

## **Res. Asst. TOLGA KARABAŞ**

### **Personal Information**

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### **International Researcher IDs**

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Publons / Web Of Science ResearcherID: ABG-4067-2022

ScopusID: 58059196400

Yoksis Researcher ID: 319761

### **Education Information**

Doctorate, Middle East Technical University, Faculty of Engineering, Department of Industrial Engineering, Turkey 2020 - Continues

Postgraduate, Middle East Technical University, Faculty of Engineering, Department of Industrial Engineering, Turkey 2017 - 2020

Undergraduate Minor, Middle East Technical University, Faculty of Economic and Administrative Sciences, Department of Business Administration, Turkey 2015 - 2018

Undergraduate, Middle East Technical University, Faculty of Engineering, Department of Industrial Engineering, Turkey 2012 - 2017

### **Dissertations**

Postgraduate, A Solution Methodology for the Unit Commitment Problem in Traditional-and-Wind Integrated Hybrid Power Systems under Supply/Demand Uncertainty and Emission Limitations, Middle East Technical University, Faculty of Engineering, Department of Industrial Engineering, 2020

### **Research Areas**

Energy, Industrial Engineering, Stochastic Modeling, Optimization Theory and Methods, Decision Theory, Engineering and Technology

### **Academic Titles / Tasks**

Research Assistant, Middle East Technical University, Faculty of Engineering, Department of Industrial Engineering, 2020 - Continues

### **Published journal articles indexed by SCI, SSCI, and AHCI**

1. An exact solution method and a genetic algorithm-based approach for the unit commitment problem

**in conventional power generation systems**

KARABAŞ T., Meral S.

Computers and Industrial Engineering, vol.176, 2023 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Design of an Inventory Management System for the Purchased Materials in a Defense-Industry Company**

Karabaş T., Kırca Ö., Meral F. S., Aydın S. M., Özdemir R. O., Nartok Y. M., Karaaslan M.

Endüstri Mühendisliği, vol.28, no.3, pp.3-19, 2017 (Peer-Reviewed Journal)

## Refereed Congress / Symposium Publications in Proceedings

- I. **The Unit Commitment Problem: A Mixed Integer Coded Genetic Algorithm-based Approach**

Karabaş T., Meral F. S.

30th European Conference on Operational Research, Dublin, Ireland, 23 - 26 June 2019

- II. **Bir Savunma Sanayi Şirketinde Malzeme Envanter Yönetim Sisteminin Yeniden Tasarlanması**

Karabaş T., Kırca Ö., Meral F. S., Aydın S. M., Özdemir R. O., Nartok Y. M., Karaaslan M.

37. Ulusal Yöneylem Araştırması ve Endüstri Mühendisliği Konferansı, İstanbul, Turkey, 5 - 07 July 2017, pp.3-19

## Supported Projects

Karabaş T., Meral F. S., Yenicesu İ., Nalbantoğlu A., Çetin A. T., EU Supported Other Project, Technical Assistance for Improving the Blood Transfusion Management System in Turkey (IBTMST)), 2019 - 2022

## Metrics

Publication: 4

## Congress and Symposium Activities

6th Annual Asset Management Forum for Distribution System Operators, Audience, Amsterdam, Netherlands, 2019

30th European Conference on Operational Research, Invited Speaker, Dublin, Ireland, 2019

37th Operations Research and Industrial Engineering National Conference, Invited Speaker, İstanbul, Turkey, 2017

## Scholarships

2211A-Genel Yurt İçi Doktora Burs Programı, TUBITAK, 2020 - Continues

2210A-Genel Yurt İçi Yüksek Lisans Burs Programı, TUBITAK, 2017 - 2020