

## Asst. Prof. MERAL ÖZARSLAN YATAK

### Personal Information

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### International Researcher IDs

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Publons / Web Of Science ResearcherID: CAA-1163-2022

ScopusID: 54421687700

Yoksis Researcher ID: 102737

### Education Information

Doctorate, Gazi University, Bilişim Enstitüsü, Elektronik Ve Bilgisayar Eğitimi Anabilim Dalı (Disiplinlerarası), Turkey 2005 - 2012

Postgraduate, Gazi University, Fen Bilimleri Enstitüsü, Elektronik Bilgisayar Eğitimi (YI) (Tezli), Turkey 2002 - 2005

Undergraduate, Gazi University, Teknik Eğitim Fakültesi, Elektronik Ve Bilgisayar Eğitimi Bölümü, Turkey 1998 - 2002

### Foreign Languages

English, B2 Upper Intermediate

### Certificates, Courses and Trainings

Vocational Training, Academic Writing Course, Gazi Üniversitesi, 2019

Industrial Rights, Intellectual Property Rights, Patent, Licensing, Patent ve Faydalı Model Ön Araştırma , Türk Patent Enstitüsü, 2017

Vocational Course, Twincat3, Beckhoff Automation, 2015

### Dissertations

Doctorate, Fotovoltaik beslemeli aralıklı tip - 2 bulanık mantık denetleyicili iki kademeli dönüştürücünün gerçekleştirilmesi, Gazi University, Bilişim Enstitüsü, Elektronik Ve Bilgisayar Eğitimi Anabilim Dalı (Disiplinlerarası), 2012

Postgraduate, Gunt RT 512 sıvı seviye denetim cihazının bulanık mantık denetleyici ile denetimi, Gazi University, Fen Bilimleri Enstitüsü, Elektronik Bilgisayar Eğitimi (YI) (Tezli), 2005

### Research Areas

Natural Sciences, Engineering and Technology

## Academic Titles / Tasks

Research Assistant PhD, Gazi University, Teknik Eğitim Fakültesi, Elektronik ve Bilgisayar Eğitimi, 2012 - 2016

## Courses

Mezuniyet Projesi, Undergraduate, 2023 - 2024  
-İş Yeri Eğitimi, Undergraduate, 2023 - 2024  
Kontrol Sistemleri II, Undergraduate, 2023 - 2024  
Sayısal Kontrol, Postgraduate, 2023 - 2024  
Staj, Undergraduate, 2023 - 2024  
Kontrol Sistemleri II Lab, Undergraduate, 2023 - 2024  
Güç Sistemlerinde İzleme ve Koruma, Undergraduate, 2023 - 2024  
Kontrol Sistemleri Lab I, Undergraduate, 2022 - 2023  
Kontrol Sistemleri I, Undergraduate, 2022 - 2023  
BM-203 ELEKTRİK DEVRELERİ, Undergraduate, 2017 - 2018  
TKN-403 STAJ, Undergraduate, 2017 - 2018  
EE-415 KONTROL SİSTEMLERİ II LAB., Undergraduate, 2017 - 2018  
EE -338 MÜHENDİSLİK TASARIMI, Undergraduate, 2017 - 2018  
EE-413 KONTROL SİSTEMLERİ-II, Undergraduate, 2017 - 2018  
EE-413 KONTROL SİSTEMLERİ II, Undergraduate, 2017 - 2018  
EE-415 KONTROL SİSTEMLERİ-II LAB., Undergraduate, 2017 - 2018

