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Education Information

Doctorate, Istanbul Technical University, Fen Bilimleri Enstitüsü, Endüstri Mühendisliği (Dr), Turkey 2018 - 2024

Postgraduate, Istanbul University, Fen Bilimleri Enstitüsü, Endüstri Mühendisliği (Yl) (Tezli), Turkey 2015 - 2017

Undergraduate, Selcuk University, Mühendislik Fakültesi, Endüstri Mühendisliği Bölümü, Turkey 2008 - 2013

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Extensions of Z-fuzzy numbers and novel multi criteria decision making models, Istanbul Technical University, Fen Bilimleri Enstitüsü, 2024

Postgraduate, Süpermarket Perakendeciliği İçin Çekingen Bulanık Mantık Esaslı İl Sıralama Modeli Önerisi, Istanbul University, Fen Bilimleri Enstitüsü, Endüstri Mühendisliği (Yl) (Tezli), 2017

Research Areas

Industrial Engineering, Multi Criteria Decision Making, Decision Support Systems

Academic Titles / Tasks

Assistant Professor, Istanbul Gelisim University, FACULTY OF ENGINEERING AND ARCHITECTURE, INDUSTRIAL ENGINEERING<, 2024 - Continues

Research Assistant, Istanbul Gelisim University, FACULTY OF ENGINEERING AND ARCHITECTURE, INDUSTRIAL ENGINEERING<, 2016 - 2024

Published journal articles indexed by SCI, SSCI, and AHCI

I. **Interval-Valued Spherical Fuzzy Z-AHP Method Based on Reliability of Judgments: Green Supplier Selection**
Tüysüz N., Kahraman C.

JOURNAL OF MULTIPLE-VALUED LOGIC AND SOFT COMPUTING, vol.42, no.5-6, pp.463-515, 2024 (SCI-Expanded)

II. **A novel decomposed Z-fuzzy TOPSIS method with functional and dysfunctional judgments: An application to transfer center location selection**
Tüysüz N., Kahraman C.
Engineering Applications of Artificial Intelligence, vol.127, 2024 (SCI-Expanded)

III. **An integrated picture fuzzy Z-AHP & TOPSIS methodology: Application to solar panel selection**
Tüysüz N., Kahraman C.
Applied Soft Computing, vol.149, 2023 (SCI-Expanded)

IV. **A Novel Z-Fuzzy AHP&EDAS Methodology and Its Application to Wind Turbine Selection**
Tüysüz N., Kahraman C.
Informatica (Netherlands), vol.34, no.4, pp.847-880, 2023 (SCI-Expanded)

V. **COVID-19 Risk Assessment of Occupations Using Interval Type 2 Fuzzy Z-AHP & TOPsIs Methodology**
Sari I. U., Tüysüz N.
Journal of Multiple-Valued Logic and Soft Computing, vol.38, no.5-6, pp.575-602, 2022 (SCI-Expanded)

VI. **A novel multi-criteria analysis model for the performance evaluation of bank regions: an application to Turkish agricultural banking**
TÜYSÜZ F., Yıldız N.
Soft Computing, vol.24, no.7, pp.5289-5311, 2020 (SCI-Expanded)

VII. **Evaluating social sustainable development factors using multi-experts Z-fuzzy AHP**
Tüysüz N., Kahraman C.
Journal of Intelligent and Fuzzy Systems, vol.39, no.5, pp.6181-6192, 2020 (SCI-Expanded)

VIII. **CODAS method using Z-fuzzy numbers**
Tuysuz N., Kahraman C.
JOURNAL OF INTELLIGENT & FUZZY SYSTEMS, vol.38, no.2, pp.1649-1662, 2020 (SCI-Expanded)

IX. **A hybrid multi-criteria decision making approach for strategic retail location investment: Application to Turkish food retailing**
Yıldız N., TÜYSÜZ F.
Socio-Economic Planning Sciences, vol.68, 2019 (SCI-Expanded)

Books & Book Chapters

I. **Multi-criteria Assessment of Sustainability for Energy Systems Under Uncertainty: Grey-Based Approach**
ÇELİKBİLEK Y., TÜYSÜZ N., TÜYSÜZ F.
in: Energy Systems Evaluation (Volume 2), Ren Jingzheng, Editor, Springer, pp.103-128, 2021

Refereed Congress / Symposium Publications in Proceedings

I. **Novel Decomposed Spherical Fuzzy Sets and Its TOPSIS Extension**
TÜYSÜZ N., Kahraman C.
International Conference on Intelligent and Fuzzy Systems, INFUS 2024, Çanakkale, Turkey, 16 - 18 July 2024, vol.1088 LNNS, pp.658-665

II. **Picture Fuzzy Z-AHP: Application to Panel Selection of Solar Energy**
TÜYSÜZ N., KAHRAMAN C.
International Conference on Intelligent and Fuzzy Systems, İstanbul, Turkey, 22 - 24 August 2023, pp.337-345

III. **Evaluation of social sustainable development factors using Buckley's fuzzy AHP based on Z-numbers**
Yildiz N., Kahraman C.
International Conference on Intelligent and Fuzzy Systems, INFUS 2019, İstanbul, Turkey, 23 - 25 July 2019, vol.1029, pp.770-778

IV. **A Multi-Objective Decision Model for Evaluating Energy Sources**
YILDIZ N., TÜYSÜZ F.
International Conference on Applied Analysis and Mathematical Modelling (ICAAMM2018), İstanbul, Turkey, 20 - 24 June 2018

V. **A Multi-Criteria Decision Model for the Performance Evaluation of Financial Organizations: A Case of Turkey**
YILDIZ N., TÜYSÜZ F.
International Conference on Applied Analysis and Mathematical Modelling (ICAAMM2018), İstanbul, Turkey, 20 - 24 June 2018

VI. **Studies on Renewable Energy for Turkey: A Review**
YILDIZ N., TÜYSÜZ F.
4th International Conference on Pure and Applied Sciences: Renewable Energy, İstanbul, Turkey, 23 - 25 November 2017

VII. **Simulation Based Multi-Criteria Analysis of the Factors Used for the Evaluation of Retail Location Selection**
YILDIZ N., TÜYSÜZ F.
THE 5TH INTERNATIONAL FUZZY SYSTEMS SYMPOSIUM, Ankara, Turkey, 14 - 15 October 2017

VIII. **A Simulation Based Multi-Crıterİa Approach For The Analysis Of Sustainability Factors in Supply Chains**
TÜYSÜZ F., YILDIZ N.
The 15th International Logistics and Supply Chain Congress, İstanbul, Turkey, 19 - 20 October 2017

IX. **A multi criteria decision model for solid waste management: A case of Turkey**
YILDIZ N., TÜYSÜZ F.
International Congress of the New Approaches and Technologies for Sustainable Development, 21 - 24 September 2017

X. **A Multi-Criteria Decision Model Proposal for the Analysis of Sustainable Development Factors**
YILDIZ N., TÜYSÜZ F.
International Congress of the New Approaches and Technologies for Sustainable Development, 21 - 24 September 2017