

# Prof. ÖZLEM MÜGE TESTİK

## Personal Information

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## International Researcher IDs

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Publons / Web Of Science ResearcherID: M-3745-2018

Yoksis Researcher ID: 35019

## Education Information

Doctorate, Ankara University, Fen Bilimleri Enstitüsü, İstatistik, Turkey 1998 - 2003

Postgraduate, Ankara University, Fen Bilimleri Enstitüsü, İstatistik, Turkey 1997 - 1998

Undergraduate, Ankara University, Fen Fakültesi, İstatistik, Turkey 1992 - 1996

## Foreign Languages

English, C1 Advanced

## Dissertations

Doctorate, Çok Kanallı Kuyruk Sistemlerine Bulanık Yaklaşım , Ankara Üniversitesi, Fen Bilimleri Enstitüsü, İstatistik (YI) (Tezli), 2003

Postgraduate, Hedef Programlama Olarak Modellenmiş MINMAD Regresyon Problemine Genetik Algoritma Yaklaşımı, Ankara Üniversitesi, Fen Bilimleri Enstitüsü, İstatistik (YI) (Tezli), 1998

## Research Areas

Industrial Engineering , Stochastic Modeling, Queueing Theory and Applications, Optimization Theory and Methods, Multiobjective Optimization, Decision Theory, Multi Criteria Decision Making, Statistics, Statistical Analysis and Applications, Natural Sciences, Engineering and Technology

## Academic Titles / Tasks

Associate Professor, Hacettepe University, Mühendislik Fakültesi, Endüstri Mühendisliği Bölümü, 2013 - Continues

Associate Professor, Baskent University, Faculty Of Arts And Sciences, Department Of Statistics And Computer Sciences, 2009 - 2013

Assistant Professor, Baskent University, Faculty Of Arts And Sciences, Department Of Statistics And Computer Sciences, 2008 - 2009

Research Assistant, Baskent University, Faculty Of Health Sciences, Department Of Health Facilities Management, 1998 - 2009

Lecturer, Baskent University, Faculty Of Arts And Sciences, Department Of Statistics And Computer Sciences, 2003 - 2008

Lecturer, Baskent University, Faculty Of Health Sciences, Department Of Health Facilities Management, 2000 - 2003

## Academic and Administrative Experience

Hacettepe Üniversitesi, Mühendislik Fakültesi, Endüstri Mühendisliği Bölümü, 2014 - Continues

Başkent Üniversitesi, Fen-Edebiyat Fakültesi, İstatistik Ve Bilgisayar Bilimleri Bölümü, 2003 - 2013

Başkent Üniversitesi, Fen-Edebiyat Fakültesi, İstatistik Ve Bilgisayar Bilimleri Bölümü, 2003 - 2013

## Advising Theses

TESTİK Ö. M., Two player zero sum fuzzy games for players with different risk levels, Postgraduate, Y.KOCA(Student), 2017

TESTİK Ö. M., A cause and effect diagram and FAHP based methodology for the selection of quality improvement projects in healthcare, Postgraduate, A.SHAYGAN(Student), 2016

TESTİK Ö. M., Mobilya sektöründe ergonomik risk değerlendirmesi: Bir mobilya fabrikasında saha çalışması, Postgraduate, S.KOÇ(Student), 2016

TESTİK Ö. M., Türkiye'de teknogirişimcilik desteklerinin analitik hiyerarşi prosesi (AHP) yardımıyla incelenmesi, Postgraduate, Y.ÖZMODANLI(Student), 2016

TESTİK Ö. M., Endüstriyel kazaların sonuçlarının analitik hiyerarşi süreci ile incelenmesi, Postgraduate, G.KUBAT(Student), 2013

TESTİK Ö. M., E-dönüşüm sürecinde kişisel bilişim güvenliği davranışı ve farkındalığının analizi, Postgraduate, G.ÖĞÜTÇÜ(Student), 2010