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

- I. **Optimal Control Method of Semi-Active Suspension System and Processor-in-the-Loop Verification**  
Ergin T., Özarslan Yatak M.  
APPLIED SCIENCES, vol.13, no.20, pp.1-23, 2023 (SCI-Expanded)
- II. **Ride Comfort-Road Holding Trade-off Improvement of Full Vehicle Active Suspension System by Interval Type-2 Fuzzy Control**  
Yatak M., ŞAHİN F.  
ENGINEERING SCIENCE AND TECHNOLOGY-AN INTERNATIONAL JOURNAL-JESTECH, vol.24, no.1, pp.259-270, 2021 (SCI-Expanded)
- III. **Type-2 fuzzy logic control of a photovoltaic sourced two stages converter**  
BAY Ö. F., ÖZARSLAN YATAK M.  
JOURNAL OF INTELLIGENT & FUZZY SYSTEMS, vol.35, no.1, pp.1103-1117, 2018 (SCI-Expanded)
- IV. **A practical application of the interval type-2 fuzzy controller for a photovoltaic sourced DC-DC boost converter**  
ÖZARSLAN YATAK M., BAY Ö. F.  
JOURNAL OF INTELLIGENT & FUZZY SYSTEMS, vol.26, no.6, pp.3021-3035, 2014 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Fuzzy Backstepping Control of Industrial Liquid Level System**  
Şahin N., Özarslan Yatak M.  
Gazi Mühendislik Bilimleri Dergisi, vol.10, no.2, pp.355-367, 2024 (Peer-Reviewed Journal)
- II. **Fuzzy Logic Controller for Half Vehicle Active Suspension System: An Assessment on Ride Comfort and Road Holding**

ÖZARSLAN YATAK M., HİSAR Ç., ŞAHİN F.

International Journal of Automotive Science and Technology, vol.8, no.2, pp.179-187, 2024 (Scopus)

- III. **Novel Renewable Energy Source in Standalone Microgrid Application with Island Load Management**  
Teke M., Yatak M., Yaseen E.  
Electronics, vol.27, no.1, pp.3-8, 2023 (Scopus)
- IV. **Power system fault detection and notification with Wi-Fi**  
Çatalca Ü., Metin B. E., Özarslan Yatak M., Hisar Ç., Teke M.  
J Comp Electr Electron Eng Sci, vol.1, no.1, pp.15-19, 2023 (Peer-Reviewed Journal)
- V. **Frequency Optimization of Ultrasonic Welding System with Gradient Descent Method Gradient Descent Metodu ile Ultrasonik Kaynak Sisteminin Frekans Optimizasyonu**  
Teke M., Kalinbacoglu A., DURAN F., ÖZARSLAN YATAK M.  
El-Cezeri Journal of Science and Engineering, vol.10, no.1, pp.46-56, 2023 (Scopus)
- VI. **Critical Aspects and Technology of Fixed Automated Spray Technology System**  
Kılıç İ., ÖZARSLAN YATAK M., DURAN F.  
Gazi Üniversitesi Fen Bilimleri Dergisi Part C: Tasarım ve Teknoloji, vol.10, no.4, pp.953-963, 2022 (Peer-Reviewed Journal)
- VII. **Artificial Neural Network Modeling of Industrial Liquid Level Control**  
Şahin N., Tatbul F., Kuş A., ÖZARSLAN YATAK M.  
El-Cezeri Journal of Science and Engineering, vol.8, no.2, pp.1228-1239, 2022 (Scopus)
- VIII. **Implementation of Collaborative Multi-Robot System Carrying Cargos Autonomously**  
BUDAK E., DURAN F., ÖZARSLAN YATAK M., BAYIR R.  
Uluslararası Mühendislik Araştırma ve Geliştirme Dergisi, vol.13, no.1, pp.55-64, 2021 (Peer-Reviewed Journal)
- IX. **Design and Implementation of Android-Based Autonomous Human Tracking Vehicle**  
ÖZARSLAN YATAK M., GÖKTAŞ B., DURAN F.  
Bilişim Teknolojileri Dergisi, vol.11, no.2, pp.157-162, 2018 (Peer-Reviewed Journal)
- X. **Reliability Assessments of Infant Incubator and the Analyzer**  
ÖZDEMİRÇİ E., ÖZARSLAN YATAK M., DURAN F., CANAL M. R.  
GAZI UNIVERSITY JOURNAL OF SCIENCE, vol.27, no.4, pp.1169-1175, 2014 (Scopus)

