Muhammet GÃ¼l

List of Publications by Year
in descending order

85 papers	3,309 citations	147566 31 h-index	161609 54 g-index
94 all docs	94 docs citations	94 times ranked	1840 citing authors

#	Article	IF	Citations
1	How Covid-19 pandemic and partial lockdown decisions affect air quality of a city? The case of Istanbul, Turkey. Environment, Development and Sustainability, 2022, 24, 1616-1654.	2.7	12
2	Occupational health, safety and environmental risk assessment in textile production industry through a Bayesian BWM-VIKOR approach. Stochastic Environmental Research and Risk Assessment, 2022, 36, 629-642.	1.9	36
3	Performance evaluation of Turkish Universities by an integrated Bayesian BWM-TOPSIS model. Socio-Economic Planning Sciences, 2022, 80, 101173.	2.5	28
4	A Bayesian BWM and VIKOR-based model for assessing hospital preparedness in the face of disasters. Natural Hazards, 2022, 111, 1603-1635.	1.6	14
5	A Multi-attribute Decision-Making to Sustainable Construction Material Selection: A Bayesian BWM-SAW Hybrid Model. , 2022, , 67-78.		4
6	A fuzzy hybrid decision-making framework for increasing the hospital disaster preparedness: The colombian case. International Journal of Disaster Risk Reduction, 2022, 72, 102831.	1.8	16
7	Control measure prioritization in Fineâ€‰â˜â€‰Kinney-based risk assessment: a Bayesian BWM-Fuzzy VIKOR combined approach in an oil station. Environmental Science and Pollution Research, 2022, 29, 59385-59402.	2.7	16
8	A multicriteria approach to integrating occupational safety & health performance and industry systems productivity in the context of aging workforce: A case study. Safety Science, 2022, 152, 105764.	2.6	10
9	An interval type-2 fuzzy enhanced bestâ€“worst method for the evaluation of ship diesel generator failures. Engineering Failure Analysis, 2022, 138, 106428.	1.8	10
10	Fineâ€“Kinney Occupational Risk Assessment Method and Its Extensions by Fuzzy Sets: A State-of-the-Art Review. Studies in Fuzziness and Soft Computing, 2021, , 1-11.	0.6	2
11	Fineâ€“Kinney-Based Occupational Risk Assessment Using Interval Type-2 Fuzzy TOPSIS. Studies in Fuzziness and Soft Computing, 2021, , 31-44.	0.6	1
12	Failure prioritization and control using the neutrosophic best and worst method. Granular Computing, 2021, 6, 435-449.	4.4	20
13	Hospital Preparedness Assessment against COVID-19 Pandemic: A Case Study in Turkish Tertiary Healthcare Services. Mathematical Problems in Engineering, 2021, 2021, 1-18.	0.6	27
14	A Risk Prioritization Method Based on Interval-Valued Pythagorean Fuzzy TOPSIS and Its Application for Prioritization of the Risks Emerged at Hospitals During the Covid-19 Pandemic. , 2021, , 147-165.		0
15	Hospital Location Selection: A Systematic Literature Review on Methodologies and Applications. Mathematical Problems in Engineering, 2021, 2021, 1-14.	0.6	17
16	A holistic FMEA approach by fuzzy-based Bayesian network and bestâ€“worst method. Complex & Intelligent Systems, 2021, 7, 1547-1564.	4.0	44
17	A modified failure modes and effects analysis using interval-valued spherical fuzzy extension of TOPSIS method: case study in a marble manufacturing facility. Soft Computing, 2021, 25, 6157-6178.	2.1	65
18	Failure modes and effects analysis based on neutrosophic analytic hierarchy process: method and application. Soft Computing, 2021, 25, 11035-11052.	2.1	17

