

Prof. RIZVAN EROL

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International Researcher IDs

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Publons / Web Of Science ResearcherID: K-9444-2014

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Education Information

Doctorate, Arizona State University, Ira A. Fulton Schools of Engineering, Industrial Engineering, United States Of America 1992 - 1996

Postgraduate, Western Michigan University, College of Engineering and Applied Sciences, Industrial Engineering, United States Of America 1990 - 1992

Undergraduate, Istanbul Technical University, İşletme, Endüstri Mühendisliği, Turkey 1985 - 1989

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Transient and Steady-State Models of Quality Deterioration in Serial Production Lines, Arizona State University, Ira A. Fulton Schools of Engineering, Industrial & Management Systems Engineering, 1996

Postgraduate, An Integrated Simulation Model Development Environment for SLAM II Using Object-Oriented Paradigm, Western Michigan University, College of Engineering and Applied Sciences, Industrial Engineering, 1992

Research Areas

Industrial Engineering , Engineering and Technology

Academic Titles / Tasks

Professor, Cukurova University, Mühendislik Fakültesi, Endüstri Mühendisliği, 2008 - Continues

Associate Professor, Cukurova University, Mühendislik Fakültesi, Endüstri Mühendisliği, 2000 - 2008

Assistant Professor, Cukurova University, Mühendislik Fakültesi, Endüstri Mühendisliği, 1996 - 2000

Academic and Administrative Experience

Head of Department, Cukurova University, Mühendislik Fakültesi, Endüstri Mühendisliği, 1996 - 2017

Courses

Undergraduate

Endüstri Mühendisliğine Giriş, Undergraduate, 2024 - 2025

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Solving Dynamic Full-Truckload Vehicle Routing Problem Using an Agent-Based Approach**
Çabuk S., EROL R.
Mathematics, vol.12, no.13, 2024 (SCI-Expanded)
- II. **A mathematical programming model for facility location optimization of hydrogen production from renewable energy sources**
DERSE O., Gocmen E., YILMAZ E., EROL R.
ENERGY SOURCES PART A-RECOVERY UTILIZATION AND ENVIRONMENTAL EFFECTS, vol.44, no.3, pp.6648-6659, 2022 (SCI-Expanded)
- III. **Coordination of production planning and distribution in closed-loop supply chains**
KUVVETLİ Y., EROL R.
NEURAL COMPUTING & APPLICATIONS, vol.32, no.17, pp.13605-13623, 2020 (SCI-Expanded)
- IV. **Transportation problems for intermodal networks: Mathematical models, exact and heuristic algorithms, and machine learning**
GÖÇMEN E., EROL R.
EXPERT SYSTEMS WITH APPLICATIONS, vol.135, pp.374-387, 2019 (SCI-Expanded)
- V. **Modeling and Analysis of Multiple-Supplier Selection Problem with Price Discounts and Routing Decisions**
CABUK S., EROL R.
APPLIED SCIENCES-BASEL, vol.9, no.17, 2019 (SCI-Expanded)
- VI. **A Novel Hybrid Artificial Intelligence Based Methodology for the Inventory Routing Problem**
BORU A., DOSDOGRU A. T., GÖCKEN M., EROL R.
SYMMETRY-BASEL, vol.11, no.5, 2019 (SCI-Expanded)
- VII. **The Problem of Sustainable Intermodal Transportation: A Case Study of an International Logistics Company, Turkey**
GÖÇMEN E., EROL R.
SUSTAINABILITY, vol.10, no.11, 2018 (SCI-Expanded)
- VIII. **Prediction of Attendance Demand in European Football Games: Comparison of ANFIS, Fuzzy Logic, and ANN**
ŞAHİN M., EROL R.
COMPUTATIONAL INTELLIGENCE AND NEUROSCIENCE, 2018 (SCI-Expanded)
- IX. **A multi-agent based approach to dynamic scheduling with flexible processing capabilities**
ŞAHİN C., Demirtas M., EROL R., Baykasoglu A., Kaplanoglu V.
JOURNAL OF INTELLIGENT MANUFACTURING, vol.28, no.8, pp.1827-1845, 2017 (SCI-Expanded)
- X. **A New Dynamic Pricing Model for the Effective Sustainability of Perishable Product Life Cycle**
Tekin P., EROL R.
SUSTAINABILITY, vol.9, no.8, 2017 (SCI-Expanded)
- XI. **PSO based approach for scheduling NPD projects including overlapping process**
Koyuncu E., EROL R.
COMPUTERS & INDUSTRIAL ENGINEERING, vol.85, pp.316-327, 2015 (SCI-Expanded)
- XII. **A mathematical programming model for reconfiguration of flexible manufacturing cells**

