

## Assoc. Prof. DUYGU YILMAZ EROĞLU

### Personal Information

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### International Researcher IDs

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Publons / Web Of Science ResearcherID: AAH-1079-2021

ScopusID: 56120864000

Yoksis Researcher ID: 155486

### Education Information

Doctorate, Bursa Uludağ University, FEN BİLİMLERİ ENSTİTÜSÜ, Endüstri Mühendisliği (Dr), Turkey 2008 - 2014

Postgraduate, Bursa Uludağ University, FEN BİLİMLERİ ENSTİTÜSÜ, Endüstri Mühendisliği (YI) (Tezli), Turkey 2000 - 2003

Undergraduate, Bursa Uludağ University, MÜHENDİSLİK FAKÜLTESİ, Endüstri Mühendisliği Bölümü, Turkey 1995 - 1999

### Research Areas

Industrial Engineering

### Academic Titles / Tasks

Research Assistant PhD, Bursa Uludağ University, MÜHENDİSLİK FAKÜLTESİ, ENDÜSTRİ MÜHENDİSLİĞİ, 2009 - 2018

### Courses

Operations Research II, Undergraduate, 2017 - 2018

İnsan Kaynakları Yönetimi, Undergraduate, 2017 - 2018

Operations Research I, Undergraduate, 2017 - 2018

Applied Data Mining, Undergraduate, 2017 - 2018

Verimlilik ve Değer Analizi, Undergraduate, 2017 - 2018

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

- I. An Adapted Ant Colony Optimization for Feature Selection**  
YILMAZ EROĞLU D., Akcan U.  
APPLIED ARTIFICIAL INTELLIGENCE, vol.38, no.1, 2024 (SCI-Expanded)
- II. Simulated Annealing Algorithm and Implementation Software for Fabric Cutting Problem**  
YILMAZ EROĞLU D., ORBAK A. Y.  
TEKSTİL VE KONFEKSİYON, vol.30, no.1, pp.10-19, 2020 (SCI-Expanded)

- III. **Systematization, Implementation and Analysis of the Overall Throughput Effectiveness Calculation for the Finishing Processes after Weaving**  
YILMAZ EROĞLU D.  
TEKSTİL VE KONFEKSİYON, vol.29, no.2, pp.121-132, 2019 (SCI-Expanded)
- IV. **A novel Hybrid Genetic Local Search Algorithm for feature selection and weighting with an application in strategic decision making in innovation management**  
Yılmaz Eroğlu D., Kılıç K.  
INFORMATION SCIENCES, vol.405, pp.18-32, 2017 (SCI-Expanded)
- V. **Genetic algorithm with local search for the unrelated parallel machine scheduling problem with sequence-dependent set-up times**  
Yılmaz Eroğlu D., Özmütlu H. C., Özmütlu S.  
INTERNATIONAL JOURNAL OF PRODUCTION RESEARCH, vol.52, no.19, pp.5841-5856, 2014 (SCI-Expanded)
- VI. **MIP Models and Hybrid Algorithms for Simultaneous Job Splitting and Scheduling on Unrelated Parallel Machines**  
YILMAZ EROĞLU D., ÖZMUTLU H. C.  
SCIENTIFIC WORLD JOURNAL, 2014 (SCI-Expanded)
- VII. **Introducing the MCHF/OVRP/SDMP: Multicapacitated/Heterogeneous Fleet/Open Vehicle Routing Problems with Split Deliveries and Multiproducts**  
YILMAZ EROĞLU D., ÇAĞLAR GENÇOSMAN B., ÇAVDUR F., ÖZMUTLU H. C.  
SCIENTIFIC WORLD JOURNAL, 2014 (SCI-Expanded)
- VIII. **A GENETIC ALGORITHM FOR THE UNRELATED PARALLEL MACHINE SCHEDULING PROBLEM WITH JOB SPLITTING AND SEQUENCE-DEPENDENT SETUP TIMES - LOOM SCHEDULING**  
YILMAZ EROĞLU D., ÖZMUTLU H. C., KOKSAL S. A.  
TEKSTİL VE KONFEKSİYON, vol.24, no.1, pp.66-73, 2014 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Evaluation of Risk Factors Causing Occupational Accidents in the Textile Sector Using Data Mining Methods**  
Tunçman B., GÜNDÜZ T., YILMAZ EROĞLU D.  
Avrupa Bilim ve Teknoloji Dergisi, vol.53, no.1, pp.84-96, 2024 (Peer-Reviewed Journal)
- II. **Lastik Jant Birleştirme Operasyonu İçin Dış Kaynak Kullanım Kararı Benzetim Modeli**  
YILMAZ EROĞLU D.  
Uludağ Üniversitesi Mühendislik Fakültesi Dergisi, vol.25, 2020 (Peer-Reviewed Journal)
- III. **Giriş Kalite Kontrol Sürecinde Kabul-Ret Kararı Destek Sistemi**  
YILMAZ EROĞLU D.  
Gazi Üniversitesi Fen Bilimleri Dergisi Part C: Tasarım ve Teknoloji, vol.7, no.3, pp.576-590, 2019 (Peer-Reviewed Journal)
- IV. **A Multi-Capacity Integrated Vehicle Routing and Loading Model for Pickup Milk Run**  
YILMAZ EROĞLU D., Cagliano A. C., Rafele C.  
International Journal of Mechanics and Control, vol.18, no.2, pp.107-121, 2017 (Scopus)
- V. **Çoklu Ürün İçeren Seri Alt Sistem İçin Toplam Etkinliğin Hesaplanması**  
YILMAZ EROĞLU D.  
Journal of Current Researches on Engineering, Science and Technology, vol.3, no.2, pp.19-32, 2017 (Peer-Reviewed Journal)

