

## Assoc. Prof. MUHAMMED SÜTÇÜ

### Personal Information

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**Address:** Abdullah Gul University Industrial Engineering Department Sumer Campus, Erkilet Bulvari, Kocasinan

### International Researcher IDs

ScholarID: yZSwmT8AAAAJ

ORCID: 0000-0002-8523-9103

ScopusID: 57203285174

Yoksis Researcher ID: 236039

### Education Information

Doctorate, University of Illinois at Urbana-Champaign, Industrial And System Engineering , Industrial Engineering, United States Of America 2009 - 2014

Postgraduate, Istanbul Technical University, Isletme Fakultesi, Muhendislik Yonetimi, Turkey 2006 - 2008

Undergraduate, Istanbul Technical University, Isletme Fakultesi, Endustri Muhendisligi Bolumu, Turkey 2001 - 2006

### Foreign Languages

English, C1 Advanced

### Dissertations

Doctorate, Approximating multivariate distributions with cumulative residual entropy: a study on dynamic integrated climate-economy model, University Of Illinois At Urbana-Champaign, Industrial And Systems Engineering, 2014

Postgraduate, Üst yönetim yapısının stratejik opsiyonlara etkisi, İstanbul Teknik Üniversitesi, Isletme Fakultesi, Endustri Muhendisligi Bolumu, 2008

### Research Areas

Climate Change and Climate Modeling, Simulation and Modelling, Computational Model, Industrial Engineering, Stochastic Modeling, Stochastic Processes, Decision Theory, Multi Criteria Decision Making, Engineering and Technology

### Academic Titles / Tasks

Associate Professor, Abdullah Gul University, Mühendislik Fakültesi, Endüstri Mühendisliği, 2023 - Continues

Assistant Professor, Abdullah Gul University, Mühendislik Fakültesi, Endüstri Mühendisliği, 2018 - 2023

Assistant Professor, Abdullah Gul University, Mühendislik Fakültesi, Endüstri Mühendisliği, 2015 - 2018

Research Assistant, Istanbul Kultur University, Faculty Of Engineering, Endustri Muhendisligi Bolumu, 2007 - 2008

## Courses

MACHINE LEARNING IN BUSINESS AND ECONOMICS, Postgraduate, 2022 - 2023  
STATISTICS AND DATA ANALYSIS , Postgraduate, 2022 - 2023  
ADVANCED STATISTICS AND DATA ANALYSIS , Postgraduate, 2022 - 2023  
SYSTEMS ANALYSIS AND DESIGN PROJECT II , Undergraduate, 2017 - 2018  
Engineering Economics and Cost Analysis, Undergraduate, 2017 - 2018, 2016 - 2017  
MATHEMATICS FOR OPTIMIZATION , Doctorate, 2017 - 2018  
MATHEMATICS FOR OPERATIONS RESEARCH , Undergraduate, 2017 - 2018  
Business Process Analysis, Undergraduate, 2017 - 2018, 2016 - 2017, 2015 - 2016  
Production and Service Systems Management 2, Undergraduate, 2017 - 2018, 2016 - 2017  
Sustainable Energy Systems, Postgraduate, 2017 - 2018  
Decision Making in Healthcare, Postgraduate, 2016 - 2017  
Stochastic Models, Undergraduate, 2017 - 2018, 2016 - 2017  
Medical Decision Making, Undergraduate, 2016 - 2017  
Special Topics in Decision Analysis, Postgraduate, 2016 - 2017  
Production and Service Systems Management 1, Undergraduate, 2017 - 2018, 2016 - 2017  
Sustainable Energy Systems, Undergraduate, 2017 - 2018  
DEVELOPING ENTREPRENEURIAL SKILLS , Undergraduate, 2016 - 2017  
Sustainable Energy Systems, Postgraduate, 2014 - 2015  
Probability Theory, Postgraduate, 2015 - 2016, 2014 - 2015  
Modeling and Optimization, Postgraduate, 2015 - 2016

