

## Res. Asst. PhD GÜLHAN TOĞA

### Personal Information

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### International Researcher IDs

ScholarID: OvFfQMgAAAAJ

ORCID: 0000-0001-8835-1769

Publons / Web Of Science ResearcherID: AAT-1830-2021

ScopusID: 57205615807

Yoksis Researcher ID: 144041

### Education Information

Doctorate, Erciyes University, Fen Bilimleri Enstitüsü, Endüstri Mühendisliği Ana Bilim Dalı, Turkey 2018 - 2022

Postgraduate, Erciyes University, Fen Bilimleri Enstitüsü, Endüstri Mühendisliği Ana Bilim Dalı, Turkey 2009 - 2012

Undergraduate, Gaziantep University, Faculty Of Engineering, Endüstri Mühendisliği Bölümü, Turkey 2003 - 2008

### Foreign Languages

English, C1 Advanced

### Dissertations

Doctorate, Malzeme tipi farklı ürünlerin eklemeli imalat makinasında çizelgeleme problemi için çözüm yaklaşımları, Erciyes University, Fen Bilimleri Enstitüsü, 2022

Postgraduate, Koroner arter hastalarında stent implantasyonu sonrası ölümlerin Yapay Sinir Ağları ile tahminlemesi, Erciyes Üniversitesi, Fen Bilimleri Enstitüsü, Endüstri Mühendisliği Ana Bilim Dalı, 2011

### Research Areas

Neural Networks, Industrial Engineering, Linear Programming, Heuristic Methods, Integer and Mixed Integer Programming, Scheduling, Modelling and Analysis of Production Systems, Technology and Innovation Management, Engineering and Technology

### Academic Titles / Tasks

Research Assistant, Erciyes University, Mühendislik Fakültesi, Endüstri Mühendisliği, 2009 - Continues

### Courses

Üretim Planlama ve Kontrol , Undergraduate, 2022 - 2023  
Kariyer Planlama, Undergraduate, 2022 - 2023  
Mesleki İngilizce, Undergraduate, 2022 - 2023  
Bilgi Sistemleri ve Bilgisayara Giriş, Undergraduate, 2022 - 2023  
Süreç Yönetimi ve Kontrolü, Undergraduate, 2022 - 2023

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

- I. **Single Batch Processing Machine Scheduling with Sequence-Dependent Setup Times and Multi-Material Parts in Additive Manufacturing**  
Toksarı M. D., Toğa G.  
CIRP JOURNAL OF MANUFACTURING SCIENCE AND TECHNOLOGY, vol.37, pp.302-311, 2022 (SCI-Expanded)
- II. **COVID-19 prevalence forecasting using Autoregressive Integrated Moving Average (ARIMA) and Artificial Neural Networks (ANN): Case of Turkey**  
TOĞA G., ATALAY B., TOKSARI M. D.  
JOURNAL OF INFECTION AND PUBLIC HEALTH, vol.14, no.7, pp.811-816, 2021 (SCI-Expanded)
- III. **Rheological analysis for detection of extra virgin olive oil adulteration with vegetable oils: predicting oil type by artificial neural network**  
Dursun Çapar T., Kavuncuoğlu H., Yalçın H., Toğa G.  
Quality Assurance And Safety Of Crops & Foods, vol.11, pp.687-699, 2019 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Anthocyanin and bioactivity properties of *berberis crategina* DC. In buffer system and apple juice: impact of temperature, time, and pH; Prediction using artificial neural network**  
POLAT KAYA H., Koc T., EKİCİ L., TOĞA G.  
SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES-SIGMA MUHENDISLIK VE FEN BILIMLERI DERGISI, vol.42, no.2, pp.438-449, 2024 (ESCI)
- II. **Anthocyanin and bioactivity properties of *berberis crategina* DC. In buffer system and apple juice: impact of temperature, time, and pH; Prediction using artificial neural network**  
Polat Kaya H., Koç T., Ekici L., Toğa G.  
SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES, vol.42, no.2, pp.438-449, 2024 (ESCI)
- III. **Diffusion and Substitution Effect on Telecommunication Technologies in TURKEY**  
Toğa M., Toğa G.  
Academic Platform-Journal of Engineering and Science, vol.7, no.3, pp.496-506, 2019 (Peer-Reviewed Journal)

## Books & Book Chapters

- I. **Havacılık Endüstrisinde İş Sağlığı ve Güvenliği**  
Atalay B., Toğa G., Toksarı M. D.  
in: Havacılık Yönetimi ve Çağdaş Yaklaşımlar, Prof. Dr. Özgür Demirtaş, Editor, Nobel Yayın Dağıtım, Ankara, pp.229-244, 2023
- II. **Modeling the Mortality Prediction of Patients With Stemi Undergoing Primary PCI Using Data Mining**  
Zeydan M., Toğa G.  
in: INTERNATIONAL RESEARCH IN HEALTH SCIENCES, Assoc. Prof. Dilek ATİK MD., Editor, Platanus Publishing, Ankara, pp.307-343, 2023
- III. **Reducing Mirror Slippage of Nightstand with Plackett-Burman DOE and ANN Techniques**  
ZEYDAN M., PALA G.

