

Muhammet GÃ¼l

List of Publications by Year in descending order

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Version: 2024-02-01

85
papers

3,309
citations

147801
31
h-index

161849
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.	7.2	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.	7.1	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.	3.3	143
4	A comparative outline for quantifying risk ratings in occupational health and safety risk assessment. Journal of Cleaner Production, 2018, 196, 653-664.	9.3	143
5	A comprehensive review of emergency department simulation applications for normal and disaster conditions. Computers and Industrial Engineering, 2015, 83, 327-344.	6.3	136
6	Pythagorean fuzzy VIKOR-based approach for safety risk assessment in mine industry. Journal of Safety Research, 2019, 69, 135-153.	3.6	128
7	Hospital service quality evaluation: an integrated model based on Pythagorean fuzzy AHP and fuzzy TOPSIS. Soft Computing, 2020, 24, 3237-3255.	3.6	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.	3.4	117
9	AHP-TOPSIS integration extended with Pythagorean fuzzy sets for information security risk analysis. Complex & Intelligent Systems, 2019, 5, 113-126.	6.5	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.	3.3	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.	1.9	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.	3.4	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.	2.0	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.	9.8	74
15	An Integrated Best-Worst and Interval Type-2 Fuzzy TOPSIS Methodology for Green Supplier Selection. Mathematics, 2019, 7, 182.	2.2	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.	3.4	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.	3.6	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.	3.4	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.	3.6	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.	2.2	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.	4.4	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.	3.4	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.	0.1	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.	3.9	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.	4.0	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.	3.4	48
27	A holistic FMEA approach by fuzzy-based Bayesian network and bestâ€“worst method. <i>Complex & Intelligent Systems</i> , 2021, 7, 1547-1564.	6.5	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.	5.3	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.	7.2	41
30	An exhaustive review and analysis on applications of statistical forecasting in hospital emergency departments. <i>Health Systems</i> , 2020, 9, 263-284.	1.2	37
31	Fermatean fuzzy TOPSIS-based approach for occupational risk assessment in manufacturing. <i>Complex & Intelligent Systems</i> , 2021, 7, 2635-2653.	6.5	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.	0.8	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.	4.0	36
34	An artificial neural network-based earthquake casualty estimation model for Istanbul city. <i>Natural Hazards</i> , 2016, 84, 2163-2178.	3.4	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.	4.1	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.	7.2	29

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37	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.	6.3	28
38	A fuzzy-based model for risk assessment of routes in oil transportation. International Journal of Environmental Science and Technology, 2019, 16, 4671-4686.	3.5	28
39	Performance evaluation of Turkish Universities by an integrated Bayesian BWM-TOPSIS model. Socio-Economic Planning Sciences, 2022, 80, 101173.	5.0	28
40	Hospital Preparedness Assessment against COVID-19 Pandemic: A Case Study in Turkish Tertiary Healthcare Services. Mathematical Problems in Engineering, 2021, 2021, 1-18.	1.1	27
41	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.	6.3	27
42	A multi-method patient arrival forecasting outline for hospital emergency departments. International Journal of Healthcare Management, 2020, 13, 283-295.	2.0	24
43	Emergency department network under disaster conditions: The case of possible major Istanbul earthquake. Journal of the Operational Research Society, 2020, 71, 733-747.	3.4	24
44	Extension of FEMA and SMUG models with Bayesian best-worst method for disaster risk reduction. International Journal of Disaster Risk Reduction, 2021, 66, 102631.	3.9	21
45	Failure prioritization and control using the neutrosophic best and worst method. Granular Computing, 2021, 6, 435-449.	8.0	20
46	Yapay sinir ağıları kullanılarak acil servis hasta kalitesinin tahmini. Journal of Aeronautics and Space Technologies (Havacılık Ve Uzay Teknolojileri Dergisi), 2015, 8, .	0.2	19
47	Hospital Location Selection: A Systematic Literature Review on Methodologies and Applications. Mathematical Problems in Engineering, 2021, 2021, 1-14.	1.1	17
48	Failure modes and effects analysis based on neutrosophic analytic hierarchy process: method and application. Soft Computing, 2021, 25, 11035-11052.	3.6	17
49	A fuzzy hybrid decision-making framework for increasing the hospital disaster preparedness: The colombian case. International Journal of Disaster Risk Reduction, 2022, 72, 102831.	3.9	16
50	Control measure prioritization in Fine-Kinney-based risk assessment: a Bayesian BWM-Fuzzy VIKOR combined approach in an oil station. Environmental Science and Pollution Research, 2022, 29, 59385-59402.	5.3	16
51	A Bayesian BWM and VIKOR-based model for assessing hospital preparedness in the face of disasters. Natural Hazards, 2022, 111, 1603-1635.	3.4	14
52	Performance Comparison between ARIMAX, ANN and ARIMAX-ANN Hybridization in Sales Forecasting for Furniture Industry. Drvna Industrija, 2018, 69, 357-370.	0.6	12
53	Emergency department ergonomic design evaluation: A case study using fuzzy DEMATEL-focused two-stage methodology. Health Policy and Technology, 2019, 8, 365-376.	2.5	12
54	Evaluating occupational health and safety service quality by SERVQUAL: a field survey study. Total Quality Management and Business Excellence, 2020, 31, 524-541.	3.8	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.	5.0	12
56	TOPSIS-Sort Temelli Nicel Bir Mesleki Risk Değerlendirme Metodolojisi ve Alınan Ekstraksiyon Endüstrisinde Uygulanması. <i>International Journal of Pure and Applied Sciences</i> , 2021, 7, 163-172.	0.5	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.	4.9	10
58	An interval type-2 fuzzy enhanced best-worst method for the evaluation of ship diesel generator failures. <i>Engineering Failure Analysis</i> , 2022, 138, 106428.	4.0	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.	0.6	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, .	2.0	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.	3.9	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.	2.3	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.	0.4	6
64	Are Emergency Departments in Istanbul Ready for the Earthquakes? Past Experience and Suggestions for Future Preparedness from Employees' Viewpoint and the Literature. <i>Journal of Homeland Security and Emergency Management</i> , 2015, 12, 967-983.	0.5	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.	1.9	6
67	A BAYESIAN NETWORK-BASED APPROACH FOR FAILURE ANALYSIS IN WEAPON INDUSTRY. <i>Journal of Thermal Engineering</i> , 0, , 222-229.	1.6	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	Fine-Kinney-Based Occupational Risk Assessment Using Single-Valued Neutrosophic TOPSIS. <i>Studies in Fuzziness and Soft Computing</i> , 2021, , 111-133.	0.8	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.	0.8	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.	0.6	1
77	Fineâ€“Kinney-Based Occupational Risk Assessment Using Interval Type-2 Fuzzy TOPSIS. Studies in Fuzziness and Soft Computing, 2021, , 31-44.	0.8	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.	0.8	1
81	Metaheuristic Approaches Integrated with ANN in Forecasting Daily Emergency Department Visits. Mathematical Problems in Engineering, 2021, 2021, 1-14.	1.1	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 AraÅ½tırmalarÅ± 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.	0.8	0