

## Assoc. Prof. SEREN ÖZMEHMET TAŞAN

### Personal Information

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### International Researcher IDs

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Publons / Web Of Science ResearcherID: CED-9096-2022

Yoksis Researcher ID: 109833

### Education Information

Doctorate, Dokuz Eylul University, Fen Bilimleri Enstitüsü, Endüstri Mühendisliği (Dr), Turkey 2001 - 2007

Postgraduate, Dokuz Eylul University, Fen Bilimleri Enstitüsü, Endüstri Mühendisliği (YI) (Tezli), Turkey 1998 - 2001

Undergraduate, Dokuz Eylul University, Mühendislik Fakültesi, Endüstri Mühendisliği Bölümü, Turkey 1994 - 1998

### Foreign Languages

English, C1 Advanced

### Dissertations

Doctorate, Solving simple and mixed-model assembly line balancing problems using hybrid meta-heuristic approaches, Dokuz Eylul University, Fen Bilimleri Enstitüsü, Endüstri Mühendisliği (Dr), 2007

Postgraduate, Integration of cell formation and analytic hierarchy process in a decision support system, Dokuz Eylul University, Fen Bilimleri Enstitüsü, Endüstri Mühendisliği (YI) (Tezli), 2001

### Research Areas

Industrial Engineering, Production Planning and Control, Ergonomics and Occupational Safety

### Academic Titles / Tasks

Assistant Professor, Dokuz Eylul University, Mühendislik Fakültesi, Endüstri Mühendisliği Bölümü, 2011 - Continues

Research Assistant, Dokuz Eylul University, Mühendislik Fakültesi, Endüstri Mühendisliği Bölümü, 1998 - 2011

### Academic and Administrative Experience

İsamer yönetim kurulu, Dokuz Eylul University, 2017 - 2022

### Courses

MSc Thesis, Postgraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014

BİTİRME PROJESİ, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014

Tedarik ve Servis Sistemleri, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2017 - 2018

Modern Üretim Sistemleri, Undergraduate, 2023 - 2024, 2022 - 2023

MSc Research, Postgraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014

Seminer, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014

Üretim Yönetimi, Undergraduate, 2023 - 2024

Forecasting and Time Series Analysis, Undergraduate, 2022 - 2023, 2021 - 2022, 2016 - 2017, 2015 - 2016

Üretim Planlama ve Kontrol, Undergraduate, 2022 - 2023, 2021 - 2022, 2017 - 2018, 2016 - 2017, 2015 - 2016

Üretim Yönetimi, Undergraduate, 2022 - 2023, 2021 - 2022, 2017 - 2018, 2016 - 2017, 2015 - 2016

Modern Üretim Sistemleri, Undergraduate, 2022 - 2023, 2021 - 2022

Performance Evaluation of Manufacturing Systems, Postgraduate, 2022 - 2023, 2021 - 2022

PhD Research, Doctorate, 2021 - 2022, 2017 - 2018, 2016 - 2017

PhD Thesis, Doctorate, 2021 - 2022, 2017 - 2018

İstatistik 1, Undergraduate, 2017 - 2018, 2016 - 2017, 2015 - 2016

MSc Seminar, Postgraduate, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014

Project Management, Postgraduate, 2017 - 2018, 2016 - 2017, 2015 - 2016

Forecasting and Time Series Analysis for Management, Postgraduate, 2017 - 2018, 2016 - 2017

Performance Analysis of Manufacturing Systems, Postgraduate, 2017 - 2018, 2016 - 2017

Statistical Management Techniques for Engineering Management, Postgraduate, 2016 - 2017

İstatistik 2, Undergraduate, 2016 - 2017, 2015 - 2016

Business Management and Organization, Postgraduate, 2015 - 2016

## Advising Theses

Özmehmet Taşan S., İşçi ve kobot atama ile işbirlikçi montaj hattının dengelenmesi, Postgraduate, P.BEKDEMİR(Student), 2022

Özmehmet Taşan S., Sürdürülebilirlik bakış açısıyla bir gösterge tabanlı sistematik ergonomik performans değerlendirme yaklaşımı, Doctorate, İ.SARBAT(Student), 2022

