

Dursun Delen

List of Publications by Year in descending order

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Version: 2024-02-01

159
papers

8,378
citations

43973

48
h-index

49773

87
g-index

165
all docs

165
docs citations

165
times ranked

7579
citing authors

#	ARTICLE	IF	CITATIONS
1	Predicting breast cancer survivability: a comparison of three data mining methods. Artificial Intelligence in Medicine, 2005, 34, 113-127.	3.8	890
2	Leveraging the capabilities of service-oriented decision support systems: Putting analytics and big data in cloud. Decision Support Systems, 2013, 55, 412-421.	3.5	454
3	Identifying significant predictors of injury severity in traffic accidents using a series of artificial neural networks. Accident Analysis and Prevention, 2006, 38, 434-444.	3.0	315
4	Data, information and analytics as services. Decision Support Systems, 2013, 55, 359-363.	3.5	275
5	RFID for Better Supplyâ€Chain Management through Enhanced Information Visibility. Production and Operations Management, 2007, 16, 613-624.	2.1	243
6	Measuring firm performance using financial ratios: A decision tree approach. Expert Systems With Applications, 2013, 40, 3970-3983.	4.4	240
7	Comparative analysis of data mining methods for bankruptcy prediction. Decision Support Systems, 2012, 52, 464-473.	3.5	239
8	Predicting box-office success of motion pictures with neural networks. Expert Systems With Applications, 2006, 30, 243-254.	4.4	235
9	Development of a fuzzy ANP based SWOT analysis for the airline industry in Turkey. Expert Systems With Applications, 2012, 39, 14-24.	4.4	209
10	An ANP and fuzzy TOPSIS-based SWOT analysis for Turkeyâ€™s energy planning. Renewable and Sustainable Energy Reviews, 2018, 82, 1538-1550.	8.2	202
11	A comparative analysis of machine learning techniques for student retention management. Decision Support Systems, 2010, 49, 498-506.	3.5	189
12	Business analytics and firm performance: The mediating role of business process performance. Journal of Business Research, 2019, 96, 228-237.	5.8	184
13	Seeding the survey and analysis of research literature with text mining. Expert Systems With Applications, 2008, 34, 1707-1720.	4.4	170
14	A Novel Method for Automated Diagnosis of Epilepsy Using Complex-Valued Classifiers. IEEE Journal of Biomedical and Health Informatics, 2016, 20, 108-118.	3.9	164
15	An RFID network design methodology for asset tracking in healthcare. Decision Support Systems, 2010, 49, 100-109.	3.5	137
16	Selecting â€œThe Bestâ€ERP system for SMEs using a combination of ANP and PROMETHEE methods. Expert Systems With Applications, 2015, 42, 2343-2352.	4.4	136
17	Use of ANP weighted crisp and fuzzy QFD for product development. Expert Systems With Applications, 2014, 41, 4464-4474.	4.4	135
18	Big data analytics capabilities and firm performance: An integrated MCDM approach. Journal of Business Research, 2020, 114, 1-15.	5.8	127

