

## Res. Asst. MERVE DEMİRCİ

### Personal Information

**Email:** mervedemirci@gazi.edu.tr

**Web:** <https://avesis.gazi.edu.tr/mervedemirci>

### International Researcher IDs

ORCID: 0000-0001-8192-7366

Yoksis Researcher ID: 228039

### Education Information

Doctorate, Gazi University, Fen Bilimleri Enstitüsü, Elektrik Elektronik Mühendisliği, Turkey 2018 - Continues

Postgraduate, Gazi University, Fen Bilimleri Enstitüsü, Elektrik-Elektronik Mühendisliği (YI) (Tezli), Turkey 2016 - 2018

Undergraduate, Ataturk University, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, Turkey 2010 - 2018

### Dissertations

Postgraduate, Güç sistemlerinde kararlılık analizi, Gazi University, Fen Bilimleri Enstitüsü, Elektrik-Elektronik Mühendisliği (YI) (Tezli), 2018

### Research Areas

Energy

### Academic Titles / Tasks

Research Assistant, Gazi University, Fen Bilimleri Enstitüsü, -, 2016 - Continues

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

- I. **Improvement of power transformer fault diagnosis by using sequential Kalman filter sensor fusion**  
DEMİRCİ M., Gozde H., TAPLAMACIOĞLU M. C.  
INTERNATIONAL JOURNAL OF ELECTRICAL POWER & ENERGY SYSTEMS, vol.149, 2023 (SCI-Expanded)

### Articles Published in Other Journals

- I. **Fault Analysis with Data Pre-Processing Methods in Power Transformers**  
Demirci M., Saka M., Gözde H., Taplamacioğlu M. C.  
Turkish Journal of Electrical Power and Energy Systems, vol.3, no.3, pp.133-139, 2023 (Peer-Reviewed Journal)
- II. **HUMAN DISEASE DETECTION USING ARTIFICIAL INTELLIGENCE**  
Jain V., Jha B., Joshi S., Miglani S., Singal A., Babbar S., DEMİRCİ M., TAPLAMACIOĞLU M. C.  
International Journal on Technical and Physical Problems of Engineering, vol.15, no.2, pp.125-133, 2023 (Scopus)

### III. DYNAMIC VISUALIZATION OF AN IMAGE FOR INTERACTIVE ACTIONS

Jain V., JAIN Y., DHINGRA H., Jain A., DEMİRCİ M., TAPLAMACIOĞLU M. C.

International Journal on Technical and Physical Problems of Engineering, vol.53, no.14, pp.363-369, 2022 (Scopus)

### IV. SIAMESE NEURAL NETWORKS FOR PANDEMIC DETECTION USING CHEST RADIOGRAPHS

Jain V., Jain A., Gark V., Jain A., DEMİRCİ M., TAPLAMACIOĞLU M. C.

International Journal on "Technical and Physical Problems of Engineering" (IJTPE), vol.51, no.14, pp.104-110, 2022 (Scopus)

### V. FAULT DIAGNOSIS OF POWER TRANSFORMERS WITH MACHINE LEARNING METHODS USING TRADITIONAL METHODS DATA

Demirci M., Gözde H., Taplamacioğlu M. C.

International Journal on Technical and Physical Problems of Engineering, vol.13, no.49, pp.225-230, 2021 (Scopus)

### VI. 36KV-630A SINGLE SHAFT 3-PHASE MAGNETIC ARC INTERRUPTER LBS DESIGN FOR SMART GRID APPLICATIONS

ALTINOK E. C., GOKSU E., UZEL S., UNVER T., DEMİRCİ M., GÖZDE H., TAPLAMACIOĞLU M. C.

International Journal on "Technical and Physical Problems of Engineering" (IJTPE), vol.13, no.49, pp.72-77, 2021 (Scopus)

## Refereed Congress / Symposium Publications in Proceedings

### I. Effect of Electrical Vehicles Participation Rate on Time Delayed Load Frequency Control

SAKA M., DEMİRCİ M., EKE İ., GÖZDE H., DURSUN M., TAPLAMACIOĞLU M. C.

