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Education Information

Doctorate, Yildiz Technical University, Graduate School Of Natural And Applied Sciences, Endüstri Mühendisliği, Turkey
2011 - 2015

Postgraduate, Selcuk University, Institute Of Science, Endüstri Mühendisliği, Turkey 2008 - 2011

Undergraduate, Selcuk University, Faculty Of Engineering-Architecture, Department of Industrial Engineering, Turkey
2004 - 2008

Research Areas

Industrial Engineering, Decision Theory, Supply Chain and Logistics Management

Academic Titles / Tasks

Associate Professor, Istanbul University, School of Transportation and Logistics, Department of Transportation and Logistics, 2020 - Continues

Associate Professor, Munzur University, Faculty Of Engineering, Department Of Industrial Engineering, 2018 - 2020

Assistant Professor, Munzur University, Faculty Of Engineering, Department Of Industrial Engineering, 2016 - 2018

Research Assistant, Munzur University, Faculty Of Engineering, Department Of Industrial Engineering, 2009 - 2016

Research Assistant, Yildiz Technical University, Faculty Of Mechanical Engineering, Department Of Industry Engineering, 2012 - 2015

Academic and Administrative Experience

Fakülte Yönetim Kurulu Üyesi, Istanbul University, School Of Transportation And Logistics, 2023 - Continues

Vice Dean, Istanbul University, School Of Transportation And Logistics, 2023 - Continues

Head of Department, Munzur University, Institute Of Science, Engineering Management(Interdisciplinary), 2019 - 2020

Head of Department, Munzur University, Faculty Of Engineering, Department Of Industrial Engineering, 2019 - 2020

Assistant Director of the Institute, Munzur University, Institute Of Science, 2016 - 2019

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Analyzing the Shelter Site Selection Criteria for Disaster Preparedness Using Best-Worst Method under Interval Type-2 Fuzzy Sets**
ÇELİK E.
Sustainability (Switzerland), vol.16, no.5, 2024 (SCI-Expanded)
- II. **How Will Autonomous Vehicles Decide in Case of an Accident? An Interval Type-2 Fuzzy Best-Worst Method for Weighting the Criteria from Moral Values Point of View**
ALTAY B. C., BOZTAŞ A. E., OKUMUŞ A., GÜL M., ÇELİK E.
Sustainability (Switzerland), vol.15, no.11, 2023 (SCI-Expanded)
- III. **An integrated interval type-2 fuzzy BWM-MARCOS model for location selection of e-scooter sharing stations: The case of a university campus**
ALTAY B. C., ÇELİK E., OKUMUŞ A., BALIN A., GÜL M.
Engineering Applications of Artificial Intelligence, vol.122, 2023 (SCI-Expanded)
- IV. **A comparative analysis of meta-heuristic methods on disassembly line balancing problem with stochastic time**
Mete S., Serin F., Cil Z. A., Celik E., ÖZCEYLAN E.
ANNALS OF OPERATIONS RESEARCH, vol.321, no.1-2, pp.371-408, 2023 (SCI-Expanded)
- V. **Assessment of human error contribution to container loss risk under fault tree analysis and interval type-2 fuzzy logic-based SLIM approach**
Erdem P., Akyüz E., AYDIN M., ÇELİK E., Arslan Ö.
Proceedings of the Institution of Mechanical Engineers Part M: Journal of Engineering for the Maritime Environment, 2023 (SCI-Expanded)
- VI. **Numerical risk analysis of gas freeing process in oil/chemical tanker ships**
Elidolu G., Uflaz E., AYDIN M., ÇELİK E., Akyüz E., Arslan Ö.
Ocean Engineering, vol.266, 2022 (SCI-Expanded)
- VII. **A quantitative effectiveness analysis to improve the safety management system (SMS) implementation on-board ship**
Uflaz E., Akyüz E., Arslan Ö., ÇELİK E.
SAFETY SCIENCE, vol.156, 2022 (SCI-Expanded)
- VIII. **Evaluation of critical problems of heavy fuel oil separators on ships by best-worst method**
Başhan V., Demirel H., ÇELİK E.
Proceedings of the Institution of Mechanical Engineers Part M: Journal of Engineering for the Maritime Environment, vol.236, no.4, pp.868-876, 2022 (SCI-Expanded)
- IX. **How Covid-19 pandemic and partial lockdown decisions affect air quality of a city? The case of Istanbul, Turkey**
ÇELİK E., Gul M.
Environment, Development and Sustainability, vol.24, no.2, pp.1616-1654, 2022 (SCI-Expanded)
- X. **A fuzzy best-worst method (BWM) to assess the potential environmental impacts of the process of ship recycling**
Söner Ö., Celik E., Akyüz E.
MARITIME POLICY & MANAGEMENT, vol.49, pp.396-409, 2022 (SSCI)
- XI. **Green supplier selection for textile industry: a case study using BWM-TODIM integration under interval type-2 fuzzy sets**
ÇELİK E., Yucesan M., Gul M.
Environmental Science and Pollution Research, vol.28, no.45, pp.64793-64817, 2021 (SCI-Expanded)
- XII. **Hazard identification, risk assessment and control for dam construction safety using an integrated BWM and MARCOS approach under interval type-2 fuzzy sets environment**
ÇELİK E., Gul M.
Automation in Construction, vol.127, 2021 (SCI-Expanded)
- XIII. **Analyzing the service quality priorities in cargo transportation before and during the Covid-19**

