Paulo Cortez

List of Publications by Year
in descending order

162 papers	5,103 citations	172207 29 h-index	106150 65 g-index
180 all docs	180 docs citations	180 times ranked	4133 citing authors

#	Article	IF	Citations
1	Modeling wine preferences by data mining from physicochemical properties. Decision Support Systems, 2009, 47, 547-553.	3.5	768
2	A data-driven approach to predict the success of bank telemarketing. Decision Support Systems, 2014, 62, 22-31.	3.5	474
3	Using sensitivity analysis and visualization techniques to open black box data mining models. Information Sciences, 2013, 225, 1-17.	4.0	309
4	The impact of microblogging data for stock market prediction: Using Twitter to predict returns, volatility, trading volume and survey sentiment indices. Expert Systems With Applications, 2017, 73, 125-144.	4.4	253
5	Business intelligence in banking: A literature analysis from 2002 to 2013 using text mining and latent Dirichlet allocation. Expert Systems With Applications, 2015, 42, 1314-1324.	4.4	238
6	Research trends on Big Data in Marketing: A text mining and topic modeling based literature analysis. European Research on Management and Business Economics, 2018, 24, 1-7.	3.4	213
7	Stock market sentiment lexicon acquisition using microblogging data and statistical measures. Decision Support Systems, 2016, 85, 62-73.	3.5	129
8	Data Mining with Neural Networks and Support Vector Machines Using the R/rminer Tool. Lecture Notes in Computer Science, 2010, , 572-583.	1.0	115
9	Support vector machines applied to uniaxial compressive strength prediction of jet grouting columns. Computers and Geotechnics, 2014, 55, 132-140.	2.3	99
10	A Proactive Intelligent Decision Support System for Predicting the Popularity of Online News. Lecture Notes in Computer Science, 2015, , 535-546.	1.0	98
11	Evolution of neural networks for classification and regression. Neurocomputing, 2007, 70, 2809-2816.	3.5	86
12	Evolving Time Series Forecasting ARMA Models. Journal of Heuristics, 2004, 10, 415-429.	1.1	71
13	Multiâ€scale Internet traffic forecasting using neural networks and time series methods. Expert Systems, 2012, 29, 143-155.	2.9	68
14	Application of data mining techniques in the estimation of the uniaxial compressive strength of jet grouting columns over time. Construction and Building Materials, 2011, 25, 1257-1262.	3.2	65
15	Rating organ failure via adverse events using data mining in the intensive care unit. Artificial Intelligence in Medicine, 2008, 43, 179-193.	3.8	63
16	Mortality assessment in intensive care units via adverse events using artificial neural networks. Artificial Intelligence in Medicine, 2006, 36, 223-234.	3.8	59
17	Time series forecasting using a weighted cross-validation evolutionary artificial neural network ensemble. Neurocomputing, 2013, 109, 27-32.	3.5	58
18	Opening black box Data Mining models using Sensitivity Analysis. , 2011, , .		57

