Assoc. Prof. Şükran ŞEKER

Personal Information

Email: sseker@yildiz.edu.tr

Web: https://avesis.yildiz.edu.tr/sseker

International Researcher IDs ORCID: 0000-0002-8726-6148 Yoksis Researcher ID: 106904

Education Information

Doctorate, Yildiz Technical University, Graduate School Of Natural And Applied Sciences, Turkey 2007 - 2013

Postgraduate, Yildiz Technical University, Graduate School Of Natural And Applied Sciences, Turkey 2005 - 2007

Undergraduate, Yildiz Technical University, Faculty Of Mechanical Engineering, Turkey 2001 - 2004

Dissertations

Doctorate, Multi-purpose design of mixed model assembly line, Yildiz Technical University, Graduate School Of Natural And Applied Sciences, 2013

Postgraduate, Vehicle routing problems and genetic algorithm approach for time window stochastic vehicle routing problem, Yildiz Technical University, Graduate School Of Natural And Applied Sciences, 2007

Research Areas

Engineering and Technology

Academic Titles / Tasks

Associate Professor, Yildiz Technical University, Faculty Of Mechanical Engineering, Department Of Industry Engineering, 2020 - Continues

Assistant Professor, Yildiz Technical University, Faculty Of Mechanical Engineering, Department Of Industry Engineering, 2018 - 2020

Research Assistant, Yildiz Technical University, Faculty Of Mechanical Engineering, Department Of Industry Engineering, 2005 - 2018

Courses

Research Methods and Scientific Ethics, Postgraduate, 2024 - 2025, 2023 - 2024, 2022 - 2023, 2021 - 2022
Production Systems, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020
Multi-Criteria Decision Making, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021
Decision Making Under Risk and Uncertainty, Postgraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022
Occupational Health and Safety, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018
- 2019

Advising Theses

Şeker Ş., Heuristic Model Proposal and Application Based on Fuzzy Logic, Doctorate, A.TURGUT(Student), Continues Şeker Ş., Analysis using multi-criteria decision-making method to prevent hazards occurring during the collection of Medical Wastes, Doctorate, B.YENİSARI(Student), Continues

Şeker Ş., A New Fuzzy Logic-Stochastic Model Approach and Application, Doctorate, Y.EMRE(Student), Continues Aydın N., Şeker Ş., MEDICINE DISTRIBUTION WITH AIR VEHICLES: AN APPLICATION, Postgraduate, B.Sadıç(Student), 2022

Şeker Ş., Customer segmentation and profitability prediction with machine learning methods in the banking sector, Postgraduate, E.ÇIRA(Student), 2022

Şeker Ş., A model proposal for the transition for recycling systems in water consumption of public areas in Bolu province, Postgraduate, F.BETÜL(Student), 2022

Şeker Ş., Quality function deployment analysis using Fermatean fuzzy numbers: An example application in the telecommunication industry, Postgraduate, Ö.CEM(Student), 2022

Şeker Ş., Predicting online educational institution sales with the help of machine learning and examining the impact of the COVID-19 pandemic, Postgraduate, M.TÜRKMEN(Student), 2021

Şeker Ş., Bankaların sermaye yeterliliği hesaplamalarında operasyonel risk ve Türkiye'deki bankaların operasyonel riske bakışı, Postgraduate, B.HAN(Student), 2019

Published journal articles indexed by SCI, SSCI, and AHCI

I. Post-earthquake debris waste management with interpretive-structural-modeling and decision-making-trial, and evaluation-laboratory under neutrosophic fuzzy sets

AYDIN N., ŞEKER Ş., Deveci M., Zaidan B. B.

Engineering Applications of Artificial Intelligence, vol.138, 2024 (SCI-Expanded)

II. Multi-Objective Optimization of Car Sharing Points Under Uncertainty for Sustainable Transportation AYDIN N., ŞEKER Ş., Deveci M.

IEEE TRANSACTIONS ON ENGINEERING MANAGEMENT, vol.71, pp.1959-1968, 2024 (SCI-Expanded)

III. Evaluation of agile attributes for low-cost carriers to achieve sustainable development using an integrated MCDM approach

SEKER Ş.

Management Decision, 2024 (SSCI)

IV. Spherical Fuzzy Present Worth Analysis Method for Emergency Hospital Investment Analysis Bolturk E., Şeker Ş.

IEEE TRANSACTIONS ON ENGINEERING MANAGEMENT, vol.70, no.8, pp.2891-2902, 2023 (SCI-Expanded)

V. A linear programming-based QFD methodology under fuzzy environment to develop sustainable policies in apparel retailing industry

AYDIN N., ŞEKER Ş., Deveci M., Ding W., Delen D.

Journal of Cleaner Production, vol.387, 2023 (SCI-Expanded)

VI. Fermatean fuzzy based Quality Function Deployment methodology for designing sustainable mobility hub center

Şeker Ş., Aydin N.

