

## Assoc. Prof. Özge DOĞUÇ

### Personal Information

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### International Researcher IDs

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Publons / Web Of Science ResearcherID: ABC-5478-2020

ScopusID: 24474313600

Yoksis Researcher ID: 261824

### Education Information

Doctorate, Stevens Institute of Technology, United States Of America 2004 - 2010

Undergraduate, Beykent University, Fen-Edebiyat Fakültesi, Matematik Ve Bilgisayar Bilimleri Bölümü, Turkey 2000 - 2004

Undergraduate, Beykent University, Fen-Edebiyat Fakültesi, Matematik Ve Bilgisayar Bilimleri Bölümü, Turkey 2000 - 2004

### Dissertations

Doctorate, Applications of bayesian networks in complex system reliability, Stevens Institute of Technology, 2010

### Research Areas

Social Sciences and Humanities, Labor Economics and Industrial Relations, Labor Economics, Computer Sciences, Engineering and Technology

### Academic Titles / Tasks

Associate Professor, Istanbul Medipol University, İşletme Ve Yönetim Bilimleri Fakültesi, Yönetim Bilişim Sistemleri Bölümü, 2017 - Continues

Research Assistant, Stevens Institute of Technology, School Of Engineering And Science, Systems Engineering And Engineering Management, 2004 - 2006

### Academic and Administrative Experience

Istanbul Medipol University, 2021 - Continues

### Courses

BİLİŞİM SİSTEMLERİ VE E-İŞLETME, Undergraduate, 2021 - 2022  
LİSANS BİTİRME PROJESİ, Undergraduate, 2021 - 2022  
SÜREÇ ANALİZİ, Undergraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020  
BİLGİ TEKNOLOJİLERİ VE ARAÇLARI, Undergraduate, 2021 - 2022  
BİLGİ TEKNOLOJİLERİ VE ARAÇLARI I, Undergraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018  
İŞLETME ENFORMATİĞİ, Postgraduate, 2021 - 2022  
BİLİŞİM PROJELERİ YÖNETİMİ, Undergraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020  
YÖNETİM BİLİŞİM SİSTEMLERİ, Undergraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020  
STAJ, Undergraduate, 2021 - 2022  
SEKTÖREL UYGULAMA, Undergraduate, 2020 - 2021, 2019 - 2020  
SEMİNER, Undergraduate, 2020 - 2021, 2019 - 2020  
BİLİŞİM TEKNOLOJİLERİ, Undergraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018  
BİLGİ TEKNOLOJİLERİ VE ARAÇLARI II, Undergraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018  
BİTİRME PROJESİ, Undergraduate, 2019 - 2020  
BİLGİSAYAR DONANIM VE İŞLETİM SİSTEMLERİ, Undergraduate, 2017 - 2018

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

- I. **An Early Warning System Using Machine Learning for the Detection of Intracranial Hematomas in the Emergency Trauma Setting**  
Aydoseli A., ÜNAL T. C., Kardes O., DOĞUÇ Ö., Dolas I., ADIYAMAN A. E., Ortahisar E., SİLAHTAROĞLU G., Aras Y., Sabanci P. A., et al.  
Turkish Neurosurgery, vol.32, no.3, pp.459-465, 2022 (SCI-Expanded)
- II. **An automated method for estimating reliability of grid systems using Bayesian networks**  
DOĞUÇ Ö., Emmanuel Ramirez-Marquez J.  
Reliability Engineering and System Safety, vol.104, pp.96-105, 2012 (SCI-Expanded)
- III. **A generic method for estimating system reliability using Bayesian networks**  
DOĞUÇ Ö., Ramirez-Marquez J. E.  
Reliability Engineering and System Safety, vol.94, no.2, pp.542-550, 2009 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Decision Support System for Software Selection with AHP Method in Business Process Automation**  
Doguc O., Kardes O., Şahinbaş K.  
Bilgisayar Bilimleri ve Mühendisliği Dergisi, vol.16, no.1, pp.87-93, 2023 (Peer-Reviewed Journal)
- II. **Türkiye’de Şehir Nüfus İstatistiklerinin Veri Madenciliği Yöntemleriyle İncelenmesi**  
Doğuç Ö., Şahinbaş K., Silaharoğlu G.  
Acta Infologica, vol.7, no.1, pp.107-123, 2023 (Peer-Reviewed Journal)
- III. **Diagnosis of Covid-19 Via Patient Breath Data Using Artificial Intelligence**  
DOĞUÇ Ö., SİLAHTAROĞLU G., Canbolat Z. N., Hambarde K., Yiğitbaşı A. A., Gökay H., YILMAZ M.  
Emerging Science Journal, vol.7, no.Special issue, pp.105-113, 2023 (Scopus)
- IV. **Data Mining Applications in Banking Sector While Preserving Customer Privacy**  
DOĞUÇ Ö.  
Emerging Science Journal, vol.6, no.6, pp.1444-1454, 2022 (Scopus)
- V. **Otel Rezervasyon İptal Tahmin Modelinin Veri Madenciliği Algoritmaları ile Uygulanması**  
ŞAHİNBAŞ K., DOĞUÇ Ö.  
Selçuk Turizm ve Bilişim Araştırmaları Dergisi, vol.1, no.2, pp.15-24, 2022 (Peer-Reviewed Journal)
- VI. **Otel Rezervasyon İptal Tahmin Modelinin Veri Madenciliği Algoritmaları ile Uygulanması**