#	Article	IF	Citations
19	On the Predictability of Stock Market Behavior Using StockTwits Sentiment and Posting Volume. Lecture Notes in Computer Science, 2013, , 355-365.	1.0	56
20	Prediction of Abnormal Behaviors for Intelligent Video Surveillance Systems. , 2007, , .		55
21	Forecasting seasonal time series with computational intelligence: On recent methods and the potential of their combinations. Expert Systems With Applications, 2013, 40, 1981-1992.	4.4	55
22	A text mining and topic modelling perspective of ethnic marketing research. Journal of Business Research, 2019, 103, 275-285.	5.8	53
23	Automatic visual detection of human behavior: A review from 2000 to 2014. Expert Systems With Applications, 2015, 42, 6935-6956.	4.4	52
24	An evolutionary multi-objective optimization system for earthworks. Expert Systems With Applications, 2015, 42, 6674-6685.	4.4	45
25	A Comparison of AutoML Tools for Machine Learning, Deep Learning and XGBoost. , 2021, , .		43
26	Lamb Meat Quality Assessment by Support Vector Machines. Neural Processing Letters, 2006, 24, 41-51.	2.0	42
27	Modern Optimization with R. Use R!, 2014, , .	0.3	42
28	A novel approach to predicting Young's modulus of jet grouting laboratory formulations over time using data mining techniques. Engineering Geology, 2014, 169, 50-60.	2.9	39
29	Using customer lifetime value and neural networks to improve the prediction of bank deposit subscription in telemarketing campaigns. Neural Computing and Applications, 2015, 26, 131-139.	3.2	38
30	INTCare: a Knowledge Discovery Based Intelligent Decision Support System for Intensive Care Medicine. Journal of Decision Systems, 2005, 14, 241-259.	2.2	34
31	Artificial Intelligence Applications in Transportation Geotechnics. Geotechnical and Geological Engineering, 2013, 31, 861-879.	0.8	31
32	Artificial Intelligence approaches for the generation and assessment of believable human-like behaviour in virtual characters. Expert Systems With Applications, 2014, 41, 7281-7290.	4.4	31
33	Jet grouting column diameter prediction based on a data-driven approach. European Journal of Environmental and Civil Engineering, 2018, 22, 338-358.	1.0	31
34	A multivariate approach for multi-step demand forecasting in assembly industries: Empirical evidence from an automotive supply chain. Decision Support Systems, 2021, 142, 113452.	3.5	30
35	New Models for Strength and Deformability Parameter Calculation in Rock Masses Using Data-Mining Techniques. International Journal of Geomechanics, 2011, 11, 44-58.	1.3	29
36	A text mining approach to analyzing Annals literature. Annals of Tourism Research, 2017, 66, 208-210.	3.7	28

#	Article	IF	Citations
37	Twitter user geolocation using web country noun searches. Decision Support Systems, 2019, 120, 50-59.	3.5	28
38	Using Data Mining for Wine Quality Assessment. Lecture Notes in Computer Science, 2009, , 66-79.	1.0	27
39	Symbiotic filtering for spam email detection. Expert Systems With Applications, 2011, 38, 9365-9372.	4.4	27
40	Selection of trees for rubbing by red and roe deer in forest plantations. Forest Ecology and Management, 2006, 222, 39-45.	1.4	26
41	Sensitivity analysis for time lag selection to forecast seasonal time series using Neural Networks and Support Vector Machines. , 2010, , .		26
42	Quality of Service constrained routing optimization using Evolutionary Computation. Applied Soft Computing Journal, 2011, 11, 356-364.	4.1	25
43	Evolutionary optimization of sparsely connected and time-lagged neural networks for time series forecasting. Applied Soft Computing Journal, 2014, 23, 432-443.	4.1	25
44	Insights from a text mining survey on Expert Systems research from 2000 to 2016. Expert Systems, 2018, 35, e12280.	2.9	25
45	A deep learning classifier for sentence classification in biomedical and computer science abstracts. Neural Computing and Applications, 2020, 32, 6793-6807.	3.2	25
46	A data-driven approach to measure restaurant performance by combining online reviews with historical sales data. International Journal of Hospitality Management, 2021, 94, 102830.	5.3	25
47	Some experiments on modeling stock market behavior using investor sentiment analysis and posting volume from Twitter. , 2013, , .		24
48	A Google Trends spatial clustering approach for a worldwide Twitter user geolocation. Information Processing and Management, 2020, 57, 102312.	5.4	24
49	A divideâ€andâ€conquer strategy using feature relevance and expert knowledge for enhancing a data mining approach to bank telemarketing. Expert Systems, 2018, 35, e12253.	2.9	22
50	Multi-objective Grammatical Evolution of Decision Trees for Mobile Marketing user conversion prediction. Expert Systems With Applications, 2021, 168, 114287.	4.4	22
51	Advancing Logistics 4.0 with the Implementation of a Big Data Warehouse: A Demonstration Case for the Automotive Industry. Electronics (Switzerland), 2021, 10, 2221.	1.8	22
52	Using data mining algorithms to predict the bond strength of NSM FRP systems in concrete. Construction and Building Materials, 2016, 126, 484-495.	3.2	21
53	Evolutionary Neural Network Learning. Lecture Notes in Computer Science, 2003, , 24-28.	1.0	20
54	Unveiling the features of successful eBay smartphone sellers. Journal of Retailing and Consumer Services, 2018, 43, 311-324.	5.3	20

