

## Assoc. Prof. Vildan ÖZKIR

### Personal Information

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### International Researcher IDs

ScholarID: vildanozkir

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ScopusID: 45661518900

Yoksis Researcher ID: 173774

### Education Information

Postgraduate, Yildiz Technical University, Graduate School Of Natural And Applied Sciences, -, Turkey 2002 - 2004

### Research Areas

Industrial Engineering , Optimization Theory and Methods, Multiobjective Optimization, Engineering and Technology

### Academic and Administrative Experience

Deputy Head of Department, Yildiz Technical University, Faculty Of Mechanical Engineering, Department Of Industry Engineering, 2020 - 2022

Staj Başkanı, Yildiz Technical University, Faculty Of Mechanical Engineering, Department Of Industry Engineering, 2011 - 2022

### Courses

OPERATIONS RESEARCH 1, Undergraduate, 2018 - 2019

OPERATIONS RESEARCH 2, Undergraduate, 2018 - 2019

Numerical Analysis, Undergraduate, 2018 - 2019

### Advising Theses

Özkr V., Fleet Assignment and Bank Structure Integration in Airline Scheduling Problem, Doctorate, M.Enis(Student), 2021

Özkr V., Data analytics in industrial applications, Postgraduate, Ö.DÖĞER(Student), 2018

Özkr V., A Novel Algorithm for solving large scale bin-packing problems, Postgraduate, S.TEKİL(Student), 2017

Özkr V., Simulation of passenger process in airport terminal, Postgraduate, R.PINAR(Student), 2017

Özkr V., Constructing Highly Consistent Matrices in the Analytic Hierarchy Process, Postgraduate, Ş.KOYUN(Student),

2014

Özkr V., Electromagnetism-like Heuristics for solving Travelling Salesman Problem, Postgraduate, B.TOPCU(Student),  
2014

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

- I. **Extended flexible capacity planning methodology with flight network contribution to the airline fleet assignment problem**  
Enki Y., ÖZKIR V., ŞEN C., Enis Çiftçi M.  
Expert Systems with Applications, vol.255, 2024 (SCI-Expanded)
- II. **A Fermatean fuzzy MCDM method for selection and ranking Problems: Case studies**  
Aydoğan H., ÖZKIR V.  
Expert Systems with Applications, vol.237, 2024 (SCI-Expanded)
- III. **Integrated optimisation model for airline bank structure and fleet assignment problem**  
Ciftci M. E., ÖZKIR V.  
Annals of Operations Research, 2023 (SCI-Expanded)
- IV. **Multi-objective 3D bin packing problem with load balance and product family concerns**  
Erbayrak S., ÖZKIR V., Yildirim U. M.  
COMPUTERS & INDUSTRIAL ENGINEERING, vol.159, 2021 (SCI-Expanded)
- V. **Two-Phase Heuristic Algorithm for Integrated Airline Fleet Assignment and Routing Problem**  
Özkr V., Özgür M. S.  
Energies, vol.14, no.11, pp.1-11, 2021 (SCI-Expanded)
- VI. **Optimising flight connection times in airline bank structure through Simulated Annealing and Tabu Search algorithms**  
Çiftçi M. E., Özkr V.  
Journal of Air Transport Management, vol.87, 2020 (SSCI)
- VII. **Simulation-based assessment methodology to improve ground service operations at a hub airport**  
Parkan P., Özkr V.  
TRANSPORTATION PLANNING AND TECHNOLOGY, vol.43, no.5, pp.520-538, 2020 (SCI-Expanded)
- VIII. **An Effective Extension of Fuzzy TOPSIS Method for Hierarchically Structured Group Decision Making Problems**  
Özkr V., Demirel T.  
JOURNAL OF MULTIPLE-VALUED LOGIC AND SOFT COMPUTING, vol.26, pp.295-314, 2016 (SCI-Expanded)
- IX. **A three-stage methodology for initiating an effective management system for electronic waste in Turkey**  
Ozkr V., Efendigil T., Demirel T., Demirel N. C., Deveci M., Topcu B.  
RESOURCES CONSERVATION AND RECYCLING, vol.96, pp.61-70, 2015 (SCI-Expanded)
- X. **A Fuzzy Mixed Integer Linear Programming Model for A Reverse Logistics System with A Real Case Application**  
Özkan B., Basligil H., Kaya İ., Özkr V.  
JOURNAL OF MULTIPLE-VALUED LOGIC AND SOFT COMPUTING, vol.25, pp.269-289, 2015 (SCI-Expanded)
- XI. **Multi-objective optimization of closed-loop supply chains in uncertain environment**  
ÖZKIR V., Basligil H.  
JOURNAL OF CLEANER PRODUCTION, vol.41, pp.114-125, 2013 (SCI-Expanded)
- XII. **Modelling product-recovery processes in closed-loop supply-chain network design**  
Özkr V., Basligil H.  
INTERNATIONAL JOURNAL OF PRODUCTION RESEARCH, vol.50, pp.2218-2233, 2012 (SCI-Expanded)
- XIII. **A fuzzy assessment framework to select among transportation investment projects in Turkey**  
ÖZKIR V., DEMİREL T.  
EXPERT SYSTEMS WITH APPLICATIONS, vol.39, no.1, pp.74-80, 2012 (SCI-Expanded)