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Transport Policy, vol.108, pp.34-46, 2021 (SSCI)

- XIV. **A holistic FMEA approach by fuzzy-based Bayesian network and best-worst method**
Yucesan M., GÜL M., Celik E.
Complex and Intelligent Systems, vol.7, no.3, pp.1547-1564, 2021 (SCI-Expanded)
- XV. **Forecasting daily natural gas consumption with regression, time series and machine learning based methods**
Yucesan M., Pekel E., Çelik E., Gul M., Serin F.
Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2021 (SCI-Expanded)
- XVI. **Metaheuristic Approaches Integrated with ANN in Forecasting Daily Emergency Department Visits**
Pekel E., Gul M., ÇELİK E., Yousefi S.
Mathematical Problems in Engineering, vol.2021, 2021 (SCI-Expanded)
- XVII. **Preface**
Gul M., Mete S., Serin F., ÇELİK E.
Studies in Fuzziness and Soft Computing, vol.398, 2021 (SCI-Expanded)
- XVIII. **A manufacturing failure mode and effect analysis based on fuzzy and probabilistic risk analysis**
Gul M., Yucesan M., ÇELİK E.
Applied Soft Computing Journal, vol.96, 2020 (SCI-Expanded)
- XIX. **EVALUATION OF THE POTENTIAL HAZARDS OF SHIP-GENERATED WASTE IN MARITIME INDUSTRY USING A TYPE-2 FUZZY ANALYTICAL HIERARCHY PROCESS**
ÇELİK E., Söner Ö., Akyüz E., Arslan Ö. F.
INTERNATIONAL JOURNAL OF MARITIME ENGINEERING, pp.311-317, 2020 (SCI-Expanded)
- XX. **An integrated approach of best-worst method (bwm) and triangular fuzzy sets for evaluating driver behavior factors related to road safety**
Moslem S., Gul M., Farooq D., Celik E., Ghorbanzadeh O., Blaschke T.
Mathematics, vol.8, no.3, 2020 (SCI-Expanded)
- XXI. **An efficient algorithm for U-type assembly line re-balancing problem with stochastic task times**
Serin F., Mete S., Çelik E.
Assembly Automation, vol.39, no.4, pp.581-595, 2019 (SCI-Expanded)
- XXII. **ANN and ANFIS Approaches to Calculate the Heating and Cooling Degree Day Values: The Case of Provinces in Turkey**
Işık E., İnallı M., Celik E.
Arabian Journal for Science and Engineering, vol.44, no.9, pp.7581-7597, 2019 (SCI-Expanded)
- XXIII. **Supply-driven rebalancing of disassembly lines: A novel mathematical model approach**
Mete S., Çil Z. A., Celik E., Ozceylan E.
Journal of Cleaner Production, vol.213, pp.1157-1164, 2019 (SCI-Expanded)
- XXIV. **An integrated best-worst and interval type-2 fuzzy TOPSIS methodology for green supplier selection**
Yucesan M., Mete S., Serin F., Celik E., Gul M.
Mathematics, vol.7, no.2, 2019 (SCI-Expanded)
- XXV. **An interval type-2 fuzzy QUALIFLEX approach to measure performance effectiveness of ballast water treatment (BWT) system on-board ship**
Demirel H., Akyüz E., Celik E., ALARÇİN F.
Ships and Offshore Structures, vol.14, no.7, pp.675-683, 2019 (SCI-Expanded)
- XXVI. **Performance comparison between ARIMAX, ANN and ARIMAX-ANN hybridization in sales forecasting for furniture industry Usporedba performansi modela ARIMAX, ANN i hibridizacije ARIMAX-ANN u predviđanju prodaje za industriju namještaja**
Yucesan M., Gul M., Celik E.
Drvna Industrija, vol.69, no.4, pp.357-370, 2018 (SCI-Expanded)
- XXVII. **A quantitative risk analysis by using interval type-2 fuzzy FMEA approach: the case of oil spill**
Akyüz E., Celik E.