## Books & Book Chapters

- I. **HYBRID ALGORITHMSMIP MODELS FOR UNRELATED PARALLEL MACHINE SCHEDULING**

YILMAZ EROĞLU D.

LAP LAMBERT Academic Publishing, Saarbrücken, 2015

## Refereed Congress / Symposium Publications in Proceedings

- I. **Improved Hybrid Genetic-Local Search Algorithm for Simultaneous Feature Selection and Weighting**  
ÇAĞLAR GENÇOSMAN B., YILMAZ EROĞLU D., Beğen M.  
Yazılım 2013, Bursa, Turkey, 27 - 28 September 2013, pp.4
- II. **Malzeme Lojistiği İçin Geliştirilen Matematiksel Model ve Hibrit Algoritma**  
YILMAZ EROĞLU D.  
YA/EM 2018 (38. Yöneylem Araştırması ve Endüstri Mühendisliği Kongresi), Eskişehir, Turkey, 26 - 29 June 2018, pp.33
- III. **Capacity Planning for Support Parts for Pipe Production**  
GÜLERYÜZ E., YILDIZ P., KAYA G., YILMAZ EROĞLU D., GÜNDÜZ T.  
International Conference on Applied Mathematics in Engineering, Balıkesir, Turkey, 27 - 29 June 2018, pp.91
- IV. **Determining the importance levels for each process in overall throughput effectiveness calculation using hybrid evolutionary algorithm**  
YILMAZ EROĞLU D.  
Global Joint Conference on Industrial Engineering and It's Application Areas GJCIE, Nevşehir, Turkey, 21 - 22 June 2018, pp.11
- V. **A Method for Determining the Most Important Innovation Factors**  
YILMAZ EROĞLU D.  
International Conference on Engineering Technology, Computer, Basic Applied Sciences (ECBA- 2016), İstanbul, Turkey, 13 - 14 October 2016, pp.14
- VI. **A Case Study on Global Supply Chain Management: Smart Method In Simulation Model**  
YILMAZ EROĞLU D.  
International Conference On Advances In Science ICAS 2016, İstanbul, Turkey, 31 August - 02 September 2016, pp.202
- VII. **OEE Approach In Textile Industry A Case Study in Finishing Of Weaving Process**  
YILMAZ EROĞLU D., ORBAK A. Y.  
International Conference On Advances In Science ICAS 2016, İstanbul, Turkey, 31 August - 02 September 2016
- VIII. **Outsourcing Decision in an Automobile Assembly Plant Simulation Model for Tire Rim Assembly**  
YILMAZ EROĞLU D.  
International Conference on Advances in Science ICAS 2016, İstanbul, Turkey, 31 August - 02 September 2016, pp.201
- IX. **Cutting Algorithm for Weaving Process of Textile Industry**  
YILMAZ EROĞLU D., ORBAK A. Y.  
International Conference On Advances In Science ICAS 2016, İstanbul, Turkey, 31 August - 02 September 2016
- X. **Hybrid Method for Large Scale Scheduling Problem**  
YILMAZ EROĞLU D.  
Global Joint Conference on Industrial Engineering and its Application Areas, İstanbul, Turkey, 14 - 15 July 2016, pp.495
- XI. **MIP Model and Hybrid Heuristic Solution Method for Milkrun**  
YILMAZ EROĞLU D.  
Global Joint Conference on Industrial Engineering and its Application Areas, İstanbul, Turkey, 14 - 15 July 2016, pp.492
- XII. **Genetic Algorithm Based Hybrid Solution for Feature Selection**  
YILMAZ EROĞLU D., ÇAĞLAR GENÇOSMAN B.  
GJCIE 2016 - Proceedings of the Global Joint Conference on Industrial Engineering and Its Application Areas, İstanbul, Turkey, 14 July 2016

