

Paulo Cortez

List of Publications by Year in descending order

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164
papers

5,320
citations

143828

29
h-index

87547

66
g-index

179
all docs

179
docs citations

179
times ranked

4330
citing authors

#	ARTICLE	IF	CITATIONS
1	Modeling wine preferences by data mining from physicochemical properties. Decision Support Systems, 2009, 47, 547-553.	6.2	813
2	A data-driven approach to predict the success of bank telemarketing. Decision Support Systems, 2014, 62, 22-31.	6.2	519
3	Using sensitivity analysis and visualization techniques to open black box data mining models. Information Sciences, 2013, 225, 1-17.	7.2	324
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.	8.0	264
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.	8.0	247
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.	7.1	225
7	Stock market sentiment lexicon acquisition using microblogging data and statistical measures. Decision Support Systems, 2016, 85, 62-73.	6.2	136
8	Multi-scale Internet traffic forecasting using neural networks and time series methods. Expert Systems, 2012, 29, 143-155.	4.5	125
9	Data Mining with Neural Networks and Support Vector Machines Using the R/rminer Tool. Lecture Notes in Computer Science, 2010, , 572-583.	0.2	124
10	Support vector machines applied to uniaxial compressive strength prediction of jet grouting columns. Computers and Geotechnics, 2014, 55, 132-140.	4.8	109
11	A Proactive Intelligent Decision Support System for Predicting the Popularity of Online News. Lecture Notes in Computer Science, 2015, , 535-546.	0.2	102
12	Evolution of neural networks for classification and regression. Neurocomputing, 2007, 70, 2809-2816.	6.2	89
13	Evolving Time Series Forecasting ARMA Models. Journal of Heuristics, 2004, 10, 415-429.	1.5	75
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.	7.2	67
15	Rating organ failure via adverse events using data mining in the intensive care unit. Artificial Intelligence in Medicine, 2008, 43, 179-193.	6.7	63
16	Time series forecasting using a weighted cross-validation evolutionary artificial neural network ensemble. Neurocomputing, 2013, 109, 27-32.	6.2	63
17	Mortality assessment in intensive care units via adverse events using artificial neural networks. Artificial Intelligence in Medicine, 2006, 36, 223-234.	6.7	61
18	Opening black box Data Mining models using Sensitivity Analysis. , 2011, , .		59

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19	A text mining and topic modelling perspective of ethnic marketing research. Journal of Business Research, 2019, 103, 275-285.	10.6	59
20	On the Predictability of Stock Market Behavior Using StockTwits Sentiment and Posting Volume. Lecture Notes in Computer Science, 2013, , 355-365.	0.2	59
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.	8.0	56
22	Prediction of Abnormal Behaviors for Intelligent Video Surveillance Systems. , 2007, , .		55
23	Automatic visual detection of human behavior: A review from 2000 to 2014. Expert Systems With Applications, 2015, 42, 6935-6956.	8.0	55
24	A Comparison of AutoML Tools for Machine Learning, Deep Learning and XGBoost. , 2021, , .		50
25	Lamb Meat Quality Assessment by Support Vector Machines. Neural Processing Letters, 2006, 24, 41-51.	3.3	42
26	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.	5.7	40
27	Jet grouting column diameter prediction based on a data-driven approach. European Journal of Environmental and Civil Engineering, 2018, 22, 338-358.	2.0	35
28	INTCare: a Knowledge Discovery Based Intelligent Decision Support System for Intensive Care Medicine. Journal of Decision Systems, 2005, 14, 241-259.	3.2	34
29	A multivariate approach for multi-step demand forecasting in assembly industries: Empirical evidence from an automotive supply chain. Decision Support Systems, 2021, 142, 113452.	6.2	34
30	Artificial Intelligence approaches for the generation and assessment of believable human-like behaviour in virtual characters. Expert Systems With Applications, 2014, 41, 7281-7290.	8.0	33
31	Using Data Mining for Wine Quality Assessment. Lecture Notes in Computer Science, 2009, , 66-79.	0.2	30
32	A text mining approach to analyzing Annals literature. Annals of Tourism Research, 2017, 66, 208-210.	6.7	30
33	New Models for Strength and Deformability Parameter Calculation in Rock Masses Using Data-Mining Techniques. International Journal of Geomechanics, 2011, 11, 44-58.	2.9	29
34	Twitter user geolocation using web country noun searches. Decision Support Systems, 2019, 120, 50-59.	6.2	29
35	A deep learning classifier for sentence classification in biomedical and computer science abstracts. Neural Computing and Applications, 2020, 32, 6793-6807.	5.7	29
36	Operations research models and methods for safety stock determination: A review. Operations Research Perspectives, 2020, 7, 100164.	2.1	28