- ŞAHİNBAŞ K., DOĞUÇ Ö.  
Selçuk Turizm ve Bilişim Araştırmaları Dergisi, vol.1, no.2, pp.15-24, 2022 (Peer-Reviewed Journal)
- VII. **Twitter Verisi Ile Doğal Afet Müdahale Süreci İçin Karar Destek Uygulaması**  
DOĞUÇ Ö.  
Afet ve Risk Dergisi, vol.5, no.2, pp.408-419, 2022 (Peer-Reviewed Journal)
- VIII. **Detecting Turkish Fake News Via Text Mining to Protect Brand Integrity**  
DOĞUÇ Ö.  
Gazi University Journal of Science Part A: Engineering and Innovation, vol.9, no.3, pp.323-333, 2022 (Peer-Reviewed Journal)
- IX. **Eleman İşe Alım Süreci İçin AHP Metodu Ile Karar Destek Sistemi**  
DOĞUÇ Ö.  
Ekonomi İşletme ve Maliye Araştırmaları Dergisi, vol.4, no.2, pp.126-145, 2022 (Peer-Reviewed Journal)
- X. **Applications of Robotic Process Automation in Finance and Accounting**  
DOĞUÇ Ö.  
Beykent Üniversitesi Fen ve Mühendislik Bilimleri Dergisi, vol.14, no.1, pp.51-59, 2021 (Peer-Reviewed Journal)
- XI. **Intelligent Early Warning System for Epidural Acute Hematomas**  
DOĞUÇ Ö.  
Turkish Studies - Information Technologies and Applied Sciences, vol.15, no.4, pp.521-531, 2020 (Peer-Reviewed Journal)
- XII. **Lemmatizer: Smart Root Finder for Turkish Words**  
DOĞUÇ Ö., AYTAÇ Ö. B., SİLAHTAROĞLU G.  
Turkish Studies - Information Technologies and Applied Sciences, vol.15, no.3, pp.289-299, 2020 (Peer-Reviewed Journal)
- XIII. **A machine learning approach to predict creatine kinase test results**  
Canbolat Z. N., SİLAHTAROĞLU G., DOĞUÇ Ö., Yılmaztürk N.  
Emerging Science Journal, vol.4, no.4, pp.283-296, 2020 (Scopus)
- XIV. **Using Bayesian Approach for Sensitivity Analysis and Fault Diagnosis in Complex Systems**  
DOĞUÇ Ö., RAMIREZ-MARQUEZ J. E.  
JOURNAL OF INTEGRATED DESIGN AND PROCESS SCIENCE, vol.13, no.1, pp.33-48, 2009 (Scopus)

