

## Assoc. Prof. GÜL DİDEM BATUR SİR

### Personal Information

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### International Researcher IDs

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Publons / Web Of Science ResearcherID: [AAD-6304-2019](#)

ScopusID: [54788867400](#)

Yoksis Researcher ID: [42311](#)

### Education Information

Doctorate, Gazi University, Fen Bilimleri Enstitüsü, Endüstri Mühendisliği (Dr), Turkey 2009 - 2014

Postgraduate, Ihsan Dogramaci Bilkent University, Institute Of Engineering And Natural Sciences, Endüstri Mühendisliği (YI) (Tezli), Turkey 2006 - 2009

Undergraduate, Gazi University, Mühendislik Fakültesi, Endüstri Mühendisliği Bölümü, Turkey 2002 - 2006

### Dissertations

Doctorate, Hibrit esnek akış tipi robotik hücrelerde robot hareket dizisi belirleme ve çoklu parça çizelgeleme, Gazi University, Fen Bilimleri Enstitüsü, Endüstri Mühendisliği (Dr), 2014

Postgraduate, Multiple part-type scheduling in flexible robotic cells, Ihsan Dogramaci Bilkent University, Mühendislik Ve Fen Bilimleri Enstitüsü, Endüstri Mühendisliği (YI) (Tezli), 2009

### Research Areas

Industrial Engineering , Linear Programming, Heuristic Methods, Integer and Mixed Integer Programming, Production Planning and Control, Scheduling, Modelling and Analysis of Production Systems , Service Systems Modeling and Analysis, Engineering and Technology

### Academic Titles / Tasks

Associate Professor, Gazi University, Mühendislik Fakültesi, Endüstri Mühendisliği, 2021 - Continues

Assistant Professor, Gazi University, Mühendislik Fakültesi, Endüstri Mühendisliği, 2019 - 2021

Research Assistant, Gazi University, Mühendislik Fakültesi, Endüstri Mühendisliği, 2009 - 2019

### Academic and Administrative Experience

Deputy Head of Department, Gazi University, Mühendislik Fakültesi, Endüstri Mühendisliği, 2022 - Continues

## Courses

Scheduling, Undergraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020

Production Systems Analysis and Management, Undergraduate, 2022 - 2023, 2021 - 2022, 2019 - 2020, 2018 - 2019

Production Planning and Inventory Control, Undergraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019

Sağlık Sistemlerinde Yöneyem Araştırması, Postgraduate, 2022 - 2023, 2021 - 2022

Production Information Systems, Undergraduate, 2019 - 2020

## Advising Theses

Batur Sir G. D., ESNEK ROBOTİK HÜCRELERDE HIZ DEĞİŞTİRME FAALİYETLİ PARALEL MAKİNE ÇİZELGELEME, Postgraduate, İ.BATTI(Student), 2024

Batur Sir G. D., Yenilenebilir enerji portföyü optimizasyonu: Türkiye uygulaması, Postgraduate, B.ALTUNOĞLU(Student), 2024

Batur Sir G. D., Flow shop scheduling with rate modifying activity, Postgraduate, Y.KİREMİTÇİ(Student), 2023

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

- I. **Pain Treatment Evaluation in COVID-19 Patients with Hesitant Fuzzy Linguistic Multicriteria Decision-Making**  
BATUR SİR G. D., Sir E.  
JOURNAL OF HEALTHCARE ENGINEERING, vol.2021, 2021 (SCI-Expanded)
- II. **Evaluating treatment modalities in chronic pain treatment by the multi-criteria decision making procedure**  
Sir E., BATUR SİR G. D.  
BMC MEDICAL INFORMATICS AND DECISION MAKING, vol.19, no.1, 2019 (SCI-Expanded)
- III. **Assessment of development regions for financial support allocation with fuzzy decision making: A case of Turkey**  
BATUR SİR G. D., ÇALIŞKAN E.  
SOCIO-ECONOMIC PLANNING SCIENCES, vol.66, pp.161-169, 2019 (SCI-Expanded)
- IV. **Multi-Criteria Decision Making Using Axiomatic Design and Hesitant Fuzzy Linguistic Term Sets**  
BATUR SİR G. D.  
JOURNAL OF INTELLIGENT & FUZZY SYSTEMS, vol.35, no.3, pp.3581-3591, 2018 (SCI-Expanded)
- V. **Robot move sequence determining and multiple part-type scheduling in hybrid flexible flow shop robotic cells**  
Batur Sir G. D., Erol S., Karasan O.  
COMPUTERS & INDUSTRIAL ENGINEERING, vol.100, pp.72-87, 2016 (SCI-Expanded)
- VI. **Multiple part-type scheduling in flexible robotic cells**  
Batur G. D., Karasan O. E., Akturk M. S.  
INTERNATIONAL JOURNAL OF PRODUCTION ECONOMICS, vol.135, no.2, pp.726-740, 2012 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Acil servise başvuru sayısının zaman serisi analiz ve makine öğrenmesi yöntemleri ile tahmin edilmesine yönelik bir uygulama**  
ÇİFTÇİ S., BATUR SİR G. D.  
PAMUKKALE UNIVERSITY JOURNAL OF ENGINEERING SCIENCES-PAMUKKALE UNIVERSITESI MUHENDISLIK BILIMLERI DERGISI, vol.29, no.7, pp.667-679, 2023 (ESCI)