## Articles Published in Other Journals

- I. **A novel multiple criteria ranking approach for determining the Most Valuable Player (MVP) of a sport season: A numerical study from NBA league**  
DEĞİRMENÇİ A., ÖZKIR V.  
Journal of Soft Computing and Decision Analytics, vol.1, 2023 (Peer-Reviewed Journal)
- II. **A request selection and dynamic pricing in physical internet**  
GÜLÜM M. N., ÖZKIR V., YILDIRIM U. M.  
Recent Advances in Science and Engineering, vol.2, no.2, pp.1-6, 2022 (Peer-Reviewed Journal)
- III. **Survey System Using Blockchain for Scientific Research**  
ÇELİK S. E., ÖZKIR V.  
Quantrade Journal of Complex Systems in Social Sciences, vol.3, no.2, pp.45-67, 2021 (Peer-Reviewed Journal)
- IV. **Extended Consistency Analysis For Pairwise Comparison Method**  
Koyun Yılmaz Ş., Özkır V.  
International Journal of the Analytic Hierarchy Process, vol.10, no.1, pp.1, 2018 (Scopus)
- V. **Belirsizlik Altında Çevre Bilinçli Tedarikçi Seçimi Probleminin İncelenmesi**  
Özkır V.  
DOĞUŞ ÜNİVERSİTESİ DERGİSİ, no.19, pp.23-37, 2018 (Peer-Reviewed Journal)
- VI. **Application of the random key based electromagnetism-like heuristic for solving travelling salesman problems**  
Özkır V., Topçu B.  
PAMUKKALE UNIVERSITY JOURNAL OF ENGINEERING SCIENCES-PAMUKKALE UNIVERSİTESİ MUHENDİSLİK BİLİMLERİ DERGİSİ, vol.24, no.1, pp.76-82, 2018 (ESCI)
- VII. **AN EFFICIENT MADM METHOD: ELECTROMAGNETISM-LIKE METHOD FOR SELECTION AND ORDERING**  
Özkır V., Topçu B.  
SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES-SIGMA MUHENDİSLİK VE FEN BİLİMLERİ DERGİSİ, vol.35, no.3, pp.513-522, 2017 (ESCI)
- VIII. **Constructing small WEEE collection system in Istanbul: A decision support system and conceptual design proposal**  
Özkır V.  
An International Journal of Optimization and Control: Theories & Applications (IJOCTA), vol.7, no.1, pp.16-27, 2017 (Peer-Reviewed Journal)

## Books & Book Chapters

- I. **Genetik Algoritma**  
Özkır V.  
in: Makine Öğrenmesinde Sınıflandırma Yöntemleri ve R Uygulamaları, Ersoy ÖZ, Selçuk ALP, Editor, Nobel Yayın Dağıtım, İstanbul, pp.93-110, 2019
- II. **Multi-objective Decision Analysis in Strategic Supply Chain Design**  
ÖZKIR V.  
in: Hierarchical Planning and Information Sharing Techniques in Supply Chain Management, Taghipour, A., Editor, Igi Global Publications, Hershey, pp.163-178, 2019
- III. **Lojistikte Dış Kaynak ve Önemi**  
Özkır V.  
in: Lojistik Yönetimi, Umut Rifat Tuzkaya, Editor, ATATURK ÜNİVERSİTESİ Açık Öğretim Fakülte Kitabevi, Erzurum, pp.45-60, 2018
- IV. **Dağıtım planlama ve ulaştırma**  
TUZKAYA U. R., TUZKAYA G., ÖZKIR V., APAK S., KÜÇÜK B., TAŞEL F.