- Maritime Policy and Management, vol.45, no.8, pp.979-994, 2018 (SSCI)
- XXVIII. **Fuzzy rule-based Fine–Kinney risk assessment approach for rail transportation systems**
Gul M., Celik E.
Human and Ecological Risk Assessment, vol.24, no.7, pp.1786-1812, 2018 (SCI-Expanded)
- XXIX. **An interval type-2 fuzzy AHP and TOPSIS methods for decision-making problems in maritime transportation engineering: The case of ship loader**
Celik E., Akyüz E.
Ocean Engineering, vol.155, pp.371-381, 2018 (SCI-Expanded)
- XXX. **The role of human factor in maritime environment risk assessment: A practical application on Ballast Water Treatment (BWT) system in ship**
Akyuz E., Celik E.
Human and Ecological Risk Assessment, vol.24, no.3, pp.653-666, 2018 (SCI-Expanded)
- XXXI. **A practical application of human reliability assessment for operating procedures of the emergency fire pump at ship**
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- XXXII. **A fuzzy dematel model proposal for the cause and effect of the fault occurring in the auxiliary systems of the ships' main engine**
BALIN A., Demirel H., CELIK E., ALARÇIN F.
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- XXXIII. **An assessment approach for non-governmental organizations in humanitarian relief logistics and an application in Turkey**
Celik E., TAŞKIN GÜMÜŞ A.
Technological and Economic Development of Economy, vol.24, no.1, pp.1-26, 2018 (SSCI)
- XXXIV. **Application of artificial neural networks using bayesian training rule in sales forecasting for furniture industry Primjena umjetnih neuronskih mreža uz pomoć Bayesova pravila učenja u predviđanju prodaje za industriju namještaja**
Yucesan M., Gul M., Celik E.
Drvna Industrija, vol.68, no.3, pp.219-228, 2017 (SCI-Expanded)
- XXXV. **A hybrid risk-based approach for maritime applications: The case of ballast tank maintenance**
Gul M., Celik E., Akyuz E.
Human and Ecological Risk Assessment, vol.23, no.6, pp.1389-1403, 2017 (SCI-Expanded)
- XXXVI. **A cause and effect relationship model for location of temporary shelters in disaster operations management**
Celik E.
International Journal of Disaster Risk Reduction, vol.22, pp.257-268, 2017 (SCI-Expanded)
- XXXVII. **Assessment of occupational hazards and associated risks in fuzzy environment: A case study of a university chemical laboratory**
Ozdemir Y., Gul M., Celik E.
Human and Ecological Risk Assessment, vol.23, no.4, pp.895-924, 2017 (SCI-Expanded)
- XXXVIII. **An integral based fuzzy approach to evaluate waste materials for concrete**
Onat O., Celik E.
Smart Structures and Systems, vol.19, no.3, pp.323-333, 2017 (SCI-Expanded)
- XXXIX. **Identifying key factors of rail transit service quality: An empirical analysis for Istanbul**
Işıklı E., AYDIN N., Celik E., Gumus A. T.
Journal of Public Transportation, vol.20, no.1, pp.63-90, 2017 (SSCI)
- XL. **Application of AHP and VIKOR methods under interval type 2 fuzzy environment in maritime transportation**
Söner Ö., Celik E., Akyuz E.
Ocean Engineering, vol.129, pp.107-116, 2017 (SCI-Expanded)