## Books & Book Chapters

- I. **How Will Metaverse and AI Change Traditional Marketing Techniques?**  
DOĞUÇ Ö.  
in: Handbook of Research on Consumer Behavioral Analytics in Metaverse and the Adoption of a Virtual World, Keikhosrokiani, Pantea, Editor, IGI Global, Hershey, pp.68-88, 2023
- II. **Process Management and Digital Solutions for Enterprises**  
DOĞUÇ Ö.  
Kriter Yayınevi, İstanbul, 2022
- III. **Analysis of Customer Churn in the Banking Industry Using Data Mining**  
DOĞUÇ Ö.  
in: The Future of Data Mining, Baytar, Cem Ufuk, Editor, Nova Publishers, New York, pp.51-76, 2022
- IV. **Sağlık Yönetiminde Tedavi Süreci Etkinliğinin Arttırılması Modeli: TOPSIS Yöntemiyle Depresyon Tanısında Kullanılacak Antidepresan İlaç Seçimi**  
DOĞUÇ Ö., ŞAHİNBAŞ K.  
in: Sosyal, Beşeri ve İdari Bilimlerde Güncel Tartışmalar 2, Sönmez Sinan, Işık Özgür, Editor, Duvar Yayınevi, İstanbul, pp.351-376, 2022
- V. **Recent applications of data mining in medical diagnosis and prediction**  
DOĞUÇ Ö., CANBOLAT Z. N., SİLAHTAROĞLU G.  
in: Big Data Analytics for Healthcare Datasets, Techniques, Life Cycles, Management, and Applications,

Keikhosrokiani, Pantea, Editor, Elsevier, Londrina, pp.95-109, 2022

- VI. **Sağlık Yönetiminde Tedavi Süreci Etkinliğinin Arttırılması: TOPSIS Algoritmasıyla Depresyon Tedavisinde Kullanılacak Antidepresan İlaç Seçimi**  
DOĞUÇ Ö., ŞAHİNBAŞ K.  
in: SOSYAL, BEŞERİ ve İDARİ BİLİMLERDE GÜNCEL TARTIŞMALAR 2, Prof. Dr. Sinan SÖNMEZ, Dr. Özgür IŞIK, Editor, Platanus Publishing, pp.351-376, 2022
- VII. **Management Techniques in Logistics Information Systems**  
DOĞUÇ Ö.  
in: Research on Economics and Administration and Social Sciences, Demir Nesrin, Sansar M. Fatih, Editor, Livre de Lyon, Lyon, pp.231-252, 2022
- VIII. **RPA in Energy and Utilities**  
DOĞUÇ Ö.  
in: Strategic Approaches to Energy Management, Yuksel, Serhat; Dincer, Hasan, Editor, Springer, Cham, pp.217-230, 2021
- IX. **Robotic Process Automation (RPA) applications in COVID-19**  
DOĞUÇ Ö.  
in: Management Strategies to Survive in a Competitive Environment: How to Improve Company Performance, Dincer, Hasan; Yuksel, Serhat, Editor, Springer Nature, pp.233-247, 2021
- X. **Analysis of Digital Marketing Strategies of Deposit Banks in Turkey via Text Mining Twitter Posts**  
AYTAÇ Ö. B., SİLAHTAROĞLU G., DOĞUÇ Ö.  
in: Strategic Outlook for Innovative Work Behaviours, Dincer, Hasan; Yucel, Serhat, Editor, Springer, Cham, pp.361-376, 2020
- XI. **Robot Process Automation (RPA) and Its Future**  
DOĞUÇ Ö.  
in: Handbook of Research on Strategic Fit and Design in Business Ecosystems, Hacıoglu, Umit, Editor, IGI GLOBAL, pp.469-492, 2019
- XII. **Innovative Methods in Financial Risk Management**  
DOĞUÇ Ö.  
in: Handbook of Research on Managerial Thinking in Global Business Economics, Dincer, Hasan; Yuksel, Serhat, Editor, IGI GLOBAL, pp.141-163, 2018

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

- I. **A Decision Support System for Detecting FIP Disease in Cats Based on Machine Learning Methods**  
Doğuç Ö., Bilgi S. B., Cagdas S., Yilmaztürk N.  
International Conference on Emerging Trends and Applications in Artificial Intelligence , İstanbul, Turkey, 8 - 09 October 2023
- II. **Customer Churn Analysis in E-Commerce Sector Using Data Mining Techniques**  
DOĞUÇ Ö.  
The International Conference on Emerging Trends in Digital Business, Amman, Jordan, 17 - 18 August 2022, pp.18-29
- III. **Diagnosis of Covid-19 Via Patient Breath Data Using Artificial Intelligence**  
SİLAHTAROĞLU G., DOĞUÇ Ö., Hambarde K., CANBOLAT Z. N., Yiğitbaşı A. A., Gökay H., YILMAZ M.  
AKIP 2022 2nd INTERNATIONAL CONFERENCE ON ARTIFICIAL INTELLIGENCE & KNOWLEDGE PROCESSING, India, 22 - 23 July 2022, pp.9-10
- IV. **Intelligent Lab Test Approval Support System**  
DOĞUÇ Ö., CANBOLAT Z. N., YILMAZTÜRK N.  
International Aegean Symposiums on Social Sciences & Humanities, İzmir, Turkey, 15 - 16 February 2020, pp.111
- V. **Using Dimensionality Reduction Techniques to Determine Student Success Factors**