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37	Selection of trees for rubbing by red and roe deer in forest plantations. <i>Forest Ecology and Management</i> , 2006, 222, 39-45.	3.3	27
38	Sensitivity analysis for time lag selection to forecast seasonal time series using Neural Networks and Support Vector Machines. , 2010, , .		27
39	Symbiotic filtering for spam email detection. <i>Expert Systems With Applications</i> , 2011, 38, 9365-9372.	8.0	27
40	A data-driven approach to measure restaurant performance by combining online reviews with historical sales data. <i>International Journal of Hospitality Management</i> , 2021, 94, 102830.	9.2	27
41	Quality of Service constrained routing optimization using Evolutionary Computation. <i>Applied Soft Computing Journal</i> , 2011, 11, 356-364.	7.5	25
42	Evolutionary optimization of sparsely connected and time-lagged neural networks for time series forecasting. <i>Applied Soft Computing Journal</i> , 2014, 23, 432-443.	7.5	25
43	Insights from a text mining survey on Expert Systems research from 2000 to 2016. <i>Expert Systems</i> , 2018, 35, e12280.	4.5	25
44	A Google Trends spatial clustering approach for a worldwide Twitter user geolocation. <i>Information Processing and Management</i> , 2020, 57, 102312.	9.0	25
45	Multi-objective Grammatical Evolution of Decision Trees for Mobile Marketing user conversion prediction. <i>Expert Systems With Applications</i> , 2021, 168, 114287.	8.0	25
46	Business analytics in Industry 4.0: A systematic review. <i>Expert Systems</i> , 2021, 38, e12741.	4.5	25
47	Some experiments on modeling stock market behavior using investor sentiment analysis and posting volume from Twitter. , 2013, , .		24
48	Advancing Logistics 4.0 with the Implementation of a Big Data Warehouse: A Demonstration Case for the Automotive Industry. <i>Electronics (Switzerland)</i> , 2021, 10, 2221.	3.2	24
49	Using data mining algorithms to predict the bond strength of NSM FRP systems in concrete. <i>Construction and Building Materials</i> , 2016, 126, 484-495.	7.2	23
50	A divideâ€andâ€conquer strategy using feature relevance and expert knowledge for enhancing a data mining approach to bank telemarketing. <i>Expert Systems</i> , 2018, 35, e12253.	4.5	22
51	Unveiling the features of successful eBay smartphone sellers. <i>Journal of Retailing and Consumer Services</i> , 2018, 43, 311-324.	9.8	22
52	Evolutionary Neural Network Learning. <i>Lecture Notes in Computer Science</i> , 2003, , 24-28.	0.2	20
53	Label Ranking Forests. <i>Expert Systems</i> , 2017, 34, e12166.	4.5	20
54	Comparing univariate techniques for tender price index forecasting: Box-Jenkins and neural network model. <i>Construction Economics and Building</i> , 2017, 17, 109-123.	1.0	19

