

Assoc. Prof. ÖMER FARUK YILMAZ

Personal Information

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International Researcher IDs

ScholarID: BH1FAnkAAAAJ

ORCID: 0000-0002-6202-4011

Publons / Web Of Science ResearcherID: N-4085-2016

ScopusID: 56684241600

Yoksis Researcher ID: 189605



Education Information

2024 - 2024	Post Doctorate, University of Florida, Herbert Wertheim College of Engineering, Industrial and Systems Engineering, United States Of America
2016 - 2017	Doctorate, University of Florida, Herbert Wertheim College of Engineering, Industrial and Systems Engineering, United States Of America
2012 - 2017	Doctorate, Istanbul Technical University, İşletme, Endüstri Mühendisliği, Turkey
2011 - 2012	Postgraduate, Istanbul Technical University, İşletme, Endüstri Mühendisliği, Turkey
2006 - 2010	Undergraduate, Istanbul University, Mühendislik Fakültesi, Endüstri Mühendisliği, Turkey

Foreign Languages

English, C2 Mastery

Certificates, Courses and Trainings

2019	TÜBİTAK 2237-B "Mühendislik ve Teknolojik Bilimlerde Uygulamalı Proje Yazma Eğitimi", Other, TÜBİTAK
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Dissertations

2017	ÇİFT KAYNAK KISITLI HÜCRESEL ÜRETİM SİSTEMİNDE PARTİ VE ÇALIŞAN ÇİZELGELEME PROBLEMLERİ İÇİN BÜTÜNSEL BİR YÖNTEMBİLİM VE UYGULAMASI, Istanbul Technical University, Endüstri Mühendisliği, Endüstri Mühendisliği, Doctorate
2012	BEKLEYEN SİPARİŞ DURUMUNDA SÜREKLİ GÖZDEN GEÇİRMEYE DAYALI OLASILIKLI (R,Q) STOK KONTROL MODELİ VE DEPO YAPISI, Istanbul Technical University, Endüstri Mühendisliği, Endüstri Mühendisliği, Postgraduate

Research Areas

Industrial Engineering , Stochastic Modeling, Production Planning and Control, Supply Chain and Logistics Management, Engineering and Technology

Academic Titles / Tasks

2018 - Continues	Associate Professor, Karadeniz Technical University, Mühendislik Fakültesi, Endüstri Mühendisliği
2023 - 2024	Associate Professor, University of Florida, Herbert Wertheim College of Engineering, Industrial and Systems Engineering
2017 - 2018	Research Assistant, Yalova University, Faculty Of Engineering, Department Of Industrial Engineering
2016 - 2017	Researcher, University of Florida, Herbert Wertheim College of Engineering, Industrial and Systems Engineering
2011 - 2017	Research Assistant, Istanbul Technical University, İşletme, Endüstri Mühendisliği
2010 - 2011	Research Assistant, Yalova University, Faculty Of Engineering, Department Of Industrial Engineering

Courses

2024 - 2025	Facilities Planning and Materials Handling, Undergraduate
2023 - 2024	Tedarik Zinciri Yönetimi, Undergraduate
2023 - 2024	Malzeme Yönetimi, Undergraduate
2023 - 2024	Üretim Planlama ve Kontrol - II, Undergraduate
2023 - 2024	Üretim Planlama ve Kontrol-1, Undergraduate
2023 - 2024	Üretim Yönetimi Sistemleri, Postgraduate
2022 - 2023	Yalın Üretim Sistemleri, Undergraduate
2023 - 2024	Montaj Hattı Dengeleme, Undergraduate
2023 - 2024	Optimization Techniques in Manufacturing Systems, Postgraduate