APPLIED SOFT COMPUTING JOURNAL, vol.134, pp.1-15, 2023 (SCI-Expanded)

VII. Risk assessment approach for analyzing risk factors to overcome pandemic using interval-valued qrung orthopair fuzzy decision making method

ŞEKER Ş., Bağlan F. B., AYDIN N., Deveci M., Ding W.

Applied Soft Computing, vol.132, 2023 (SCI-Expanded)

VIII. A new risk assessment framework for safety in oil and gas industry: Application of FMEA and BWM based picture fuzzy MABAC

AYDIN N., ŞEKER Ş., ŞEN C.

JOURNAL OF PETROLEUM SCIENCE AND ENGINEERING, vol.219, 2022 (SCI-Expanded)

IX. IoT based sustainable smart waste management system evaluation using MCDM model under interval-valued q-rung orthopair fuzzy environment

ŞEKER Ş.

Technology in Society, vol.71, 2022 (SSCI)

X. A Novel Risk Assessment Approach Using a Hybrid Method Based On Fine-Kinney and Extended MCDM Methods Under Interval-Valued Intuitionistic Fuzzy Environment

SEKER S

International Journal of Information Technology and Decision Making, vol.21, no.5, pp.1591-1616, 2022 (SCI-Expanded)

XI. A Pythagorean cubic fuzzy methodology based on TOPSIS and TODIM methods and its application to software selection problem

ŞEKER Ş., Kahraman C.

SOFT COMPUTING, vol.26, no.5, pp.2437-2450, 2022 (SCI-Expanded)

XII. Planning Location of Mobility Hub for Sustainable Urban Mobility

Aydın N., Şeker Ş., Özkan B.

SUSTAINABLE CITIES AND SOCIETY, no.81, pp.1-14, 2022 (SCI-Expanded)

XIII. Assessment of hydrogen production methods via integrated MCDM approach under uncertainty ŞEKER Ş., AYDIN N.

INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.47, no.5, pp.3171-3184, 2022 (SCI-Expanded)

XIV. A new model for risk assessment in glass manufacturing using Risk Matrix based IVIF-TOPSIS method

Şeker Ş.

Journal Of Intelligent & Fuzzy Systems, vol.42, pp.541-550, 2022 (SCI-Expanded)

XV. Socio-economic evaluation model for sustainable solar PV panels using a novel integrated MCDM methodology: A case in Turkey

Şeker Ş., Kahraman C.

Socio-Economic Planning Sciences, vol.77, 2021 (SCI-Expanded)

XVI. Determining the location of isolation hospitals for COVID-19 via Delphi-based MCDM method AYDIN N., \S EKER \S .

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XVII. Integration of Fuzzy AHP with Other Fuzzy Multicriteria Methods: A State of the Art Survey Kahraman C., Çevik Onar S., Öztayşi B., Şeker Ş., Karaşan A.

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Journal of Enterprise Information Management, vol.33, pp.1233-1256, 2020 (SSCI)

XIX. Hydrogen production facility location selection for Black Sea using entropy based TOPSIS under IVPF environment

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International Journal of Hydrogen Energy, vol.45, pp.15855-15868, 2020 (SCI-Expanded)

XX. Sustainable Public Transportation System Evaluation: A Novel Two-Stage Hybrid Method Based on IVIF-AHP and CODAS

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INTERNATIONAL JOURNAL OF FUZZY SYSTEMS, vol.22, pp.257-272, 2020 (SCI-Expanded)

XXI. A novel interval-valued intuitionistic trapezoidal fuzzy combinative distance-based assessment (CODAS) method

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SOFT COMPUTING, vol.24, pp.2287-2300, 2020 (SCI-Expanded)

XXII. A novel integrated MCDM approach: An application for selection of the optimal Fiber optical access network strategy

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XXIII. Passenger Satisfaction Evaluation of Public Transportation in Istanbul by Using Fuzzy Quality Function Deployment Methodology

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ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING, vol.44, pp.2811-2824, 2019 (SCI-Expanded)

XXIV. Water treatment technology selection using hesitant Pythagorean fuzzy hierachical decision making Öztayşi B., Onar S. C., Şeker Ş., Kahraman C.

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XXV. Application of Fuzzy DEMATEL Method for Analyzing Occupational Risks on Construction Sites Şeker Ş., Zavadskas E. K.

SUSTAINABILITY, vol.9, 2017 (SCI-Expanded)

XXVI. A combined DEMATEL and grey system theory approach for analyzing occupational risks: A case study in Turkish shipbuilding industry

Şeker Ş., Recal F., Basligil H.

HUMAN AND ECOLOGICAL RISK ASSESSMENT, vol.23, pp.1340-1372, 2017 (SCI-Expanded)

XXVII. A Weighted Multiobjective Optimization Method for Mixed-Model Assembly Line Problem Şeker Ş., Ozgurler M., Tanyas M.