## Refereed Congress / Symposium Publications in Proceedings

- I. **Havayolu Filo Atama Problemine Uçuş Ağı Katkısı ile Genişletilmiş Esnek Kapasite Planlama Metodolojisi Önerisi**  
Enki Y., ÖZKIR V., ŞEN C., ÇİFTÇİ M. E.  
41. Yöneylem Araştırması ve Endüstri Mühendisliği (YA/EM) Ulusal Kongresi, Denizli, Turkey, 26 October 2022, pp.103
- II. **A Survey of Industrial Engineering Students' Learning Types**  
KOYUN YILMAZ Ş., ASLAN M. E., ÖZKIR V.  
13th Balkan Conference on Operational Research, Belgrad, Serbia And Montenegro, 25 May 2018, pp.1
- III. **Effects of Personality Traits on Decision Support Systems**  
ÖZKURT P., KOYUN YILMAZ Ş., ASLAN M. E., ÖZKIR V.  
13th Balkan Conference on Operational Research, 25 - 28 May 2018, pp.17
- IV. **Artificial Neural Network Models for Reducing Spoiled Product Return Rate in FMCG**  
KOYUN YILMAZ Ş., BAYIRALAN İ. K., SANCAKTAR Ç., ÖZKIR V.  
International Conference on Computational and Statistical Methods in Applied Sciences, Samsun, Turkey, 09 November 2017
- V. **Konteyner Yükleme Problemlerinin İncelenmesi ve Lojistik Sektöründe Uygulama**  
TEKİL S., ÖZKIR V., KOYUN YILMAZ Ş.  
37. Yöneylem Araştırması ve Endüstri Mühendisliği Ulusal Kongresi, İstanbul, Turkey, 05 July 2017, pp.99
- VI. **Survey results of E-Waste Quantity and recycling strategy development: the case of Istanbul**  
DEMİREL T., TOPCU B., DEVECİ M., ÇETİN DEMİREL N., EFENDİGİL T., ÖZKIR V.  
YA/EM 2013, İstanbul, Turkey, 07 July 2013
- VII. **Developing a Strategy for Collection and Recycling of E-Waste in Turkey**  
Özkr V., Efendigil T., Çetin Demirel N., DEMİREL T., Deveci M.  
26th European Conference on Operational Research, 01 July 2013
- VIII. **Multi-criteria evaluation to prioritize the organic farm site using extended Vikor method**  
DEMİREL T., Tüzün S., ÖZKIR V.  
14th International Conference on Information Processing and Management of Uncertainty in Knowledge-Based Systems, IPMU 2012, Catania, Italy, 9 - 13 July 2012, pp.432-440
- IX. **A FRAMEWORK PROPOSAL UPON THE ESTIMATION OF ELECTRONIC-WASTE PRODUCTS IN ISTANBUL**  
EFENDİGİL T., ÖZKIR V., Demirel N. C., DEMİREL T., Ondemir O.  
10th International Conference on Fuzzy Logic and Intelligent Technologies in Nuclear Science (FLINS), İstanbul, Turkey, 26 - 29 August 2012, vol.7, pp.1184-1189
- X. **A COMPREHENSIVE ANALYSIS FOR THE METRICS OF SUPPLYCHAIN DESIGN STRATEGIES**  
ÖZKIR V., DEMİREL T.  
the 15th International Research/Expert Conference on Trends in the Development of Machinery and Associated Technology, Prague, 12 - 18 September 2011, pp.353-356
- XI. **A Genetic Algorithm Approach for Minimizing Total Tardiness in Parallel Machine Scheduling Problems**  
DEMİREL T., ÖZKIR V., Demirel N. C., TASDELEN B.  
World Congress on Engineering (WCE 2011), London, Canada, 6 - 08 July 2011, pp.1190-1193

## Supported Projects

Özkr V., TUBITAK Project, Lojistik Operasyonlarda Ayrı Adreslenen Konteyner Yükleme Ve Rotalama Problemleri İçin

Makine Öğrenmeli Bütünleşik Model Ve Çözüm Yöntemlerinin Geliştirilmesi, 2023 - 2026

ÖZKIR V., ENKİ Y., Project Supported by Higher Education Institutions, UÇUŞ AĞI KATKI İLE GENİŞLETİLMİŞ HAVAYOLU FİLO ATAMA PROBLEMİ İÇİN ESNEK KAPASİTE PLANLAMA METODOLOJİSİ, 2022 - 2023

ÖZKIR V., Project Supported by Higher Education Institutions, İstanbul Bölgesinde Ömrünü Tamamlamış Elektronik Ürünlerin (E-Atık) Toplanması ve Geri Kazanımı ile ilgili stratejilerin oluşturulması, 2011 - 2014

## **Student Project**

R & D Project, Perakende Sektöründe Çalışanların Vardiya Çizelgelemesi, Yıldız Technical University, Faculty Of Mechanical Engineering, Department Of Industry Engineering, Turkey, 2023 - 2023

R & D Project, Havayolu Fliro Atama Probleminin İncelenmesi, Yıldız Technical University, Faculty Of Mechanical Engineering, Department Of Industry Engineering, Turkey, 2020 - 2020

## **Memberships / Tasks in Scientific Organizations**

Yöneylem Araştırması Derneği, Member, 2008 - Continues, Turkey

## **Metrics**

Publication: 40

Citation (WoS): 158

Citation (Scopus): 334

H-Index (WoS): 4

H-Index (Scopus): 8

## **Non Academic Experience**

Sabancı Üniversitesi