

# Muhammet GÃ¼l

## List of Publications by Year in descending order

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Version: 2024-02-01

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	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
2	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
3	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
4	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
5	A comprehensive review of emergency department simulation applications for normal and disaster conditions. Computers and Industrial Engineering, 2015, 83, 327-344.	3.4	136
6	Pythagorean fuzzy VIKOR-based approach for safety risk assessment in mine industry. Journal of Safety Research, 2019, 69, 135-153.	1.7	128
7	Hospital service quality evaluation: an integrated model based on Pythagorean fuzzy AHP and fuzzy TOPSIS. Soft Computing, 2020, 24, 3237-3255.	2.1	126
8	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
9	AHP-TOPSIS integration extended with Pythagorean fuzzy sets for information security risk analysis. Complex & Intelligent Systems, 2019, 5, 113-126.	4.0	100
10	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
11	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
12	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
13	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
14	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
15	An Integrated Best-Worst and Interval Type-2 Fuzzy TOPSIS Methodology for Green Supplier Selection. Mathematics, 2019, 7, 182.	1.1	72
16	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
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	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

#	ARTICLE	IF	CITATIONS
19	An FMEA-based TOPSIS approach under single valued neutrosophic sets for maritime risk evaluation: the case of ship navigation safety. <i>Soft Computing</i> , 2020, 24, 18749-18764.	2.1	64
20	An Integrated Approach of Best-Worst Method (BWM) and Triangular Fuzzy Sets for Evaluating Driver Behavior Factors Related to Road Safety. <i>Mathematics</i> , 2020, 8, 414.	1.1	64
21	A decision-support system based on Pythagorean fuzzy VIKOR for occupational risk assessment of a natural gas pipeline construction. <i>Journal of Natural Gas Science and Engineering</i> , 2019, 71, 102979.	2.1	59
22	A hybrid risk-based approach for maritime applications: The case of ballast tank maintenance. <i>Human and Ecological Risk Assessment (HERA)</i> , 2017, 23, 1389-1403.	1.7	55
23	A fuzzy AHP methodology for selection of risk assessment methods in occupational safety. <i>International Journal of Risk Assessment and Management</i> , 2015, 18, 319.	0.2	52
24	Evaluation of hospital disaster preparedness by a multi-criteria decision making approach: The case of Turkish hospitals. <i>International Journal of Disaster Risk Reduction</i> , 2020, 49, 101748.	1.8	51
25	Assessment of occupational risks from human health and environmental perspectives: a new integrated approach and its application using fuzzy BWM and fuzzy MAIRCA. <i>Stochastic Environmental Research and Risk Assessment</i> , 2020, 34, 1231-1262.	1.9	51
26	Fuzzy rule-based Fineâ€™Kinney risk assessment approach for rail transportation systems. <i>Human and Ecological Risk Assessment (HERA)</i> , 2018, 24, 1786-1812.	1.7	48
27	A holistic FMEA approach by fuzzy-based Bayesian network and bestâ€™worst method. <i>Complex &amp; Intelligent Systems</i> , 2021, 7, 1547-1564.	4.0	44
28	Green supplier selection for textile industry: a case study using BWM-TODIM integration under interval type-2 fuzzy sets. <i>Environmental Science and Pollution Research</i> , 2021, 28, 64793-64817.	2.7	42
29	A manufacturing failure mode and effect analysis based on fuzzy and probabilistic risk analysis. <i>Applied Soft Computing Journal</i> , 2020, 96, 106689.	4.1	41
30	An exhaustive review and analysis on applications of statistical forecasting in hospital emergency departments. <i>Health Systems</i> , 2020, 9, 263-284.	0.9	37
31	Fermatean fuzzy TOPSIS-based approach for occupational risk assessment in manufacturing. <i>Complex &amp; Intelligent Systems</i> , 2021, 7, 2635-2653.	4.0	37
32	Emergency department performance evaluation by an integrated simulation and interval type-2 fuzzy MCDM-based scenario analysis. <i>European Journal of Industrial Engineering</i> , 2016, 10, 196.	0.5	36
33	Occupational health, safety and environmental risk assessment in textile production industry through a Bayesian BWM-VIKOR approach. <i>Stochastic Environmental Research and Risk Assessment</i> , 2022, 36, 629-642.	1.9	36
34	An artificial neural network-based earthquake casualty estimation model for Istanbul city. <i>Natural Hazards</i> , 2016, 84, 2163-2178.	1.6	35
35	A fuzzy-based occupational health and safety risk assessment framework and a case study in an international port authority. <i>Journal of Marine Engineering and Technology</i> , 2020, 19, 161-175.	1.9	31
36	Systems failure analysis using Z-number theory-based combined compromise solution and full consistency method. <i>Applied Soft Computing Journal</i> , 2021, 113, 107902.	4.1	29