- XLI. An outranking approach based on interval type-2 fuzzy sets to evaluate preparedness and response ability of non-governmental humanitarian relief organizations**
 Celik E., TAŞKIN GÜMÜŞ A.
 Computers and Industrial Engineering, vol.101, pp.21-34, 2016 (SCI-Expanded)
- XLII. A state of the art literature review of VIKOR and its fuzzy extensions on applications**
 Gul M., Celik E., AYDIN N., TAŞKIN GÜMÜŞ A., GÜNERİ A. F.
 Applied Soft Computing Journal, vol.46, pp.60-89, 2016 (SCI-Expanded)
- XLIII. A new extension of the ELECTRE method based upon interval type-2 fuzzy sets for green logistic service providers evaluation <http://compass.astm.org/download/JTE20140046.33601.pdf>**
 Celik E., Gumus A. T., Erdogan M.
 Journal of Testing and Evaluation, vol.44, no.5, pp.1813-1827, 2016 (SCI-Expanded)
- XLIV. A modified human reliability analysis for cargo operation in single point mooring (SPM) off-shore units**
 Akyuz E., Celik E.
 Applied Ocean Research, vol.58, pp.11-20, 2016 (SCI-Expanded)
- XLV. An extended fuzzy TOPSIS–GRA method based on different separation measures for green logistics service provider selection**
 Celik E., ERDOĞAN M., GÜMÜŞ A.
 International Journal of Environmental Science and Technology, vol.13, no.5, pp.1377-1392, 2016 (SCI-Expanded)
- XLVI. Emergency department performance evaluation by an integrated simulation and interval type-2 fuzzy MCDM-based scenario analysis**
 Gul M., Celik E., Gumus A. T., GÜNERİ A. F.
 European Journal of Industrial Engineering, vol.10, no.2, pp.196-223, 2016 (SCI-Expanded)
- XLVII. Application of interval type-2 fuzzy sets DEMATEL methods in maritime transportation: The case of ship collision**
 Celik E., Akyuz E.
 Transactions of the Royal Institution of Naval Architects Part A: International Journal of Maritime Engineering, vol.158, pp.359-371, 2016 (SCI-Expanded)
- XLVIII. A fuzzy DEMATEL method to evaluate critical operational hazards during gas freeing process in crude oil tankers**
 Akyuz E., Celik E.
 Journal of Loss Prevention in the Process Industries, vol.38, pp.243-253, 2015 (SCI-Expanded)
- XLIX. A comprehensive review of multi criteria decision making approaches based on interval type-2 fuzzy sets**
 Celik E., Gul M., AYDIN N., Gumus A. T., GÜNERİ A. F.
 Knowledge-Based Systems, vol.85, pp.329-341, 2015 (SCI-Expanded)
- L. A hierarchical customer satisfaction framework for evaluating rail transit systems of Istanbul**
 AYDIN N., Celik E., Gumus A. T.
 Transportation Research Part A: Policy and Practice, vol.77, pp.61-81, 2015 (SCI-Expanded)
- LI. A multiattribute customer satisfaction evaluation approach for rail transit network: A real case study for Istanbul, Turkey**
 Celik E., AYDIN N., Gumus A. T.
 Transport Policy, vol.36, pp.283-293, 2014 (SSCI)
- LII. A trapezoidal type-2 fuzzy MCDM method to identify and evaluate critical success factors for humanitarian relief logistics management**
 Celik E., Gumus A. T., Alegoz M.
 Journal of Intelligent and Fuzzy Systems, vol.27, no.6, pp.2847-2855, 2014 (SCI-Expanded)
- LIII. A new approach for rebalancing of U-lines with stochastic task times using ant colony optimisation algorithm**
 Celik E., Kara Y., Atasagun Y.
 International Journal of Production Research, vol.52, no.24, pp.7262-7275, 2014 (SCI-Expanded)