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19	A critical assessment of imbalanced class distribution problem: The case of predicting freshmen student attrition. <i>Expert Systems With Applications</i> , 2014, 41, 321-330.	4.4	118
20	Measuring the efficiency of customer satisfaction and loyalty for mobile phone brands with DEA. <i>Expert Systems With Applications</i> , 2012, 39, 99-106.	4.4	117
21	Research challenges and opportunities in business analytics. <i>Journal of Business Analytics</i> , 2018, 1, 2-12.	1.8	114
22	Predicting the graft survival for heart-lung transplantation patients: An integrated data mining methodology. <i>International Journal of Medical Informatics</i> , 2009, 78, e84-e96.	1.6	105
23	The analytics paradigm in business research. <i>Journal of Business Research</i> , 2018, 90, 186-195.	5.8	104
24	Predicting hospital readmission for lupus patients: An RNN-LSTM-based deep-learning methodology. <i>Computers in Biology and Medicine</i> , 2018, 101, 199-209.	3.9	103
25	Computer-Aided Diagnosis of Parkinson's Disease Using Complex-Valued Neural Networks and mRMR Feature Selection Algorithm. <i>Journal of Healthcare Engineering</i> , 2015, 6, 281-302.	1.1	95
26	Predicting overall survivability in comorbidity of cancers: A data mining approach. <i>Decision Support Systems</i> , 2015, 74, 150-161.	3.5	92
27	Analysis of cancer data: a data mining approach. <i>Expert Systems</i> , 2009, 26, 100-112.	2.9	90
28	A machine learning-based usability evaluation method for eLearning systems. <i>Decision Support Systems</i> , 2013, 56, 63-73.	3.5	90
29	Investigating injury severity risk factors in automobile crashes with predictive analytics and sensitivity analysis methods. <i>Journal of Transport and Health</i> , 2017, 4, 118-131.	1.1	81
30	Development of a hybrid methodology for ERP system selection: The case of Turkish Airlines. <i>Decision Support Systems</i> , 2014, 66, 82-92.	3.5	79
31	The use of multi-criteria decision-making methods in business analytics: A comprehensive literature review. <i>Technological Forecasting and Social Change</i> , 2022, 174, 121193.	6.2	76
32	A synthetic informative minority over-sampling (SIMO) algorithm leveraging support vector machine to enhance learning from imbalanced datasets. <i>Decision Support Systems</i> , 2018, 106, 15-29.	3.5	75
33	A comparative analysis of machine learning systems for measuring the impact of knowledge management practices. <i>Decision Support Systems</i> , 2013, 54, 1150-1160.	3.5	74
34	A multi-objective decision-making approach for sustainable energy investment planning. <i>Renewable Energy</i> , 2018, 126, 387-402.	4.3	74
35	A data analytics approach to building a clinical decision support system for diabetic retinopathy: Developing and deploying a model ensemble. <i>Decision Support Systems</i> , 2017, 101, 12-27.	3.5	72
36	No Place Like Home: Cross-National Data Analysis of the Efficacy of Social Distancing During the COVID-19 Pandemic. <i>JMIR Public Health and Surveillance</i> , 2020, 6, e19862.	1.2	72

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37	Movie forecast Guru: A Web-based DSS for Hollywood managers. <i>Decision Support Systems</i> , 2007, 43, 1151-1170.	3.5	70
38	Predicting and analyzing secondary education placement-test scores: A data mining approach. <i>Expert Systems With Applications</i> , 2012, 39, 9468-9476.	4.4	70
39	Better management of blood supply-chain with GIS-based analytics. <i>Annals of Operations Research</i> , 2011, 185, 181-193.	2.6	69
40	A fuzzy-hybrid analytic model to assess investors' perceptions for industry selection. <i>Decision Support Systems</i> , 2016, 86, 24-34.	3.5	65
41	A machine learning-based approach to prognostic analysis of thoracic transplantations. <i>Artificial Intelligence in Medicine</i> , 2010, 49, 33-42.	3.8	61
42	An investigation of data and text mining methods for real world deception detection. <i>Expert Systems With Applications</i> , 2011, 38, 8392-8398.	4.4	61
43	Predicting Student Attrition with Data Mining Methods. <i>The Journal of College Student Retention: Research and Practice</i> , 2011, 13, 17-35.	0.9	60
44	Medical informatics research trend analysis: A text mining approach. <i>Health Informatics Journal</i> , 2018, 24, 432-452.	1.1	57
45	A decision analytic approach to predicting quality of life for lung transplant recipients: A hybrid genetic algorithms-based methodology. <i>European Journal of Operational Research</i> , 2018, 266, 639-651.	3.5	57
46	An integrated decision analysis methodology based on IF-DEMATEL and IF-ELECTRE for personnel selection. <i>Decision Support Systems</i> , 2020, 137, 113360.	3.5	57
47	A comparative analysis of data mining methods in predicting NCAA bowl outcomes. <i>International Journal of Forecasting</i> , 2012, 28, 543-552.	3.9	56
48	Social Media for Nowcasting Flu Activity: Spatio-Temporal Big Data Analysis. <i>Information Systems Frontiers</i> , 2019, 21, 743-760.	4.1	52
49	Analysis of healthcare coverage: A data mining approach. <i>Expert Systems With Applications</i> , 2009, 36, 995-1003.	4.4	51
50	Analyzing initial public offerings' short-term performance using decision trees and SVMs. <i>Decision Support Systems</i> , 2015, 73, 15-27.	3.5	51
51	Knowledge management and ERP: Complementary or contradictory?. <i>International Journal of Information Management</i> , 2017, 37, 703-712.	10.5	50
52	Predicting and explaining corruption across countries: A machine learning approach. <i>Government Information Quarterly</i> , 2020, 37, 101407.	4.0	50
53	Development of a structural equation modeling-based decision tree methodology for the analysis of lung transplantations. <i>Decision Support Systems</i> , 2011, 51, 155-166.	3.5	49
54	A two-stage analytical approach to assess sustainable energy efficiency. <i>Energy</i> , 2018, 164, 822-836.	4.5	49