#	Article	IF	Citations
55	Moving object detection unaffected by cast shadows, highlights and ghosts. , 2005, , .		19
56	Label Ranking Forests. Expert Systems, 2017, 34, e12166.	2.9	19
57	A cross-cultural case study of consumers' communications about a new technological product. Journal of Business Research, 2020, 121, 438-447.	5.8	19
58	Operations research models and methods for safety stock determination: A review. Operations Research Perspectives, 2020, 7, 100164.	1.2	19
59	Business analytics in Industry 4.0: A systematic review. Expert Systems, 2021, 38, e12741.	2.9	19
60	Comparing univariate techniques for tender price index forecasting: Box-Jenkins and neural network model. Construction Economics and Building, 2017, 17, 109-123.	0.5	18
61	Time Series Forecasting by Evolutionary Neural Networks. , 2006, , 47-70.		17
62	Using Data Mining for Prediction of Hospital Length of Stay: An Application of the CRISP-DM Methodology. Lecture Notes in Business Information Processing, 2015, , 149-166.	0.8	15
63	An Intelligent Alarm Management System for Large-Scale Telecommunication Companies. Lecture Notes in Computer Science, 2009, , 386-399.	1.0	15
64	A Lamarckian Approach for Neural Network Training. Neural Processing Letters, 2002, 15, 105-116.	2.0	14
65	Simultaneous Evolution of Neural Network Topologies and Weights for Classification and Regression. Lecture Notes in Computer Science, 2005, , 59-66.	1.0	14
66	Automatic creation of stock market lexicons for sentiment analysis using StockTwits data. , 2014, , .		14
67	Stability Condition Identification of Rock and Soil Cutting Slopes Based on Soft Computing. Journal of Computing in Civil Engineering, 2018, 32, .	2.5	14
68	Short-term electric load forecasting using computational intelligence methods. , 2013, , .		13
69	Predictive and prescriptive analytics in transportation geotechnics: Three case studies. Transportation Engineering, 2021, 5, 100074.	2.3	13
70	Symbiotic Data Mining for Personalized Spam Filtering. , 2009, , .		11
71	Social Media Cross-Source and Cross-Domain Sentiment Classification. International Journal of Information Technology and Decision Making, 2019, 18, 1469-1499.	2.3	11
72	The Data Mining Applied for the Prediction of Highway Roughness due to Overloaded Trucks. International Journal of Technology, 2015, 6, 751.	0.4	11

