

Asst. Prof. MELİH ÇELİK

Personal Information

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Education Information

Doctorate, Georgia Institute of Technology, Industrial And Systems Engineering, United States Of America 2009 - 2014
Postgraduate, Middle East Technical University, Faculty of Engineering, Department of Industrial Engineering, Turkey 2007 - 2009
Undergraduate, Middle East Technical University, Faculty of Engineering, Department of Industrial Engineering, Turkey 2003 - 2007

Dissertations

Doctorate, Resource Allocation in Humanitarian Supply Chains Under Uncertainty, Georgia Institute Of Technology, Industrial And Systems Engineering, 2014

Postgraduate, The order-picking problem in parallel-aisle warehouses, Orta Doğu Teknik Üniversitesi, Faculty of Engineering, Department of Industrial Engineering, 2009

Academic Titles / Tasks

Assistant Professor, Middle East Technical University, Faculty of Engineering, Department of Industrial Engineering, 2018 - Continues

Assistant Professor, Middle East Technical University, Faculty of Engineering, Department of Industrial Engineering, 2014 - 2018

Research Assistant, Georgia Institute of Technology, Engineering, Industrial And Systems Engineering, 2009 - 2014

Research Assistant, Middle East Technical University, Faculty of Engineering, Department of Industrial Engineering, 2007 - 2009

Advising Theses

ÇELİK M., Stochastic Patient Appointment Scheduling for Chemotherapy, Postgraduate, N.BANU(Student), 2019

ÇELİK M., Routing for post-disaster needs assessment to improve information accuracy and precision, Postgraduate, D.PAMUKÇU(Student), 2018

SÜRAL H., ÇELİK M., On the effect of freight villages in Turkey, Postgraduate, A.METE(Student), 2018

ÇELİK M., Post-disaster relief distribution under road vulnerabilities and aftershocks, Postgraduate, B.BENNU(Student), 2017

ÇELİK M., Facility location and item pre-positioning for humanitarian relief systems under uncertain demand and road-facility vulnerabilities, Postgraduate, E.ASLAN(Student), 2016

SÜRAL H., ÇELİK M., Impact of demand uncertainty on facility layouts: distributed versus dynamic facility layouts, Postgraduate, B.EFEOĞLU(Student), 2016

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Arc routing based compact formulations for picker routing in single and two block parallel aisle warehouses**
Saylam S., Çelik M., SÜRAL H.
European Journal of Operational Research, vol.313, no.1, pp.225-240, 2024 (SCI-Expanded)
- II. **The min-max order picking problem in synchronised dynamic zone-picking systems**
Saylam S., Celik M., SÜRAL H.
INTERNATIONAL JOURNAL OF PRODUCTION RESEARCH, vol.61, no.7, pp.2086-2104, 2023 (SCI-Expanded)
- III. **Pre-positioning of relief items under road/facility vulnerability with concurrent restoration and relief transportation**
Aslan E., Celik M.
IIE TRANSACTIONS, vol.51, no.8, pp.847-868, 2019 (SCI-Expanded)
- IV. **Order picking in parallel-aisle warehouses with multiple blocks: complexity and a graph theory-based heuristic**
ÇELİK M., SÜRAL H.
INTERNATIONAL JOURNAL OF PRODUCTION RESEARCH, vol.57, no.3, pp.888-906, 2019 (SCI-Expanded)
- V. **Freight villages: A literature review from the sustainability and societal equity perspective**
Baydar A. M., Sural H., ÇELİK M.
JOURNAL OF CLEANER PRODUCTION, vol.167, pp.1208-1221, 2017 (SCI-Expanded)
- VI. **Calculation of the Spontaneous Polarization and the Dielectric Constant for the Ferroelectric N(CH₃)(4)HSO₄ Using the Mean Field Model**
YURTSEVEN H. H., ÇELİK M., KARACALI H.
HIGH TEMPERATURE MATERIALS AND PROCESSES, vol.36, no.9, pp.863-869, 2017 (SCI-Expanded)
- VII. **Synthesis and thermoluminescence characterization of lithium tetraborate (Li₂B₄O₇) doped with copper and silver metals**
Çelik M., Yilmaz A., Yazıcı A. N.
RADIATION MEASUREMENTS, vol.102, pp.16-26, 2017 (SCI-Expanded)
- VIII. **An Optimization-Based Decision-Support Tool for Post-Disaster Debris Operations**
Lorca A., ÇELİK M., Ergun O., Keskinocak P.
PRODUCTION AND OPERATIONS MANAGEMENT, vol.26, no.6, pp.1076-1091, 2017 (SCI-Expanded)
- IX. **Challenges in service network expansion: An application in donated breastmilk banking in South Africa**
Cao W., ÇELİK M., Ergun O., Swann J., Viljoen N.
SOCIO-ECONOMIC PLANNING SCIENCES, vol.53, pp.33-48, 2016 (SCI-Expanded)
- X. **Order picking in a parallel-aisle warehouse with turn penalties**
ÇELİK M., SÜRAL H.
INTERNATIONAL JOURNAL OF PRODUCTION RESEARCH, vol.54, no.14, pp.4340-4355, 2016 (SCI-Expanded)
- XI. **The Post-Disaster Debris Clearance Problem Under Incomplete Information**
ÇELİK M., Ergun O., Keskinocak P.
OPERATIONS RESEARCH, vol.63, no.1, pp.65-85, 2015 (SCI-Expanded)
- XII. **Order picking under random and turnover-based storage policies in fishbone aisle warehouses**
Celik M., SÜRAL H.
IIE TRANSACTIONS, vol.46, no.3, pp.283-300, 2014 (SCI-Expanded)