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55	An analytic approach to better understanding and management of coronary surgeries. <i>Decision Support Systems</i> , 2012, 52, 698-705.	3.5	48
56	Deep-learning-based short-term electricity load forecasting: A real case application. <i>Engineering Applications of Artificial Intelligence</i> , 2022, 109, 104645.	4.3	48
57	An integrated and intelligent DSS for manufacturing systems. <i>Expert Systems With Applications</i> , 2006, 30, 325-336.	4.4	45
58	Integrated modeling. <i>Communications of the ACM</i> , 2005, 48, 107-112.	3.3	44
59	Development of a Bayesian Belief Network-based DSS for predicting and understanding freshmen student attrition. <i>European Journal of Operational Research</i> , 2020, 281, 575-587.	3.5	41
60	The impact of multinationality on firm value: A comparative analysis of machine learning techniques. <i>Decision Support Systems</i> , 2014, 59, 127-142.	3.5	40
61	A comparative analysis of machine learning methods for classification type decision problems in healthcare. <i>Decision Analytics</i> , 2014, 1, .	1.4	40
62	A fuzzy Einstein-based decision support system for public transportation management at times of pandemic. <i>Knowledge-Based Systems</i> , 2022, 252, 109414.	4.0	32
63	A chronological pharmacovigilance network analytics approach for predicting adverse drug events. <i>Journal of the American Medical Informatics Association: JAMIA</i> , 2018, 25, 1311-1321.	2.2	29
64	Performance analysis of a kitting process in stochastic assembly systems. <i>Computers and Operations Research</i> , 2005, 32, 449-463.	2.4	28
65	Predicting and explaining inflammation in Crohn's disease patients using predictive analytics methods and electronic medical record data. <i>Health Informatics Journal</i> , 2019, 25, 1201-1218.	1.1	27
66	An analytics approach to decision alternative prioritization for zero-emission zone logistics. <i>Journal of Business Research</i> , 2022, 146, 554-570.	5.8	27
67	A text-mining based cyber-risk assessment and mitigation framework for critical analysis of online hacker forums. <i>Decision Support Systems</i> , 2022, 152, 113651.	3.5	25
68	The promise of RFID-based sensors in the perishables supply chain. <i>IEEE Wireless Communications</i> , 2011, 18, 82-88.	6.6	23
69	Processing electronic medical records to improve predictive analytics outcomes for hospital readmissions. <i>Decision Support Systems</i> , 2018, 112, 98-110.	3.5	23
70	Towards a truly integrated enterprise modeling and analysis environment. <i>Computers in Industry</i> , 2003, 51, 257-268.	5.7	22
71	Using predictive analytics to identify drug-resistant epilepsy patients. <i>Health Informatics Journal</i> , 2020, 26, 449-460.	1.1	21
72	Data analytics for the sustainable use of resources in hospitals: Predicting the length of stay for patients with chronic diseases. <i>Information and Management</i> , 2022, 59, 103282.	3.6	21