Advising Theses

Continues	Yılmaz Ö. F., Özkök M., Doctorate, A.TÜRK(Student), Tersane Blok Montaj Üretim Sahasında Çoklu Becerilere Sahip İşçiler İçin Proje Çizelgeleme Problemi: Bir Vaka Çalışması
2023	Yılmaz Ö. F., Postgraduate, S.Usta(Student), Aksiyomatik Tasarım İlkeleriyle Enerji Sektöründe Yalın Uygulamalar
2023	Yılmaz Ö. F., Postgraduate, E.ÖKSÜZ(Student), DEMONTAJ HATTI DENGELEME PROBLEMLERİNİN ÇÖZÜMÜNDE OPTİMİZASYON TEMELLİ YAKLAŞIMLAR İÇİN BÜTÜNSEL BİR YÖNTEMBİLİM SUNULMASI
2020	Yılmaz Ö. F., Postgraduate, B.YAZICI(Student), ÇOK AMAÇLI DEMONTAJ HATTI DENGELEME PROBLEMLERİ VE ÇÖZÜM YAKLAŞIMLARI:ÇOK ÇALIŞANLI İSTASYONLARIN HETEROJEN ÇALIŞANLARLA DEĞERLENDİRİLMESİ

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Aggregated planning to solve multi-product multi-period disassembly line balancing problem by considering multi-manned stations: A generic optimization model and solution algorithms**
Yeni F. B., Çevikcan E., Yazıcı B., Yılmaz Ö. F.
COMPUTERS & INDUSTRIAL ENGINEERING, vol.196, pp.1-24, 2024 (SCI-Expanded)
- II. **Comparison of lot streaming division methodologies for multi-objective hybrid flowshop scheduling problem by considering limited waiting time**
Gürsoy Yılmaz B., Yılmaz Ö. F., Yeni F. B.
JOURNAL OF INDUSTRIAL AND MANAGEMENT OPTIMIZATION, vol.11, no.20, pp.3373-3414, 2024 (SCI-Expanded)

- III. **Lot streaming in workforce scheduling problem for seru production system under Shojinka philosophy**
GÜRSOY YILMAZ B., YILMAZ Ö. F., Çevikcan E.
COMPUTERS & INDUSTRIAL ENGINEERING, vol.185, 2023 (SCI-Expanded)
- IV. **An optimization-based methodology equipped with lean tools to strengthen medical supply chain resilience during a pandemic: A case study from Turkey**
YILMAZ Ö. F., YENİ F. B., GÜRSOY YILMAZ B., ÖZÇELİK G.
TRANSPORTATION RESEARCH PART E-LOGISTICS AND TRANSPORTATION REVIEW, vol.173, 2023 (SCI-Expanded)
- V. **Tactical level strategies for multi-objective disassembly line balancing problem with multi-manned stations: an optimization model and solution approaches**
YILMAZ Ö. F., Yazici B.
ANNALS OF OPERATIONS RESEARCH, vol.319, no.2, pp.1793-1843, 2022 (SCI-Expanded)
- VI. **Lot streaming in hybrid flowshop scheduling problem by considering equal and consistent sublots under machine capability and limited waiting time constraint**
Gürsoy Yılmaz B., Yılmaz Ö. F.
COMPUTERS & INDUSTRIAL ENGINEERING, vol.173, 2022 (SCI-Expanded)
- VII. **An integrated bi-objective U-shaped assembly line balancing and parts feeding problem: optimization model and exact solution method**
YILMAZ Ö. F.
ANNALS OF MATHEMATICS AND ARTIFICIAL INTELLIGENCE, vol.90, no.7-9, pp.679-696, 2022 (SCI-Expanded)
- VIII. **Ensuring sustainability in the reverse supply chain in case of the ripple effect: A two-stage stochastic optimization model**
Yılmaz Ö. F., Özçelik G., Yeni F. B.
JOURNAL OF CLEANER PRODUCTION, vol.282, 2021 (SCI-Expanded)
- IX. **Robust optimisation for ripple effect on reverse supply chain: an industrial case study**
Özçelik G., Yılmaz Ö. F., Yeni F. B.
INTERNATIONAL JOURNAL OF PRODUCTION RESEARCH, vol.59, no.1, pp.245-264, 2021 (SCI-Expanded)
- X. **Attaining flexibility in seru production system by means of Shojinka: An optimization model and solution approaches**
YILMAZ Ö. F.
COMPUTERS & OPERATIONS RESEARCH, vol.119, 2020 (SCI-Expanded)
- XI. **Lean holistic fuzzy methodology employing cross-functional worker teams for new product development projects: A real case study from high-tech industry**
Yılmaz Ö. F., Özçelik G., Yeni F. B.
EUROPEAN JOURNAL OF OPERATIONAL RESEARCH, vol.282, no.3, pp.989-1010, 2020 (SCI-Expanded)
- XII. **Examining additive manufacturing in supply chain context through an optimization model**
YILMAZ Ö. F.
COMPUTERS & INDUSTRIAL ENGINEERING, vol.142, 2020 (SCI-Expanded)
- XIII. **Operational strategies for seru production system: a bi-objective optimisation model and solution methods**
Yılmaz Ö. F.
INTERNATIONAL JOURNAL OF PRODUCTION RESEARCH, vol.58, no.11, pp.3195-3219, 2020 (SCI-Expanded)
- XIV. **MULTI-OBJECTIVE SCHEDULING PROBLEM FOR HYBRID MANUFACTURING SYSTEMS WITH WALKING WORKERS**
YILMAZ Ö. F., Durmuşoğlu M. B.
INTERNATIONAL JOURNAL OF INDUSTRIAL ENGINEERING-THEORY APPLICATIONS AND PRACTICE, vol.26, no.5, pp.625-650, 2019 (SCI-Expanded)
- XV. **A PERFORMANCE COMPARISON AND EVALUATION OF METAHEURISTICS FOR A BATCH SCHEDULING PROBLEM IN A MULTI-HYBRID CELL MANUFACTURING SYSTEM WITH SKILLED WORKFORCE ASSIGNMENT**
Yılmaz Ö. F., Durmuşoğlu M. B.