ÖZMEHMET TAŞAN S., A hybrid model for the assessment of ergonomic risk factors in logistics industry, Postgraduate, Ç.LAFCI(Student), 2021

ÖZMEHMET TAŞAN S., Integrated ergonomic risk assessment in the manufacturing industry, Postgraduate, M.GÖKPINAR(Student), 2019

ÖZMEHMET TAŞAN S., Servis sektöründe grup karar analizi yaklaşımı ile ergonomik risk değerlendirmesinin uygulaması, Postgraduate, E.GÜLER(Student), 2018

ÖZMEHMET TAŞAN S., Depoda elle sipariş toplama performansının geliştirilmesi: Bir vaka çalışması, Postgraduate, C.VATANSEVER(Student), 2017

ÖZMEHMET TAŞAN S., Havayolu endüstrisinde belirsizlik teorisi, Postgraduate, C.MURAL(Student), 2016

ÖZMEHMET TAŞAN S., Türkiye'de afet yönetimi için mühendislik yönetimi uygulamaları, Postgraduate, Y.EMRE(Student), 2015

ÖZMEHMET TAŞAN S., Çevresel olarak bilinçli üretim şirketlerinde çok kriterli sürdürülebilirlik değerlendirmesi: İçecek endüstrisinde bir vaka çalışması, Postgraduate, M.KILIÇ(Student), 2014

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

- I. **Measuring sustainable ergonomics: A hybrid multi-criteria perspective on ergonomics indicators**  
Sarbat İ., Özmehmet Taşan S.  
SUSTAINABLE DEVELOPMENT, vol.32, no.1, pp.1037-1068, 2024 (SSCI)
- II. **Interactive ergonomic risk mapping: a practical approach for visual management of workplace ergonomics**  
FELEKOĞLU B., ÖZMEHMET TAŞAN S.  
INTERNATIONAL JOURNAL OF OCCUPATIONAL SAFETY AND ERGONOMICS, vol.28, no.1, pp.45-61, 2022 (SSCI)
- III. **Ergonomics indicators: A proposal for sustainable process performance measurement in ergonomics**  
Sarbat İ., Özmehmet Taşan S.  
ERGONOMICS, vol.65, no.1, pp.3-38, 2022 (SCI-Expanded)
- IV. **A structural framework for sustainable processes in ergonomics**  
Sarbat İ., Özmehmet Taşan S.  
ERGONOMICS, vol.63, no.3, pp.346-366, 2020 (SCI-Expanded)
- V. **Modeling and solving assembly line design problems by considering human factors with a real-life application**  
BAYKASOĞLU A., ÖZMEHMET TAŞAN S., TAŞAN A. S., DEMİRKOL AKYOL Ş.  
HUMAN FACTORS AND ERGONOMICS IN MANUFACTURING & SERVICE INDUSTRIES, vol.27, no.2, pp.96-115, 2017 (SCI-Expanded)
- VI. **Ergonomic risk assessment for work-related musculoskeletal disorders: A systematic reactive / proactive integrated approach**  
FELEKOĞLU B., ÖZMEHMET TAŞAN S.  
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.32, no.3, pp.777-793, 2017 (SCI-Expanded)
- VII. **An integrated selection and scheduling for disjunctive network problems**  
ÖZMEHMET TAŞAN S., Gen M.  
COMPUTERS & INDUSTRIAL ENGINEERING, vol.65, no.1, pp.65-76, 2013 (SCI-Expanded)
- VIII. **A review of the current applications of genetic algorithms in assembly line balancing**  
ÖZMEHMET TAŞAN S., Tunali S.  
JOURNAL OF INTELLIGENT MANUFACTURING, vol.19, no.1, pp.49-69, 2008 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Otomotiv Sektöründe Bütünleşik Ergonomik Risk Değerlendirme Uygulaması**  
ÖZMEHMET TAŞAN S., FELEKOĞLU B.  
Balıkesir Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.21, no.1, pp.378-396, 2019 (Peer-Reviewed Journal)
- II. **Mapping Ergonomic Risks: An Application in an Electronics Manufacturer**  
FELEKOĞLU B., ÖZMEHMET TAŞAN S.  
Proelium, vol.8, no.2, pp.279-296, 2019 (Peer-Reviewed Journal)
- III. **A Case Study of Human Resource Allocation for Effective Hotel Management**  
Murakami K., ÖZMEHMET TAŞAN S., Gen M., Oyabu T.  
Industrial Engineering and Management Systems, vol.10, no.1, pp.54-64, 2011 (ESCI)
- IV. **A decision support system for cell formation**  
TUNALI S., Ozmehmet S.  
International Journal of Computer Applications in Technology, vol.17, no.2, pp.101-109, 2003 (Scopus)