## Refereed Congress / Symposium Publications in Proceedings

- I. **International Conference on Advances and Innovations in Engineering**  
Tatbul F., ÖZARSLAN YATAK M.  
The 2nd International Conference on Advances and Innovations in Engineering, Elazığ, Turkey, 21 September 2023
- II. **Fuzzy Logic Controller for Half Vehicle Active Suspension System: An Assessment on Ride Comfort and Road Holding**  
Özarslan Yatak M., Hisar Ç., Şahin F.  
The 3rd International Symposium on Automotive Science and Technology, Ankara, Turkey, 7 - 08 September 2023
- III. **Endüstriyel Sıvı Seviye Denetim Sisteminin Yapay Sinir Ağları ile Modellenmesi**  
Şahin N., Tatbul F., Kuş A., Özarslan Yatak M.  
4th International Conference on Artificial Intelligence and Applied Mathematics in Engineering (ICAIAME 2022), Baku, Azerbaijan, 20 - 22 May 2022
- IV. **Design and Application of Printed Circuit Board Transfer Machine**  
CANAL M. R., HAS M. A., DURAN F., ÖZARSLAN YATAK M.  
5th International Conference on Advanced Technology Sciences (ICAT'17), 9 - 12 May 2017, pp.508-512
- V. **Designing and Performing of Serum Flow Rate by Microcontroller**  
KOÇER S., CANAL M. R., DURAN F., ÖZARSLAN YATAK M., GÜVENÇ S.  
Proc. of the Third Intl. Conf. on Advances in Information Processing and Communication Technology - IPCT 2015, ROMA, Italy, 10 - 11 December 2015, pp.38-42
- VI. **Fuzzy Control of a Grid Connected Three Phase Two Stage Photovoltaic System**

ÖZARSLAN YATAK M., BAY Ö. F.

III International Conference on Power Engineering, Energy and Electrical Drives (IEEE POWERENG 2011), 11 - 13 May 2011

**VII. Şebeke Etkileşimli Üç Fazlı İki Kademeli Fotovoltaik Sistem Modeli ve Simülasyonu**

ÖZARSLAN YATAK M., BAY Ö. F.

Nükleer ve Yenilebilir Enerji Kaynakları Konferansı NUYEK2009, 28 - 29 September 2009

**VIII. İnfomatik Dersinin İnternete Dayalı Öğretimi İçin Web Tabanlı İçeriğinin Geliştirilmesi ve Üretilmesi**

ÖZARSLAN YATAK M., KUBAT B., BAY Ö. F.

7th International Educational Technology Conference, 3 - 05 May 2007

**IX. Uzaktan Eğitim İçin Entegre Ofis Dersi Nin Web Tabanlı İçeriğinin Geliştirilmesi ve Üretilmesi**

ÖZARSLAN YATAK M., KUBAT B., BAY Ö. F.

Akademik Bilişim 2007, Turkey, 31 January - 02 February 2007, pp.159-166

**X. GUNT RT 512 SIVI SEVİYE DENETİM CİHAZININ BULANIK MANTIK İLE DENETİMİ**

ÖZARSLAN YATAK M., BAY Ö. F.

Otomatik Kontrol Ulusal Toplantısı (TOK'06), Turkey, 6 - 08 November 2006

## Supported Projects

ÖZARSLAN YATAK M., SEFA İ., DEMİRTAŞ M., TUBITAK Project, Güneş'ten Gelen Enerji, 2018 - 2018

Duran F., Derici S., Özarlan Yatak M., Özdemir Ş., Fesli U., Industrial Thesis Project, Buzlanma Önleyici Otomatik Püskürtme Sistemi, 2014 - 2016

DURAN F., ÖZARSLAN YATAK M., TUBITAK Project, Üstün Yetenekliler Kendi Robotunu Yapıyor, 2010 - 2011

## Student Project

R & D Project, Live Control in the Building Using RFID, Gazi University, Teknoloji Fakültesi, Elektrik - Elektronik Mühendisliği, Turkey, 2023 - Continues

R & D Project, Remote Control of Smart Greenhouse System with Lora, Gazi University, Teknoloji Fakültesi, Elektrik - Elektronik Mühendisliği, Turkey, 2023 - Continues

R & D Project, Demiryolu Hemzemin Geçidin LoRa ile Uzaktan Denetim, Gazi University, Teknoloji Fakültesi, Elektrik - Elektronik Mühendisliği, Turkey, 2022 - Continues

## Metrics

Publication: 24

Citation (WoS): 25

Citation (Scopus): 34

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H-Index (Scopus): 3