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73	A probabilistic Bayesian inference model to investigate injury severity in automobile crashes. Decision Support Systems, 2021, 150, 113557.	3.5	20
74	Balanced scorecard-based analysis of customer expectations for cosmetology services: a hybrid decision modeling approach. Journal of Management Analytics, 2020, 7, 532-563.	1.6	19
75	Text-mining analysis of mHealth research. MHealth, 2017, 3, 53-53.	0.9	17
76	Development of a new metric to identify rare patterns in association analysis: The case of analyzing diabetes complications. Expert Systems With Applications, 2018, 94, 112-125.	4.4	17
77	A comparative analysis of machine learning techniques and fuzzy analytic hierarchy process to determine the tacit knowledge criteria. Annals of Operations Research, 2022, 308, 753-776.	2.6	17
78	Artificial Neural Networks in Decision Support Systems. , 2008, , 557-580.		16
79	A holistic framework for knowledge discovery and management. Communications of the ACM, 2009, 52, 141-145.	3.3	16
80	A novel diffusion-based model for estimating cases, and fatalities in epidemics: The case of COVID-19. Journal of Business Research, 2021, 124, 163-178.	5.8	16
81	Developing a hybrid analytics approach to measure the efficiency of deposit banks. Journal of Business Research, 2019, 104, 131-145.	5.8	15
82	The confounding role of common diabetes medications in developing acute renal failure: A data mining approach with emphasis on drug-drug interactions. Expert Systems With Applications, 2019, 123, 168-177.	4.4	15
83	Crafting performance-based cryptocurrency mining strategies using a hybrid analytics approach. Decision Support Systems, 2021, 142, 113473.	3.5	15
84	Can customer sentiment impact firm value? An integrated text mining approach. Technological Forecasting and Social Change, 2022, 174, 121265.	6.2	15
85	Determining the Efficacy of Data-Mining Methods in Predicting Gaming Ballot Outcomes. Journal of Hospitality and Tourism Research, 2006, 30, 313-332.	1.8	14
86	A critical analysis of COVID-19 research literature: Text mining approach. Intelligence-based Medicine, 2021, 5, 100036.	1.4	14
87	Discovering injury severity risk factors in automobile crashes: A hybrid explainable AI framework for decision support. Reliability Engineering and System Safety, 2022, 226, 108720.	5.1	14
88	Knowledge Extraction from Prostate Cancer Data. , 2006, , .		13
89	An explanatory machine learning framework for studying pandemics: The case of COVID-19 emergency department readmissions. Decision Support Systems, 2022, 161, 113730.	3.5	13
90	Exploration of Feature Selection and Advanced Classification Models for High-Stakes Deception Detection. , 2008, , .		12

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91	The Influence of Knowledge Management on Financial and Non-Financial Performance. Journal of Information and Knowledge Management, 2015, 14, 1550013.	0.8	12
92	An interpretable decision-support systems for daily cryptocurrency trading. Expert Systems With Applications, 2022, 203, 117409.	4.4	12
93	An analytic approach to assessing organizational citizenship behavior. Decision Support Systems, 2017, 103, 9-23.	3.5	11
94	Research Themes and Trends in Ten Top-Ranked Nephrology Journals: A Text Mining Analysis. American Journal of Nephrology, 2020, 51, 147-159.	1.4	11
95	Derivation and Validation of Essential Predictors and Risk Index for Early Detection of Diabetic Retinopathy Using Electronic Health Records. Journal of Clinical Medicine, 2021, 10, 1473.	1.0	11
96	A probabilistic data analytics methodology based on Bayesian Belief network for predicting and understanding breast cancer survival. Knowledge-Based Systems, 2022, 242, 108407.	4.0	11
97	Social capital and organizational performance: The mediating role of innovation activities and intellectual capital. Healthcare Analytics, 2022, 2, 100046.	2.6	11
98	An investigation of the factors influencing cost system functionality using decision trees, support vector machines and logistic regression. International Journal of Accounting and Information Management, 2019, 27, 27-55.	2.1	10
99	A Predictive Analytics-Based Decision Support System for Drug Courts. Information Systems Frontiers, 2020, 22, 1323-1342.	4.1	10
100	Assessing the supply chain performance: a causal analysis. Annals of Operations Research, 2020, 287, 37-60.	2.6	10
101	Predicting the Outcome of a Football Game: A Comparative Analysis of Single and Ensemble Analytics Methods. , 2019, , .		10
102	Forecasting gaming referenda. Annals of Tourism Research, 2005, 32, 127-149.	3.7	9
103	A fuzzy long-term investment planning model for a GenCo in a hybrid electricity market considering climate change impacts. Information Systems Frontiers, 2017, 19, 975-991.	4.1	9
104	The impact of real-time business intelligence and advanced analytics on the behaviour of business decision makers. , 2018, , .		9
105	Post-acute care referral in United States of America: a multiregional study of factors associated with referral destination in a cohort of patients with coronary artery bypass graft or valve replacement. BMC Medical Informatics and Decision Making, 2019, 19, 223.	1.5	9
106	An interactive decision support system for real-time ambulance relocation with priority guidelines. Decision Support Systems, 2022, 155, 113712.	3.5	9
107	An Automated Grading and Diagnosis System for Evaluation of Dry Eye Syndrome. Journal of Medical Systems, 2018, 42, 227.	2.2	7
108	Examining the effect of prescription sequence on developing adverse drug reactions: The case of renal failure in diabetic patients. International Journal of Medical Informatics, 2019, 125, 62-70.	1.6	7