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19	TOPSIS-Sort Temelli Nicel Bir Mesleki Risk DeÄŸerlendirme Metodolojisi ve AlÃ¼minyum EkstrÃ¼zyon EndÃ¼strisinde UygulanmasÄ±. International Journal of Pure and Applied Sciences, 2021, 7, 163-172.	0.3	10
20	Hazard identification, risk assessment and control for dam construction safety using an integrated BWM and MARCOS approach under interval type-2 fuzzy sets environment. Automation in Construction, 2021, 127, 103699.	4.8	74
21	Green supplier selection for textile industry: a case study using BWM-TODIM integration under interval type-2 fuzzy sets. Environmental Science and Pollution Research, 2021, 28, 64793-64817.	2.7	42
22	Fermatean fuzzy TOPSIS-based approach for occupational risk assessment in manufacturing. Complex & Intelligent Systems, 2021, 7, 2635-2653.	4.0	37
23	A multiple criteria decision-making approach for increasing the preparedness level of sales departments against COVID-19 and future pandemics: A real-world case. International Journal of Disaster Risk Reduction, 2021, 62, 102411.	1.8	8
24	Systems failure analysis using Z-number theory-based combined compromise solution and full consistency method. Applied Soft Computing Journal, 2021, 113, 107902.	4.1	29
25	Sustainable supplier evaluation and transportation planning in multi-level supply chain networks using multi-attribute- and multi-objective decision making. Computers and Industrial Engineering, 2021, 162, 107756.	3.4	27
26	Extension of FEMA and SMUG models with Bayesian best-worst method for disaster risk reduction. International Journal of Disaster Risk Reduction, 2021, 66, 102631.	1.8	21
27	Fineâ€“Kinney-Based Occupational Risk Assessment Using Interval-Valued Pythagorean Fuzzy VIKOR. Studies in Fuzziness and Soft Computing, 2021, , 45-68.	0.6	1
28	Fineâ€“Kinney-Based Occupational Risk Assessment Using Hexagonal Fuzzy MULTIMOORA. Studies in Fuzziness and Soft Computing, 2021, , 91-110.	0.6	0
29	Fineâ€“Kinney-Based Occupational Risk Assessment Using Single-Valued Neutrosophic TOPSIS. Studies in Fuzziness and Soft Computing, 2021, , 111-133.	0.6	5
30	Metaheuristic Approaches Integrated with ANN in Forecasting Daily Emergency Department Visits. Mathematical Problems in Engineering, 2021, 2021, 1-14.	0.6	1
31	Evaluating occupational health and safety service quality by SERVQUAL: a field survey study. Total Quality Management and Business Excellence, 2020, 31, 524-541.	2.4	12
32	An exhaustive review and analysis on applications of statistical forecasting in hospital emergency departments. Health Systems, 2020, 9, 263-284.	0.9	37
33	A multi-method patient arrival forecasting outline for hospital emergency departments. International Journal of Healthcare Management, 2020, 13, 283-295.	1.2	24
34	Hospital service quality evaluation: an integrated model based on Pythagorean fuzzy AHP and fuzzy TOPSIS. Soft Computing, 2020, 24, 3237-3255.	2.1	126
35	Emergency department network under disaster conditions: The case of possible major Istanbul earthquake. Journal of the Operational Research Society, 2020, 71, 733-747.	2.1	24
36	A fuzzy-based occupational health and safety risk assessment framework and a case study in an international port authority. Journal of Marine Engineering and Technology, 2020, 19, 161-175.	1.9	31