- II. **Multi Criteria Decision Making for the Selection of a New Hub Facility Location in Humanitarian Supply Chains**  
Batur Sir G. D., Çalışkan E.  
Uluslararası Mühendislik Araştırma ve Geliştirme Dergisi, vol.12, no.2, pp.520-528, 2020 (Peer-Reviewed Journal)
- III. **Hız Değişirme Faaliyetli Tek Makineli Çizelgeleme Problemi İçin En Kısa Yol Tabanlı Bir Çözüm Yöntemi**  
BATUR SİR G. D.  
Niğde Ömer Halisdemir Üniversitesi Mühendislik Bilimleri Dergisi, vol.8, no.2, pp.842-849, 2019 (Peer-Reviewed Journal)
- IV. **Supplier Selection via Axiomatic Design: An Application in Turkey for Baby Formula Production**  
BATUR G. D., ÖZYÖRÜK B.  
Bilişim Teknolojileri Dergisi, vol.11, no.2, pp.195-201, 2018 (Peer-Reviewed Journal)
- V. **Operations research in healthcare systems: Literature review of years 2007-2017**  
BATUR SİR G. D., EROL S.  
PAMUKKALE UNIVERSITY JOURNAL OF ENGINEERING SCIENCES-PAMUKKALE UNIVERSİTESİ MUHENDİSLİK BİLİMLERİ DERGISİ, vol.24, no.1, pp.153-166, 2018 (ESCI)
- VI. **Using Simulated Annealing for Flexible Robotic Cell Scheduling**  
BATUR SİR G. D., EROL S.  
GAZI UNIVERSITY JOURNAL OF SCIENCE, vol.29, no.3, pp.573-582, 2016 (ESCI)

## Books & Book Chapters

- I. **Bozulabilir Ürünlerde Sürdürülebilir Taşımacılığın Önemi**  
BATUR SİR G. D.  
in: Mühendislik Alanında Akademik Çalışmalar, ADNAN HAYALOĞLU, ABDURRAHMAN GÜNDAY, Editor, Gece Kitaplığı, pp.253-261, 2020
- II. **Industry 4.0: Is Your Country Ready?**  
EROL S., BATUR SİR G. D.  
in: Enterprise Business Management: A Handbook for Educators, Consultants, and Practitioners, ALPTEKİN ERKOLLAR, Editor, Tectum-ein Verlag in der Nomos Verlagsgesellschaft, Baden, pp.67-90, 2020

## Refereed Congress / Symposium Publications in Proceedings

- I. **A Mathematical Model for Permutational Flow Shop Scheduling Problem with Rate Modifying Activities**  
Batur Sir G. D., Çalışkan E.  
International Conference on Management Science and Engineering Management, Ankara, Turkey, 04 August 2022
- II. **Determining Factors on Length of Stay for COVID-19 Patients**  
Batur Sir G. D.  
International Conference on Recent Advances in Engineering and Technology, Barcelona, Spain, 23 May 2022
- III. **Hız Değişirme Faaliyeti ile Tek Makineli Çizelgeleme Problemi için Şebeke Tabanlı Bir Matematiksel Model**  
BATUR SİR G. D.  
EJONS 6th International Congress on Mathematics, Engineering, Natural and Medical Sciences, Adana, Turkey, 8 - 10 March 2019, pp.142-147
- IV. **Hibrit Robotik Hücrelerde Çoklu Parça Tipi Çizelgelemesi İçin Bir Matematiksel Model**  
BATUR SİR G. D., EROL S.  
MAS International European Congress on Mathematics, Engineering, Natural and Medical Sciences-III, Şanlıurfa, Turkey, 2 - 03 February 2019, pp.306-314

