

## Res. Asst. BÜŞRA ÖZGENÇ

### Personal Information

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### International Researcher IDs

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Publons / Web Of Science ResearcherID: AAJ-7612-2021

ScopusID: 57210583190

Yoksis Researcher ID: 292696

### Education Information

Doctorate, Karadeniz Technical University, Mühendislik Fakültesi, Elektrik-Elektronik, Turkey 2019 - Continues

Postgraduate, Karadeniz Technical University, Mühendislik Fakültesi, Elektrik-Elektronik, Turkey 2016 - 2019

Undergraduate, Karadeniz Technical University, Mühendislik Fakültesi, Elektrik-Elektronik, Turkey 2012 - 2016

### Dissertations

Postgraduate, INVESTIGATION OF SHADING EFFECTS AND POWER LOSS REDUCTION IN GRID CONNECTED PV SYSTEMS, Karadeniz Technical University, Mühendislik Fakültesi, Elektrik-Elektronik, 2019

### Research Areas

Electrical and Electronics Engineering, Energy, Renewable energy, Engineering and Technology

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

- I. Performance improvement of an AVR system by symbiotic organism search algorithm-based PID-F controller**  
Ozgenç B., Ayas M. Ş., Altaş İ. H.  
NEURAL COMPUTING & APPLICATIONS, vol.34, no.10, pp.7899-7908, 2022 (SCI-Expanded)

### Articles Published in Other Journals

- I. Design of Evolutionary Algorithm Based PID Controller with filter for an Automatic Voltage Regulator**  
ÖZGENÇ B., AYAS M. Ş., ALTAŞ İ. H.  
Karadeniz Fen Bilimleri Dergisi, vol.10, no.1, pp.74-90, 2020 (Peer-Reviewed Journal)
- II. Optimally Tuned PID Controller Design for an AVR System: A Comparison Study**  
Özgenç B., Ayas M. Ş., Altaş İ. H.

## Refereed Congress / Symposium Publications in Proceedings

- I. **A Hybrid CNN-LSTM Framework for Unsupervised Anomaly Detection in Water Distribution Plant**  
Şahin A. K., Çavdar B., Doğan R. Ö., Ayas S., Özgenç B., Ayas M. Ş.  
Akıllı Sistemlerde Yenilikler ve Uygulamaları Konferansı (ASYU), Sivas, Turkey, 11 - 13 October 2023
- II. **A Hybrid CNN-LSTM Framework for Unsupervised Anomaly Detection in Water Distribution Plant**  
Şahin A. K., Çavdar B., Doğan R. Ö., Ayas S., Özgenç B., Ayas M. Ş.  
Akıllı Sistemlerde Yenilikler ve Uygulamaları Konferansı (ASYU), Sivas, Turkey, 11 - 13 October 2023
- III. **Anomaly Detection in Predicted Water Treatment Data Using Hybrid CNN-LSTM Network Model**  
Özgenç B., Ayas S., Doğan R. Ö., Çavdar B., Şahin A. K., Ayas M. Ş.  
31. IEEE Sinyal İşleme ve İletişim Uygulamaları Kurultayı, İstanbul, Turkey, 5 - 08 July 2023
- IV. **A Hybrid Optimization Approach to Design Optimally Tuned PID Controller for an AVR System**  
ÖZGENÇ B., AYAS M. Ş., ALTAŞ İ. H.  
2020 International Congress on Human-Computer Interaction, Optimization and Robotic Applications (HORA), Ankara, Turkey, 26 June 2020
- V. **Reducing of Power Losses in Partial Shading PV Systems**  
Özgenç B., Altaş İ. H.  
Yenilenebilir Enerji Kaynakları Sempozyumu, Antalya, Turkey, 12 - 14 December 2019
- VI. **Comparison of MPPT Algorithms in PV Systems**  
ÖZGENÇ B., ALTAŞ İ. H.  
Akıllı Sistemlerde Yenilikler ve Uygulamaları Konferansı, İzmir, Turkey, 31 October - 02 November 2019, pp.1-5
- VII. **Implementation of A New Maximum Power Point Tracking Algorithm for partially shaded PV Systems**  
ÖZGENÇ B., ALTAŞ İ. H.  
7th International Istanbul Smart Grids and Cities Congress and Fair (ICSG), İstanbul, Turkey, 25 - 26 April 2019, pp.119-123

## Supported Projects

Altaş İ. H., Ayas M. Ş., Baysal Y. A., Danayiyen Y., Özgenç B., TUBITAK Project, Grid/Load Integration of Photovoltaic Systems with shadow effect for Energy Continuity, 2023 - 2026

Ayas M. Ş., Ayas S., Özgenç B., Doğan R. Ö., Altaş İ. H., TUBITAK Project, Su Arıtma Ve Dağıtma Sistemlerindeki Aykırılık Tespit Modellerine Yönelik Optimum Kara Kutu Çekişmeli Saldırılarının Tasarlanması Ve Savunma Mekanizmasının Geliştirilmesi, 2022 - 2024

## Metrics

Publication: 10

Citation (WoS): 21

Citation (Scopus): 40

H-Index (WoS): 2

H-Index (Scopus): 2