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

- I. **A novel method for weighting decision makers for failure mode and effect analysis under intuitionistic fuzzy environment**  
AKKUŞ D., TESTİK Ö. M.  
Quality and Reliability Engineering International, 2024 (SCI-Expanded)
- II. **Fuzzy FMEA in risk assessment for test and calibration laboratories**  
TESTİK Ö. M., Unlu E. T.  
QUALITY AND RELIABILITY ENGINEERING INTERNATIONAL, vol.39, no.2, pp.575-589, 2023 (SCI-Expanded)
- III. **Development of a fuzzy logic based model to elucidate the effect of FSW parameters on the ultimate tensile strength and elongation of pure copper joints**  
Heidarzadeh A., TESTİK Ö. M., GÜLERYÜZ G., Barenji R. V.  
JOURNAL OF MANUFACTURING PROCESSES, vol.53, pp.250-259, 2020 (SCI-Expanded)
- IV. **A fuzzy AHP-based methodology for project prioritization and selection**  
Shaygan A., TESTİK Ö. M.  
SOFT COMPUTING, vol.23, no.4, pp.1309-1319, 2019 (SCI-Expanded)
- V. **Solving two-player zero sum games with fuzzy payoffs when players have different risk attitudes**  
KOCA Y., TESTİK Ö. M.  
QUALITY AND RELIABILITY ENGINEERING INTERNATIONAL, vol.34, no.7, pp.1461-1474, 2018 (SCI-Expanded)
- VI. **Overall equipment effectiveness when production speeds and stoppage durations are uncertain**  
SÖNMEZ V., TESTİK M. C., TESTİK Ö. M.  
INTERNATIONAL JOURNAL OF ADVANCED MANUFACTURING TECHNOLOGY, pp.1-10, 2017 (SCI-Expanded)
- VII. **Selecting Health Care Improvement Projects: A Methodology Integrating Cause-and-Effect Diagram and Analytical Hierarchy Process**

## Articles Published in Other Journals

- I. **Estimation of Workload for Aircraft Design Projects By Using Fuzzy Logic**  
KARAKUZ V. C., TESTİK Ö. M.  
Makina Tasarım ve İmalat Dergisi, vol.17, no.1, pp.21-30, 2019 (Peer-Reviewed Journal)
- II. **A General Approach to Accreditation of Environmental Laboratories in Turkey**  
AKAN A. P., TESTİK Ö. M.  
International Journal of Engineering Technologies, vol.4, no.2, pp.102-106, 2018 (Peer-Reviewed Journal)
- III. **TEKNOGİRİŞİMCİLİK PROGRAMLARI İÇİN YAPISAL BİR ANALİZ**  
Özmodanlı Y., TESTİK Ö. M.  
Verimlilik Dergisi, no.4, pp.47-79, 2017 (Peer-Reviewed Journal)
- IV. **Examination of the Accreditation Status of Water Quality Parameters**  
AKAN A. P., TESTİK Ö. M.  
The Turkish Journal of Occupational / Environmental Medicine and Safety, vol.2, no.1, pp.45-55, 2017 (Peer-Reviewed Journal)
- V. **Mobilya Sektöründe Yaşanan Kas İskelet Sistemi Risklerinin Farklı Değerlendirme Metotları İle İncelenmesi ve Minimizasyonu**  
Koç S., TESTİK Ö. M.  
Endüstri Mühendisliği, vol.27, no.2, pp.2-27, 2016 (Peer-Reviewed Journal)
- VI. **Girişimci Destek Programlarının İncelenmesi Ve Teknogirişim Desteği Programı**  
özmodanlı y., TESTİK Ö. M.  
Verimlilik, vol.2016, no.1, pp.103-130, 2016 (Peer-Reviewed Journal)
- VII. **A Fuzzy Model of Software Project Effort Estimation**  
CHOUSEIN OĞLOU O., TESTİK Ö. M.  
TJFS: Turkish Journal of Fuzzy Systems, vol.4, no.2, pp.68-76, 2013 (Peer-Reviewed Journal)
- VIII. **Bulanık AHP ile Ankara için hastane yer seçimi**  
TESTİK Ö. M.  
Dokuz Eylül Üniversitesi İİBF Dergisi, vol.24, no.2, pp.87-104, 2010 (Peer-Reviewed Journal)
- IX. **Ankara için optimal hastane yeri seçiminin analitik hiyerarşi süreci ile modellenmesi**  
TESTİK Ö. M., öznehir s., akçalı e.  
Süleyman Demirel Üniversitesi İİBF Dergisi, vol.14, no.2, pp.69-86, 2009 (Peer-Reviewed Journal)
- X. **Fuzzy SERVQUAL Analysis in Airline Services**  
TESTİK Ö. M., FATMA P.  
Organizacija, vol.41, no.3, 2008 (ESCI)
- XI. **Ekonometrik modellerle Türkiye için 2005 yılı Gini katsayısı tahmini**  
dumlu u., TESTİK Ö. M.  
Ege Akademik Bakış Dergisi, vol.8, no.1, pp.375-395, 2008 (Peer-Reviewed Journal)

## Books & Book Chapters

- I. **Assessment of Shewhart Control Chart Limits in Phase I Implementations Under Various Shift and Contamination Scenarios**  
TESTİK M. C., Weiss C., KOCA Y., TESTİK Ö. M.  
in: Frontiers in Statistical Quality Control 12, , Editor, Springer, Cham, pp.21-43, 2018

