

## Assoc. Prof. GONCA TUNÇEL MEMİŞ

### Personal Information

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### International Researcher IDs

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### Education Information

Doctorate, Dokuz Eylul University, Fen Bilimleri Enstitüsü, Endüstri Mühendisliği (Dr), Turkey 2000 - 2006

Postgraduate, Dokuz Eylul University, Fen Bilimleri Enstitüsü, Endüstri Mühendisliği (YI) (Tezli), Turkey 1995 - 1999

Undergraduate, Dokuz Eylul University, Mühendislik Fakültesi, Endüstri Mühendisliği Bölümü, Turkey 1992 - 1995

### Foreign Languages

English, C1 Advanced

### Dissertations

Doctorate, A high-level petri net based decision support system for real-time scheduling and control of flexible manufacturing systems: An object-oriented approach, Dokuz Eylul University, Fen Bilimleri Enstitüsü, Endüstri Mühendisliği (Dr), 2006

Postgraduate, Modelling, behavioral analysis, and performance evaluation of an automotive assembly plant by using Petri Nets, Dokuz Eylul University, Fen Bilimleri Enstitüsü, Endüstri Mühendisliği (YI) (Tezli), 1999

### Academic Titles / Tasks

Associate Professor, Dokuz Eylul University, Mühendislik Fakültesi, Endüstri Mühendisliği Bölümü, 2016 - Continues

Assistant Professor, Dokuz Eylul University, Mühendislik Fakültesi, Endüstri Mühendisliği Bölümü, 2009 - 2016

Research Assistant, Dokuz Eylul University, Mühendislik Fakültesi, Endüstri Mühendisliği Bölümü, 1997 - 2009

Research Assistant, Institut Nationale Polytechnique de Grenoble, Department Of Industrial Engineering And Management, 2006 - 2007

Research Assistant, Technische Universitaet Hamburg, Institute Of Business Logistics And General Management, 2006 - 2006

### Academic and Administrative Experience

Dokuz Eylul University, 2010 - 2011

### Courses

Modelling and Analysis of Manufacturing Systems using Petri Nets, Postgraduate, 2023 - 2024, 2022 - 2023  
M.Sc.Research, Postgraduate, 2022 - 2023, 2021 - 2022  
M.Sc.Thesis, Postgraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022  
M.Sc.Seminar, Postgraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022  
Bitirme Projesi, Undergraduate, 2023 - 2024, 2022 - 2023  
Kesikli Olay Sistemlerinin Modelleme ve Analizi, Undergraduate, 2023 - 2024  
Seminer, Undergraduate, 2023 - 2024, 2022 - 2023  
Yönetim ve Organizasyon, Undergraduate, 2023 - 2024  
İstatistik II, Undergraduate, 2021 - 2022  
Ph.D. Thesis, Doctorate, 2022 - 2023, 2021 - 2022  
Ph.D. Research, Doctorate, 2022 - 2023, 2021 - 2022  
BİTİRME PROJESİ, Undergraduate, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010  
BUSİNESS MANAGEMENT AND ORGANİZATİON, Postgraduate, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010  
YÖNETİM VE ORGANİZASYON, Undergraduate, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010, 2008 - 2009  
M.SC. THESIS, Postgraduate, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010  
Seminer, Undergraduate, 2013 - 2014  
M.SC. RESEARCH, Postgraduate, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010  
M.SC. SEMİNAR, Postgraduate, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011  
İSTATİSTİK II, Undergraduate, 2012 - 2013  
İSTATİSTİK I, Undergraduate, 2012 - 2013, 2011 - 2012  
KURUMSAL KAYNAK PLANLANMASI, Undergraduate, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010  
STATİSTİCAL TECHNIQUES FOR ENGINEERING MANAGEMENT, Postgraduate, 2012 - 2013, 2010 - 2011, 2009 - 2010  
KESİKLİ OLAY SİSTEMLERİNİN MODELLENMESİ VE ANALİZİ, Undergraduate, 2011 - 2012, 2010 - 2011  
KURUMSAL KAYNAK PLANLAMASI, Postgraduate, 2010 - 2011, 2009 - 2010  
TEKNİK İNGİLİZCE I, Undergraduate, 2009 - 2010  
MODELING AND ANALYSIS OF DISCRETE EVENT SYSTEMS, Undergraduate, 2009 - 2010  
TAMİNLEME VE ZAMAN SERİLERİ, Undergraduate, 2009 - 2010  
M.SC. TERM PROJECT, Postgraduate, 2009 - 2010