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109	Nonprofit organization fraud reporting: does governance matter?. International Journal of Accounting and Information Management, 2020, 28, 409-428.	2.1	7
110	Digital Transformation: How to Beat the 90% Failure Rate?. IEEE Engineering Management Review, 2021, 49, 22-25.	1.0	7
111	Clustering temporal disease networks to assist clinical decision support systems in visual analytics of comorbidity progression. Decision Support Systems, 2021, 148, 113583.	3.5	7
112	GÄ-RÄNTÄĖ BÄ-LÄTLEME ve GÄ-RÄNTÄĖ BENZETÄ°MÄ° YÄ-NTEMLERÄ° YARDIMI ile HASTALIÄŽIN TEÄZHÄ°S ve TEDAVÄ° SON SÄĖREÄĖLERÄ°NÄ°N DESTEKLENMESÄ°: KERATOKONUS Ä-RNEÄŽÄ°. Journal of the Faculty of Engineering and Architecture of Gazi University, 2016, 31, .	0.3	7
113	An explanatory analytics framework for early detection of chronic risk factors in pandemics. Healthcare Analytics, 2022, 2, 100020.	2.6	7
114	A deep learning approach for predicting early bounce-backs to the emergency departments. Healthcare Analytics, 2022, 2, 100018.	2.6	7
115	Provider selection and task allocation in telecommunications with QoS degradation policy. Annals of Operations Research, 2018, 263, 311-337.	2.6	5
116	The Strategic Value of Big Data Analytics in Health Care Policy-Making. International Journal of E-Business Research, 2018, 14, 20-33.	0.7	5
117	Modeling airline MRO operations using a systems dynamics approach. Journal of Quality in Maintenance Engineering, 2018, 24, 280-310.	1.0	5
118	Title is missing!. Journal of Intelligent Manufacturing, 2001, 12, 247-255.	4.4	4
119	To imprison or not to imprison: an analytics model for drug courts. Annals of Operations Research, 2021, 303, 101-124.	2.6	4
120	Introduction to Data, Text and Web Mining for Business Analytics Minitrack. , 2017, , .		4
121	Extracting Knowledge from Published Literature Using RapidMiner. , 2012, , 375-394.		3
122	Optimal Pricing Strategies for Capacity Leasing Based on Time and Volume Usage in Telecommunication Networks. Decision Sciences, 2013, 44, 161-191.	3.2	3
123	Predicting quality of life for lung transplant recipients: A hybrid genetic algorithms-based methodology. , 2017, , .		3
124	Machine Learning to Compare Frequent Medical Problems of African American and Caucasian Diabetic Kidney Patients. Healthcare Informatics Research, 2017, 23, 241.	1.0	3
125	Introduction to the inaugural issue of Journal of Business Analytics. Journal of Business Analytics, 2018, 1, 1-1.	1.8	3
126	An integrated approach for lean production using simulation and data envelopment analysis. Annals of Operations Research, 2023, 320, 863-886.	2.6	2