## Books & Book Chapters

- I. **Modeling and Improvement of the Production System of a Company in the Automotive Industry with Simulation**

ÖZMEHMET TAŞAN S., Uğraş A.

in: Advances in Intelligent Manufacturing and Service System Informatics, Şen, Z., Uygun, Ö., Erden, C., Editor, Springer, Singapore, pp.107-117, 2023

**II. Developing an Optimization Model to Determine Fleet Size of Automated Guided Vehicle**

ÖZMEHMET TAŞAN S., ERDOĞAN D. E.

in: Science, Engineering Management and Information Technology, Mirzazadeh, A., Erdebili, B., Babae Tirkolae, E., Weber, G.W., Kar, A.K., Editor, Springer, Cham, pp.3-17, 2023

**III. Disaster Management: Initiating Emergency Response for Forest Fires**

ÖZMEHMET TAŞAN S., ERGENÇ Y. E.

in: New Global Perspectives on Industrial Engineering and Management, Mula Josefa, Barbastefano Rafael, Diaz-Madronero Manuel, Poler Raul, Editor, Springer, pp.203-2011, 2019

**IV. Investigating the Impact of Process Innovation over Profitability and Productivity: A Food Sector Application**

FELEKOĞLU B., ÖZMEHMET TAŞAN S.

in: New Global Perspectives on Industrial Engineering and Management, Mula Josefa, Barbastefano Rafael, Diaz-Madronero Manuel, Poler Raul, Editor, Springer, pp.13-20, 2019

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

**I. Modeling and Improvement of the Production System of a Company in the Automotive Industry with Simulation**

Uğraş A., Taşan S.

12th International Symposium on Intelligent Manufacturing and Service Systems, IMSS 2023, İstanbul, Turkey, 26 - 28 May 2023, pp.107-117

**II. BİR MONTAJ HATTI DENGEME PROBLEMİ İÇİN İŞÇİLERİN MOLA SÜRESİNİN HESAPLANMASI**

Özmehmet Taşan S., Bekdemir P.

28. Ulusal Ergonomi Kongresi, Eskişehir, Turkey, 14 - 16 October 2022, pp.0-1

**III. Developing an Optimization Model to Determine Fleet Size of Automated Guided Vehicle**

Özmehmet Taşan S., Erdoğan D. E.

International Conference on Science, Engineering Management and Information Technology (SEMIT 2022), Ankara, Turkey, 2 - 03 February 2022

**IV. Forecasting the innovation potential under uncertainty**

Seren O. T., Burcu F.

24th International Joint Conference on Industrial Engineering and Operations Management, IJCIEOM 2018, Lisbon, Portugal, 18 - 20 July 2018, vol.280, pp.115-125

**V. Forecasting**

ÖZMEHMET TAŞAN S., FELEKOĞLU B.

XXIV IJCIEOM, 18 - 20 July 2018

**VI. İş Güvenliği Bakış Açısıyla Fabrika İçi Malzeme Elleçleme Operasyonlarında Önerilen İyileştirmeler İçin Fizibilite Analizi**

ÖZMEHMET TAŞAN S.

II. International Symposium on Economics, Finance and Econometrics, 6 - 07 December 2018

**VII. BUFFER SPACE ALLOCATION FOR FAILURE PRONE PRODUCTION LINES CONSIDERING AVERAGE PROFITABILITY RATIO**

DABANLI T., ÖZMEHMET TAŞAN S., EREN AKYOL D.