- LIV. **A combined fuzzy-AHP and fuzzy-GRA methodology for hydrogen energy storage method selection in Turkey**
Gumus A. T., Yesim Yayla A., Çelik E., Yildiz A.
Energies, vol.6, no.6, pp.3017-3032, 2013 (SCI-Expanded)
- LV. **An integrated novel interval type-2 fuzzy MCDM method to improve customer satisfaction in public transportation for Istanbul**
Celik E., BİLİŞİK Ö. N., Erdogan M., Gumus A. T., BARAÇLI H.
Transportation Research Part E: Logistics and Transportation Review, vol.58, pp.28-51, 2013 (SCI-Expanded)

Articles Published in Other Journals

- I. **Evaluation of service quality in the airline industry: The case of Turkey and Azerbaijan**
Özden A. T., Çelik E., Gül M.
Pazarlama ve Pazarlama Araştırmaları Dergisi, vol.16, no.2, pp.551-584, 2023 (Peer-Reviewed Journal)
- II. **An extended human reliability analysing under fuzzy logic environment for ship navigation**
Uflaz E., Çelik E., Aydın M., Erdem P., Akyüz E., Arslan Ö., Kurt R. E., Turan O.
Australian Journal of Maritime and Ocean Affairs, vol.15, no.2, pp.189-209, 2023 (Scopus)
- III. **Predicting the time of bus arrival for public transportation by time series models**
Mete S., Çelik E., Gül M.
Journal of Transportation and Logistics, vol.7, no.2, pp.541-555, 2023 (Peer-Reviewed Journal)
- IV. **An exhaustive review and analysis on applications of statistical forecasting in hospital emergency departments**
Gul M., Celik E.
Health Systems, vol.9, no.4, pp.263-284, 2020 (ESCI)
- V. **A multi-method patient arrival forecasting outline for hospital emergency departments**
Yucesan M., Gul M., ÇELİK E.
International Journal of Healthcare Management, vol.13, no.S1, pp.283-295, 2020 (ESCI)
- VI. **Stochastic multi-criteria decision-making: an overview to methods and applications**
ÇELİK E., Gul M., Yucesan M., Mete S.
Beni-Suef University Journal of Basic and Applied Sciences, vol.8, no.1, 2019 (ESCI)
- VII. **A fuzzy logic based PROMETHEE method for material selection problems**
GÜL M., ÇELİK E., TAŞKIN GÜMÜŞ A., GÜNERİ A. F.
BENI-SUEF UNIVERSITY JOURNAL OF BASIC AND APPLIED SCIENCES, vol.7, no.1, pp.68-79, 2018 (Peer-Reviewed Journal)
- VIII. **ANFIS kullanarak Tunceli ili için global güneş radyasyonu tahmini**
GÜL M., ÇELİK E.
Dicle Üniversitesi Mühendislik Fakültesi (DUMF) Mühendislik Dergisi, vol.8, no.4, pp.891-899, 2017 (Peer-Reviewed Journal)

Books & Book Chapters

- I. **Fine-Kinney-Based Fuzzy Multi-criteria Occupational Risk Assessment**
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- II. **Deep Learning for Prediction of Bus Arrival Time in Public Transportation**
SERİN F., METE S., GÜL M., ÇELİK E.
in: Logistics 4.0: Digital Transformation of Supply Chain Management, Turan Paksoy, Cigdem Gonul Kochan, Sadia Samar Ali, Editor, CRC Press, pp.126-135, 2021
- III. **Deep Learning for Prediction of Bus Arrival Time in Public Transportation**

Serin F., Mete S., Gül M., Çelik E.

in: Logistics 4.0 Digital Transformation of Supply Chain Management, Turan Paksoy, Cigdem Gonul Kochan, Sadia Samar Ali, Editor, Routledge, London/New York, London, pp.1-10, 2021

IV. A modified risk prioritization approach using best-worst method

GÜL M., YÜCESAN M., ÇELİK E.

in: Multi-Criteria Decision Analysis for Risk Assessment and Management, Jingzheng Ren, Editor, Springer, Cham, pp.53-74, 2021

V. Computational Intelligence and Soft Computing Applications in Healthcare Management Science

Gül M. (Editor), Çelik E. (Editor), Mete S. (Editor), Serin F. (Editor)

IGI Global, Tunceli, 2020

VI. NARX Neural Networks Model for Forecasting Daily Patient Arrivals in the Emergency Department

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Refereed Congress / Symposium Publications in Proceedings

I. A risk assessment approach using both stochastic data and subjective judgments

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II. A Pythagorean fuzzy PROMETHEE-based decision model and its application to assessing development levels of regions in Turkey

GÜL M., SERİN F., METE S., ÇELİK E., ÇİL Z. A.