Refereed Congress / Symposium Publications in Proceedings

- I. **The inventory routing problem in rectangular warehouses**
SÜRAL H., ÇELİK M., Archetti C.
8th International Workshop on Lot Sizing, Glasgow, United Kingdom, 23 - 25 August 2017

- II. **Lojistik Köyler Üzerine**
Baydar A. M., SÜRAL H., ÇELİK M.
37.Yöneylem Araştırması ve Endüstri Mühendisliği Ulusal Kongresi, İstanbul, Turkey, 5 - 07 July 2017
- III. **The Vaccination Campaign Routing Problem**
ÇELİK M., ÇAVDAR B., SÜRAL H.
2016 INFORMS Annual Meeting, Nashville, United States Of America, 13 - 16 November 2016
- IV. **Impact of Demand Stochasticity on Facility Layouts**
Efeoglu B., ÇELİK M., SÜRAL H.
28th European Conference on Operational Research, Poznan, Poland, 3 - 06 July 2016
- V. **The storage replenishment problem in rectangular warehouse**
SÜRAL H., Archetti C., ÇELİK M.
International Material Handling Research Colloquium, Karlsruhe, Germany, 12 - 16 June 2016
- VI. **A Performance Measurement Framework and Solution Approach for the Integrated Facility Layout Problem with Uncertain Demand**
ÇELİK M., Efeoglu B., SÜRAL H.
International Material Handling Research Colloquium, Karlsruhe, Germany, 12 - 16 June 2016
- VII. **A decision-support tool for post-disaster debris operations**
Lorca A., ÇELİK M., Ergun O., Keskinocak P.
Humanitarian Technology: Science, Systems and Global Impact (HumTech), Massachusetts, United States Of America, 12 - 14 May 2015, vol.107, pp.154-167

Supported Projects

ÇELİK M., ÇAVDAR B., SÜRAL H., Project Supported by Higher Education Institutions, Gezici Proje Rotalama Problemi için Yenilikçi Çözüm Yaklaşımları, 2016 - 2016
SÜRAL H., ÇELİK M., Project Supported by Higher Education Institutions, Belirsizlik Altında Esnek Tesis Yerleşimi İçin Yenilikçi Yaklaşımlar, 2015 - 2015

Metrics

Publication: 20
Citation (WoS): 228
Citation (Scopus): 194
H-Index (WoS): 9
H-Index (Scopus): 8