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37	A Risk Assessment Approach Using Both Stochastic Data and Subjective Judgments. Advances in Intelligent Systems and Computing, 2020, , 1104-1111.	0.5	1
38	A manufacturing failure mode and effect analysis based on fuzzy and probabilistic risk analysis. Applied Soft Computing Journal, 2020, 96, 106689.	4.1	41
39	A NOVEL RISK EVALUATION APPROACH FOR FREQUENTLY ENCOUNTERED RISKS IN SHIP ENGINE ROOMS. Brodogradnja, 2020, 71, 31-54.	0.6	6
40	An FMEA-based TOPSIS approach under single valued neutrosophic sets for maritime risk evaluation: the case of ship navigation safety. Soft Computing, 2020, 24, 18749-18764.	2.1	64
41	Evaluation of hospital disaster preparedness by a multi-criteria decision making approach: The case of Turkish hospitals. International Journal of Disaster Risk Reduction, 2020, 49, 101748.	1.8	51
42	An Integrated Approach of Best-Worst Method (BWM) and Triangular Fuzzy Sets for Evaluating Driver Behavior Factors Related to Road Safety. Mathematics, 2020, 8, 414.	1.1	64
43	Assessment of occupational risks from human health and environmental perspectives: a new integrated approach and its application using fuzzy BWM and fuzzy MAIRCA. Stochastic Environmental Research and Risk Assessment, 2020, 34, 1231-1262.	1.9	51
44	Application of Pythagorean fuzzy AHP and VIKOR methods in occupational health and safety risk assessment: the case of a gun and rifle barrel external surface oxidation and colouring unit. International Journal of Occupational Safety and Ergonomics, 2020, 26, 705-718.	1.1	89
45	Development and application of a novel hybrid occupational risk assessment model. International Journal of Reliability and Safety, 2020, 14, 116.	0.2	2
46	A Fuzzy Decision-Making Model for the Key Performance Indicators of Hospital Service Quality Evaluation. Advances in Healthcare Information Systems and Administration Book Series, 2020, , 42-62.	0.2	3
47	NARX Neural Networks Model for Forecasting Daily Patient Arrivals in the Emergency Department. Advances in Healthcare Information Systems and Administration Book Series, 2020, , 1-18.	0.2	3
48	Deep Learning for Prediction of Bus Arrival Time in Public Transportation. , 2020, , 126-135.		3
49	Development and application of a novel hybrid occupational risk assessment model. International Journal of Reliability and Safety, 2020, 14, 116.	0.2	0
50	Emergency department ergonomic design evaluation: A case study using fuzzy DEMATEL-focused two-stage methodology. Health Policy and Technology, 2019, 8, 365-376.	1.3	12
51	Stochastic multi-criteria decision-making: an overview to methods and applications. Beni-Suef University Journal of Basic and Applied Sciences, 2019, 8, .	0.8	9
52	A decision-support system based on Pythagorean fuzzy VIKOR for occupational risk assessment of a natural gas pipeline construction. Journal of Natural Gas Science and Engineering, 2019, 71, 102979.	2.1	59
53	Pythagorean fuzzy VIKOR-based approach for safety risk assessment in mine industry. Journal of Safety Research, 2019, 69, 135-153.	1.7	128
54	An Integrated Best-Worst and Interval Type-2 Fuzzy TOPSIS Methodology for Green Supplier Selection. Mathematics, 2019, 7, 182.	1.1	72

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55	AHPâ€“TOPSIS integration extended with Pythagorean fuzzy sets for information security risk analysis. Complex & Intelligent Systems, 2019, 5, 113-126.	4.0	100
56	Risk assessment for clearing and grading process of a natural gas pipeline project: An extended TOPSIS model with Pythagorean fuzzy sets for prioritizing hazards. Human and Ecological Risk Assessment (HERA), 2019, 25, 1615-1632.	1.7	68
57	Measuring development levels of NUTS-2 regions in Turkey based on capabilities approach and multi-criteria decision-making. Computers and Industrial Engineering, 2019, 128, 150-169.	3.4	28
58	A fuzzy-based model for risk assessment of routes in oil transportation. International Journal of Environmental Science and Technology, 2019, 16, 4671-4686.	1.8	28
59	A Forecasting Model for Patient Arrivals of an Emergency Department in Healthcare Management Systems. Advances in Healthcare Information Systems and Administration Book Series, 2019, , 266-284.	0.2	5
60	A review of occupational health and safety risk assessment approaches based on multi-criteria decision-making methods and their fuzzy versions. Human and Ecological Risk Assessment (HERA), 2018, 24, 1723-1760.	1.7	117
61	Fuzzy rule-based Fineâ€“Kinney risk assessment approach for rail transportation systems. Human and Ecological Risk Assessment (HERA), 2018, 24, 1786-1812.	1.7	48
62	A fuzzy logic based PROMETHEE method for material selection problems. Beni-Suef University Journal of Basic and Applied Sciences, 2018, 7, 68-79.	0.8	81
63	A new Fine-Kinney-based risk assessment framework using FAHP-FVIKOR incorporation. Journal of Loss Prevention in the Process Industries, 2018, 53, 3-16.	1.7	93
64	Performance Comparison between ARIMAX, ANN and ARIMAX-ANN Hybridization in Sales Forecasting for Furniture Industry. Drvna Industrija, 2018, 69, 357-370.	0.3	12
65	A comparative outline for quantifying risk ratings in occupational health and safety risk assessment. Journal of Cleaner Production, 2018, 196, 653-664.	4.6	143
66	Assessment of occupational hazards and associated risks in fuzzy environment: A case study of a university chemical laboratory. Human and Ecological Risk Assessment (HERA), 2017, 23, 895-924.	1.7	64
67	A hybrid risk-based approach for maritime applications: The case of ballast tank maintenance. Human and Ecological Risk Assessment (HERA), 2017, 23, 1389-1403.	1.7	55
68	Occupational health and safety risk assessment in hospitals: A case study using two-stage fuzzy multi-criteria approach. Human and Ecological Risk Assessment (HERA), 2017, 23, 187-202.	1.7	85
69	Application of Artificial Neural Networks Using Bayesian Training Rule in Sales Forecasting for Furniture Industry. Drvna Industrija, 2017, 68, 219-228.	0.3	9
70	An Efficiency Evaluation Model for Academic Faculties of a Leading University by Data Envelopment Analysis. Ä°ÅŸletme AraÅŞtÄ±rmalarÄ± Dergisi, 2017, 3, 60-71.	0.3	0
71	A state of the art literature review of VIKOR and its fuzzy extensions on applications. Applied Soft Computing Journal, 2016, 46, 60-89.	4.1	210
72	An artificial neural network-based earthquake casualty estimation model for Istanbul city. Natural Hazards, 2016, 84, 2163-2178.	1.6	35

