

Assoc. Prof. Vildan ÖZKIR

Personal Information

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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 - Continues

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

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.ENİS(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

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. **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 (Journal Indexed in SCI)
- II. **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 (Journal Indexed in SCI Expanded)
- III. **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 (Journal Indexed in SSCI)
- IV. **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 (Journal Indexed in SCI)
- V. **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 (Journal Indexed in SCI)
- VI. **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 (Journal Indexed in SCI)
- VII. **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 (Journal Indexed in SCI)
- VIII. **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 (Journal Indexed in SCI)
- IX. **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 (Journal Indexed in SCI)
- X. **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 (Journal Indexed in SCI)

Articles Published in Other Journals

- I. **Extended Consistency Analysis For Pairwise Comparison Method**
Koyun Yılmaz Ş., Özkr V.
International Journal of the Analytic Hierarchy Process, vol.10, no.1, pp.1, 2018 (Refereed Journals of Other Institutions)
- II. **Application of the random key based electromagnetism-like heuristic for solving travelling salesman problems**
Özkr V., Topçu B.
PAMUKKALE UNIVERSITY JOURNAL OF ENGINEERING SCIENCES-PAMUKKALE UNIVERSİTESİ MUHENDİSLİK BİLİMLERİ DERGİSİ, vol.24, no.1, pp.76-82, 2018 (Journal Indexed in ESCI)
- III. **Belirsizlik Altında Çevre Bilinçli Tedarikçi Seçimi Probleminin İncelenmesi**
Özkr V.
DOĞUŞ ÜNİVERSİTESİ DERGİSİ, no.19, pp.23-37, 2018 (National Refreed University Journal)
- IV. **AN EFFICIENT MADM METHOD: ELECTROMAGNETISM-LIKE METHOD FOR SELECTION AND**

ORDERING

Özkar V., Topçu B.

SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES-SIGMA MUHENDISLIK VE FEN BILIMLERI DERGISI, vol.35, no.3, pp.513-522, 2017 (Journal Indexed in ESCI)

V. **Constructing small WEEE collection system in Istanbul: A decision support system and conceptual design proposal**

Özkar V.

An International Journal of Optimization and Control: Theories & Applications (IJOCTA), vol.7, no.1, pp.16-27, 2017 (International Refereed University Journal)

Books & Book Chapters

I. **Genetik Algoritma**

Özkar 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**

Özkar V.

in: Lojistik Yönetimi, Umut Rıfat 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.

in: DAĞITIM KANALLARI PLANLAMASI, Umut Rıfat Tuzkaya, Vecihi Yiğit, Editor, Açık Öğretim Fakülte Kitabevi, Erzurum, 2017

Refereed Congress / Symposium Publications in Proceedings

I. **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

II. **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

III. **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

IV. **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

V. **Survey results of E-Wates 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

VI. **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

VII. 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

VIII. 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

IX. 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

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

Memberships / Tasks in Scientific Organizations

Yöneylem Araştırması Derneği, Member, 2008 - Continues, Turkey

Citations

Total Citations (WOS):157

h-index (WOS):4