

## Asst. Prof. KADİR BÜYÜKÖZKAN

### Personal Information

**Office Phone:** [+90 462 377 3824](tel:+904623773824) Extension: 2338

**Fax Phone:** [+90 462 325 6482](tel:+904623256482)

**Email:** [kbuyukozkan@ktu.edu.tr](mailto:kbuyukozkan@ktu.edu.tr)

**Other Email:** [kadirbuyukozkan@gmail.com](mailto:kadirbuyukozkan@gmail.com)

**Web:** <https://avesis.ktu.edu.tr//kbuyukozkan>

**Address:** KTU endsütri Mühendisliği Bölümü, Kanuni Kampüsü, Trabzon

### International Researcher IDs

ScholarID: [ufJobCIAAAAJ](https://orcid.org/0000-0001-6321-0302)

ORCID: 0000-0001-6321-0302

Publons / Web Of Science ResearcherID: AAW-3685-2020

ScopusID: 55902625100

Yoksis Researcher ID: 53094

### Education Information

Doctorate, Istanbul Technical University, Fen Bilimleri Enstitüsü, Endüstri Mühendisliği Anabilim Dalı, Turkey 2013 - 2018

Postgraduate, Selcuk University, Institute Of Science, Endüstri Mühendisliği Anabilim Dalı, Turkey 2009 - 2012

Undergraduate Double Major, Selcuk University, Faculty Of Engineering, Makine Mühendisliği, Turkey 2007 - 2011

Undergraduate, Selcuk University, Faculty Of Engineering, Department Of Industrial Engineering, Turkey 2005 - 2009

### Foreign Languages

English, B2 Upper Intermediate

### Certificates, Courses and Trainings

Education Management and Planning, TÜBİTAK 2237-B Mühendislik ve Teknolojik Bilimlerde Uygulamalı Proje Yazma Eğitimi, TÜBİTAK, 2018

Education Management and Planning, Proje Döngüsü Yönetimi ve Proje Hazırlama Eğitimi, Doğu Karadeniz Kalkınma Ajansı, 2014

### Dissertations

Doctorate, KARMA MODELLİ MONTAJ HATLARINA YÖNELİK DÖNGÜSEL MALZEME BESLEME SİSTEMİ OPTİMİZASYONU, Istanbul Technical University, Fen Bilimleri Enstitüsü, Endüstri Mühendisliği Ana Bilim Dalı, 2018

Postgraduate, Hemşire çizelgeleme probleminin çözümünde arı kolonisi algoritması ve bir sağlık kuruluşunda uygulama, Selcuk University, Fen Bilimleri Enstitüsü, Endüstri Mühendisliği Anabilim Dalı, 2012

## Research Areas

Industrial Engineering, Optimization Theory and Methods, Heuristic Methods, Simulation, Simulation Optimization, Production Planning and Control, Scheduling, Modelling and Analysis of Production Systems, Engineering and Technology

## Academic Titles / Tasks

Assistant Professor, Karadeniz Technical University, Mühendislik Fakültesi, Endüstri Mühendisliği, 2019 - Continues

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

- I. **A genetic algorithm integrated with the initial solution procedure and parameter tuning for capacitated P-median problem**  
ÖKSÜZ M. K., BÜYÜKÖZKAN K., Bal A., Satoğlu Ş. I.  
Neural Computing and Applications, vol.35, no.8, pp.6313-6330, 2023 (SCI-Expanded)
- II. **Artificial bee colony algorithm for solving multi-objective distributed fuzzy permutation flow shop problem**  
Baysal M. E., Sarucan A., BÜYÜKÖZKAN K., Engin O.  
Journal of Intelligent and Fuzzy Systems, vol.42, no.1, pp.439-449, 2022 (SCI-Expanded)
- III. **A mathematical model and artificial bee colony algorithm for the lexicographic bottleneck mixed-model assembly line balancing problem**  
Kucukkoc I., Buyukozkan K., Satoğlu Ş. I., Zhang D. Z.  
JOURNAL OF INTELLIGENT MANUFACTURING, vol.30, no.8, pp.2913-2925, 2019 (SCI-Expanded)
- IV. **U-shaped assembly line worker assignment and balancing problem: A mathematical model and two meta-heuristics**  
Öksüz M. K., BÜYÜKÖZKAN K., Satoğlu Ş. I.  
COMPUTERS & INDUSTRIAL ENGINEERING, vol.112, pp.246-263, 2017 (SCI-Expanded)
- V. **Lexicographic bottleneck mixed-model assembly line balancing problem: Artificial bee colony and tabu search approaches with optimised parameters**  
Buyukozkan K., Kucukkoc I., Satoğlu Ş. I., Zhang D. Z.  
EXPERT SYSTEMS WITH APPLICATIONS, vol.50, pp.151-166, 2016 (SCI-Expanded)
- VI. **Applicability of artificial bee colony algorithm for nurse scheduling problems**  
BÜYÜKÖZKAN K., Sarucan A.  
INTERNATIONAL JOURNAL OF COMPUTATIONAL INTELLIGENCE SYSTEMS, vol.7, pp.121-136, 2014 (SCI-Expanded)

## Books & Book Chapters

- I. **A Mathematical Model and a Matheuristic for In-Plant Milk-Run Systems Design and Application in White Goods Industry**  
BÜYÜKÖZKAN K., Bal A., Öksüz M. K., Kapukaya E. N., Satoğlu Ş. I.  
in: Industrial Engineering in the Big Data Era, Calisir F., Cevikcan E., Akdag H. C., Editor, Springer-Verlag ,  
Gewerbstrasse, pp.99-112, 2019

## Refereed Congress / Symposium Publications in Proceedings

- I. **Distributed No-Wait Flow Shop with Fuzzy Environment**

Başar R., BÜYÜKÖZKAN K., Engin O.