I. INTERNATIONAL CONGRESS OF POLITICAL, ECONOMIC AND FINANCIAL ANALYSIS CONGRESS, 26 - 28 April 2018

**VIII. Developing a Framework for the Integration of Sustainability Indicators with Ergonomic Indicators**

Sarbat İ., Özmehmet Taşan S.

IEA 2018 - 20th International Ergonomics Association Congress, Florence, Italy, 26 - 30 August 2018

- IX. BUFFER DESIGN FOR FAILURE PRONE PRODUCTION LINES UNDER FINANCIAL CONSIDERATIONS**  
DABANLI T., ÖZMEHMET TAŞAN S., EREN AKYOL D.  
4th International Researchers, Statisticians And Young Statisticians Congress, 28 - 30 April 2018
- X. Determination of Customer Preferences Using Conjoint Analysis: An Application for Car Selection**  
Sarbat İ., Özmehmet Taşan S.  
IRSYSC 2018 - 4th International Researchers, Statisticians And Young Statisticians Congress, İzmir, Turkey, 28 - 30 April 2018
- XI. Developing a Systematic Approach For Reactive Ergonomic Risk Assessment In Order to Help the Diagnosis Process of Work-Related Musculoskeletal Disorders**  
Sarbat İ., Özmehmet Taşan S., Felekoğlu B.  
CIE 47 - 47th International Conference on Computers and Industrial Engineering, Lisbon, Portugal, 11 - 13 October 2017
- XII. Sustainability Assessment Framework to Effectively Manage Architectural Projects**  
ÖZMEHMET E., ÖZMEHMET TAŞAN S.  
International Joint Conference (IJC2017) ICIEOM-ADINGOR-IISE-AIM-ASEM, 6 - 07 July 2017
- XIII. Investigating the Impact of Process Innovation over Profitability and Productivity: A Food Sector Application**  
FELEKOĞLU B., ÖZMEHMET TAŞAN S.  
International Joint Conference - ICIEOM-ADINGOR-IISE-AIM-ASEM (IJC 2017), 6 - 07 July 2017
- XIV. Awareness on ergonomics within the occupational health and safety context**  
ÖZMEHMET TAŞAN S., FELEKOĞLU B.  
IRSYSC 2017 - 3rd International Researchers, Statisticians and Young Statisticians Congress, 24 - 26 May 2017
- XV. Evaluating Risk Factors Caused to Work-Related Musculoskeletal Disorders**  
Sarbat İ., Özmehmet Taşan S.  
IRSYSC 2017 - 3rd International Researchers, Statisticians and Young Statisticians Congress, Konya, Turkey, 24 - 26 May 2017
- XVI. Investigation of the companies' perspective on occupational health and safety culture in scope of joint health and safety agencies**  
ÖZMEHMET TAŞAN S., TUNALI B.  
International Conference on Advances and Innovations in Engineering (ICAIE), 10 - 12 May 2017
- XVII. Development and Implementation of Social Innovation**  
FELEKOĞLU B., ÖZMEHMET TAŞAN S.  
International Conference on Advances and Innovations in Engineering, 10 - 12 May 2017
- XVIII. Forecasting Domestic Airline Passenger Throughput In Uncertain Environment**  
MURAL C., ÖZMEHMET TAŞAN S.  
International Joint Conference - CIO-ICIEOM-IIE-AIM (IJC 2016), 13 - 15 July 2016
- XIX. Sustaining Ergonomics in Working Environment**  
FELEKOĞLU B., ÖZMEHMET TAŞAN S.  
8. International Conference on Safety and Health-TIOSH, 8 - 11 May 2016
- XX. Evaluating Perceptions on Executive Support in Project Management**  
FELEKOĞLU B., ÖZMEHMET TAŞAN S.  
Joint Conference of XXI International Conference on Industrial Engineering and Operations Management, XIX Congreso de Ingeniería de Organización, International IIE Conference 2015, 6 - 08 July 2015
- XXI. Integrated Framework for Sustainability Management in Project Environment**  
ÖZMEHMET TAŞAN S.  
Joint Conference of XXI International Conference on Industrial Engineering and Operations Management, XIX Congreso de Ingeniería de Organización, International IIE Conference 2015, 6 - 08 July 2015
- XXII. OTOMOBİL KABLO DEMETİ ÜRETİMİNDE ERGONOMİK RİSK FAKTÖRLERİNİ DİKKATE ALAN MONTAJ HATTI DENGELEME**  
BAYKASOĞLU A., DEMİRKOL AKYOL Ş., TAŞAN A. S., ÖZMEHMET TAŞAN S., Çimen T., Özen B., Aktaş N., Tarkı G., Boz O.