DOĞUÇ Ö., CANBOLAT Z. N.

International Conference on Data Science, Machine Learning and Statistics - 2019, Van, Turkey, 26 - 29 June 2019, pp.150-152

- VI. **İnsanların Kendi Dış Görünümlerindeki Memnuniyeti Etkileyen Faktörlerin Analizi**  
DOĞUÇ Ö., AYTAÇ Ö. B.  
Akademik Bilişim Konferansı 2019, Ordu, Turkey, 13 - 15 February 2019, pp.221-223
- VII. **A Data Mining Application in English Preparatory Program at Medipol University**  
DOĞUÇ Ö., KARDEŞ O.  
1st International Conference on Language, Education and Culture (ICLEC), Girne, Cyprus (Kktc), 2 - 06 September 2018, pp.50
- VIII. **A bayesian approach for estimating complex system reliability**  
DOĞUÇ Ö., Ramirez-Marquez J. E.  
19th Annual International Symposium of the International Council on Systems Engineering, INCOSE 2009, Singapore, Singapore, 19 - 23 July 2009, vol.19, pp.436-446
- IX. **An Application for Evaluating the Reliability of Submarine Communication Cables**  
DOĞUÇ Ö., Ramirez-Marquez J. E.  
60th Annual Conference and Expo of the Institute of Industrial Engineers, Cancun, Mexico, 5 - 09 June 2010, vol.3, pp.2497
- X. **Sensitivity Analysis Method for System Operational Effectiveness in Complex Systems**  
DOĞUÇ Ö., KARDEŞ O.  
7th Annual Conference on Systems Engineering Research (CSER) 2009, Loughborough, England, 20 - 23 April 2009
- XI. **An Efficient Fault Diagnosis Method for Complex System Reliability**  
DOĞUÇ Ö., Ramirez-Marquez J. E.  
7th Annual Conference on Systems Engineering Research (CSER) 2009, Loughborough, England, 20 - 23 April 2009
- XII. **Automated Discovery of MRST for Grid Service Reliability Estimation**  
DOĞUÇ Ö., Ramirez-Marquez J. E.  
International Conference on Grid Computing and Applications, Las Vegas, United States Of America, 13 - 16 July 2009, pp.140-144
- XIII. **Estimating Reliability of Grid Systems using Bayesian Networks**  
DOĞUÇ Ö., Ramirez-Marquez J. E.  
International Conference on Grid Computing and Applications, GCA 2008, Las Vegas, United States Of America, 14 - 17 July 2008, pp.123-128
- XIV. **Assessment, Monitoring and Diagnosis (AMD) Tool for System Operational Effectiveness in Complex Systems**  
DOĞUÇ Ö.  
6th Annual Conference on Systems Engineering Research (CSER) 2008, Redondo Beach, United States Of America, 4 - 05 April 2008
- XV. **A Bayesian Network (BN) model for system operational effectiveness assessment & diagnosis**  
DOĞUÇ Ö., Jiang W.  
26th Annual National Conference of the American Society for Engineering Management 2005 - Organizational Transformation: Opportunities and Challenges, ASEM 2005, Virginia Beach, VA, United States Of America, 26 - 29 October 2005, pp.147-155

## Supported Projects

DOĞUÇ Ö., SİLAHTAROĞLU G., Project Supported by Higher Education Institutions, Solunum Testi İle Yapay Zeka Destekli Covid-19 Tayini Yapabilen Elektronik Burun Geliştirilmesi, 2021 - 2022

## **Patent**

Özge D., Hastalık Teşhisine Yönelik Yapay Zekâ Destekli Elektronik Tanı Cihazı, Patent, CHAPTER A Human Needs, 2021

## **Scholarships**

Research Assitant, University, 2004 - 2010