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37	Measuring development levels of NUTS-2 regions in Turkey based on capabilities approach and multi-criteria decision-making. <i>Computers and Industrial Engineering</i> , 2019, 128, 150-169.	3.4	28
38	A fuzzy-based model for risk assessment of routes in oil transportation. <i>International Journal of Environmental Science and Technology</i> , 2019, 16, 4671-4686.	1.8	28
39	Performance evaluation of Turkish Universities by an integrated Bayesian BWM-TOPSIS model. <i>Socio-Economic Planning Sciences</i> , 2022, 80, 101173.	2.5	28
40	Hospital Preparedness Assessment against COVID-19 Pandemic: A Case Study in Turkish Tertiary Healthcare Services. <i>Mathematical Problems in Engineering</i> , 2021, 2021, 1-18.	0.6	27
41	Sustainable supplier evaluation and transportation planning in multi-level supply chain networks using multi-attribute- and multi-objective decision making. <i>Computers and Industrial Engineering</i> , 2021, 162, 107756.	3.4	27
42	A multi-method patient arrival forecasting outline for hospital emergency departments. <i>International Journal of Healthcare Management</i> , 2020, 13, 283-295.	1.2	24
43	Emergency department network under disaster conditions: The case of possible major Istanbul earthquake. <i>Journal of the Operational Research Society</i> , 2020, 71, 733-747.	2.1	24
44	Extension of FEMA and SMUG models with Bayesian best-worst method for disaster risk reduction. <i>International Journal of Disaster Risk Reduction</i> , 2021, 66, 102631.	1.8	21
45	Failure prioritization and control using the neutrosophic best and worst method. <i>Granular Computing</i> , 2021, 6, 435-449.	4.4	20
46	Yapay sinir aÄŸlari kullanilarak acil servis hasta kaliÅŸ sÄ¼resinin tahmini. <i>Journal of Aeronautics and Space Technologies (Havacilik Ve Uzay Teknolojileri Dergisi)</i> , 2015, 8, .	0.2	19
47	Hospital Location Selection: A Systematic Literature Review on Methodologies and Applications. <i>Mathematical Problems in Engineering</i> , 2021, 2021, 1-14.	0.6	17
48	Failure modes and effects analysis based on neutrosophic analytic hierarchy process: method and application. <i>Soft Computing</i> , 2021, 25, 11035-11052.	2.1	17
49	A fuzzy hybrid decision-making framework for increasing the hospital disaster preparedness: The colombian case. <i>International Journal of Disaster Risk Reduction</i> , 2022, 72, 102831.	1.8	16
50	Control measure prioritization in Fineâ€™â€™Kinney-based risk assessment: a Bayesian BWM-Fuzzy VIKOR combined approach in an oil station. <i>Environmental Science and Pollution Research</i> , 2022, 29, 59385-59402.	2.7	16
51	A Bayesian BWM and VIKOR-based model for assessing hospital preparedness in the face of disasters. <i>Natural Hazards</i> , 2022, 111, 1603-1635.	1.6	14
52	Performance Comparison between ARIMAX, ANN and ARIMAX-ANN Hybridization in Sales Forecasting for Furniture Industry. <i>Drvna Industrija</i> , 2018, 69, 357-370.	0.3	12
53	Emergency department ergonomic design evaluation: A case study using fuzzy DEMATEL-focused two-stage methodology. <i>Health Policy and Technology</i> , 2019, 8, 365-376.	1.3	12
54	Evaluating occupational health and safety service quality by SERVQUAL: a field survey study. <i>Total Quality Management and Business Excellence</i> , 2020, 31, 524-541.	2.4	12