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XXVIII. A fuzzy ANP approach to shipyard location selection

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I. Analyzing occupational risks of pharmaceutical industry under uncertainty using a Bow-Tie analysis Seker S.

An International Journal of Optimization and Control: Theories Applications (IJOCTA), vol.9, no.2, 2019 (Peer-Reviewed Journal)

II. Analysis of the Turkish Consumer Electronics Firm using SWOT-AHP Method

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Books & Book Chapters

I. Future of Digital Transformation

HAKTANIR AKTAŞ E., KAHRAMAN C., ŞEKER Ş., DOĞAN O.

in: Intelligent Systems in Digital Transformation, Kahraman Cengiz, Haktanır Elif, Editor, Springer, pp.611-638, 2022

II. Fuzzy Quality Function Deployment Method for Smart Phone Product Design

Şeker Ş.

in: Customer Oriented Product Design, Cengiz Kahraman, Selçuk Cebi, Editor, Springer, London/Berlin, Aarau, pp.57-71, 2020

III. Assessing Customer Preferences on a New Design of Refrigerator Using Conjoint Analysis Aydın N., Şeker Ş.

in: Customer Oriented Product Design. Studies in Systems, Decision and Control, Kahraman C., Cebi S, Editor,

Springer, London/Berlin, Aarau, pp.417-428, 2020

IV. BATI ÜLKELERİNDE RİSK VE KRİZ YÖNETİMİ ÖRNEKLERİ

Seker S.

in: AFETLERDE RİSK VE KRİZ YÖNETİMİ, Selcuk Cebi, Editor, Atatürk Üniversitesi, Erzurum, pp.1-21, 2017

Refereed Congress / Symposium Publications in Proceedings

I. Şubat 2023 Depremlerinin Bölgede Oluşturduğu Etkiler ve Yapay Zeka ile Afet Yönetim Planlaması Doğan U., Yüzer N., Acar U., Akbaba M. F., Akbulut M. T., Akgün C., Akın O., Akkaya H. C., Akpınar B., Aktaş Z., et al. Türkiye Ulusal Jeodezi Komisyonu (TUJK) XXII. Sempozyumu 2023, Trabzon, Turkey, 29 November - 01 December 2023, pp.5-6

II. Prediction of the Solar Radiation by using Machine Learning Algorithms

Yazıcı K., Geçici E., Şeker Ş.

3rd International Symposium of Scientific Research and Innovative Studies, Balıkesir, Turkey, 15 - 18 March 2023, pp.258-268

III. Evaluation Model for Supply Chain Agility in a Fuel Oil Supply Company

ŞEKER Ş.

4th International Conference on Intelligent and Fuzzy Systems (INFUS), Bornova, Turkey, 19 - 21 July 2022, vol.505, pp.199-207

IV. HAVA ARAÇLARI İLE İLAÇ DAĞITIMI: BİR UYGULAMA

Sadıç B., Aydın N., Şeker Ş.

8th International Congress on Engineering, Architecture and Design, İstanbul, Turkey, 6 - 07 December 2021, pp.415-424

V. BOLU İLİ KAMU ALANLARININ SU TÜKETİMLERİNDE GERİ DÖNÜŞÜM SİSTEMLERİNE GEÇİŞ SÜRECİ İÇİN BİR MODEL ÖNERİSİ

BAĞLAN F. B., ŞEKER Ş., AYDIN N.

8th International Congress on Engineering, Architecture and Design, İstanbul, Turkey, 06 December 2021

VI. Risk Matrix Technique Based Fuzzy MCDM Risk Assessment Method and Application in Glass Industry

Şeker Ş.

International Conference on Intelligent and Fuzzy Systems, INFUS 2020, İstanbul, Turkey, 21 - 23 July 2020, pp.1336-1344

VII. Site Selection for Solar Power Plants UsingIntegrated Two-stage Hybrid Method based onIntuitionistic Fuzzy AHP COPRAS approach

ŞEKER Ş.

INFUS: International Conference on Intelligent and Fuzzy Systems, 23 - 25 July 2019

VIII. Fuzzy AHP-QFD methodology and its application to Retail Chain

SEKER Ş.

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IX. Application of Fuzzy Based VIKOR Approach for Multi Criteria Decision Making (MCDM): A Case Study for Air Traffic Control (ATC) Simulation Software Selection

SEKER S

4TH INTERNATIONAL CONFERENCE ON ADVANCES IN MECHANICAL ENGINEERING, 19 - 21 December 2018

X. AN OCCUPATIONAL RISK ASSESMENT METHOD FOR FIBEROPTIC CABLE INSTALLATION SEKER S.

The 14th International Symposium on Operational Research in Slovenia Bled, SLOVENIA, 27 - 29 September 2017

XI. Multi Criteria Decision Making For Selection of Renewable Energy Sources

International Congress of the NewApproaches and Technologies forSustainable Development, 21 - 24 September 2017

XII. Multi-Criteria Decision-Making For Selection of EnvironmentallyFriendly Supplier

ŞEKER Ş.