## Refereed Congress / Symposium Publications in Proceedings

- I. **A Multiobjective Evolutionary Approach to Employee Bus Transportation Problem**  
DAŞDEMİR E., TESTİK M. C., TESTİK Ö. M., TUNCER ŞAKAR C.  
International Conference on Advanced Technologies, Computer Engineering and Science (ICATCES 2018),  
Karabük, Turkey, 11 - 13 May 2018
- II. **Simulation of Out-of-Control Process Observations for Evaluating Effectiveness of Phase I Studies**  
TESTİK M. C., Weiss C., KOCA Y., TESTİK Ö. M.  
INFORMS Annual Meeting, HOUSTON, United States Of America, 22 - 25 October 2017
- III. **A Tool for Calculating Fuzzy and Interval Production Loss Measurement**  
SÖNMEZ V., TESTİK M. C., TESTİK Ö. M.  
The 5th International Fuzzy Systems Symposium, 14 - 15 October 2017
- IV. **Phase I Performance of Control Charts under Temporally Random Contamination of Observations**  
TESTİK M. C., Weiss C., KOCA Y., TESTİK Ö. M.  
ENBIS European Network for Business and Industrial Statistics) 17, Napoli, Italy, 9 - 14 September 2017
- V. **Two-Player Zero Sum Games with Fuzzy Payoffs for Different Risk Levels**  
KOCA Y., TESTİK Ö. M.  
ENBIS (European Network for Business and Industrial Statistics) 17, Napoli, 9 - 14 September 2017
- VI. **Investigation of Accreditation Status of Environmental Parameters in Turkey**  
AKAN A. P., TESTİK Ö. M.  
Proceedings of the 2nd World Congress on Civil, Structural, and Environmental Engineering (CSEE'17), 2 - 04 April  
2017
- VII. **Su Kalite Parametrelerinin Akreditasyon Durumlarının İncelenmesi**  
AKAN A. P., TESTİK Ö. M.  
2nd International Water and Health Congress, Antalya, Turkey, 13 - 17 February 2017
- VIII. **On the Phase I Shewhart Control Charts for Minizing Mean Squared Error When the Data are Contaminated**  
TESTİK M. C., weiss c., KOCA Y., TESTİK Ö. M.  
XIIth International Workshop on Intelligent Statistical Quality Control 2016, 16 August 2016
- IX. **Solving Fuzzy Games for Players with Different Risk Levels**  
KOCA Y., TESTİK Ö. M.  
28th European Conference on Operational Research, 03 July 2016
- X. **Modeling Uncertainty in Operators Statements in Measuring the Performance of a Continuous Production Line**  
SÖNMEZ V., TESTİK Ö. M.  
The 4th International Fuzzy Systems Symposium, 5 - 06 November 2015
- XI. **A Cause and Effect Diagram and AHP Based Methodology for Selection of Quality Improvement Projects**  
TESTİK Ö. M., Shaygan A., DAŞDEMİR E.  
European Network for Business and Industrial Statistics (ENBIS) 14 Conference, Linz, Austria, 21 - 25 September  
2014
- XII. **A Simulation Based Decision Support Tool For Hospital Bed Capacity Planning**  
SÖNMEZ V., DAŞDEMİR E., TESTİK Ö. M., TESTİK M. C.  
Global Conference on Healthcare Systems Engineering, 4 - 07 July 2014

## Supported Projects

TESTİK Ö. M., KOCA Y., Project Supported by Higher Education Institutions, Bulanık Kazanç Matrisli İki Oyunculu Sıfır Toplamlı Oyunların Farklı Risk Seviyelerine Sahip İki Online Alışveriş Sitesi için Çözülmesi (Solving Two Player Zero Sum Games with Fuzzy Payoffs for Two Online Shopping Sites with Different Risk Levels), 2017 - 2020

TESTİK M. C., TESTİK Ö. M., WEİSS C., KOCA Y., Project Supported by Higher Education Institutions, Kontrol Grafiklerinin Geçici Olarak Rasgele Kirli Gözlemler Altındaki Faz I Performansı, 2017 - 2020  
TESTİK Ö. M., KOCA Y., Project Supported by Higher Education Institutions, Bulanık Oyunların Farklı Risk Seviyeli Oyuncular için Çözülmesi, 2016 - 2017

## **Metrics**

Publication: 32  
Citation (WoS): 24  
Citation (Scopus): 4  
H-Index (WoS): 2  
H-Index (Scopus): 1

## **Non Academic Experience**

Başkent Üniversitesi