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55	A cross-cultural case study of consumers' communications about a new technological product. Journal of Business Research, 2020, 121, 438-447.	10.6	19
56	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.	0.0	18
57	Time Series Forecasting by Evolutionary Neural Networks. , 2006, , 47-70.		17
58	Automatic creation of stock market lexicons for sentiment analysis using StockTwits data. , 2014, , .		15
59	An Intelligent Alarm Management System for Large-Scale Telecommunication Companies. Lecture Notes in Computer Science, 2009, , 386-399.	0.2	15
60	A Lamarckian Approach for Neural Network Training. Neural Processing Letters, 2002, 15, 105-116.	3.3	14
61	Simultaneous Evolution of Neural Network Topologies and Weights for Classification and Regression. Lecture Notes in Computer Science, 2005, , 59-66.	0.2	14
62	Stability Condition Identification of Rock and Soil Cutting Slopes Based on Soft Computing. Journal of Computing in Civil Engineering, 2018, 32, .	4.9	14
63	Short-term electric load forecasting using computational intelligence methods. , 2013, , .		13
64	Social Media Cross-Source and Cross-Domain Sentiment Classification. International Journal of Information Technology and Decision Making, 2019, 18, 1469-1499.	3.7	13
65	Predictive and prescriptive analytics in transportation geotechnics: Three case studies. Transportation Engineering, 2021, 5, 100074.	4.5	13
66	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.	1.0	13
67	The Data Mining Applied for the Prediction of Highway Roughness due to Overloaded Trucks. International Journal of Technology, 2015, 6, 751.	0.8	13
68	Forecasting Store Foot Traffic Using Facial Recognition, Time Series and Support Vector Machines. Advances in Intelligent Systems and Computing, 2017, , 267-276.	1.5	12
69	Symbiotic Data Mining for Personalized Spam Filtering. , 2009, , .		11
70	Automatic human trajectory destination prediction from video. Expert Systems With Applications, 2018, 110, 41-51.	8.0	11
71	Using Deep Learning for Mobile Marketing User Conversion Prediction. , 2019, , .		11
72	Multi-step time series prediction intervals using neuroevolution. Neural Computing and Applications, 2020, 32, 8939-8953.	5.7	11

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73	Predicting the Tear Strength of Woven Fabrics Via Automated Machine Learning: An Application of the CRISP-DM Methodology. , 2020, , .		11
74	Global and decomposition evolutionary support vector machine approaches for time series forecasting. Neural Computing and Applications, 2014, 25, 1053-1062.	5.7	10
75	A Novel Integrated Optimization System for Earthwork Tasks. Transportation Research Procedia, 2016, 14, 3601-3610.	1.5	10
76	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.	5.7	10
77	Prediction of surface distress using neural networks. AIP Conference Proceedings, 2017, , .	0.3	10
78	Data-Driven Model for Stability Condition Prediction of Soil Embankments Based on Visual Data Features. Journal of Computing in Civil Engineering, 2018, 32, .	4.9	10
79	Efficient OSPF Weight Allocation for Intra-domain QoS Optimization. Lecture Notes in Computer Science, 2006, , 37-48.	0.2	10
80	Isolation Forests and Deep Autoencoders for Industrial Screw Tightening Anomaly Detection. Computers, 2022, 11, 54.	3.5	10
81	EMAIL SPAM DETECTION: A SYMBIOTIC FEATURE SELECTION APPROACH FOSTERED BY EVOLUTIONARY COMPUTATION. International Journal of Information Technology and Decision Making, 2013, 12, 863-884.	3.7	9
82	Alphabetic order of authors in scholarly publications: a bibliometric study for 27 scientific fields. Scientometrics, 2020, 125, 2773-2792.	3.1	9
83	Data Mining with Multilayer Perceptrons and Support Vector Machines. Intelligent Systems Reference Library, 2012, , 9-25.	0.0	9
84	Evolutionary Design of Neural Networks for Classification and Regression. , 2005, , 304-307.		8
85	Jet Grouting Mechanicals Properties Prediction using Data Mining Techniques. , 2012, , .		8
86	The OBSERVER: An Intelligent and Automated Video Surveillance System. Lecture Notes in Computer Science, 2006, , 898-909.	0.2	8
87	Using Deep Autoencoders for In-vehicle Audio Anomaly Detection. Procedia Computer Science, 2021, 192, 298-307.	2.1	8
88	Categorical Attribute traNsformation Environment (CANE): A python module for categorical to numeric data preprocessing. Software Impacts, 2022, 13, 100359.	1.5	8
89	Parallelization of an evolving Artificial Neural Networks system to Forecast Time Series using OPENMP and MPI. , 2012, , .		7
90	Automatic Human Action Recognition from Video Using Hidden Markov Model. , 2015, , .		7