## Advising Theses

TUNÇEL MEMİŞ G., Türkiye'deki asit yağmurlarının kaotik analizi, Postgraduate, A.ŞENER(Student), 2019  
TUNÇEL MEMİŞ G., İki taraflı montaj hattı dengeleme probleminde öğretme-öğrenme tabanlı optimizasyon algoritması ve grup atama yöntemi kullanımı, Postgraduate, D.AYDIN(Student), 2013  
TUNÇEL MEMİŞ G., Evaluation of order picking systems using simulation, Postgraduate, G.ÇİÇEK(Student), 2013  
TUNÇEL MEMİŞ G., Tek meydanlı yerde bekleme problemi: Adnan Menderes Havalimanında bir uygulama, Postgraduate, A.SATILMIŞ(Student), 2011

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

- I. **Chaotic time series analysis of acid rain in Türkiye**  
Sener A., Tunçel Memiş G., Kamislioglu M.  
International Journal of Global Warming, vol.32, no.1, pp.1-28, 2024 (SCI-Expanded)
- II. **SIMULATION OF MULTI-CRANE SINGLE AND DUAL CYCLING STRATEGIES IN A CONTAINER TERMINAL**  
Deniz E., Tuncel G., Yalcinkaya O., Esmer S.  
INTERNATIONAL JOURNAL OF SIMULATION MODELLING, vol.20, no.3, pp.465-476, 2021 (SCI-Expanded)

- III. **Two-sided assembly line balancing using teaching-learning based optimization algorithm**  
TUNÇEL MEMİŞ G., Aydın D.  
COMPUTERS & INDUSTRIAL ENGINEERING, vol.74, pp.291-299, 2014 (SCI-Expanded)
- IV. **A fuzzy analytic hierarchy process methodology for the supplier selection problem**  
Özfiat P. M., Taşoglu G. T., Memiş G.  
Journal of Enterprise Information Management, vol.27, no.3, pp.292-301, 2014 (SCI-Expanded)
- V. **Assembly line balancing with positional constraints, task assignment restrictions and station paralleling: A case in an electronics company**  
TUNÇEL MEMİŞ G., Topaloglu Ş. A.  
COMPUTERS & INDUSTRIAL ENGINEERING, vol.64, no.2, pp.602-609, 2013 (SCI-Expanded)
- VI. **An integrated modeling approach for shop-floor scheduling and control problem of flexible manufacturing systems**  
Tuncel G.  
INTERNATIONAL JOURNAL OF ADVANCED MANUFACTURING TECHNOLOGY, vol.59, pp.1127-1142, 2012 (SCI-Expanded)
- VII. **Risk assessment and management for supply chain networks: A case study**  
Tunçel Memiş G., Alpan G.  
COMPUTERS IN INDUSTRY, vol.61, no.3, pp.250-259, 2010 (SCI-Expanded)
- VIII. **Applications of Petri nets in production scheduling: a review**  
Tuncel G., Bayhan G. M.  
INTERNATIONAL JOURNAL OF ADVANCED MANUFACTURING TECHNOLOGY, vol.34, pp.762-773, 2007 (SCI-Expanded)
- IX. **Modelling, behavioral analysis and performance evaluation of an automotive assembly plant using petri nets**  
Bayhan G., Tuncel G.  
INTERNATIONAL JOURNAL OF INDUSTRIAL ENGINEERING-THEORY APPLICATIONS AND PRACTICE, vol.9, no.3, pp.238-247, 2002 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Depo Yönetiminde Sipariş Toplama Sistemleri Bir Literatür Araştırması**  
TAŞOĞLU G., TUNÇEL MEMİŞ G.  
DEÜ Mühendislik Bilimleri Dergisi, vol.14, no.3, 2012 (Peer-Reviewed Journal)