International Congress of the NewApproaches and Technologies forSustainable Development, 21 - 24 September 2017

XIII. Interval Type 1 Fuzzy DEMATEL Methodfor Analyzing Occupational Risks in Construction Industry SEKER S.

16th International Conference on Operational Research KOI 2016, 27 - 29 September 2016

XIV. MANAGING SUPPLY CHAIN SUSTAINABILITY AND RISKS A REAL CASE STUDY IN TURKEY SEKER S

International Conference on Sustainable Development, 19 - 23 October 2016

XV. Determining the Level of Safety Awareness of Workers in Textile Industry

Elçin A. E., ŞEKER Ş., Özdemir Y., BİLEN Ö., Başlıgil H.

8 th International Conference on Occupational Safety Health, 8 - 11 May 2016

XVI. Solving The Multi Depot Vehicle Routing Problem With Assignment Algorithm

ŞEKER Ş., GÜNERİ A. F., ERMİŞ G.

13th International Research/Expert Conference, 16 - 21 October 2009

XVII. Multi Criteria Decision Making For Logistics Information System Selection

ŞEKER Ş., GÜNERİ A. F.

13th International Research/Expert Conference, TMT 2009, Hammamet, 16 - 21 October 2009

XVIII. Bulanık AHP Yöntemi Kullanılarak Tedarikçi Seçimi

ŞEKER Ş., GÜNERİ A. F., ERMAN D.

2. Ulusal Sistem Mühendisliği Kongresi, Turkey, 6 - 08 February 2008

XIX. Araç Rotalama Problemlerinin Lineer Programlama Çözülmesi

ŞEKER Ş., GÜNERİ A. F., ZOR F.

2. Ulusal Sistem Mühendisliği Kongresi, Turkey, 6 - 08 February 2008

XX. Mixed Model Assembly Line Balancing And Assembly Sequence Selection,

ŞEKER Ş., Özgürler M.

15th International Research/Expert Conference

XXI. Supplier Selection Using Fuzzy Extended Analytical Hierarchy Process

ŞEKER Ş., Güneri A. F.

5th International Logistics & Supply Chain Congress

XXII. Optimization of a real world Disassembly Problem

ŞEKER Ş., Özgürler M.

EURO|INFORMS 26TH EUROPEAN CONFERENCE ON OPERATIONAL RESEARCH

XXIII. An Optimization Method for Solving Assembly Line Balancing Problem

ŞEKER Ş., Özgürler M.

24 th European Conference on Operation Research, Euro XXIV

XXIV. Project Management Methodology Selection Using SWOT-Fuzzy AHP

Tuzkaya U. R., ŞEKER Ş.

World Congress On Engineering, 2014

XXV. Assembly System Selection Case Study

ŞEKER Ş., Özgürler M.

14th International Research/Expert Conference, Mediterranean

XXVI. A Review Of Literature On Mixed-Model Assembly Line Balancing Problem

ŞEKER Ş., Özgürler M.

7th International Logistics & Supply Chain Congress

XXVII. A Small World Optimization for Multiple Objects Optimization of Mixed-Model Assembly Line Problem with Parallel Machine

ŞEKER Ş., Özgürler M.

Uncertainty Modeling in Knowledge Engineering and Decision Making Proceedings of the 10th International FLINS Conference

XXVIII. Araç Rotalama Problemleri için Lineer Programlama

ŞEKER Ş.

2. Ulusal Sistem Mühendisliği Kongresi

XXIX. Multi Criteria Decision Making For Logistics Information System Selection

ŞEKER Ş., Özgürler M.

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XXX. Bulanık Analitik Hiyerarşi Prosesi ile Tedarikçi Seçimi

ŞEKER Ş.

2. Ulusal Sistem Mühendisliği Kongresi

Supported Projects

Aydın N., Şeker Ş., Project Supported by Higher Education Institutions, 06 February 2023 Preliminary Evaluation of the Effects of Pazarcık and Elbistan Earthquakes with Multidisciplinary Research - Hatay Province Example, 2023 - 2024 Aydın N., Tuzkaya U. R., Şeker Ş., Alp S., Geçici E., Özen H., Oğuztimur S., Edalı M., Manisa K., Ministry of Transport, Creating Sustainable and Smart Mobility Strategy and Action Plan, 2021 - 2023

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AYDIN N., Sadıç B., ŞEKER Ş., Project Supported by Higher Education Institutions, Hava Araçları ile İlaç Dağıtımı: Bir Uygulama, 2021 - 2022

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