

Res. Asst. PhD ESRA DUYGU DURMAZ

Personal Information

Office Phone: [+90 312 582 3823](tel:+903125823823)

Email: esradurmaz@gazi.edu.tr

Web: <https://avesis.gazi.edu.tr/11205>

International Researcher IDs

ScholarID: QN8lnSkAAAAJ

ORCID: 0000-0002-8882-333X

Publons / Web Of Science ResearcherID: ABH-3201-2020

ScopusID: 57195635582

Yoksis Researcher ID: jbossn183

Education Information

Doctorate, Gazi University, Fen Bilimleri Enstitüsü, Endüstri Mühendisliği Bölümü, Turkey 2016 - 2022

Postgraduate, Gazi University, Fen Bilimleri Enstitüsü, Endüstri Mühendisliği Bölümü, Turkey 2014 - 2016

Undergraduate, Dokuz Eylül University, Faculty Of Engineering, Department Of Industrial Engineering, Turkey 2006 - 2010

Research Areas

Multiobjective Optimization, Linear Programming, Heuristic Methods, Integer and Mixed Integer Programming, Facility Location and Design, Multi Criteria Decision Making

Academic Titles / Tasks

Research Assistant, Gazi University, Fen Bilimleri Enstitüsü, -, 2014 - Continues

Research Assistant, Ondokuz Mayıs University, Faculty Of Engineering, Department Of Industrial Engineering, 2013 - 2014

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **An efficient iterated local search algorithm for the corridor allocation problem**
DURMAZ E. D., ŞAHİN R.
Expert Systems with Applications, vol.212, 2023 (SCI-Expanded)
- II. **Prioritizing occupational safety risks with fuzzy FUCOM and fuzzy graph theory-matrix approach**
Bulanık FUCOM ve bulanık çizge teorisi-matris yaklaşımı ile iş güvenliği risklerinin önceliklendirilmesi
Golcuk I., Durmaz E. D., Şahin R.
Journal of the Faculty of Engineering and Architecture of Gazi University, vol.38, no.1, pp.57-69, 2023 (SCI-Expanded)
- III. **Interval type-2 fuzzy development of FUCOM and activity relationship charts along with MARCOS for facilities layout evaluation**

Gölcük İ., DURMAZ E. D., ŞAHİN R.

Applied Soft Computing, vol.128, 2022 (SCI-Expanded)

- IV. **Mathematical model proposals for multi-product double row facility layout problem with identical machines**
Durmaz E. D., Şahin R.
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.37, no.4, pp.1855-1867, 2022 (SCI-Expanded)
- V. **Mathematical formulation and hybrid meta-heuristic solution approaches for dynamic single row facility layout problem**
Şahin R., Niroomand S., Durmaz E. D., Molla-Alizadeh-Zavardehi S.
ANNALS OF OPERATIONS RESEARCH, vol.295, no.1, pp.313-336, 2020 (SCI-Expanded)
- VI. **NSGA-II and goal programming approach for the multi-objective single row facility layout problem**
Durmaz E. D., Şahin R.
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.32, no.3, pp.941-955, 2017 (SCI-Expanded)
- VII. **An improved arithmetic optimization algorithm for training feedforward neural networks under dynamic environments**
Golcuk I., ÖZSOYDAN F. B., DURMAZ E. D.
KNOWLEDGE-BASED SYSTEMS, vol.263, 1 (SCI-Expanded)

Articles Published in Other Journals

- I. **A goal programming approach for the facility layout problem with ergonomic constraint**
ADEM A., Durmaz E. D., ŞAHİN R., Dağdeviren M.
SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES-SIGMA MUHENDISLIK VE FEN BILIMLERI DERGISI, vol.41, no.5, pp.947-957, 2023 (ESCI)
- II. **A Goal Programming Approach for the Facility Layout Problem with Ergonomic Constraint**
Adem A., Durmaz E. D., Şahin R., Dağdeviren M.
Sigma Journal of Engineering and Natural Sciences, vol.1, pp.1-22, 2023 (ESCI)
- III. **Tedarikçi Seçim Probleminde Hedef Programlama ve MOORA Yöntemi: Uygulama Çalışması**
Durmaz E. D., Akagündüz E., Şahin R.
Gazi Üniversitesi İktisadi ve İdari Bilimler Fakültesi Dergisi, vol.19, no.3, pp.1021-1044, 2017 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **İŞ GÜVENLİĞİ RİSKLERİNİN DEĞERLENDİRİLMESİ İÇİN ARALIK TİP-2 BULANIK KURAL TABANLI BİR YAKLAŞIM**
GÖLCÜK İ., DURMAZ E. D., ŞAHİN R.
27. Ulusal Ergonomi Kongresi, İzmir, Turkey, 25 March 2022
- II. **Combining Fuzzy Full Consistency Method and Fuzzy Axiomatic Design for Facility Layout Selection**
Durmaz E. D., Gölcük İ., Şahin R.
International Conference on Applied Mathematics in Engineering (ICAME'21), Balıkesir, Turkey, 1 - 03 September 2021, pp.127
- III. **An Application of Multi-Objective Scheduling with Fuzzy Measure**
Durmaz E. D., Aydoğan S., Şahin R.
International Conference on Applied Mathematics in Engineering (ICAME'21), Balıkesir, Turkey, 1 - 03 September 2021, pp.134
- IV. **Çoklu Akış Hatlı İki Sıralı Tesis Düzenleme Problemi için Matematiksel Model Önerisi**