## Advising Theses

Sütçü M., The Impact of Framing Effect on Consumers' Attitude Towards Online Shopping , Postgraduate, E.Kaya(Student), Continues  
Sütçü M., Pricing Strategies Under Price Protection, Mid-Life Returns and End-of-Life Returns , Doctorate, B.Yıldız(Student), 2022  
Sütçü M., Electric Vehicle Charging Station Location Decision in Turkey, Postgraduate, İ.TÜMAY(Student), 2022  
Sütçü M., Priority Regions for Development Assistance for Health: An Evidence-Based Approach , Postgraduate, Z.Chbani(Student), 2021  
Sütçü M., Scheduling the Turkish Super Football League , Postgraduate, H.Bayrak(Student), 2019  
Sütçü M., Bengü E., The effect of Game-Based Learning in Lean Production and Lean Six Sigma Training, Postgraduate, B.Kurt(Student), 2019

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

- I. **A variant SDDP approach for periodic-review approximately optimal pricing of a slow-moving a item in a duopoly under price protection with end-of-life return and retail fixed markdown policy**  
Yıldız B., Sütçü M.  
EXPERT SYSTEMS WITH APPLICATIONS, vol.212, 2023 (SCI-Expanded)
- II. **Disutility Entropy in Multi-attribute Utility Analysis**  
Sütçü M.  
COMPUTERS & INDUSTRIAL ENGINEERING, vol.169, 2022 (SCI-Expanded)
- III. **Effects of total cost of ownership on automobile purchasing decisions**  
SÜTÇÜ M.  
TRANSPORTATION LETTERS-THE INTERNATIONAL JOURNAL OF TRANSPORTATION RESEARCH, vol.12, no.1, pp.18-24, 2020 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Parameter uncertainties in evaluating climate policies with dynamic integrated climate-economy model**  
Sütçü M.  
ENVIRONMENT SYSTEMS & DECISIONS, vol.1, no.1, pp.1-16, 2023 (Scopus)
- II. **Optimal Time Intervals Between Personal Mammogram Test Decisions**  
Sütçü M.  
International Journal of Advanced Natural Sciences and Engineering Researches, vol.7, no.4, pp.196-202, 2023 (Peer-Reviewed Journal)
- III. **Long term currency forecast with multiple trend corrected exponential smoothing with shifting lags**  
Sütçü M., Gulbahar I. T.  
International Journal of Industrial Optimization, vol.4, no.1, pp.47-57, 2023 (Peer-Reviewed Journal)
- IV. **Analitik Hiyerarşi Karar Verme Süreci ile Hastane Yeri Seçimi Problemi: Türkiye'de Bir Uygulama**  
Sütçü M.  
European Journal of Science and Technology, vol.45, no.1, pp.144-150, 2022 (Peer-Reviewed Journal)
- V. **Analysis of under-five mortality by diseases in countries with different levels of development: a comparative analysis**  
Sütçü M., Güner P., Ersöz N. Ş.  
THE EUROPEAN RESEARCH JOURNAL, vol.8, no.7, pp.1-13, 2022 (Peer-Reviewed Journal)
- VI. **Optimal location determination of electric vehicle charging stations: A case study on Turkey's most preferred highway**  
Sütçü M., Gülbahar İ. T.  
Bitlis Eren Üniversitesi Fen Bilimleri Dergisi, vol.11, no.2, pp.537-543, 2022 (Peer-Reviewed Journal)
- VII. **Electricity Load Forecasting Using Deep Learning and Novel Hybrid Models**  
Sütçü M., Gülbahar I. T., Şahin K. N., Koloğlu Y., Çelikel M. E.  
Sakarya Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.26, no.1, pp.91-104, 2022 (Peer-Reviewed Journal)
- VIII. **Movie Recommendation Systems Based on Collaborative Filtering: A Case Study on Netflix**  
SÜTÇÜ M., KAYA E., ERDEM O.  
Erciyes Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.37, no.3, pp.367-376, 2021 (Peer-Reviewed Journal)

