

Lect. PhD SÜLEYMAN EMRE EYİMAYA

Personal Information

Office Phone: [+90 312 800 0614](tel:+903128000614)

Fax Phone: [+90 312 800 0618](tel:+903128000618)

Email: eyimaya@gazi.edu.tr

Web: <https://avesis.gazi.edu.tr/eyimaya>

International Researcher IDs

ScholarID: dggZxYgAAAAJ

ORCID: 0000-0003-4703-6476

Publons / Web Of Science ResearcherID: AAW-4467-2021

Yoksis Researcher ID: 265104

Education Information

Doctorate, Gazi University, Fen Bilimleri Enstitüsü, Elektrik-Elektronik Mühendisliği (Dr), Turkey 2019 - 2024

Postgraduate, Gazi University, Fen Bilimleri Enstitüsü, Elektrik-Elektronik Mühendisliği (YI) (Tezli), Turkey 2015 - 2018

Undergraduate, Ondokuz Mayıs University, Faculty Of Engineering, Department Of Electrical And Electronics Engineering, Turkey 2008 - 2014

Foreign Languages

German, A2 Elementary

English, B2 Upper Intermediate

Dissertations

Postgraduate, YENİLENEBİLİR ENERJİ KAYNAKLARINDAKİ GÜÇ SALINIMLARININ GİDERİLMESİ İÇİN BATARYA KONTROL SİSTEMİ TASARIMI, Gazi University, Fen Bilimleri Enstitüsü, Elektrik-Elektronik Mühendisliği (YI) (Tezli), 2018

Research Areas

Industrial automation, Control Systems and Instrumentation, Power System Analysis, Renewable energy, Power Quality

Academic Titles / Tasks

Lecturer, Gazi University, Tusaş - Kazan Meslek Yüksek Okulu, Elektronik ve Otomasyon Bölümü, 2019 - Continues

Lecturer, Ankara University, Elektronik Ve Otomasyon Bölümü, 2017 - 2019

Academic and Administrative Experience

Head of Department, Gazi University, Tusaş - Kazan Meslek Yüksek Okulu, Elektronik ve Otomasyon, 2021 - Continues

Assistant Director of Vocational School, Gazi University, Tusaş - Kazan Meslek Yüksek Okulu, 2020 - Continues
Head of Department, Gazi University, Tusaş - Kazan Meslek Yüksek Okulu, Motorlu Araçlar ve Ulaştırma Teknolojileri
Bölümü, 2020 - 2021
Ankara University, Nallıhan Meslek Yüksekokulu, 2018 - 2019

Courses

Doğru Akım Devre Analizi, Associate Degree, 2023 - 2024, 2022 - 2023, 2021 - 2022
SİSTEM ANALİZ VE TASARIMI I, Associate Degree, 2023 - 2024, 2022 - 2023
OTOMATİK KONTROL, Undergraduate, 2023 - 2024
MESLEKİ İNGİLİZCE, Associate Degree, 2023 - 2024
BİTİRME PROJESİ-I, Associate Degree, 2023 - 2024, 2022 - 2023
Elektronik I, Associate Degree, 2022 - 2023, 2021 - 2022
Alternatif Akım Devre Analizi, Associate Degree, 2021 - 2022
Elektronik II, Associate Degree, 2021 - 2022
Sayısal Elektronik, Associate Degree, 2021 - 2022, 2017 - 2018
Kontrol ve Otomasyon, Associate Degree, 2020 - 2021, 2019 - 2020
Yenilenebilir Enerji Sistemleri, Undergraduate, 2020 - 2021
Dijital Teknikler/Elektronik Alet Sistemleri, Associate Degree, 2020 - 2021
Temel Elektrik ve Elektronik, Associate Degree, 2019 - 2020
Meslek Bilgisine Giriş I, Associate Degree, 2020 - 2021
Uçak Bakım Onarım II, Associate Degree, 2019 - 2020
Uçak Elektrik-Elektronik Sistemleri, Associate Degree, 2019 - 2020
Uçak Bakım Onarım I, Associate Degree, 2019 - 2020
Temel Elektronik, Associate Degree, 2017 - 2018
Kontrol ve Otomasyon, Associate Degree, 2017 - 2018
Bilgisayar Destekli Devre Tasarımı, Associate Degree, 2017 - 2018
Rüzgar Gücü ile Elektrik Üretimi, Associate Degree, 2017 - 2018
Elektrik Enerji Santralleri, Associate Degree, 2017 - 2018