- Durmaz E. D., Şahin R.
40. Yöneylem Araştırması ve Endüstri Mühendisliği Kongresi, İstanbul, Turkey, 5 - 07 July 2021, pp.31
- V. **Integrating Fuzzy Best-Worst Method and Fuzzy TOPSIS for Evaluating Facility Layout Designs**
Durmaz E. D., Gölcük İ., Şahin R.
5th International Conference on Engineering Sciences, Ankara, Turkey, 19 September 2019, pp.104-107
- VI. **Grey Wolf Optimization Algorithm for Single Row Facility Layout Problem**
Durmaz E. D., Gölcük İ., Şahin R.
5th International Conference on Engineering Sciences, Ankara, Turkey, 19 September 2019, pp.96-100
- VII. **Analysis of Different Binarization Techniques within Whale Optimization Algorithm**
Golcuk I., Ozsoydan F. B., Durmaz E. D.
2019 Innovations in Intelligent Systems and Applications Conference, ASYU 2019, İzmir, Turkey, 31 October - 02 November 2019
- VIII. **An Integrated Approach for Evaluation of Facility Layout Alternatives**
Durmaz E. D., Şahin R.
29. European Conference on Operational Research, Valencia, Spain, 8 - 11 July 2018, pp.385
- IX. **An Iterated Local Search Approach for Permutation Flowshop Scheduling Problem**
Durmaz E. D., Şahin R.
5. International Symposium on Engineering, Artificial Intelligence and Applications, Girne, Cyprus (Kktc), 1 - 03 November 2017, pp.28
- X. **Tek Sıra Tesis Düzenleme Probleminin Meta-Sezgisel Algoritma ile Çözümü**
Durmaz E. D., Şahin R.
18. Uluslararası Ekonometri Yöneylem Araştırması ve İstatistik Sempozyumu, Trabzon, Turkey, 5 - 07 October 2017, pp.1
- XI. **Tek Sıra Tesis Düzenleme Problemi için Meta-Sezgisel Çözüm Yaklaşımları**
Durmaz E. D., Şahin R.
17. Uluslararası Ekonometri, İstatistik ve Yöneylem Araştırması Sempozyumu, Sivas, Turkey, 2 - 04 June 2016, pp.1030-1045
- XII. **Tedarikçi Seçim Probleminde Çok Kriterli Karar Verme ve Bir Uygulaması**
Akagündüz E., Durmaz E. D., Şahin R.
17. Uluslararası Ekonometri, İstatistik ve Yöneylem Araştırması Sempozyumu, Sivas, Turkey, 2 - 04 June 2016, pp.609-610
- XIII. **Dinamik Tek Sıra Tesis Düzenlemesi Problemi ve Çözüm Yaklaşımı**
Bayram H., Durmaz E. D., Şahin R.
Uluslararası Katılımlı 15. Üretim Araştırmaları Sempozyumu, İzmir, Turkey, 14 - 16 October 2015, pp.731-737
- XIV. **Multiple Objective Intermodal Transportation Modelling via Shortest Path Algorithm and Goal Programming**
Durmaz E. D., Topaloğlu Ş. A., Tunçel Memiş G.
15th International Symposium on Econometrics, Operations Research and Statistics, Isparta, Turkey, 22 - 25 May 2014, pp.158
- XV. **An Application of Fleet Assignment Model for a Sample of the Inter-city Bus Schedule**
Tunçel Memiş G., Bıçak E., Durmaz E. D.
IX. International Logistics and Supply Chain Congress, İzmir, Turkey, 27 - 29 October 2011, pp.337-345

Metrics

Publication: 25

Citation (WoS): 16

Citation (Scopus): 38

H-Index (WoS): 2

H-Index (Scopus): 3