- YILMAZ E., EROL R.
ENGINEERING OPTIMIZATION, vol.47, no.2, pp.184-203, 2015 (SCI-Expanded)
- XIII. **Comparison of the neural network model and linear regression model for predicting the intermingled yarn breaking strength and elongation**
ÖZKAN İ., KUVVETLİ Y., Baykal P. D., EROL R.
JOURNAL OF THE TEXTILE INSTITUTE, vol.105, no.11, pp.1203-1211, 2014 (SCI-Expanded)
- XIV. **A multi-agent based approach to dynamic scheduling of machines and automated guided vehicles in manufacturing systems**
EROL R., ŞAHİN C., Baykasoglu A., Kaplanoglu V.
APPLIED SOFT COMPUTING, vol.12, no.6, pp.1720-1732, 2012 (SCI-Expanded)
- XV. **A MULTI-AGENT FRAMEWORK FOR LOAD CONSOLIDATION IN LOGISTICS**
Baykasoglu A., Kaplanoglu V., EROL R., ŞAHİN C.
TRANSPORT, vol.26, no.3, pp.320-328, 2011 (SCI-Expanded)
- XVI. **An Optimization Model for Locating and Sizing Emergency Medical Service Stations**
COSKUN N., EROL R.
JOURNAL OF MEDICAL SYSTEMS, vol.34, no.1, pp.43-49, 2010 (SCI-Expanded)
- XVII. **Optimal Resource Allocation Model to Mitigate the Impact of Pandemic Influenza: A Case Study for Turkey**
KOYUNCU M., EROL R.
JOURNAL OF MEDICAL SYSTEMS, vol.34, no.1, pp.61-70, 2010 (SCI-Expanded)
- XVIII. **New lot sizing heuristics for demand and price uncertainties with service-level constraint**
ŞENYİĞİT E., EROL R.
INTERNATIONAL JOURNAL OF PRODUCTION RESEARCH, vol.48, no.1, pp.21-44, 2010 (SCI-Expanded)
- XIX. **Fuzzy programming for optimal product mix decisions based on expanded ABC approach**
KARAKAS E., KOYUNCU M., EROL R., KOKANGÜL A.
INTERNATIONAL JOURNAL OF PRODUCTION RESEARCH, vol.48, no.3, pp.729-744, 2010 (SCI-Expanded)
- XX. **Neural Network-Based Computer-Aided Diagnosis in Classification of Primary Generalized Epilepsy by EEG Signals**
Ogulata S. N., ŞAHİN C., EROL R.
JOURNAL OF MEDICAL SYSTEMS, vol.33, no.2, pp.107-112, 2009 (SCI-Expanded)
- XXI. **Multiple Response Optimisation of the Staple-Yarn Production Process for Hairiness, Strength and Cost**
EROL R., Sagbas A.
FIBRES & TEXTILES IN EASTERN EUROPE, vol.17, no.5, pp.40-42, 2009 (SCI-Expanded)
- XXII. **A radial basis function neural network model for classification of epilepsy using EEG signals**
ASLAN K., BOZDEMİR H., ŞAHİN C., Ogulata S. N., EROL R.
JOURNAL OF MEDICAL SYSTEMS, vol.32, no.5, pp.403-408, 2008 (SCI-Expanded)
- XXIII. **A neural network-based classification model for partial epilepsy by EEG signals**
ŞAHİN C., Ogulata S. N., ASLAN K., BOZDEMİR H., EROL R.
INTERNATIONAL JOURNAL OF PATTERN RECOGNITION AND ARTIFICIAL INTELLIGENCE, vol.22, no.5, pp.973-985, 2008 (SCI-Expanded)
- XXIV. **A Radial Basis Function Neural Network (RBFNN) approach for structural classification of thyroid diseases**
EROL R., Ogulata S. N., ŞAHİN C., ALPARSLAN Z. N.
JOURNAL OF MEDICAL SYSTEMS, vol.32, no.3, pp.215-220, 2008 (SCI-Expanded)
- XXV. **Prediction of strength and elongation properties of cotton/polyester-blended OE rotor yarns**
Baykal P., Babaarslan O., Erol R.
FIBRES & TEXTILES IN EASTERN EUROPE, vol.14, no.1, pp.18-21, 2006 (SCI-Expanded)