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73	Emergency department performance evaluation by an integrated simulation and interval type-2 fuzzy MCDM-based scenario analysis. European Journal of Industrial Engineering, 2016, 10, 196.	0.5	36
74	A fuzzy multi criteria risk assessment based on decision matrix technique: A case study for aluminum industry. Journal of Loss Prevention in the Process Industries, 2016, 40, 89-100.	1.7	143
75	PREPAREDNESS OF AN EMERGENCY DEPARTMENT NETWORK FOR A MAJOR EARTHQUAKE: A DISCRETE EVENT SIMULATION-BASED DESIGN OF EXPERIMENTS STUDY. , 2016, , .		1
76	Yapay sinir aÄŸlari kullanilarak acil servis hasta kaliÅŸ sÃ¼resinin tahmini. Journal of Aeronautics and Space Technologies (Havacilik Ve Uzay Teknolojileri Dergisi), 2015, 8, .	0.2	19
77	Simulation modelling of a patient surge in an emergency department under disaster conditions. Croatian Operational Research Review, 2015, 6, 429-443.	0.6	6
78	A comprehensive review of emergency department simulation applications for normal and disaster conditions. Computers and Industrial Engineering, 2015, 83, 327-344.	3.4	136
79	Are Emergency Departments in Istanbul Ready for the Earthquakes? Past Experience and Suggestions for Future Preparedness from Employeesâ€™ Viewpoint and the Literature. Journal of Homeland Security and Emergency Management, 2015, 12, 967-983.	0.2	6
80	A fuzzy AHP methodology for selection of risk assessment methods in occupational safety. International Journal of Risk Assessment and Management, 2015, 18, 319.	0.2	52
81	A comprehensive review of multi criteria decision making approaches based on interval type-2 fuzzy sets. Knowledge-Based Systems, 2015, 85, 329-341.	4.0	173
82	A discrete event simulation model of an emergency department network for earthquake conditions. , 2015, , .		6
83	A BAYESIAN NETWORK-BASED APPROACH FOR FAILURE ANALYSIS IN WEAPON INDUSTRY. Journal of Thermal Engineering, 0, , 222-229.	0.8	5
84	Forecasting daily natural gas consumption with regression, time series and machine learning based methods. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 0, , 1-16.	1.2	7
85	Hospital Preparedness Assessment against COVID-19 Pandemic: A Case Study in Turkish Tertiary Healthcare Services. SSRN Electronic Journal, 0, , .	0.4	1