- JOURNAL OF INDUSTRIAL AND MANAGEMENT OPTIMIZATION, vol.14, no.3, pp.1219-1249, 2018 (SCI-Expanded)
- XVI. **Minimizing average lead time for the coordinated scheduling problem in a two-stage supply chain with multiple customers and multiple manufacturers**
Yilmaz Ö. F., PARDALOS P. M.
COMPUTERS & INDUSTRIAL ENGINEERING, vol.114, pp.244-257, 2017 (SCI-Expanded)
- XVII. **DETERMINATION OF MATERIAL HANDLING EQUIPMENT FOR LEAN IN-PLANT LOGISTICS USING FUZZY ANALYTICAL NETWORK PROCESS CONSIDERING RISK ATTITUDES OF THE EXPERTS**
Yilmaz Ö. F., Öztayşi B., Durmuşoğlu M. B., Öner S. C.
INTERNATIONAL JOURNAL OF INDUSTRIAL ENGINEERING-THEORY APPLICATIONS AND PRACTICE, vol.24, no.1, pp.81-122, 2017 (SCI-Expanded)
- XVIII. **Scheduling batches in multi hybrid cell manufacturing system considering worker resources: A case study from pipeline industry**
Yilmaz Ö. F., Çevikcan E., Durmuşoğlu M. B.
ADVANCES IN PRODUCTION ENGINEERING & MANAGEMENT, vol.11, no.3, pp.192-206, 2016 (SCI-Expanded)