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91	A systematic literature review about dimensioning safety stock under uncertainties and risks in the procurement process. <i>Operations Research Perspectives</i> , 2021, 8, 100192.	2.1	7
92	Multiple Organ Failure Diagnosis Using Adverse Events and Neural Networks. , 2006, , 127-134.		7
93	A data mining approach for Jet Grouting Uniaxial Compressive Strength prediction. , 2009, , .		6
94	Evolving Artificial Neural Networks applied to generate virtual characters. , 2014, , .		6
95	Recent advances on knowledge discovery and business intelligence. <i>Expert Systems</i> , 2015, 32, 433-434.	4.5	6
96	A Machine Learning Approach to Detect Violent Behaviour from Video. <i>Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering</i> , 2019, , 85-94.	0.0	6
97	Twitter alloy steel disambiguation and user relevance via one-class and two-class news titles classifiers. <i>Neural Computing and Applications</i> , 2021, 33, 1245-1260.	5.7	6
98	A Scalable and Automated Machine Learning Framework to Support Risk Management. <i>Lecture Notes in Computer Science</i> , 2021, , 291-307.	0.2	6
99	An Automated and Distributed Machine Learning Framework for Telecommunications Risk Management. , 2020, , .		6
100	Topology Aware Internet Traffic Forecasting Using Neural Networks. <i>Lecture Notes in Computer Science</i> , 2007, , 445-454.	0.2	6
101	TARÄ°HÄ° YAPILARIN YENÄ°DEN Ä°ÅžLEVLENDÄ°RÄ°LMESÄ°: TRABZON MÄ°MARLAR ODASI Ä°RNEÄžÄ°. Ä°žukurova Ä°niversitesi Sosy Bilimler Enstitüsü Dergisi, 2019, 28, 214-224.	0.5	6
102	Deep autoencoders for acoustic anomaly detection: experiments with working machine and in-vehicle audio. <i>Neural Computing and Applications</i> , 2022, 34, 19485-19499.	5.7	6
103	A Collaborative Approach for Spam Detection. , 2010, , .		5
104	Traffic Engineering Approaches Using Multicriteria Optimization Techniques. <i>Lecture Notes in Computer Science</i> , 2011, , 104-115.	0.2	5
105	Knowledge Discovery and Business Intelligence. <i>Expert Systems</i> , 2013, 30, 283-284.	4.5	5
106	A Comparison of Data-Driven Approaches for Mobile Marketing User Conversion Prediction. , 2018, , .		5
107	Spam Email Filtering Using Network-Level Properties. <i>Lecture Notes in Computer Science</i> , 2010, , 476-489.	0.2	5
108	Application of Data Mining Techniques in the Estimation of Mechanical Properties of Jet Grouting Laboratory Formulations over Time. <i>Advances in Intelligent and Soft Computing</i> , 2011, , 283-292.	0.0	5