Articles Published in Other Journals

- I. **Esnek Üretim Sistemlerinin Dinamik Çizelgelenmesi için Çoklu Etmen Yaklaşımı ve Yönlendirme Kurallarının Karşılaştırılması**
Şahin C., Erol R.
Çukurova Üniversitesi Mühendislik Fakültesi dergisi, vol.38, no.1, pp.61-71, 2023 (Peer-Reviewed Journal)
- II. **Capacity Optimization in Dynamically Routing Computer Network Systems**
Uncu N., EROL R.
TEHNICKI GLASNIK-TECHNICAL JOURNAL, vol.16, no.1, pp.23-32, 2022 (ESCI)
- III. **Kapalı Döngü Üretim Rotalama Problemi için Bir Karar Destek Sistemi Önerisi**
KUVVETLİ Y., EROL R.
Çukurova Üniversitesi Mühendislik-Mimarlık Fakültesi Dergisi, vol.35, no.2, pp.333-344, 2020 (Peer-Reviewed Journal)
- IV. **THE TRANSITION TO INDUSTRY 4.0 IN ONE OF THE TURKISH LOGISTICS COMPANY**
GÖÇMEN E., EROL R.
INTERNATIONAL JOURNAL OF 3D PRINTING TECHNOLOGIES AND DIGITAL INDUSTRY, vol.2, no.1, pp.76-85, 2018 (Peer-Reviewed Journal)
- V. **Location and Multi-Compartment Capacitated Vehicle Routing Problem for Blood Banking System**
GÖÇMEN E., EROL R.
INTERNATIONAL JOURNAL of ENGINEERING TECHNOLOGIES-IJET, vol.4, no.1, pp.1-12, 2018 (Peer-Reviewed Journal)
- VI. **A Comparative Study of Neural Networks and ANFIS for Forecasting Attendance Rate of Soccer Games**
ŞAHİN M., EROL R.
MATHEMATICAL AND COMPUTATIONAL APPLICATIONS, vol.22, no.4, 2017 (ESCI)
- VII. **A Dynamic Ticket Pricing Approach for Soccer Games**
ŞAHİN M., EROL R.
AXIOMS, vol.6, no.4, 2017 (ESCI)
- VIII. **Scheduling of Anesthesia Assistants in Hospitals**
KIRLI AKIN H., EROL R.
Journal of Current Researches on Health Sector, vol.7, no.1, pp.9-22, 2017 (Peer-Reviewed Journal)
- IX. **Ağaç Ürünleri Üreten Bir İşletmede Malzeme Taşıma Sisteminin Simülasyon Yaklaşımıyla İyileştirilmesi**
KUVVETLİ Y., EROL R.
Çukurova Üniversitesi Mühendislik-Mimarlık Fakültesi Dergisi, vol.32, no.1, pp.215-222, 2017 (Peer-Reviewed Journal)
- X. **A Mathematical Modeling Approach for Materials Requirements Planning in Remanufacturing**
EROL R., NAKIBOĞLU B. G.
Business and Economics Research Journal (BERJ), vol.8, no.1, pp.101-114, 2017 (Peer-Reviewed Journal)
- XI. **The Internal and External Customer Focused Process Improvement and the Performance Analysis Studies in Healthcare Systems**
Tekin P., EROL R.
JOURNAL OF INDUSTRIAL ENGINEERING AND MANAGEMENT-JIEM, vol.10, no.3, pp.407-430, 2017 (ESCI)
- XII. **Risk Analizi Bir Otomotiv Fabrikasında Gerçekleştirilen X Tipi Karar Matrisi Uygulaması**
TEKİN P., EROL R.
KSÜ Mühendislik Bilimleri Dergisi, vol.19, no.3, pp.91-98, 2016 (Peer-Reviewed Journal)
- XIII. **A Multi Agent Based Approach to Dynamic Scheduling of Machines and Automated Guided Vehicles AGV in Manufacturing Systems by Considering AGV Breakdowns**
KAPLANOĞLU V., ŞAHİN C., BAYKASOĞLU A., EROL R., EKİNCİ A., DEMİRTAŞ M.
International Journal of Engineering Research and Innovation, vol.7, no.2, pp.32-38, 2015 (Peer-Reviewed Journal)
- XIV. **A Multi-Agent Based Approach to Dynamic Scheduling of Machines and Automated Guided Vehicles**