## Refereed Congress / Symposium Publications in Proceedings

- I. **A simulation modelling framework of multi crane dual cycling strategy for container terminals**  
DENİZ E., TUNÇEL MEMİŞ G.  
International Hazar Scientific Researches Conference, Baku, Azerbaijan, 10 April 2021
- II. **Simulation modelling of crane double cycling strategy in marine terminal logistics**  
DENİZ E., YALÇINKAYA Ö., TUNÇEL MEMİŞ G.  
LM-SCM 2017 XV. International Logistics and Supply Chain Congress, 19 - 20 October 2017
- III. **İNTERMODAL TAŞIMACILIK STRATEJİK TAKTİKSEL VE OPERASYONEL SEVİYELERDE PLANLAMA PROBLEMLERİ ÜZERİNE BİR LİTERATÜR TARAMASI**  
TUNÇEL MEMİŞ G., DENİZ E.  
Uluslararası Katılımlı 16. Üretim Araştırmaları Sempozyumu, İstanbul, Turkey, 12 - 14 October 2016, pp.1133-1138
- IV. **İntermodal Yük Taşımacılığı Planlaması Üzerine Bir Literatür Taraması**  
TUNÇEL MEMİŞ G., DENİZ E.  
Yöneylem Araştırması Endüstri Mühendisliği 36. Ulusal Kongresi, İzmir, Turkey, 13 - 15 July 2016, pp.24

- V. **An Integer Programming Model and a Shortest Path Algorithm for an Intermodal Transportation Problem**  
TOPALOĞLU Ş. A., EDİS E. B., TUNÇEL MEMİŞ G., Kılınç P.  
26th EURO-INFORMS Conference, 1 - 04 July 2013
- VI. **Tümleşik (Intermodal) Taşımacılıkta En İyi Taşıma Birleşimlerinin Belirlenmesi için Bir Tamsayılı Programlama Modeli**  
TOPALOĞLU Ş. A., EDİS E. B., TUNÇEL MEMİŞ G., Kılınç P.  
Yöneylem Araştırması ve Endüstri Mühendisliği 33. Ulusal Kongresi, Turkey, 26 - 28 June 2013
- VII. **A FUZZY ANALYTIC HIERARCHY PROCESS METHODOLOGY FOR THE SUPPLIER SELECTION PROBLEM**  
MIZRAK ÖZFIRAT P., Tuna G., TUNÇEL MEMİŞ G.  
10th International Conference on Fuzzy Logic and Intelligent Technologies in Nuclear Science (FLINS), İstanbul, Turkey, 26 - 29 August 2012, vol.7, pp.291-299
- VIII. **Bir Elektronik Firmasında Paralel İstasyon ve Atama Kısıtlı Montaj Hattı Dengeleme Çalışması**  
TOPALOĞLU Ş. A., TUNÇEL MEMİŞ G.  
Endüstri Mühendisliği Yazılımları ve Uygulamaları Kongresi, Turkey, 30 September - 01 October 2011
- IX. **High-level Petri net based modeling approach for risk management in supply chain networks**  
TUNÇEL MEMİŞ G., Alpan G.  
21st European Simulation and Modelling Conference (ESM 2007), St Julians, Malta, 22 - 24 October 2007, pp.178-179
- X. **A high-level petri net based decision support system for real-time scheduling and control of flexible manufacturing systems: An object-oriented approach**  
Tuncel G., Bayhan G. M.  
5th International Conference on Computational Science - ICCS 2005, Atlanta, GA, United States Of America, 22 - 25 May 2005, vol.3514, pp.843-851
- XI. **A comparative analysis of activity-based costing and traditional costing**  
EREN AKYOL D., TUNÇEL MEMİŞ G., Bayhan G. M.  
Conference of the World-Academy-of-Science-Engineering-and-Technology, Paris, France, 26 - 28 January 2005, vol.3, pp.44-47
- XII. **Application of Activity-Based Costing in a manufacturing company: A comparison with traditional costing**  
Tuncel G., Akyol D. E., Bayhan G. M., Koker U.  
5th International Conference on Computational Science - ICCS 2005, Atlanta, GA, United States Of America, 22 - 25 May 2005, vol.3516, pp.562-569
- XIII. **Modeling Analysis and Performance Evaluation of a Manufacturing System using Generalized Stochastic Petri Nets**  
EREN AKYOL D., TUNÇEL MEMİŞ G.  
The 20th European Conference on Operational Research (EURO XX), Rodos, Greece, 4 - 07 July 2004, pp.104

## Metrics

Publication: 26

Citation (WoS): 306

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