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109	Prediction of Maintenance Equipment Failures Using Automated Machine Learning. Lecture Notes in Computer Science, 2021, , 259-267.	0.2	5
110	An Automated Literature Analysis on Data Mining Applications to Credit Risk Assessment. , 2016, , 161-177.		4
111	A Comparison of Anomaly Detection Methods for Industrial Screw Tightening. Lecture Notes in Computer Science, 2021, , 485-500.	0.2	4
112	Author placement in Computer Science: a study based on the careers of ACM Fellows. Scientometrics, 2022, 127, 351-368.	3.1	4
113	Deep Dense and Convolutional Autoencoders for Machine Acoustic Anomaly Detection. IFIP Advances in Information and Communication Technology, 2021, , 337-348.	1.0	4
114	Combining Data Mining and Evolutionary Computation for Multi-criteria Optimization of Earthworks. Lecture Notes in Computer Science, 2015, , 514-528.	0.2	4
115	Using Data Mining Techniques to Predict Deformability Properties of Jet Grouting Laboratory Formulations over Time. Lecture Notes in Computer Science, 2011, , 491-505.	0.2	4
116	Forecasting seasonal time series with computational intelligence: contribution of a combination of distinct methods.. Advances in intelligent systems research, 2011, , .	0.0	4
117	Real-Time Intelligent Decision Support System for Bridges Structures Behavior Prediction. , 2007, , 124-132.		4
118	Metaheuristics, Data Mining and Geographic Information Systems for Earthworks Equipment Allocation. Procedia Engineering, 2016, 143, 506-513.	1.2	3
119	Third special issue on knowledge discovery and business intelligence. Expert Systems, 2017, 34, e12188.	4.5	3
120	Fifth special issue on knowledge discovery and business intelligence. Expert Systems, 2020, 37, e12628.	4.5	3
121	<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.	0.8	3
122	An Automated Machine Learning Approach for Predicting Chemical Laboratory Material Consumption. IFIP Advances in Information and Communication Technology, 2021, , 105-116.	1.0	3
123	A Framework for Robust Traffic Engineering Using Evolutionary Computation. Lecture Notes in Computer Science, 2013, , 1-12.	0.2	3
124	PrevisÃ£o de tempos de internamento num hospital portuguÃs: aplicaÃo da metodologia CRISP-DM. RISTI - Revista Iberica De Sistemas E Tecnologias De Informacao, 2014, .	0.2	3
125	Using Deep Learning for Ordinal Classification of Mobile Marketing User Conversion. Lecture Notes in Computer Science, 2019, , 60-67.	0.2	3
126	A realistic scooter rebalancing system via metaheuristics. , 2020, , .		3

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127	AI4CITY - An Automated Machine Learning Platform for Smart Cities. , 2023, , .		3
128	Evolving time-lagged feedforward neural networks for time series forecasting. , 2011, , .		2
129	Multi-objective Learning of Neural Network Time Series Prediction Intervals. Lecture Notes in Computer Science, 2017, , 561-572.	0.2	2
130	A Deep Learning Approach for Sentence Classification of Scientific Abstracts. Lecture Notes in Computer Science, 2018, , 479-488.	0.2	2
131	A Categorical Clustering of Publishers for Mobile Performance Marketing. Advances in Intelligent Systems and Computing, 2019, , 145-154.	1.5	2
132	Artificial Neural Networks for Rock and Soil Cutting Slopes Stability Condition Prediction. Sustainable Civil Infrastructures, 2019, , 105-114.	0.0	2
133	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.	1.0	2
134	Using Google Trends, Gaussian Mixture Models and DBSCAN for the Estimation of Twitter User Home Location. Lecture Notes in Computer Science, 2020, , 526-534.	0.2	2
135	Class-Based OSPF Traffic Engineering Inspired on Evolutionary Computation. , 2007, , 141-152.		2
136	A Comparison of Machine Learning Approaches for Predicting In-Car Display Production Quality. Lecture Notes in Computer Science, 2021, , 3-11.	0.2	2
137	A Machine Learning Approach for Spare Parts Lifetime Estimation. , 2022, , .		2
138	A data-driven intelligent decision support system that combines predictive and prescriptive analytics for the design of new textile fabrics. Neural Computing and Applications, 2023, 35, 17375-17395.	5.7	2
139	Using data mining to study the impact of topology characteristics on the performance of wireless mesh networks. , 2012, , .		1
140	Fourth special issue on knowledge discovery and business intelligence. Expert Systems, 2018, 35, e12314.	4.5	1
141	Multiconstrained Optimization of Networks with Multicast and Unicast Traffic. Lecture Notes in Computer Science, 2008, , 139-150.	0.2	1
142	A Framework for Improving Routing Configurations using Multi-Objective Optimization Mechanisms. Journal of Communications Software and Systems, 2017, 12, 145.	0.8	1
143	Viewing Scheduling Problems through Genetic and Evolutionary Algorithms. Lecture Notes in Computer Science, 2000, , 612-619.	0.2	1
144	Automatic Provisioning of QoS Aware OSPF Configurations. Journal of Networks, 2007, 2, .	0.4	1