(AGV) in Manufacturing Systems by Considering AGV Breakdowns

KAPLANOĞLU V., ŞAHİN C., BAYKASOĞLU A., EROL R., EKİNCİ A., DEMİRTAŞ M.

International Journal of Engineering Research & Innovation, no.7, pp.32-38, 2015 (Peer-Reviewed Journal)

- XV. **KARMA MODELLİ MONTAJ HATTI DENGEME VE İŞGÜCÜ ATAMA PROBLEMİ İÇİN YENİ BİR YAKLAŞIM**
KUVVETLİ Y., EROL R.
Ç.Ü Fen ve Mühendislik Bilimleri Dergisi, vol.28, no.3, pp.47-57, 2012 (Peer-Reviewed Journal)
- XVI. **Seçilmiş Pamuk/Poliester Karışımı Rotor İpliklerinde İplik Hatalarının Tahmin Edilmesi**
DURU BAYKAL P., BABAARSLAN O., EROL R.
Tekstil & Teknik Dergisi, vol.45, no.246, pp.262-268, 2005 (Peer-Reviewed Journal)
- XVII. **Montaj Hatlarının Değişen Koşullar Altında Yeniden Dengelenmesi**
YILMAZ E., EROL R.
ÇUKUROVA ÜNİVERSİTESİ MÜHENDİSLİK MİMARLIK FAKÜLTESİ DERGİSİ, vol.20, no.1, pp.213-227, 2005 (Peer-Reviewed Journal)
- XVIII. **Seçilmiş Pamuk/Poliester Karışımı Rotor İpliklerinde Düzgünsüzlüğün (%U) Tahmin Edilmesi**
DURU BAYKAL P., BABAARSLAN O., EROL R.
Tekstil & Teknik Dergisi, vol.43, no.244, pp.194-206, 2005 (Peer-Reviewed Journal)

Supported Projects

EROL R., GÖÇMEN E., KUVVETLİ Y., Project Supported by Higher Education Institutions, Kan Toplama ve Yönetiminde Envanter Rotalama Problemi: Bölgesel Bir Kan Bankasında Uygulama, 2015 - 2016

Metrics

Publication: 80

Citation (WoS): 320

Citation (Scopus): 444

H-Index (WoS): 11

H-Index (Scopus): 12