#	Article	IF	Citations
73	Global and decomposition evolutionary support vector machine approaches for time series forecasting. Neural Computing and Applications, 2014, 25, 1053-1062.	3.2	10
74	A Novel Integrated Optimization System for Earthwork Tasks. Transportation Research Procedia, 2016, 14, 3601-3610.	0.8	10
75	A framework for increasing the value of predictive data-driven models by enriching problem domain characterization with novel features. Neural Computing and Applications, 2017, 28, 1515-1523.	3.2	10
76	Forecasting Store Foot Traffic Using Facial Recognition, Time Series and Support Vector Machines. Advances in Intelligent Systems and Computing, 2017, , 267-276.	0.5	10
77	Prediction of surface distress using neural networks. AIP Conference Proceedings, 2017, , .	0.3	10
78	Automatic human trajectory destination prediction from video. Expert Systems With Applications, 2018, 110, 41-51.	4.4	10
79	Using Deep Learning for Mobile Marketing User Conversion Prediction. , 2019, , .		10
80	Multi-step time series prediction intervals using neuroevolution. Neural Computing and Applications, 2020, 32, 8939-8953.	3.2	10
81	Efficient OSPF Weight Allocation for Intra-domain QoS Optimization. Lecture Notes in Computer Science, 2006, , 37-48.	1.0	10
82	Data-Driven Model for Stability Condition Prediction of Soil Embankments Based on Visual Data Features. Journal of Computing in Civil Engineering, 2018, 32, .	2.5	9
83	Predicting Physical Properties of Woven Fabrics via Automated Machine Learning and Textile Design and Finishing Features. IFIP Advances in Information and Communication Technology, 2020, , 244-255.	0.5	9
84	Data Mining with Multilayer Perceptrons and Support Vector Machines. Intelligent Systems Reference Library, 2012, , 9-25.	1.0	9
85	Predicting the Tear Strength of Woven Fabrics Via Automated Machine Learning: An Application of the CRISP-DM Methodology. , 2020, , .		9
86	Evolutionary Design of Neural Networks for Classification and Regression. , 2005, , 304-307.		8
87	EMAIL SPAM DETECTION: A SYMBIOTIC FEATURE SELECTION APPROACH FOSTERED BY EVOLUTIONARY COMPUTATION. International Journal of Information Technology and Decision Making, 2013, 12, 863-884.	2.3	8
88	Modelling Tyre-Road Noise with Data Mining Techniques. Archives of Acoustics, 2015, 40, 547-560.	0.9	8
89	Measuring User Influence in Financial Microblogs. , 2016, , .		8
90	The OBSERVER: An Intelligent and Automated Video Surveillance System. Lecture Notes in Computer Science, 2006, , 898-909.	1.0	8

#	Article	IF	Citations
91	Isolation Forests and Deep Autoencoders for Industrial Screw Tightening Anomaly Detection. Computers, 2022, 11, 54.	2.1	8
92	Jet Grouting Mechanicals Properties Prediction using Data Mining Techniques. , 2012, , .		7
93	Parallelization of an evolving Artificial Neural Networks system to Forecast Time Series using OPENMP and MPI. , 2012, , .		7
94	Multiple Organ Failure Diagnosis Using Adverse Events and Neural Networks. , 2006, , 127-134.		7
95	Categorical Attribute traNsformation Environment (CANE): A python module for categorical to numeric data preprocessing. Software Impacts, 2022, 13, 100359.	0.8	7
96	A data mining approach for Jet Grouting Uniaxial Compressive Strength prediction. , 2009, , .		6
97	Evolving Artificial Neural Networks applied to generate virtual characters. , 2014, , .		6
98	Recent advances on knowledge discovery and business intelligence. Expert Systems, 2015, 32, 433-434.	2.9	6
99	A Machine Learning Approach to Detect Violent Behaviour from Video. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2019, , 85-94.	0.2	6
100	Alphabetic order of authors in scholarly publications: a bibliometric study for 27 scientific fields. Scientometrics, 2020, 125, 2773-2792.	1.6	6
101	Twitter alloy steel disambiguation and user relevance via one-class and two-class news titles classifiers. Neural Computing and Applications, 2021, 33, 1245-1260.	3.2	6
102	Corporate bankruptcy prediction using data mining techniques. WIT Transactions on Information and Communication Technologies, 2006, , .	0.0	6
103	An Automated and Distributed Machine Learning Framework for Telecommunications Risk Management. , 2020, , .		6
104	Using Deep Autoencoders for In-vehicle Audio Anomaly Detection. Procedia Computer Science, 2021, 192, 298-307.	1.2	6
105	Topology Aware Internet Traffic Forecasting Using Neural Networks. Lecture Notes in Computer Science, 2007, , 445-454.	1.0	6
106	Deep autoencoders for acoustic anomaly detection: experiments with working machine and in-vehicle audio. Neural Computing and Applications, 2022, 34, 19485-19499.	3.2	6
107	A Collaborative Approach for Spam Detection. , 2010, , .		5
108	Traffic Engineering Approaches Using Multicriteria Optimization Techniques. Lecture Notes in Computer Science, 2011, , 104-115.	1.0	5