International Conference On Electrical And Electronics Engineering (ICEEE 2023), İstanbul, Turkey, 8 - 10 May 2023

### II. Experimental Electromagnetic Compatibility Test on a Fault Line Indicator Prototype in MV Distribution Networks

ÖZDEMİR O., ŞAHİN H., UCAR G., DEMİRCİ M., DÜZKAYA H., TAPLAMACIOĞLU M. C.

2023 the 13th IEEE International Conference on Power, Energy and Electrical Engineering (CPEEE 2023), Tokyo, Japan, 25 February 2023

### III. Farklı Kontrolörlerin ve Optimizasyon Yöntemlerinin Yük Frekans Kontrol Performanslarına Etkisi

SAKA M., DEMİRCİ M., EKE İ., GÖZDE H., TAPLAMACIOĞLU M. C.

ELEKTRİK-ELEKTRONİK ve BİYOMEDİKAL MÜHENDİSLİĞİ KONFERANSI, ELECO 2022, Bursa, Turkey, 24 November 2022

### IV. Güç Transformatörleri Arıza Teşhisinde Veri Ön İşleme Yöntemlerinin Sınıflandırıcı Performansına Etkisinin İncelenmesi

DEMİRCİ M., SAKA M., GÖZDE H., TAPLAMACIOĞLU M. C.

ELEKTRİK-ELEKTRONİK ve BİYOMEDİKAL MÜHENDİSLİĞİ KONFERANSI, ELECO 2022, Bursa, Turkey, 24 November 2022

### V. EMI Filter Design with Passive Components for Power Lines

Azgin İ., Inan A., Celiktaş s., Acar K. B., TAPLAMACIOĞLU M. C., DEMİRCİ M.

2022 International Congress on Human-Computer Interaction, Optimization and Robotic Applications (HORA), Ankara, Turkey, 9 - 11 June 2022

### VI. Analysis of Fuel Cell Based Time Delayed Load Frequency Control Having Energy Storage Systems

SAKA M., DEMİRCİ M., EKE İ., GÖZDE H., DURSUN M., TAPLAMACIOĞLU M. C.

2022 9th International Conference on Electrical and Electronics Engineering (ICEEE), Alanya, Turkey, 29 March 2022

### VII. Dempster Shafer Evidence Theory Application for Fault Diagnosis of Power Transformers

DEMİRCİ M., SAKA M., GÖZDE H., DURSUN M., TAPLAMACIOĞLU M. C.

2022 9th International Conference on Electrical and Electronics Engineering (ICEEE), Alanya, Turkey, 29 March 2022

### VIII. MACHINE LEARNING BASED FAULT DIAGNOSIS OF POWER TRANSFORMERS BY USING TRADITIONAL

## **GAS DATA**

DEMİRCİ M., GÖZDE H., TAPLAMACIOĞLU M. C.

The 17th International Conference on Technical and Physical Problems of Engineering, Turkey, 18 - 19 October 2021

### **IX. Comparative Dissolved Gas Analysis with Machine Learning and Traditional Methods**

DEMİRCİ M., Gozde H., Taplamacioglu M. C.

3rd International Congress on Human-Computer Interaction, Optimization and Robotic Applications, HORA 2021, Ankara, Turkey, 11 - 13 June 2021

### **X. Analysis of Loadability Factor on Power System Stability using PSAT Program**

DEMİRCİ M., TEZCAN S. S., EKE İ., TAPLAMACIOĞLU M. C.

7th International Conference on Advanced Technologies (ICAT 2018), Antalya, Turkey, 28 April - 01 May 2018, pp.309-313

### **XI. Voltage Stability Analysis in Power Systems**

DEMİRCİ M., TEZCAN S. S., EKE İ., TAPLAMACIOĞLU M. C.

1.International Scientific and Vocational Studies Congress (BILMES 2017), Nevşehir, Turkey, 5 - 08 October 2017

## **Metrics**

Publication: 19

Citation (WoS): 17

Citation (Scopus): 48

H-Index (WoS): 1

H-Index (Scopus): 4

## **Scholarships**

2250-Lisansüstü Bursları Performans Programı, TÜBİTAK, 2022 - 2022

2211-A GENEL YURT İÇİ DOKTORA BURSUSU, TÜBİTAK, 2018 - 2022