

## Assoc. Prof. ÖMER FARUK YILMAZ

### Personal Information

Office Phone: [+90 462 377 2950](tel:+904623772950)

Email: [omerfarukyilmaz@ktu.edu.tr](mailto:omerfarukyilmaz@ktu.edu.tr)

Web: <https://avesis.ktu.edu.tr/omerfarukyilmaz>

Address: KTÜ Endüstri Mühendisliği Bölümü Merkez Kampüs TRABZON



### Education Information

Doctorate, University of Florida, Engineering, Industrial and Systems Engineering, United States Of America 2016 - 2017

Doctorate, Istanbul Technical University, İşletme, Endüstri Mühendisliği, Turkey 2012 - 2017

Postgraduate, Istanbul Technical University, İşletme, Endüstri Mühendisliği, Turkey 2011 - 2012

Undergraduate, Istanbul University, Mühendislik Fakültesi, Endüstri Mühendisliği, Turkey 2006 - 2010

### Certificates, Courses and Trainings

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

### Dissertations

Doctorate, ÇİFT KAYNAK KISITLI HÜCRESEL ÜRETİM SİSTEMİNDE PARTİ VE ÇALIŞAN ÇİZELGELEME PROBLEMLERİ İÇİN BÜTÜNSEL BİR YÖNTEMBİLİM VE UYGULAMASI, Istanbul Technical University, Endüstri Mühendisliği, Endüstri Mühendisliği, 2017

Postgraduate, BEKLEYEN SİPARİŞ DURUMUNDA SÜREKLİ GÖZDEN GEÇİRMEYE DAYALI OLASILIKLI (R,Q) STOK KONTROL MODELİ VE DEPO YAPISI, Istanbul Technical University, Endüstri Mühendisliği, Endüstri Mühendisliği, 2012

### Research Areas

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

### Academic Titles / Tasks

Assistant Professor, Karadeniz Technical University, Mühendislik Fakültesi, Endüstri Mühendisliği, 2018 - Continues

Research Assistant, Yalova University, Faculty Of Engineering, Department Of Industrial Engineering, 2017 - 2018

Research Assistant, Istanbul Technical University, İşletme, Endüstri Mühendisliği, 2011 - 2017

Research Assistant, Yalova University, Faculty Of Engineering, Department Of Industrial Engineering, 2010 - 2011

## ADVISING 1 NESSES

Yılmaz Ö. F. , ÇOK AMAÇLI DEMONTAJ HATTI Dengeleme problemleri ve çözüm yaklaşımları:ÇOK ÇALIŞANLI İSTASYONLARIN HETEROJEN ÇALIŞANLARLA DEĞERLENDİRİLMESİ, Postgraduate, B.YAZICI(Student), 2020

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

- I. **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 (Journal Indexed in SCI)
- II. **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, 2021 (Journal Indexed in SCI)
- III. **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 (Journal Indexed in SCI)
- IV. **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, 2020 (Journal Indexed in SCI)
- V. **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 (Journal Indexed in SCI)
- VI. **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 (Journal Indexed in SCI)
- VII. **Examining additive manufacturing in supply chain context through an optimization model**  
YILMAZ Ö. F.  
COMPUTERS & INDUSTRIAL ENGINEERING, vol.142, 2020 (Journal Indexed in SCI)
- VIII. **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 (Journal Indexed in SCI)
- IX. **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 (Journal Indexed in SCI)
- X. **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 (Journal Indexed in SCI)
- XI. **Minimizing average lead time for the coordinated scheduling problem in a two-stage supply chain with multiple customers and multiple manufacturers**  
Yılmaz Ö. F. , PARDALOS P. M.

- COMPUTERS & INDUSTRIAL ENGINEERING, vol.114, pp.244-257, 2017 (Journal Indexed in SCI)
- XII. **DETERMINATION OF MATERIAL HANDLING EQUIPMENT FOR LEAN IN-PLANT LOGISTICS USING FUZZY ANALYTICAL NETWORK PROCESS CONSIDERING RISK ATTITUDES OF THE EXPERTS**  
Yilmaz Ö. F. , Öztaysi B., Durmuşoğlu M. B. , Öner S. C.  
INTERNATIONAL JOURNAL OF INDUSTRIAL ENGINEERING-THEORY APPLICATIONS AND PRACTICE, vol.24, no.1, pp.81-122, 2017 (Journal Indexed in SCI)
- XIII. **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 (Journal Indexed in SCI)

## Articles Published in Other Journals

- I. **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 (Journal Indexed in ESCI)
- II. **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 (Refereed Journals of Other Institutions)
- III. **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 (Journal Indexed in ESCI)
- IV. **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 (Other Refereed National Journals)

## Books & Book Chapters

- I. **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, Selcuk, Editor, Springer, pp.151-168, 2020
- II. **Handbook of Research on Applied Optimization Methodologies in Manufacturing Systems**  
Yilmaz Ö. F. (Editor)  
IGI Global, Pennsylvania, 2018
- III. **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, Yilmaz, Ömer Faruk Tüfekçi, Süleyman, Editor, IGI Global, pp.125-161, 2018
- IV. **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

V. **Effective Applications of Optimization Methods in the Manufacturing Environment in Turkey**

YILMAZ Ö. F., ERBIYIK H.

in: Comparative Economics and Regional Development in Turkey, Christiansen, Bryan Erdoğdu, M. Mustafa, Editor, IGI Global, pp.319-335, 2016

## **Refereed Congress / Symposium Publications in Proceedings**

- I. **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
- II. **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
- III. **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
- IV. **Modelling preventive maintenance policy for disassembly lines**  
YILMAZ Ö. F.  
IV. ULUSLARARASİBİLİMSEL VE MESLEKİÇALIŞMALAR KONGRESİ – MÜHENDİSLİK(BILMES EN 2019 - ANKARA) -  
IV. INTERNATIONALSCIENTIFIC AND VOCATIONALSTUDIES CONGRESS – ENGINEERING, Turkey, 7 - 10 October 2019, pp.362-367
- V. **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
- VI. **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
- VII. **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
- VIII. **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
- IX. **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
- X. **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
- XI. **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

**XII. 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

**XIII. 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

**XIV. 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

Yılmaz Ö. F. , Gürsoy Yılmaz B., Project Supported by Higher Education Institutions, Demontaj hattı dengeleme problemlerinin çözümünde optimizasyon temelli yaklaşımlar için bütünsel bir yöntem bilim sunulması, 2021 - 2022

Yılmaz Ö. F. , Gürsoy Yılmaz B., Project Supported by Higher Education Institutions, A Methodology Proposal to Ensure the Sustainability of Healthcare Supply Chains in the Case of the COVID19 Outbreak and Other Potential Outbreaks, 2021 - 2022

## Awards

Yılmaz Ö. F. , Baskak M., Erbiyik H., En İyi Bildiri Ödülü, Industrial Engineering And Operations Management Society, March 2015