## Refereed Congress / Symposium Publications in Proceedings

- I. **Usage of the Facial Action Coding System to predict customer gender profile: A neuro marketing application in TURKEY**  
Gürbüz F., Toğa G.  
2nd International Symposium on Multidisciplinary Studies and Innovative Technologies, Ankara, Turkey, 19 - 21 October 2018
- II. **Türkiye'deki Sabit-Mobil İkame Etkisi Üzerine Bir Araştırma**  
TOĞA M., TOĞA G.  
UMTEB III-Uluslararası Mesleki ve Teknik Bilimler Kongresi, Gaziantep, Turkey, 21 - 23 June 2018, pp.378
- III. **Mobil İletişim Teknolojilerinin Türkiye'de Yayılımı ve Rekabeti**  
TOĞA M., TOĞA G.  
UMTEB III-Uluslararası Mesleki ve Teknik Bilimler Kongresi, Gaziantep, Turkey, 21 - 23 June 2018, pp.379
- IV. **Usage of artificial neural network as a tool of technology diffusion modelling**  
Toğa G., Gürbüz F.  
ICENS-4. International Conference on Engineering and Natural Science, Kyiv, Ukraine, 2 - 06 May 2018, pp.1231
- V. **A Neuromarketing Application in TURKEY**  
GÜRBÜZ F., Akdal Ş., TOĞA G., Gültepe M.  
ICENS-4. International Conference on Engineering and Natural Science, Kiev, Ukraine, 2 - 06 May 2018, pp.1232
- VI. **Reverse Logistic Network Design for Recycling of Solid Wastes**  
GÜRBÜZ F., Ertem A., Eren Y. E., TOĞA G.  
ICENS-4. International Conference on Engineering and Natural Science, Kiev, Ukraine, 2 - 06 May 2018, pp.1233
- VII. **Effects of new payment regulations on mobile phone diffusion in TURKEY**  
Dereli T., Toğa G., Durmuşoğlu A.  
44th International Conference on Computers and Industrial Engineering and 9th International Symposium on Intelligent Manufacturing and Service Systems, İstanbul, Turkey, 14 - 16 October 2014, pp.1883-1893
- VIII. **On the bridges between two disciplines: Technology management-industrial engineering**  
Dereli T., TOĞA G., Durmusoglu A.  
PICMET 2014, Kanazawa, Japan, 27 - 31 August 2014, pp.1515-1522
- IX. **An emerging trend in Industrial Engineering: Technology Management publications**  
Dereli T., Toğa G., Durmuşoğlu A.  
YAEM 2014, Bursa, Turkey, 25 - 27 June 2014, pp.117
- X. **Veri Madenciliği Teknikleri İle Stent İmplantasyonu Sonrası Ölümlerin Tahmin Edilmesi**  
PALA G., ZEYDAN M.  
YAEM 2012, İstanbul, Turkey, 1 - 04 June 2012, pp.127
- XI. **Reducing Variation of Dyeing Process in Textile Manufacturing Industry**  
Zeydan M., Pala G.  
International Conference on Industrial and Information Engineering, Venice, Italy, 1 - 04 November 2011, pp.1626-1634

## Supported Projects

- KALAY N., PALA G., İNANÇ M. T., Project Supported by Higher Education Institutions, Koroner Arter hastalığında kardiyak olayların öngörülmesinde rolü olan yeni biyokimyasal parametrelerin yapay sinir ağları ile belirlenmesi, 2011 - 2014
- ZEYDAN M., PALA G., Project Supported by Higher Education Institutions, Halı Üretiminde Boya Renk Farklılığı Değişkenliğinin Deney Tasarımı ile Azaltılması, 2010 - 2012

## **Memberships / Tasks in Scientific Organizations**

PICMET, Member, 2014 - Continues

## **Metrics**

Publication: 20

Citation (WoS): 22

Citation (Scopus): 36

H-Index (WoS): 2

H-Index (Scopus): 1

## **Congress and Symposium Activities**

UMTEB III- Uluslararası Mesleki ve Teknik Bilimler Kongresi, Attendee, Gaziantep, Turkey, 2018

ICENS-4th International Conference on Engineering and Natural Sciences, Attendee, Kyiv, Ukraine, 2018

IMSS 14 and CIE 44, Attendee, İstanbul, Turkey, 2014

PICMET 2014, Attendee, Kanazawa, Japan, 2014

YAEM 2014, Attendee, Bursa, Turkey, 2014

YAEM 2012, Attendee, İstanbul, Turkey, 2012

ICIE 2011 : International Conference on Industrial and Information Engineering, Venice-Italy, 2011, Attendee, Italy, 2011