19. ULUSAL ERGONOMİ KONGRESİ, Balıkesir, Turkey, 27 - 29 September 2013, pp.801-808
- XXIII. **Balancing assembly lines by considering ergonomic risk factors a preliminary case study**  
BAYKASOĞLU A., DEMİRKOL AKYOL Ş., TAŞAN A. S., ÖZMEHMET TAŞAN S., Aktaş N., Özen B., Boz O., Tarki G., Çimen T.  
The International IIE Conference, İstanbul, Turkey, 26 - 28 June 2013
- XXIV. **Performance Evaluation in Sustainability Conscious Manufacturing Companies by Using TOPSIS Method**  
Kilic M., ÖZMEHMET TAŞAN S.  
IFIP WG 5.7 International Conference on Advances in Production Management Systems (APMS), Rhodes, Greece, 24 - 26 September 2012, vol.397, pp.224-231
- XXV. **Otomobil Kablo Ağlarının Üretimi için Ergonomik Faktörleri Göz Önünde Bulunduran Montaj İstasyonu Tasarımı**  
BAYKASOĞLU A., ÖZMEHMET TAŞAN S., TAŞAN A. S., DEMİRKOL AKYOL Ş., Aktaş N., Özen B., Tarki G., Boz O.  
18. Ulusal Ergonomi Kongresi, Gaziantep, Turkey, 16 - 18 November 2012, pp.618-623
- XXVI. **Multi-stage decision based approach for balancing bi-objective U-shaped assembly lines with alternative subassembly graphs**  
Tasan S.  
2nd International Conference on Pervasive Embedded Computing and Communication Systems, PECCS 2012, Rome, Italy, 24 - 26 February 2012, pp.334-342
- XXVII. **A solution of human resource allocation problem in a case of hotel management**  
Murakami K., Tasan S., Gen M., Oyabu T.  
40th International Conference on Computers and Industrial Engineering, CIE40 2010, Awaji, Japan, 25 - 28 July 2010
- XXVIII. **An integrated selection and scheduling for large-sized disjunctive network problems**  
ÖZMEHMET TAŞAN S., Gen M.  
40th International Conference on Computers and Industrial Engineering, CIE40 2010, Awaji, Japan, 25 - 28 July 2010
- XXIX. **Multiobjective hybrid genetic algorithms for assembly line balancing models**  
ÖZMEHMET TAŞAN S.  
The 40th International Conference on Computers Industrial Engineering, Awaji City, Japan, 25 - 28 July 2010
- XXX. **A priority based genetic algorithm approach for solving multiple alternative project scheduling problems with resource constraints and variable activity times**  
ÖZMEHMET TAŞAN S., Gen M.  
2008 IEEE International Conference on Systems, Man and Cybernetics, Singapore, Singapore, Singapore, 12 - 15 October 2008
- XXXI. **Improving the genetic algorithms performance in simple assembly line balancing**  
Tasan S., Tunali S.  
ICCSA 2006: International Conference on Computational Science and Its Applications, Glasgow, England, 8 - 11 May 2006, vol.3984 LNCS, pp.78-87
- XXXII. **A hybrid meta-heuristic approach for solving SALBP**  
Ozmehmet S., Tunali S.  
35th International Conference on Computers and Industrial Engineering, ICC and IE 2005, İstanbul, Turkey, 19 - 22 June 2005, pp.1475-1480

## Metrics

Publication: 49

Citation (WoS): 176

Citation (Scopus): 214

H-Index (WoS): 5

H-Index (Scopus): 5