- V. **Surgery Types Related Operating Room Scheduling and Surgical Team Assignment**  
BATUR SİR G. D., EROL S.  
12th International NCMConferences: New Challenges in Industrial Engineering and Operations Management, Ankara, Turkey, 11 - 12 September 2018, pp.110-112
- VI. **Hub Facility Evaluation in Humanitarian Supply Chain using MULTIMOORA**  
Batur Sir G. D., Çalışkan E.  
12th International NCMConferences: New Challenges in Industrial Engineering and Operations Management, Ankara, Turkey, 11 - 12 September 2018
- VII. **Model Recommendation for Operating Room Scheduling and Surgeon Assignment**  
ÖNER N., BATUR G. D., EROL S.  
7th International Conference on Applied Analysis and Mathematical Modelling (ICAAM 2018), İstanbul, Turkey, 20 - 24 June 2018, pp.210
- VIII. **Evaluation of Development Regions in Turkey in Terms of IPA Supports Using Fuzzy PROMETHEE and Fuzzy MULTIMOORA**  
Batur G. D., Çalışkan E.  
The 5th International Fuzzy Systems Symposium (FUZZYSS'17), Ankara, Turkey, 14 - 15 October 2017
- IX. **Investigating the Predisposition of G20 Countries for Implementation of Industry 4.0**  
Balkan D., Batur G. D., Çalışkan E.  
The International Symposium for Production Research (ISPR) 2017, Vienna, Austria, 13 - 15 September 2017, pp.49-54
- X. **Simulation Modelling for Worker Assignment and Machine Scheduling in a Job Shop Environment A Case Study**  
Batur G. D., Çalışkan E.  
International Conference on Engineering and Natural Science (ICENS), Sarajevo, Bosnia And Herzegovina, 24 - 28 May 2016, pp.2139-2143
- XI. **Hibrit Esnek Akış Tipi Robotik Hücrelerde Robot Hareket Dizisi Belirleme ve Çoklu Parça Çizelgeleme**  
BATUR SİR G. D., EROL S., KARAŞAN O.  
35. Ulusal Yöneylem Araştırması ve Endüstri Mühendisliği (YAEM) Kongresi, Turkey, 9 - 11 September 2015
- XII. **The DEA and Fuzzy AHP Approach to Health Care Organizations Performances**  
DANESHVAR ROUYENDEGH B., BATUR G. D., SİR E., EROL S.  
11th International Conference on Data Envelopment Analysis, Samsun, Turkey, 27 - 30 June 2013, pp.351-357
- XIII. **Robotic Cell Scheduling In Hybrid Flexible Flow Shops**  
BATUR SİR G. D., EROL S.  
26th European Conference on Operational Research (EURO), Roma, Italy, 1 - 04 July 2013
- XIV. **Parallel Machine Scheduling Problem: An Application**  
BATUR G. D., EROL S.  
INFORMS 2012 Annual Meeting, Phoenix, United States Of America, 14 - 17 October 2012
- XV. **Robotic Cell Scheduling in Hybrid Flexible Flowshops**  
BATUR G. D., EROL S.  
INFORMS 2012 Annual Meeting, Phoenix, United States Of America, 14 - 17 October 2012
- XVI. **A Solution Approach For Multiple Part Type Scheduling in Robotic Cells**  
BATUR G. D., EROL S.  
INFORMS 2011 Annual Meeting, Charlottetown, Canada, 13 - 16 November 2011
- XVII. **İki Makineli Robotik Hücrelerde Çoklu Parça Tipi Çizelgemesi İçin Bir Tavlama Benzetimi Algoritması**  
BATUR G. D., EROL S., AKCAYOL M. A.  
11. Üretim Araştırmaları Sempozyumu (ÜAS), İstanbul, Turkey, 23 - 24 June 2011
- XVIII. **Multiple Part Type, 3 Parallel Machine Scheduling in Robotic Cells**  
BATUR G. D., EROL S.  
24th European Conference on Operational Research (EURO), Lizbon, Portugal, 11 - 14 July 2010
- XIX. **Esnek Robotik Hücrelerde Çoklu Parça Tipi Çizelgemesi**  
BATUR G. D., KARAŞAN O., AKTÜRK M. S.

## **Metrics**

Publication: 33

Citation (WoS): 87

Citation (Scopus): 100

H-Index (WoS): 5

H-Index (Scopus): 5