

Asst. Prof. MEHMET HAKAN AKYÜZ

Personal Information

Email: mhakyuz@gsu.edu.tr

Web: <https://avesis.gsu.edu.tr/mhakyuz>

Education Information

Doctorate, Bogazici University, Institute Of Science, Endüstri Mühendisliği (Dr), Turkey 2005 - 2011

Postgraduate, Galatasaray University, Mühendislik Ve Teknoloji Fakültesi, Endüstri Mühendisliği Bölümü, Turkey 2002 - 2005

Undergraduate, Istanbul Technical University, İşletme Fakültesi, Endüstri Mühendisliği Bölümü, Turkey 1998 - 2002

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Location-allocation problems with multi-commodity flows: Exact and approximate solution methods, Boğaziçi Üniversitesi, Fen Bilimleri Enstitüsü, Endüstri Mühendisliği (Dr), 2011

Postgraduate, Une approche floue d'analyse d'enveloppement des données au problème de sélection de fournisseur, Galatasaray Üniversitesi, Mühendislik ve Teknoloji Fakültesi, Endüstri Mühendisliği Bölümü, 2005

Academic Titles / Tasks

Assistant Professor, Galatasaray University, Mühendislik Ve Teknoloji Fakültesi, Endüstri Mühendisliği Bölümü, 2014 - Continues

Research Assistant, Galatasaray University, Mühendislik Ve Teknoloji Fakültesi, Endüstri Mühendisliği Bölümü, 2003 - 2014

Advising Theses

AKYÜZ M. H., Static and dynamic container relocation problems: formulations and efficient heuristic procedures, Postgraduate, O.KARPUZOĞLU(Student), 2016

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Solving a minisum single facility location problem in three regions with different norms**
Altay G., Akyuz M. H., ÖNCAN T.
ANNALS OF OPERATIONS RESEARCH, vol.321, no.1-2, pp.1-37, 2023 (SCI-Expanded)
- II. **Assignment problem with conflicts**

ÖNCAN T., Suyak Z., AKYÜZ M. H., Altinel I. K.

COMPUTERS & OPERATIONS RESEARCH, vol.111, pp.214-229, 2019 (SCI-Expanded)

- III. **Branch and bound algorithms for solving the multi-commodity capacitated multi-facility Weber problem**
AKYÜZ M. H., ÖNCAN T., Altinel I. K.
ANNALS OF OPERATIONS RESEARCH, vol.279, pp.1-42, 2019 (SCI-Expanded)
- IV. **The capacitated multi-facility weber problem with polyhedral barriers: Efficient heuristic methods**
AKYÜZ M. H.
COMPUTERS & INDUSTRIAL ENGINEERING, vol.113, pp.221-240, 2017 (SCI-Expanded)
- V. **Service type assignment and container routing with transit time constraints and empty container repositioning for liner shipping service networks**
AKYÜZ M. H., Lee C.
TRANSPORTATION RESEARCH PART B-METHODOLOGICAL, vol.88, pp.46-71, 2016 (SCI-Expanded)
- VI. **Location and allocation based branch and bound algorithms for the capacitated multi-facility Weber problem**
AKYÜZ M. H., ALTINEL İ. K., ÖNCAN T.
ANNALS OF OPERATIONS RESEARCH, vol.222, no.1, pp.45-71, 2014 (SCI-Expanded)
- VII. **A mathematical formulation and efficient heuristics for the dynamic container relocation problem**
Akyuz M. H., Lee C.
NAVAL RESEARCH LOGISTICS, vol.61, no.2, pp.101-118, 2014 (SCI-Expanded)
- VIII. **Beam search heuristics for the single and multi-commodity capacitated Multi-facility Weber Problems**
AKYÜZ M. H., ÖNCAN T., ALTINEL İ. K.
COMPUTERS & OPERATIONS RESEARCH, vol.40, no.12, pp.3056-3068, 2013 (SCI-Expanded)
- IX. **Solving the multi-commodity capacitated multi-facility Weber problem using Lagrangean relaxation and a subgradient-like algorithm**
Akyuz M. H., ÖNCAN T., ALTINEL İ. K.
JOURNAL OF THE OPERATIONAL RESEARCH SOCIETY, vol.63, no.6, pp.771-789, 2012 (SCI-Expanded)
- X. **Efficient approximate solution methods for the multi-commodity capacitated multi-facility Weber problem**
AKYÜZ M. H., ÖNCAN T., ALTINEL İ. K.
COMPUTERS & OPERATIONS RESEARCH, vol.39, no.2, pp.225-237, 2012 (SCI-Expanded)
- XI. **The multi-commodity capacitated multi-facility Weber problem: heuristics and confidence intervals**
AKYÜZ M. H., ÖNCAN T., ALTINEL İ. K.
IIE TRANSACTIONS, vol.42, no.11, pp.825-841, 2010 (SCI-Expanded)

Refereed Congress / Symposium Publications in Proceedings

- I. **An exact algorithm for the maximum weight perfect matching problem with conflicts**
ÖNCAN T., AKYÜZ M. H., Altinel I. K.
17th Cologne-Twente Workshop on Graphs and Combinatorial Optimization, CTW 2019, Enschede, Netherlands, 1 - 03 July 2019, pp.111-114
- II. **A Tabu Search Based Heuristic Approach for the Dynamic Container Relocation Problem**
Karpuzoglu O., AKYÜZ M. H., ÖNCAN T.
Operations Research Conference (OR), Vienna, Austria, 1 - 04 September 2015, pp.165-171
- III. **A Beam Search Heuristic for the Multi-commodity Capacitated Multi-facility Weber Problem**
ÖNCAN T., AKYÜZ M. H., ALTINEL İ. K.
International MultiConference of Engineers and Computer Scientists (IMECS 2012), Hong Kong, PEOPLES R CHINA, 14 - 16 March 2012, pp.1617-1622
- IV. **The Multi-commodity Capacitated Multi-facility Weber Problem: Heuristics and Confidence Intervals**

AKYÜZ M. H., ÖNCAN T., ALTINEL İ. K.

International Multi-Conference of Engineers and Computer Scientists, Kowloon, Hong Kong, 18 - 20 March 2009,
pp.2042-2043

Supported Projects

AKYÜZ M. H., Project Supported by Higher Education Institutions, YASAK BÖLGELİ SINIRLI SIĞALI ÇOK TESİSLİ
YERLEŞİM PROBLEMİ İÇİN ÇÖZÜM YÖNTEMLERİ, 2016 - 2018

AKYÜZ M. H., Project Supported by Higher Education Institutions, HAT TAŞIMACILIĞI HİZMET AĞLARI İÇİN KONTEYNER
ROTALAMA PROBLEMLERİ, 2014 - 2017

Metrics

Publication: 15

Citation (WoS): 82

Citation (Scopus): 101

H-Index (WoS): 6

H-Index (Scopus): 7