Articles Published in Other Journals

- I. **Integrated multi-manned disassembly line balancing problem with reverse supply chain design strategies by considering lot sizing**
Öksüz E., Yilmaz Ö. F., Öksüz M. K., Gürsoy Yılmaz B.
JOURNAL OF INDUSTRIAL AND PRODUCTION ENGINEERING, pp.1-25, 2024 (ESCI)
- II. **Achieving tractable and reliable agriculture supply chain operations through Industry 4.0 tools to support Lean Six Sigma application**
Yeni F. B., Gürsoy Yılmaz B., Kayhan B. M., Özçelik G., Yilmaz Ö. F.
International Journal of Industrial Engineering and Operations Management, pp.1-30, 2024 (Peer-Reviewed Journal)
- III. **Application of Statistical Quality Control Methods in a Textile Manufacturing Company**
YILMAZ Ö. F.
Gazi Üniversitesi Fen Bilimleri Dergisi Part C: Tasarım ve Teknoloji, vol.11, no.2, pp.367-378, 2023 (Peer-Reviewed Journal)
- IV. **Robust optimization for U-shaped assembly line worker assignment and balancing problem with uncertain task times**
Yilmaz Ö. F.
CROATIAN OPERATIONAL RESEARCH REVIEW, vol.11, no.2, pp.229-239, 2020 (ESCI)
- V. **Assembly line balancing by using axiomatic design principles: An application from cooler manufacturing industry**
Yilmaz Ö. F., Demirel O. F., Zaim S., Sevim S.
International Journal of Production Management and Engineering, vol.8, no.1, pp.31-43, 2020 (ESCI)
- VI. **AN INTEGER PROGRAMMING MODEL FOR DISASSEMBLY SYSTEM CONFIGURATION**
YILMAZ Ö. F.
SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES-SIGMA MUHENDISLIK VE FEN BILIMLERI DERGISI, vol.37, no.3, pp.813-825, 2019 (ESCI)
- VII. **Sanal Hücresel Üretim Sistemi İçin Üretim Kontrol Sisteminin Belirlenmesi**
YILMAZ Ö. F.
Gazi Üniversitesi Fen Bilimleri Dergisi Part C: Tasarım ve Teknoloji, vol.6, no.3, pp.644-658, 2018 (Peer-Reviewed Journal)

Books & Book Chapters

- I. **A Hesitant Fuzzy AHP: Material Handling Equipment Selection for Manufacturing Systems Driven by Lean Principles**
Es H. A., Özçelik G., Yılmaz Ö. F.
in: Analytic Hierarchy Process with Fuzzy Sets Extensions, Cengiz Kahraman, Selçuk Çebi, Editor, Springer Nature, Aarau, pp.177-200, 2023
- II. **A Hesitant Fuzzy AHP: Material Handling Equipment Selection for Manufacturing Systems Driven by Lean Principles**
ES H. A., ÖZÇELİK G., YILMAZ Ö. F.
in: Analytic Hierarchy Process with Fuzzy Sets Extensions, Kahraman Cengiz, Çebi Selçuk, Editor, Springer International Publishing, pp.177-200, 2023
- III. **Developing a Customer Oriented Lean Production System Using Axiomatic Design and Fuzzy Value Stream Mapping**
YILMAZ Ö. F., ÖZÇELİK G., YENİ F. B.
in: Customer Oriented Product Design Intelligent and Fuzzy Techniques, Kahraman, Cengiz Cebi, Selçuk, Editor, Springer, pp.151-168, 2020
- IV. **Handbook of Research on Applied Optimization Methodologies in Manufacturing Systems**
Yılmaz Ö. F. (Editor)
IGI Global, Pennsylvania, 2018
- V. **An Integrated Methodology for Order Release and Scheduling in Hybrid Manufacturing Systems Considering Worker Assignment and Utility Workers**
YILMAZ Ö. F., DURMUŞOĞLU M. B.
in: Handbook of Research on Applied Optimization Methodologies in Manufacturing Systems, Yılmaz, Ömer Faruk Tüfekçi, Süleyman, Editor, IGI Global, pp.125-161, 2018
- VI. **Evolutionary algorithms for multi-objective scheduling in a hybrid manufacturing system**
YILMAZ Ö. F., DURMUŞOĞLU M. B.
in: Handbook of Research on Applied Optimization Methodologies in Manufacturing Systems, Yılmaz, Ömer Faruk Tüfekçi, Süleyman, Editor, IGI Global, pp.162-187, 2018
- VII. **Effective Applications of Optimization Methods in the Manufacturing Environment in Turkey**
YILMAZ Ö. F., ERBİYİK H.
in: Comparative Economics and Regional Development in Turkey, Christiansen, Bryan Erdoğan, M. Mustafa, Editor, IGI Global, pp.319-335, 2016

