Sustainability*, **2020**, 12, 1826	3.6	5
37	Data Mining for Predicting Traffic Congestion and Its Application to Spanish Data. *Advances in Intelligent Systems and Computing*, **2015**, 341-351	0.4	5
36	A Hybrid Metaheuristic for Biclustering Based on Scatter Search and Genetic Algorithms. *Lecture Notes in Computer Science*, **2009**, 199-210	0.9	5
35	Quantitative Association Rules Applied to Climatological Time Series Forecasting. *Lecture Notes in Computer Science*, **2009**, 284-291	0.9	5
34	Static and Dynamic Ensembles of Neural Networks for Solar Power Forecasting **2018**,		5
33	Pattern Sequence Neural Network for Solar Power Forecasting. *Communications in Computer and Information Science*, **2019**, 727-737	0.3	4
32	A Comparative Study of Machine Learning Regression Methods on LiDAR Data: A Case Study. *Advances in Intelligent Systems and Computing*, **2014**, 249-258	0.4	4
31	One-day-ahead electricity demand forecasting in holidays using discrete-interval moving seasonalities. *Energy*, **2021**, 231, 120966	7.9	4
30	SmartFD: A Real Big Data Application for Electrical Fraud Detection. *Lecture Notes in Computer Science*, **2018**, 120-130	0.9	3
29	Using principal component analysis to improve earthquake magnitude prediction in Japan. *Logic Journal of the IGPL*, **2017**, 25, 949-966	1	3
28	Detection of Microcalcifications in Mammographies Based on Linear Pixel Prediction and Support-Vector Machines. *Proceedings of the IEEE Symposium on Computer-Based Medical Systems*, **2007**,		3
27	Discovering patterns in electricity price using clustering techniques. *Renewable Energy and Power Quality Journal*, **2007**, 1, 174-181		3
26	Improving Time Series Forecasting by Discovering Frequent Episodes in Sequences. *Lecture Notes in Computer Science*, **2009**, 357-368	0.9	3
25	Biclustering of Gene Expression Data Based on SimUI Semantic Similarity Measure. *Lecture Notes in Computer Science*, **2016**, 685-693	0.9	3
24	Recent Advances in Energy Time Series Forecasting. *Energies*, **2017**, 10, 809	3.1	2
23	Short-term hydro-thermal coordination based on interior point nonlinear programming and genetic algorithms		2

22	A deep LSTM network for the Spanish electricity consumption forecasting.. *Neural Computing and Applications*, **2022**, 1-13	4.8	2
21	A new hybrid method for predicting univariate and multivariate time series based on pattern forecasting. *Information Sciences*, **2022**, 586, 611-627	7.7	2
20	Impact of Auto-evaluation Tests as Part of the Continuous Evaluation in Programming Courses. *Advances in Intelligent Systems and Computing*, **2019**, 553-561	0.4	2
19	Extended Weighted Nearest Neighbor for Electricity Load Forecasting. *Lecture Notes in Computer Science*, **2016**, 299-307	0.9	2
18	Real-Time Big Data Analytics in Smart Cities from LoRa-Based IoT Networks. *Advances in Intelligent Systems and Computing*, **2020**, 91-100	0.4	2
17	Including Content-Based Methods in Peer-Assessment of Open-Response Questions **2015**,		1
16	A local search in Scatter Search for improving Biclusters **2011**,		1
15	An Overlapping ControlBiclustering Algorithm from Gene Expression Data **2009**,		1
14	Implementation of an Internal Quality Assurance System at Pablo de Olavide University of Seville: Improving Computer Science Students Skills. *Advances in Intelligent Systems and Computing*, **2020**, 340-348	0.4	1
13	Automated Spark Clusters Deployment for Big Data with Standalone Applications Integration. *Lecture Notes in Computer Science*, **2016**, 150-159	0.9	1
12	A Sensitivity Analysis for Quality Measures of Quantitative Association Rules. *Lecture Notes in Computer Science*, **2013**, 578-587	0.9	1
11	Wrapper-based feature selection using regression trees to predict intrinsic viscosity of polymer. *Engineering With Computers*,1	4.5	1
10	Electricity Consumption Time Series Forecasting Using Temporal Convolutional Networks. *Lecture Notes in Computer Science*, **2021**, 216-225	0.9	1
9	Automated Deployment of a Spark Cluster with Machine Learning Algorithm Integration. *Big Data Research*, **2020**, 19-20, 100135	3.7	0
8	Solar Power Forecasting Based on Pattern Sequence Similarity and Meta-learning. *Lecture Notes in Computer Science*, **2020**, 271-283	0.9	0
7	A New Forecasting Algorithm Based on Neighbors for Streaming Electricity Time Series. *Lecture Notes in Computer Science*, **2020**, 522-533	0.9	0
6	Discovering three-dimensional patterns in real-time from data streams: An online triclustering approach. *Information Sciences*, **2021**, 558, 174-193	7.7	0
5	Applying wrapper-based variable selection techniques to predict MFIs profitability: evidence from Peru. *Journal of Development Effectiveness*, **2021**, 13, 84-99	0.6	0

4	Nearest Neighbors-Based Forecasting for Electricity Demand Time Series in Streaming. *Lecture Notes in Computer Science*, **2021**, 185-195	0.9	0
3	A Kernel for Time Series Classification: Application to Atmospheric Pollutants. *Advances in Intelligent Systems and Computing*, **2013**, 417-426	0.4	
2	Electricity Generation Forecasting in Concentrating Solar-Thermal Power Plants with Ensemble Learning. *Advances in Intelligent Systems and Computing*, **2022**, 665-674	0.4	
1	HLNet: A Novel Hierarchical Deep Neural Network for Time Series Forecasting. *Advances in Intelligent Systems and Computing*, **2022**, 717-727	0.4	