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Review of Energy Management Systems in Microgrids**
Eyimaya S. E., Altın N.
APPLIED SCIENCES, vol.14, no.3, pp.1-20, 2024 (SCI-Expanded)
- II. **Multi-Agent-Based Controller for Microgrids: An Overview and Case Study**
Altın N., Eyimaya S. E., Nasiri A.
ENERGIES, vol.16, no.5, pp.1-19, 2023 (SCI-Expanded)
- III. **A Combined Energy Management Algorithm for Wind Turbine/Battery Hybrid System**
Altın N., Eyimaya S. E.
JOURNAL OF ELECTRONIC MATERIALS, vol.47, no.8, pp.4430-4436, 2018 (SCI-Expanded)

Articles Published in Other Journals

- I. **Design of wind turbine system integrated with battery energy storage system**
Bal G., Eyimaya S. E.
IRO Journal on Electrical Engineering and Automation, vol.1, no.2, pp.72-82, 2019 (Peer-Reviewed Journal)
- II. **Güneş Enerjisi Potansiyelinin İncelenmesi ve PV Güç Sistemi Modellenmesi**

Eyimaya S. E., Dindar T., Sarkın A. S., Hüner E.

Mesleki Bilimler Dergisi, vol.6, no.3, pp.363-368, 2017 (Peer-Reviewed Journal)

III. **Meslek Yüksekokullarında Uygulamalı Eğitim Modeli (UYEM)**

Dindar T., Eyimaya S. E., Hüner E., Sarkın A. S.

Mesleki Bilimler Dergisi, vol.6, no.3, pp.369-373, 2017 (Peer-Reviewed Journal)

Books & Book Chapters

I. **Advancements in DC Microgrids: Integrating Machine Learning and Communication Technologies for a Decentralized Future**

Altın N., Eyimaya S. E.

in: Smart Grid 3.0 Computational and Communication Technologies, Bhargav Appasani, Nicu Bizon, Editor, Springer, London/Berlin, London, pp.357-387, 2023

II. **Microgrids: definitions, architecture, and control strategies**

Eyimaya S. E., Altın N.

in: Power Electronics Converters and their Control for Renewable Energy Applications, Arezki Fekik, Malek Ghanes, Hakim Denoun, Editor, Elsevier Science, Oxford/Amsterdam, London, pp.167-186, 2023

Refereed Congress / Symposium Publications in Proceedings

I. **Artificial Intelligence Applications for Energy Management in Microgrid**

Altın N., Eyimaya S. E.

11th IEEE INTERNATIONAL CONFERENCE ON SMART GRID, Paris, France, 4 - 07 June 2023, pp.1-6

II. **Analysis and Control of PV Wind Battery Based Microgrid**

Abdulhussem N. N., Eyimaya S. E., Altın N.

10th International Conference on Advanced Technologies, Van, Turkey, 25 - 27 November 2022, pp.212-217

III. **Design of an Energy Management System with Power Fluctuation Mitigation Capability for PV/Wind Hybrid Renewable Energy Sources**

Eyimaya S. E., Altın N., Bal G.

13th International Conference on Electronics, Computers and Artificial Intelligence, ECAI 2021, Pitesti, Romania, 1 - 03 July 2021

IV. **A Review of Microgrid Control Strategies**

Altın N., Eyimaya S. E.