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55	How Covid-19 pandemic and partial lockdown decisions affect air quality of a city? The case of Istanbul, Turkey. <i>Environment, Development and Sustainability</i> , 2022, 24, 1616-1654.	2.7	12
56	TOPSIS-Sort Temelli Nicel Bir Mesleki Risk DeÄŸerlendirme Metodolojisi ve AlÄ¼minyum EkstrÄ¼zyon EndÄ¼strisinde UygulanmasÄ±. <i>International Journal of Pure and Applied Sciences</i> , 2021, 7, 163-172.	0.3	10
57	A multicriteria approach to integrating occupational safety & health performance and industry systems productivity in the context of aging workforce: A case study. <i>Safety Science</i> , 2022, 152, 105764.	2.6	10
58	An interval type-2 fuzzy enhanced bestâ€“worst method for the evaluation of ship diesel generator failures. <i>Engineering Failure Analysis</i> , 2022, 138, 106428.	1.8	10
59	Application of Artificial Neural Networks Using Bayesian Training Rule in Sales Forecasting for Furniture Industry. <i>Drvna Industrija</i> , 2017, 68, 219-228.	0.3	9
60	Stochastic multi-criteria decision-making: an overview to methods and applications. <i>Beni-Suef University Journal of Basic and Applied Sciences</i> , 2019, 8, .	0.8	9
61	A multiple criteria decision-making approach for increasing the preparedness level of sales departments against COVID-19 and future pandemics: A real-world case. <i>International Journal of Disaster Risk Reduction</i> , 2021, 62, 102411.	1.8	8
62	Forecasting daily natural gas consumption with regression, time series and machine learning based methods. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 0, , 1-16.	1.2	7
63	Simulation modelling of a patient surge in an emergency department under disaster conditions. <i>Croatian Operational Research Review</i> , 2015, 6, 429-443.	0.6	6
64	Are Emergency Departments in Istanbul Ready for the Earthquakes? Past Experience and Suggestions for Future Preparedness from Employeesâ€™ Viewpoint and the Literature. <i>Journal of Homeland Security and Emergency Management</i> , 2015, 12, 967-983.	0.2	6
65	A discrete event simulation model of an emergency department network for earthquake conditions. , 2015, , .		6
66	A NOVEL RISK EVALUATION APPROACH FOR FREQUENTLY ENCOUNTERED RISKS IN SHIP ENGINE ROOMS. <i>Brodogradnja</i> , 2020, 71, 31-54.	0.6	6
67	A BAYESIAN NETWORK-BASED APPROACH FOR FAILURE ANALYSIS IN WEAPON INDUSTRY. <i>Journal of Thermal Engineering</i> , 0, , 222-229.	0.8	5
68	A Forecasting Model for Patient Arrivals of an Emergency Department in Healthcare Management Systems. <i>Advances in Healthcare Information Systems and Administration Book Series</i> , 2019, , 266-284.	0.2	5
69	Fineâ€“Kinney-Based Occupational Risk Assessment Using Single-Valued Neutrosophic TOPSIS. <i>Studies in Fuzziness and Soft Computing</i> , 2021, , 111-133.	0.6	5
70	A Multi-attribute Decision-Making to Sustainable Construction Material Selection: A Bayesian BWM-SAW Hybrid Model. , 2022, , 67-78.		4
71	A Fuzzy Decision-Making Model for the Key Performance Indicators of Hospital Service Quality Evaluation. <i>Advances in Healthcare Information Systems and Administration Book Series</i> , 2020, , 42-62.	0.2	3
72	NARX Neural Networks Model for Forecasting Daily Patient Arrivals in the Emergency Department. <i>Advances in Healthcare Information Systems and Administration Book Series</i> , 2020, , 1-18.	0.2	3

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73	Deep Learning for Prediction of Bus Arrival Time in Public Transportation. , 2020, , 126-135.		3
74	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
75	Development and application of a novel hybrid occupational risk assessment model. International Journal of Reliability and Safety, 2020, 14, 116.	0.2	2
76	A Risk Assessment Approach Using Both Stochastic Data and Subjective Judgments. Advances in Intelligent Systems and Computing, 2020, , 1104-1111.	0.5	1
77	Fineâ€“Kinney-Based Occupational Risk Assessment Using Interval Type-2 Fuzzy TOPSIS. Studies in Fuzziness and Soft Computing, 2021, , 31-44.	0.6	1
78	PREPAREDNESS OF AN EMERGENCY DEPARTMENT NETWORK FOR A MAJOR EARTHQUAKE: A DISCRETE EVENT SIMULATION-BASED DESIGN OF EXPERIMENTS STUDY. , 2016, , .		1
79	Hospital Preparedness Assessment against COVID-19 Pandemic: A Case Study in Turkish Tertiary Healthcare Services. SSRN Electronic Journal, 0, , .	0.4	1
80	Fineâ€“Kinney-Based Occupational Risk Assessment Using Interval-Valued Pythagorean Fuzzy VIKOR. Studies in Fuzziness and Soft Computing, 2021, , 45-68.	0.6	1
81	Metaheuristic Approaches Integrated with ANN in Forecasting Daily Emergency Department Visits. Mathematical Problems in Engineering, 2021, 2021, 1-14.	0.6	1
82	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
83	An Efficiency Evaluation Model for Academic Faculties of a Leading University by Data Envelopment Analysis. Å°Å½letme AraÅ½tÄ±rmalarÄ± Dergisi, 2017, 3, 60-71.	0.3	0
84	Development and application of a novel hybrid occupational risk assessment model. International Journal of Reliability and Safety, 2020, 14, 116.	0.2	0
85	Fineâ€“Kinney-Based Occupational Risk Assessment Using Hexagonal Fuzzy MULTIMOORA. Studies in Fuzziness and Soft Computing, 2021, , 91-110.	0.6	0