Refereed Congress / Symposium Publications in Proceedings

- I. **Viable Medical Supply Chains: A Comprehensive Literature Review**
Gürsoy Yılmaz B., Yılmaz Ö. F.
International Conference on Multidisciplinary Sciences and Technological Developments (ICMUSTED), Erzurum, Turkey, 13 - 15 December 2024, pp.182-188
- II. **Robust Optimization Model for Resilient Medical Supply Chain Network Design Under Demand Uncertainty**
Yılmaz Ö. F., Gürsoy Yılmaz B.
International Conference on Multidisciplinary Sciences and Technological Developments (ICMUSTED), Erzurum, Turkey, 13 - 15 December 2024, pp.189-196
- III. **Kentsel Lojistikte Son Kilometre Teslimatı: Kargo Otomatları İçin Stratejik Konumlandırma Çalışması**
Yılmaz Ö. F., Baştan B., Uçar E., Gencel D. B., Yeni F. B.
43. Yöneylem Araştırması ve Endüstri Mühendisliği Kongresi, Trabzon, Turkey, 2 - 04 October 2024, pp.118
- IV. **Yalın Üretim Yaklaşımının İşletme Verimliliği Ve Kalitesine Katkısı: Bir Sanayi Kuruluşunda Uygulama**
Yılmaz Ö. F., Yücel S., Altıkat B., Güner C., Tatar E., Yeni F. B.
43. Yöneylem Araştırması ve Endüstri Mühendisliği Kongresi, Trabzon, Turkey, 2 - 04 October 2024, pp.194
- V. **Optimizing Workforce and Sub-Lot Scheduling in Seru Production Systems**

Gürsoy Yılmaz B., Çevikcan E., Yılmaz Ö. F.

International Conference on Engineering, Natural Sciences, and Technological Developments (ICENSTED 2024), Balıkesir, Turkey, 19 - 21 July 2024, pp.245-253

- VI. **Yalın Prensipleri Dikkate Alarak Hastane Süreçleri İçin Bir Süreç Madenciliği Uygulaması**
YILMAZ Ö. F., YILMAZ A., YANMIŞ B.
3rd International Conference on Data Science and Applications (ICONDATA'20), 25 - 28 June 2020
- VII. **AUGMECON2 Method for a Bi-objective U-Shaped Assembly Line Balancing Problem**
YILMAZ Ö. F.
THE 14TH LEARNING AND INTELLIGENT OPTIMIZATION CONFERENCE - LION 14, 24 - 28 May 2020
- VIII. **A robust formulation for U-shaped assembly line balancing problem under task time uncertainty by considering worker skills**
YILMAZ Ö. F.
4th International Symposium on Innovative Approaches in Engineering and Natural Sciences Proceedings, 22 - 24 November 2019, vol.4, pp.28-31
- IX. **Modelling preventive maintenance policy for disassembly lines**
YILMAZ Ö. F.
IV. ULUSLARARASIBİLİMSEL VE MESLEKİÇALIŞMALAR KONGRESİ – MÜHENDİSLİK(BILMES EN 2019 - ANKARA) -
IV. INTERNATIONALSCIENTIFIC AND VOCATIONALSTUDIES CONGRESS – ENGINEERING, Turkey, 7 - 10 October 2019, pp.362-367
- X. **Integrated fuzzy-based ANP-CODAS methodology for personnel selection problem under fuzzy environment**
ÖZÇELİK G., YENİ F. B., YILMAZ Ö. F.
The 12th International NCM Conference: New Challenges in Industrial Engineering and Operations Management (NCM2018), 11 - 12 September 2018, pp.60
- XI. **An integer programming model for disassembly system configuration**
YILMAZ Ö. F., ÖZÇELİK G., YENİ F. B.
The 12th International NCM Conference: New Challenges in Industrial Engineering and Operations Management (NCM2018), 11 - 12 September 2018, pp.37
- XII. **Design of material handling equipment for in-cell logistics using fuzzy DSM**
YENİ F. B., YILMAZ Ö. F., ÖZÇELİK G.
The 12th International NCM Conference: New Challenges in Industrial Engineering and Operations Management (NCM2018), 11 - 12 September 2018, pp.61
- XIII. **A new scheduling problem for hybrid cellular manufacturing systems in dual resource constrained environments**
YILMAZ Ö. F., DURMUŞOĞLU M. B.
28th European Conference on Operational Research - Euro 2016, 3 - 06 July 2016, pp.197
- XIV. **Hybrid metaheuristic algorithm for a new scheduling problem in hybrid manufacturing environment**
YILMAZ Ö. F., DURMUŞOĞLU M. B.
13th International Symposium on Operational Research (SOR '15), 23 - 25 September 2015, pp.116-122
- XV. **Hybrid of genetic and simulated annealing algorithm for permutation flow-shop scheduling problem**
YILMAZ Ö. F.
45th Annual Conference of the Italian Operations Research Society - AIRO 2015, 7 - 10 September 2015, pp.293
- XVI. **To define service level in an integrated model for warehouse and inventory planning by utilizing heuristic solution An example**
YILMAZ Ö. F., BASKAK M., ERBIYIK H.
5th International Conference on Industrial Engineering and Operations Management - IEOM 2015, Dubai, United Arab Emirates, 3 - 05 March 2015
- XVII. **Bekleyen sipariş durumunda sürekli gözden geçirmeye dayalı olasılıklı (R,Q) stok kontrol modeli ve depo yapısı**
YILMAZ Ö. F., BASKAK M.
12. Üretim Araştırmaları Sempozyumu, Turkey, 27 - 29 September 2012