10th IEEE International Conference on Renewable Energy Research and Applications, ICRERA 2021, İstanbul, Turkey, 26 - 29 September 2021, pp.412-417

V. **A fuzzy logic control study for the mitigation of power fluctuations in the wind turbines.**

Eyimaya S. E., Bal G., Altın N.

VI. European Conference on Renewable Energy Systems, İstanbul, Turkey, 25 - 27 June 2018

VI. **IMPROVING THE PHOTOELECTRIC PROPERTIES OF DYE-SENSITIZED SOLAR CELLS BY ADOPTING A DOPED COMPACT BLOCKING LAYER**

Özel K., Dindar T., Eyimaya S. E.

2nd International Vocational Science Symposium, IVSS 2018, Antalya, Turkey, 26 - 29 April 2018, pp.1

VII. **POTENTIAL EVALUATION STUDY USING AVERAGE WINDING FOR WIND TURBINE SYSTEM**

Eyimaya S. E., Özel K., Dindar T., Özdemir N. C.

2nd International Vocational Science Symposium, IVSS 2018, Antalya, Turkey, 26 - 29 April 2018, pp.1

VIII. **Meslek Yüksekokullarından Mezun Olacak Öğrencilerin Alanlarında İstihdam Durumunun Değerlendirilmesi**

Dindar T., Eyimaya S. E., Özel K.

2nd International Vocational Science Symposium, IVSS 2018, Antalya, Turkey, 26 - 29 April 2018, pp.1

- IX. **Energy storage system proposal for the solution of power quality problems in wind turbines.**
EYİMAYA S. E., ARSLAN H.
7th International Conference on Advanced Technologies, 28 April - 01 May 2018
- X. **Design of efficient photovoltaic system design thanks to sunlight data**
EYİMAYA S. E.
7th International Conference on Advanced Technologies, 28 April - 01 May 2018
- XI. **Control of wind-photovoltaic-battery hybrid system energy management and power fluctuation mitigation system.**
EYİMAYA S. E., BAL G., ALTIN N.
7th International Conference on Advanced Technologies, 28 April - 01 May 2018
- XII. **Meslek Yüksekokullarında Uygulamalı Eğitim Modeli (UYEM)**
DİNDAR T., EYİMAYA S. E., HÜNER E., SARKIN A. S.
Uluslararası Mesleki Bilimler Sempozyumu, 18 - 20 October 2017, pp.195-196
- XIII. **GÜNEŞ ENERJİSİ POTANSİYELİNİN İNCELENMESİ VE PV GÜÇ SİSTEMİ MODELLENMESİ**
EYİMAYA S. E., DİNDAR T., SARKIN A. S., HÜNER E.
Uluslararası Mesleki Bilimler Sempozyumu, 18 - 20 October 2017, pp.253-254
- XIV. **CONTROL OF THE BATTERY ENERGY STORAGE SYSTEM TO MITIGATE THE WINDPOWER FLUCTUATIONS**
ALTIN N., EYİMAYA S. E.
Fifth European Conference on Renewable EnergySystems (ECRES 2017), Saraybosna, Bosnia And Herzegovina, 27 - 30 August 2017

Supported Projects

Yetişken İ. C., Eyimaya S. E., Akın M., Koçak H., Taşdemirci E., Ünal K., Atak A., Development Agency, HAVACILIK ALANINDA HİBRİD EĞİTİM UYGULAMALARI, 2020 - 2021

Mobility Activity

Research Scholarship Program, Guest Researcher, University of Applied Sciences Düsseldorf, Germany, 2023 - 2023
Erasmus Programme, Lecturing, University of Zagreb, Croatia, 2019 - 2019
Erasmus Programme, Student Mobility, Fachhochschule Düsseldorf, Germany, 2011 - 2012

Metrics

Publication: 22
Citation (WoS): 27
Citation (Scopus): 27
H-Index (WoS): 3
H-Index (Scopus): 3

Awards

Eyimaya S. E., Best Presentation Award , International Conference On Advanced Technologies, May 2018

Non Academic Experience