International Design and Engineering Symposium (IDES'19), İzmir, Turkey, 10 - 12 October 2019, pp.363-368

III. Deprem Durumu Acil Sağlık Yönetimi İçin Optimizasyon Ve Simülasyon Tabanlı Bir Model Önerisi

KANGA Ö., AYDIN N., GÜL M., ÇELİK E., GÜNAL M. M., TAŞKIN GÜMÜŞ A., GÜNERİ A. F.

39. Yöneylem Araştırması / Endüstri Mühendisliği Kongresi, Ankara, Turkey, 12 - 14 June 2019, pp.77

IV. Mapping between relational database management systems and graph database for public transportation network

SERİN F., METE S., GÜL M., ÇELİK E.

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V. A simulation model to improve production processes in an implant manufacturing plant

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VI. A genetic algorithm approach for rebalancing of assembly line problem

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VII. A combined multi criteria decision making method for ERP project manager selection

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VIII. Evaluating service quality criteria in hospital healthcare management and delivery using a causal and effect decision making model

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IX. Sales forecasting of white goods by SARIMA-ANN hybrid approach

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- X. **A ranking model for the cities of TRB1 region in terms of regional development by using TOPSIS methodology**
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- XI. **Logistic performances evaluation of the cities of TRB1 region using a hybrid decision making approach**
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- XII. **A Review and Classification of Approaches for Dealing with TODIM and Its Applications**
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- XIII. **Bir İmplant Üretim Tesisi için Simülasyon Projesine Doğru: İşlem Sürelerinin Başlangıç Veri Analizi**
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- XIV. **İmplant İmalatı için Satış Tahmininde Yapay Sinir Ağlarının Uygulanması**
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- XV. **Multi-site and multi-method forecasting modelling of hospital emergency room patient arrivals**
GÜL M., YÜCESAN M., ÇELİK E.
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- XVI. **A unique comparative ERP consultant selection approach in SMEs under uncertainty and vagueness**
GÜNERİ A. F., GÜL M., ÇELİK E., TAŞKIN GÜMÜŞ A., BÜYÜKÖZKAN M.
2017 ICBTS International Multidiscipline Research Conference, Munich, Germany, 4 - 06 May 2017
- XVII. **Forecasting daily patient visits in an emergency department by ga-ann hybrid approach**
Pekel E., Gul M., Celik E.
14th International Symposium on Operational Research, SOR 2017, Bled, Slovenia, 27 - 29 September 2017, vol.2017-September, pp.473-478
- XVIII. **An ann and ga approach for demand forecasting and routing for cash management**
Gumus A. T., Celik E., Ömerustaoğlu F.
14th International Symposium on Operational Research, SOR 2017, Bled, Slovenia, 27 - 29 September 2017, pp.207-213
- XIX. **An intuitionistic fuzzy approach for evaluating service quality of public transportation systems**
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Uncertainty Modelling in Knowledge Engineering and Decision Making - 12th International Fuzzy Logic and Intelligent Technologies in Nuclear Science Conference, FLINS 2016, Roubaix, France, 24 - 26 August 2016, pp.936-942
- XX. **MULTI-OBJECTIVE OPTIMIZATION ON THE BASIS OF RATIO ANALYSIS FOR SANDWICH COMPOSITE MATERIAL SELECTION UNDER UNCERTAINTY**
ÖZDEMİR O., SABANCI E., ÇELİK E., GÜL M., SOYKÖK İ. F., KARAKUZU R.
15th International Materials Symposium (IMSP'2014), Denizli, Turkey, 15 - 17 October 2014
- XXI. **Passenger satisfaction evaluation for rail transit lines in Istanbul using qualiflex approach based on interval type-2 trapezoidal fuzzy numbers**
TAŞKIN GÜMÜŞ A., AYDIN N., Celik E.
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