#	Article	IF	Citations
109	Knowledge Discovery and Business Intelligence. Expert Systems, 2013, 30, 283-284.	2.9	5
110	Automatic Human Action Recognition from Video Using Hidden Markov Model. , 2015, , .		5
111	A Comparison of Data-Driven Approaches for Mobile Marketing User Conversion Prediction. , 2018, , .		5
112	A Scalable and Automated Machine Learning Framework to Support Risk Management. Lecture Notes in Computer Science, 2021, , 291-307.	1.0	5
113	Spam Email Filtering Using Network-Level Properties. Lecture Notes in Computer Science, 2010, , 476-489.	1.0	5
114	Application of Data Mining Techniques in the Estimation of Mechanical Properties of Jet Grouting Laboratory Formulations over Time. Advances in Intelligent and Soft Computing, 2011, , 283-292.	0.2	5
115	Modern Optimization with R. Use R!, 2021, , .	0.3	5
116	A Data Mining Approach for Predicting Jet Grouting Geomechanical Parameters. , 2011, , .		4
117	An Automated Literature Analysis on Data Mining Applications to Credit Risk Assessment. , 2016, , 161-177.		4
118	A systematic literature review about dimensioning safety stock under uncertainties and risks in the procurement process. Operations Research Perspectives, 2021, 8, 100192.	1.2	4
119	Deep Dense and Convolutional Autoencoders for Machine Acoustic Anomaly Detection. IFIP Advances in Information and Communication Technology, 2021, , 337-348.	0.5	4
120	Combining Data Mining and Evolutionary Computation for Multi-criteria Optimization of Earthworks. Lecture Notes in Computer Science, 2015, , 514-528.	1.0	4
121	Using Data Mining Techniques to Predict Deformability Properties of Jet Grouting Laboratory Formulations over Time. Lecture Notes in Computer Science, 2011, , 491-505.	1.0	4
122	Forecasting seasonal time series with computational intelligence: contribution of a combination of distinct methods.. , 2011, , .		4
123	Real-Time Intelligent Decision Support System for Bridges Structures Behavior Prediction. , 2007, , 124-132.		4
124	Metaheuristics, Data Mining and Geographic Information Systems for Earthworks Equipment Allocation. Procedia Engineering, 2016, 143, 506-513.	1.2	3
125	Third special issue on knowledge discovery and business intelligence. Expert Systems, 2017, 34, e12188.	2.9	3
126	Fifth special issue on knowledge discovery and business intelligence. Expert Systems, 2020, 37, e12628.	2.9	3

#	Article	IF	Citations
127	Author placement in Computer Science: a study based on the careers of ACM Fellows. Scientometrics, 2022, 127, 351-368.	1.6	3
128	A Framework for Robust Traffic Engineering Using Evolutionary Computation. Lecture Notes in Computer Science, 2013, , 1-12.	1.0	3
129	Previsão de tempos de internamento num hospital português: aplicação da metodologia CRISP-DM. RISTI - Revista Iberica De Sistemas E Tecnologias De Informacao, 2014, .	0.1	3
130	Using Deep Learning for Ordinal Classification of Mobile Marketing User Conversion. Lecture Notes in Computer Science, 2019, , 60-67.	1.0	3
131	A realistic scooter rebalancing system via metaheuristics. , 2020, , .		3
132	Evolving time-lagged feedforward neural networks for time series forecasting. , 2011, , .		2
133	Use of DM Techniques in Earthworks Management: A Case Study. , 2014, , .		2
134	A Deep Learning Approach for Sentence Classification of Scientific Abstracts. Lecture Notes in Computer Science, 2018, , 479-488.	1.0	2
135	Artificial Neural Networks for Rock and Soil Cutting Slopes Stability Condition Prediction. Sustainable Civil Infrastructures, 2019, , 105-114.	0.1	2
136	<i>K</i>-means clustering combined with principal component analysis for material profiling in automotive supply chains. European Journal of Industrial Engineering, 2021, 15, 273.	0.5	2
137	An Automated Machine Learning Approach for Predicting Chemical Laboratory Material Consumption. IFIP Advances in Information and Communication Technology, 2021, , 105-116.	0.5	2
138	Chemical Laboratories 4.0: A Two-Stage Machine Learning System for Predicting the Arrival of Samples. IFIP Advances in Information and Communication Technology, 2020, , 232-243.	0.5	2
139	Using Google Trends, Gaussian Mixture Models and DBSCAN for the Estimation of Twitter User Home Location. Lecture Notes in Computer Science, 2020, , 526-534.	1.0	2
140	Class-Based OSPF Traffic Engineering Inspired on Evolutionary Computation. , 2007, , 141-152.		2
141	An intelligent decision support system for bridge safety assessment based on Data Mining models. WIT Transactions on Information and Communication Technologies, 2008, , .	0.0	2
142	A Machine Learning Approach for Spare Parts Lifetime Estimation. , 2022, , .		2
143	Using data mining to study the impact of topology characteristics on the performance of wireless mesh networks. , 2012, , .		1
144	Multi-objective Learning of Neural Network Time Series Prediction Intervals. Lecture Notes in Computer Science, 2017, , 561-572.	1.0	1