- XVIII. **Service level within an integrated model for warehouse and inventory planning**
YILMAZ Ö. F., BASKAK M., ERBIYIK H., BUDAK A.
3rd International Conference on Industrial Engineering Operations Management - IEOM 2012, 3 - 06 July 2012, pp.684-692
- XIX. **An evaluation of energy alternatives for Turkey via fuzzy multicriteria approach**
TURAN H. H., BAL A., YILMAZ Ö. F., GÜNGÖR C., ERBIYIK H.
Technology Management In The Energy-Smart World - PICMET '11, 31 July - 04 August 2011

Supported Projects

2024 - 2024	Belirsizliklere Karşı Tedarik Zinciri Direnci Oluşturmaya Yönelik Bir Yöntembilim Geliştirilmesi, TUBITAK Project
2023 - 2023	Ambalaj Sanayinde Yalın Üretim Uygulaması, Development Agency
2023 - 2023	Yalın Üretim Tekniklerinin Tek Parça Akışı Sağlamaya Yönelik Uygulama Danışmanlığı, Development Agency
2023 - 2023	Yalın Üretim Teknikleri Eğitimi ve Danışmanlığı, Development Agency
2023 - 2023	Toplam Üretken Bakım Yöntemlerini Uygulayarak Kaynak Verimliliğini Arttırma Eğitimi ve Danışmanlığı, Development Agency
2021 - 2022	Demontaj hattı dengeleme problemlerinin çözümünde optimizasyon temelli yaklaşımlar için bütünsel bir yöntembilim sunulması, Project Supported by Higher Education Institutions
2021 - 2022	A Methodology Proposal to Ensure the Sustainability of Healthcare Supply Chains in the Case of the COVID19 Outbreak and Other Potential Outbreaks, Project Supported by Higher Education Institutions

Mobility Activity

2024 - Continues	Other, Guest Researcher, University of Florida, United States Of America
2016 - 2017	Other, Research During Graduate Education, University of Florida, United States Of America

Metrics

Publication: 51
Citation (WoS): 461
Citation (Scopus): 525
H-Index (WoS): 14
H-Index (Scopus): 15

Awards

March 2015	En İyi Bildiri Ödülü, Industrial Engineering And Operations Management Society
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