International Conference on Intelligent and Fuzzy Systems, INFUS 2022, İzmir, Turkey, 19 - 21 July 2022, vol.504 LNNS, pp.279-286

- II. **A Meta-heuristic Approach to the Single Machine Scheduling Problem with Periodic Maintenance**  
BÜYÜKÖZKAN K., Baysal M. E., Yalçın C., Sarucan A.  
International Conference on Intelligent and Fuzzy Systems, INFUS 2022, İzmir, Turkey, 19 - 21 July 2022, vol.504 LNNS, pp.864-869
- III. **Distributed Fuzzy Permutation Flow Shop Scheduling Problem: A Bee Colony Algorithm**  
Emin Baysal M., Sarucan A., BÜYÜKÖZKAN K., Engin O.  
International Conference on Intelligent and Fuzzy Systems, INFUS 2020, İstanbul, Turkey, 21 - 23 July 2020, vol.1197 AISC, pp.1440-1446
- IV. **A hybrid Artificial Bee Colony Algorithm for Capacitated Vehicle Routing Problem – A Case Study**  
BÜYÜKÖZKAN K., Coşkun H., Saban E., Tekin İ. A.  
International Conference on Applied Mathematics in Engineering, Balıkesir, Turkey, 27 - 29 June 2018, pp.143
- V. **AN OPTIMIZATION OF THE IN-PLANT MILKRUN SYSTEM - A CASE STUDY**  
BÜYÜKÖZKAN K., Satoğlu Ş. I.  
XIII. Balkan Conference on Operation Research, Belgrad, Bulgaria, 25 - 28 May 2018, pp.28
- VI. **Akkoyunlu M.C., Büyüközkan K., Satioğlu Ş.I., Özkan C., "Prediction of Number of Passengers in Public Transportation by Using Artificial Neural Network Method ", 3 rd INTERNATIONAL RESEARCHERS, STATISTICIANS AND YOUNG STATISTICIANS CONGRESS, KONYA, TÜRKİYE, 24 Mayıs - 26 Haziran 2017, pp.80-80 (Link)**  
AKKOYUNLU M. C., BÜYÜKÖZKAN K., SATIOĞLU Ş. I., ÖZKAN C.  
3 rd INTERNATIONAL RESEARCHERS, STATISTICIANS AND YOUNG STATISTICIANS CONGRESS, 24 - 27 May 2017
- VII. **Scheduling customized orders: A case study at BEST transformers company**  
Ocaktan M. B., Kucukkoc I., Karaoglan A. D., CICIBAS A., BÜYÜKÖZKAN K.  
Proceedings of the 3rd World Congress on Mechanical, Chemical, and Material Engineering, MCM 2017, Rome, Italy, 8 - 10 June 2017
- VIII. **YAPAY ARI KOLONİLERİ ALGORİTMASI VE BEKLEMESİZ ÇİZELGELEME PROBLEMLERİNİN ÇÖZÜMÜNDE KULLANIMI**  
BÜYÜKÖZKAN K., ENGİN O., BAYSAL M. E., SARUCAN A.  
Uluslar Arası Katılımlı Üretim Araştırmaları Sempozyumu, 12 - 14 October 2016, pp.235-239
- IX. **A Genetic Algorithm for the p median facility location problem**  
ÖKSÜZ M. K., SATOĞLU Ş. I., KAYAKUTLU G., BÜYÜKÖZKAN K.  
Global Joint Conference on Industrial Engineering and Its Application Areas, 14 - 15 July 2016
- X. **A HARMONY SEARCH ALGORITHM FOR HYBRID FLOW SHOP SCHEDULING WITH MULTIPROCESSOR TASK PROBLEMS**  
Akkoyunlu M. C., ENGİN O., BÜYÜKÖZKAN K.  
6th International Conference on Modeling, Simulation, and Applied Optimization (ICMSAO), İstanbul, Turkey, 27 - 29 May 2015
- XI. **Lexicographic bottleneck mixed-model assembly line balancing problem: An artificial bee colony approach**  
BÜYÜKÖZKAN K., Küçükkoç İ., Zhang D. Z.  
44th International Conference on Computers and Industrial Engineering, İstanbul, Turkey, 14 - 16 October 2014, pp.1213-1227
- XII. **HVAC SİSTEMLERİNDE AÇ-KAPA ve BULANIK MANTIK KONTROLÜN KIYASLAMALI OLARAK İNCELENMESİ**  
BÜYÜKÖZKAN K., Yiğit Ş., Sönmez F., Çuhadaroğlu B.  
11. ULUSAL TESİSAT MÜHENDİSLİĞİ KONGRESİ – 17/20 NİSAN 2013/İZMİR, İzmir, Turkey, 17 - 20 April 2013, pp.1729-1740
- XIII. **AN ARTIFICIAL BEE COLONY ALGORITHM FOR SOLVING NURSE SCHEDULING PROBLEMS**  
Sarucan A., BÜYÜKÖZKAN K.

10th International Conference on Fuzzy Logic and Intelligent Technologies in Nuclear Science (FLINS), İstanbul, Turkey, 26 - 29 August 2012, vol.7, pp.183-188

## **Metrics**

Publication: 21

Citation (WoS): 112

Citation (Scopus): 152

H-Index (WoS): 4

H-Index (Scopus): 7

## **Congress and Symposium Activities**

Yöneylem Araştırması ve Endüstri Mühendisliği Kongresi, Attendee, Gaziantep, Turkey, 2023

## **Non Academic Experience**

Business Establishment Private, Bizcanlı Redüktör

Bizcanlı Redüktör A. Ş.