- XIII. **Comparison of dynamic scheduling approaches Predictive reactive scheduling vs Robust proactive scheduling in a generalized flowshop environment**  
ÇAĞLAR GENÇOSMAN B., YILMAZ EROĞLU D.  
GJCIE 2016 - Proceedings of the Global Joint Conference on Industrial Engineering and Its Application Areas, İstanbul, Turkey, 14 - 15 July 2016
- XIV. **Comparison of Neural Network and Wrapper Methods for Decision Making Acceptance of Fabrics in Quality Control Process**  
YILMAZ EROĞLU D., ÇAĞLAR GENÇOSMAN B.  
GJCIE 2016 - Proceedings of the Global Joint Conference on Industrial Engineering and Its Application Areas, 14 - 15 July 2016
- XV. **Dynamic scheduling of generalized flowshop problems using mathematical programming**  
ÇAĞLAR GENÇOSMAN B., YILMAZ EROĞLU D.  
GJCIE 2016 - Proceedings of the Global Joint Conference on Industrial Engineering and Its Application Areas, İstanbul, Turkey, 14 - 15 July 2016
- XVI. **A Hybrid Classification Method Based on Genetic Algorithm, Local Search and k-Nearest Neighbor**  
YILMAZ EROĞLU D., KILIÇ K.  
International Conference on Applied Analysis and Mathematical Modeling (ICAAMM 2015), İstanbul, Turkey, 8 - 12 June 2015, pp.95
- XVII. **Simultaneous Routing and Loading Method for Milk-Run Using Hybrid Genetic Search Algorithm**  
YILMAZ EROĞLU D., Rafele C., Cagliano A. C., Murat S. S., Ippolito M.  
The 12th International Logistics and Supply Chain Congress, İstanbul, Turkey, 30 - 31 October 2014, pp.48-57
- XVIII. **Improved MIP Model for Parallel Machines' Scheduling Problem**  
YILMAZ EROĞLU D., ÖZMUTLU H. C.  
International Congress in Honour of Professor Ravi P. Agarwal, Bursa, Turkey, 23 - 26 June 2014, pp.54
- XIX. **Combined use of Constraint Programming and Mixed Integer Programming: A case study in Stamping Scheduling.**  
ÇAĞLAR GENÇOSMAN B., YILMAZ EROĞLU D., Beğen M.  
INTERNATIONAL CONFERENCE on BUSINESS, MANAGEMENT, ECONOMICS and FINANCE, 4 - 05 October 2013
- XX. **Performance comparison between Character N-gram and Levenshtein edit-distance for automatic topic identification in search engines**  
ÇAĞLAR GENÇOSMAN B., YILMAZ EROĞLU D., ÖZMUTLU H. C.  
International Software Conference and Exhibition, 27 - 28 September 2013
- XXI. **Simultaneous feature selection and weighting: A new approach based on genetic algorithm with local search**  
YILMAZ EROĞLU D., KILIÇ K., ÖZMUTLU H. C.  
International IIE Conference, İstanbul, Turkey, 26 - 28 June 2013, pp.56
- XXII. **Automatic New Topic Identification in Search Engine Transaction Log Using Goal Programming**  
ÇAVDUR F., ÖZMUTLU S., ÖZMUTLU H. C., YILMAZ EROĞLU D., ÇAĞLAR GENÇOSMAN B.  
Proceedings of the 2012 International Conference on Industrial Engineering and Operations Management, 3 - 06 July 2012
- XXIII. **Açık Uçlu Araç Rotalama Probleminde Genetik Algoritma Yaklaşımı**  
ÇAĞLAR GENÇOSMAN B., YILMAZ EROĞLU D., ÇAVDUR F., ÖZMUTLU S., ÖZMUTLU H. C.  
Yöneylem Araştırması ve Endüstri Mühendisliği 32. Ulusal Kongresi (YA/EM 2012), Turkey, 20 June 2012

## Supported Projects

Yılmaz Eroğlu D., TUBITAK Project, LEO SUSTAINABILITY - PROSES BAZINDA KARBON AYAK İZİ HESAPLANMASI VE AZALTILMASINA YÖNELİK YAZILIM GELİŞTİRİLMESİ, 2022 - 2023

Yılmaz Eroğlu D., TUBITAK Project, LEO SMART YARN LAB - LOOM (DOKUMA SÜRECİNDE İPLİK KAYNAKLI KOPUŞLARI AZALTMA YI HEDEFLEYEN KARAR DESTEK SİSTEMİ, 2019 - 2020

Orbak A. Y., Yılmaz Erođlu D., TUBITAK Project, Tekstil Saha Otomasyonu ve Üretim Verimliliđi Projesi, 2015 - 2017  
Yılmaz Erođlu D., Orbak A. Y., TUBITAK Project, Leo Opt Smart Projesi (Tekstilde kumaş topu kesme ve sarma problemi için karar destek algoritması), 2015 - 2016

## **Metrics**

Publication: 37  
Citation (WoS): 100  
Citation (Scopus): 130  
H-Index (WoS): 4  
H-Index (Scopus): 5

## **Non Academic Experience**

Tofaş A.Ş  
Farba A.Ş.  
Gökçelik Ltd. Şti.