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127	Data Integration and Predictive Analysis System for Disease Prophylaxis. , 2017, , .		2
128	The Interrelationships between the length of stay, readmission, and post-acute care referral in cardiac surgery patients. Healthcare Analytics, 2022, 2, 100062.	2.6	2
129	An explanatory analytics model for identifying factors indicative of long- versus short-term survival after lung transplantation. Decision Analytics Journal, 2022, 3, 100058.	2.7	2
130	Relationship between electronic health records strategy and user satisfaction: a longitudinal study using cliniciansâ€™ online reviews. Journal of the American Medical Informatics Association: JAMIA, 2022, 29, 1577-1583.	2.2	2
131	Predicting Box Office Success of Motion Pictures with Text Mining. , 2012, , 543-556.		1
132	Introduction to Data, Text, and Web Mining for Business Analytics Minitrack. , 2015, , .		1
133	Critical assessment of health disparities across subpopulation groups through a social determinants of health perspective: The case of type 2 diabetes patients. Informatics for Health and Social Care, 2018, 43, 172-185.	1.4	1
134	Why do enterprise transformations fail? HINT: ITâ€™S not what you think. Journal of Enterprise Transformation, 2019, , 1-16.	1.0	1
135	Volume discount strategies for the provider selection problem in telecommunications under uncertainty. Journal of Intelligent and Fuzzy Systems, 2019, 37, 2991-3015.	0.8	1
136	Determining Optimal Skillsets for Business Managers Based on Local and Global Job Markets: A Text Analytics Approach. Decision Sciences Journal of Innovative Education, 2020, 18, 374-408.	0.5	1
137	KNIME Analytics Platform for Visual Data Science and Business Analytics Teaching. , 2021, , .		1
138	Predicting and Explaining Pig Iron Production on Charcoal Blast Furnaces: A Machine Learning Approach. Interfaces, 2021, 51, 213-235.	1.6	1
139	Introduction to the Minitrack on Data, Text, and Web Mining for Business Analytics. , 2019, , .		1
140	A Hybrid Heuristic Approach to Provider Selection and Task Allocation Problem in Telecommunications with Varying QoS Levels. International Journal of Computational Intelligence Systems, 2017, 10, 866.	1.6	1
141	Supply Chain Orientation, ERP Usage and Knowledge Management in Supply Chain. Lecture Notes in Mechanical Engineering, 2020, , 580-590.	0.3	1
142	A Scalable Classification Algorithm for Very Large Datasets. Journal of Information and Knowledge Management, 2005, 04, 83-94.	0.8	0
143	A holistic approach to manufacturing systems modelling. International Journal of Simulation and Process Modelling, 2009, 5, 54.	0.1	0
144	Introduction to Advanced Analytics Services for Managerial Decision Support Minitrack. , 2012, , .		0

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145	Introduction to Predictive Analytics and Big Data Minitrack. , 2013, , .		0
146	Analyzing the Predictability of Exchange Traded Funds Characteristics in the Mutual Fund Market on the Flow of Shares Using a Data Mining Approach. , 2014, , .		0
147	Introduction to Data, Text, and Web Mining for Managerial Decision Support Minitrack. , 2014, , .		0
148	Stochastic Capacity Acquisition and Allocation Model for Bandwidth Brokers under Fuzzy Volume Based Pricing Scheme. International Journal of Computational Intelligence Systems, 2016, 9, 227.	1.6	0
149	Introduction to Data, Text, and Web Mining for Business Analytics Minitrack. , 2016, , .		0
150	288 Predicting Potential Bouncebacks to the Emergency Department: A Machine Learning Approach. Annals of Emergency Medicine, 2019, 74, S114.	0.3	0
151	Discovering opioid usersâ€™ medical comorbidities: a data mining approach. Journal of Substance Use, 2020, 25, 40-45.	0.3	0
152	Introduction to the Minitrack on Data, Text and Web Mining for Business Analytics. , 0, , .		0
153	Uncovering Different CKD-Related Medical Issues Among African American Gender Groups Using Apriori. , 2017, , .		0
154	Introduction to the Minitrack on Data, Text and Web Mining for Business Analytics. , 2018, , .		0
155	Data Analytics Process: An Application Case on Predicting Student Attrition. , 2018, , 31-65.		0
156	Impact of Loss and Gain Forecasting on the Behavior of Pricing Decision-making. International Journal of Data Science and Analysis, 2020, 6, 12.	0.2	0
157	Introduction to the Minitrack on Data, Text, and Web Mining for Business Analytics. , 2020, , .		0
158	Approaches for text mining of mHealth literature. MHealth, 2022, 8, 0-0.	0.9	0
159	A Fuzzy Prescriptive Analytics Approach to Power Generation Capacity Planning. Energies, 2022, 15, 3176.	1.6	0