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145	Robust Optimization of Intradomain Routing Using Evolutionary Algorithms. Advances in Intelligent Systems and Computing, 2013, , 201-208.	1.5	1
146	Using Neuroevolution for Predicting Mobile Marketing Conversion. Lecture Notes in Computer Science, 2019, , 373-384.	0.2	1
147	An Intelligent Decision Support System for Production Planning in Garments Industry. Lecture Notes in Computer Science, 2021, , 378-386.	0.2	1
148	Production Time Prediction for Contract Manufacturing Industries Using Automated Machine Learning. IFIP Advances in Information and Communication Technology, 2022, , 262-273.	1.0	1
149	An Empirical Study on Anomaly Detection Algorithms for Extremely Imbalanced Datasets. IFIP Advances in Information and Communication Technology, 2022, , 85-95.	1.0	1
150	An Industry 4.0 Intelligent Decision Support System for Analytical Laboratories. IFIP Advances in Information and Communication Technology, 2022, , 159-169.	1.0	1
151	An Evolutionary Neural Network Approach for Slopes Stability Assessment. Applied Sciences (Switzerland), 2023, 13, 8084.	2.6	1
152	A data-driven approach to improve online consumer subscriptions by combining data visualization and machine learning methods. International Journal of Consumer Studies, 2024, 48, .	11.6	1
153	Multiobjective Evolutionary Algorithms for intradomain routing optimization. , 2011, , .		0
154	Evolving sparsely connected neural networks for multi-step ahead forecasting. , 2011, , .		0
155	Evolutionary Support Vector Machines for Time Series Forecasting. Lecture Notes in Computer Science, 2012, , 523-530.	0.2	0
156	Application of Data Mining in Transportation Geotechnics. , 2011, , .		0
157	Weighted Cross-Validation Evolving Artificial Neural Networks to Forecast Time Series. Advances in Intelligent and Soft Computing, 2011, , 147-154.	0.0	0
158	Human Skeleton Detection from Semi-constrained Environment Video. , 2017, , .		0
159	Blind Search. Use RI, 2021, , 45-57.	0.0	0
160	Bosch's Industry 4.0 Advanced Data Analytics: Historical and Predictive Data Integration for Decision Support. Lecture Notes in Business Information Processing, 2022, , 580-596.	0.0	0
161	International revenue share fraud prediction on the 5G edge using federated learning. Computing (Vienna/New York), 0, , .	4.8	0
162	Machine Learning for Predicting Production Disruptions in the Wood-Based Panels Industry: A Demonstration Case. IFIP Advances in Information and Communication Technology, 2023, , 340-351.	1.0	0

#	ARTICLE	IF	CITATIONS
163	Editorial: Seventh special issue on Knowledge Discovery and Business Intelligence. Expert Systems, 0, , .	4.5	0
164	Data science approaches for sustainable development. Expert Systems, 2024, 41, .	4.5	0