#	Article	IF	Citations
145	Fourth special issue on knowledge discovery and business intelligence. Expert Systems, 2018, 35, e12314.	2.9	1
146	Multiconstrained Optimization of Networks with Multicast and Unicast Traffic. Lecture Notes in Computer Science, 2008, , 139-150.	1.0	1
147	A Framework for Improving Routing Configurations using Multi-Objective Optimization Mechanisms. Journal of Communications Software and Systems, 2017, 12, 145.	0.6	1
148	Viewing Scheduling Problems through Genetic and Evolutionary Algorithms. Lecture Notes in Computer Science, 2000, , 612-619.	1.0	1
149	Automatic Provisioning of QoS Aware OSPF Configurations. Journal of Networks, 2007, 2, .	0.4	1
150	Robust Optimization of Intradomain Routing Using Evolutionary Algorithms. Advances in Intelligent Systems and Computing, 2013, , 201-208.	0.5	1
151	Using Neuroevolution for Predicting Mobile Marketing Conversion. Lecture Notes in Computer Science, 2019, , 373-384.	1.0	1
152	Combining Artificial Neural Networks and Genetic Algorithms for Rock Cuttings Slopes Stability Condition Identification. Springer Series in Geomechanics and Geoengineering, 2020, , 196-209.	0.0	1
153	An Empirical Study on Anomaly Detection Algorithms for Extremely Imbalanced Datasets. IFIP Advances in Information and Communication Technology, 2022, , 85-95.	0.5	1
154	An Industry 4.0 Intelligent Decision Support System for Analytical Laboratories. IFIP Advances in Information and Communication Technology, 2022, , 159-169.	0.5	1
155	Multiobjective Evolutionary Algorithms for intradomain routing optimization. , 2011, , .		0
156	Evolving sparsely connected neural networks for multi-step ahead forecasting. , 2011, , .		0
157	Evolutionary Support Vector Machines for Time Series Forecasting. Lecture Notes in Computer Science, 2012, , 523-530.	1.0	0
158	Erratum for "Stability Condition Identification of Rock and Soil Cutting Slopes Based on Soft Computing" by Joaquim Tinoco, A. Gomes Correia, Paulo Cortez, and David G. Toll. Journal of Computing in Civil Engineering, 2018, 32, 08218001.	2.5	0
159	Application of Data Mining in Transportation Geotechnics. , 2011, , .		0
160	Weighted Cross-Validation Evolving Artificial Neural Networks to Forecast Time Series. Advances in Intelligent and Soft Computing, 2011, , 147-154.	0.2	0
161	Human Skeleton Detection from Semi-constrained Environment Video. , 2017, , .		0
162	Blind Search. Use R!, 2021, , 45-57.	0.3	0