

Lect. PhD SÜLEYMAN EMRE EYİMAYA

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International Researcher IDs

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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

Doctorate, DA Mikroşebekeler için Çok Ajanlı Sistem Tabanlı Enerji Yönetim Sistemi Tasarımı, Gazi University, Fen Bilimleri Enstitüsü, Elektrik Elektronik Mühendisliği, 2024

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 - 2024
Head of Department, Gazi University, Tusaş - Kazan Meslek Yüksek Okulu, Motorlu Araçlar ve Ulaştırma Teknolojileri
Bölümü, 2020 - 2021
Assistant Director of Vocational School, Ankara University, Nallıhan Meslek Yüksekokulu, 2018 - 2019

Courses

Otomatik Kontrol, Undergraduate, 2024 - 2025
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, 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 Ghane, Hakim Denoun, Editor, Elsevier Science, Oxford/Amsterdam, London, pp.167-186, 2023

Refereed Congress / Symposium Publications in Proceedings

I. A Review on Multi-Agent Systems and JADE Applications in Microgrids

Eyimaya S. E., ALTIN N., Nasiri A.

12th International Conference on Smart Grid (ICSmartGrid), Setúbal, Portugal, 27 - 29 May 2024, pp.623-628

II. 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

III. 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

IV. 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

V. 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

VI. 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

VII. 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

VIII. 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

IX. 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

X. 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

XI. Design of efficient photovoltaic system design thanks to sunlight data

EYİMAYA S. E.

7th International Conference on Advanced Technologies, 28 April - 01 May 2018

XII. 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

XIII. 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

XIV. 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

XV. 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: 23

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

Ministry, Karayolları 4. Bölge Müdürlüğü, Elektrik Elektronik Mühendisi