## Refereed Congress / Symposium Publications in Proceedings

- I. **Decision Making Of Suitable Bioenergy Power Plant Location: A Case Study**  
Sutcu M., Güner F. Y., Duran R., Söylemez I.  
The International Conference on Research in Management & Technovation 2020, Nagpur, India, 22 - 23 December 2020, vol.24, pp.11-14
- II. **University Industry Partnership Through PBL Industrial Engineering Education**  
Bengü E., Sütçü M., Gören S.  
3. ULUSLARARASI YÜKSEKÖĞRETİM ÇALIŞMALARI KONFERANSI, Kayseri, Turkey, 11 - 13 October 2018, pp.139-140
- III. **Stochastic scheduling of parallel machines under processing time variability**  
AKGÜN İ., GÖREN S., BEKLİ R. Ş., SÜTÇÜ M.  
29th European Conference on Operational Research, 8 - 11 July 2018
- IV. **A New Rational Classification Approach By Using The Novel Mixed Data Binarization Method**  
SÜTÇÜ M.  
INFORMS 2017, Houston, United States Of America, 22 - 25 October 2017
- V. **Long-Term Time series forecasting using a hybrid Linear Regression and Exponential Smoothing model**  
SÜTÇÜ M.

37. YÖNEYLEM ARAŞTIRMASI ve ENDÜSTRİ MÜHENDİSLİĞİ ULUSAL KONGRESİ, İstanbul, Turkey, 5 - 07 July 2017, pp.43-44

- VI. **A Profit Maximizing Integrated Model of Fleet Assignment and Aircraft Routing with Considerations of Flight Schedule Disturbances**  
SÜTÇÜ M., Yıldız B., YOLDAŞ Y.  
INFORMS Annual Meeting 2016, Nashville, United States Of America, 13 - 16 November 2016
- VII. **Effects of Total Cost of Ownership on Automobile Purchasing Decisions**  
SÜTÇÜ M.  
INFORMS Annual Meeting 2016, Nashville, United States Of America, 13 - 16 November 2016, pp.1
- VIII. **A Capacity Expansion Model for Energy Planning For Turkey**  
SÜTÇÜ M., Değirmenci T.  
INFORMS 2016, Nashville,Tn, United States Of America, 13 - 16 November 2016, pp.1
- IX. **Cumulative Impact Of Integrating Uncertainty On GlobalWarming Policy Decisions: An Application To Dice Model**  
SÜTÇÜ M.  
Yöneylem Araştırması ve Endüstri Mühendisliği 36. Ulusal Kongresi, İzmir, Turkey, 13 - 15 July 2016
- X. **A Study on Understanding True Cost to Own an Automobile**  
SÜTÇÜ M.  
Yöneylem Araştırması ve Endüstri Mühendisliği 36. Ulusal Kongresi, İzmir, Turkey, 13 - 15 July 2016
- XI. **First-Order Dependence Trees with Cumulative Residual Entropy**  
Sutcu M., ABBAS A. E.  
Conference on Bayesian Inference and Maximum Entropy Methods in Science and Engineering, Amboise, France, 21 - 26 September 2014, vol.1641, pp.512-521
- XII. **Environmental Approach Transportation Sector: A Multiattribute Decision Analysis Problem**  
SÜTÇÜ M.  
31nd National Operations Research and Industrial Engineering Congress (YAEM, 2011), Sakarya, Turkey, 5 - 07 July 2011
- XIII. **Üst Yönetim Yapısının Stratejik Opsiyonlara Etkisi**  
SÜTÇÜ M., ÇEVİK ONAR S., POLAT S.  
Yöneylem Araştırması ve Endüstri Mühendisliği 30. Ulusal Kongresi, İstanbul, Turkey, 30 June - 02 July 2010, pp.215-216

## Supported Projects

SÜTÇÜ M., Project Supported by Other Official Institutions, FLEXITY SWIFT BOJI SÜSPANSİYON PARÇASI, 2016 - 2017

## Memberships / Tasks in Scientific Organizations

INFORMS, Member, 2009 - Continues

## Scientific Refereeing

COMPUTERS & INDUSTRIAL ENGINEERING, SCI Journal, December 2022

Niğde Ömer Halisdemir Üniversitesi Mühendislik Bilimleri Dergisi, National Scientific Refreed Journal, December 2022

Computers and Industrial Engineering, SCI Journal, January 2017

Decision Analysis, SCI Journal, March 2014

Operations Research, SCI Journal, May 2013

Management Science, SCI Journal, February 2012

## Metrics

Publication: 24

Citation (WoS): 8

Citation (Scopus): 10

H-Index (WoS): 3

H-Index (Scopus): 3