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International Researcher IDs

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Education Information

Doctorate, Yıldız Technical University, Fen Bilimleri Enstitüsü, Elektrik Tesisleri (Dr), Turkey 2019 - 2022

Postgraduate, Yıldız Technical University, Fen Bilimleri Enstitüsü, Elektrik Tesisleri (YI) (Tezli), Turkey 2008 - 2011

Undergraduate, Bahcesehir University, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, Turkey 2005 - 2008

Dissertations

Doctorate, Elektrik güç sistemlerinde esneklik kaynaklarının sistem işletimine dahil edilmesi için yeni bir yaklaşım geliştirilmesi, Yıldız Technical University, Fen Bilimleri Enstitüsü, Elektrik Tesisleri (Dr), 2022

Postgraduate, Nonlineer yüklü sistemde filtreleme ve güç kompanzasyonu, Yıldız Technical University, Fen Bilimleri Enstitüsü, Elektrik Tesisleri (YI) (Tezli), 2011

Academic Titles / Tasks

Assistant Professor, Istanbul Gelisim University, FACULTY OF ENGINEERING AND ARCHITECTURE, ELECTRICAL AND ELECTRONICS ENGINEERING, 2022 - Continues

Courses

Alçak Gerilim Sistemleri, Undergraduate, 2022 - 2023

Yüksek Gerilim Tekniği, Undergraduate, 2022 - 2023

Elektrik Tesislerinde Koruma, Undergraduate, 2022 - 2023

Elektrik Mühendisliğinin Temelleri, Undergraduate, 2022 - 2023

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Comfort violation minimization oriented energy management strategy for a renewable-assisted stand-alone multi-energy electric vehicle service station**
ERDİNÇ F. G.
Journal of Energy Storage, vol.69, 2023 (SCI-Expanded)
- II. **Rolling horizon optimization based real-time energy management of a residential neighborhood considering PV and ESS usage fairness**

ERDİNÇ F. G.

Applied Energy, vol.344, 2023 (SCI-Expanded)

- III. **Cost minimization oriented energy management of PV-assisted refueling and recharging stations for FC-ultracapacitor hybrid trams**
ERDİNÇ F. G., ÇİÇEK A.
Energy Conversion and Management, vol.287, 2023 (SCI-Expanded)
- IV. **Resiliency-Sensitive Decision Making Mechanism for a Residential Community Enhanced with Bi-Directional Operation of Fuel Cell Electric Vehicles**
ERDİNÇ F. G., ÇİÇEK A., ERDİNÇ O.
Energies, vol.15, no.22, 2022 (SCI-Expanded)
- V. **Multi-objective risk-constrained operation of hydrogen-based renewable energy integrated distribution network**
Zare Oskouei M., Mohammadi-Ivatloo B., ERDİNÇ O., Gülşen Erdinç F. G.
International Journal of Energy Research, vol.46, no.10, pp.14462-14477, 2022 (SCI-Expanded)
- VI. **Decision-making framework for power system with RES including responsive demand, ESSs, EV aggregator and dynamic line rating as multiple flexibility resources**
ERDİNÇ F. G., ÇİÇEK A., ERDİNÇ O., YUMURTACI R., Oskouei M. Z., Mohammadi-Ivatloo B.
Electric Power Systems Research, vol.204, 2022 (SCI-Expanded)
- VII. **Optimal Allocation of Renewable Sources and Energy Storage Systems in Partitioned Power Networks to Create Supply-Sufficient Areas**
Oskouei M. Z., Mohammadi-Ivatloo B., ERDİNÇ O., Erdinc F. G.
IEEE Transactions on Sustainable Energy, vol.12, no.2, pp.999-1008, 2021 (SCI-Expanded)
- VIII. **A comprehensive overview of dynamic line rating combined with other flexibility options from an operational point of view**
ERDİNÇ F. G., ERDİNÇ O., YUMURTACI R., Catalão J. P. S.
Energies, vol.13, no.24, 2020 (SCI-Expanded)

Articles Published in Other Journals

- I. **Development of a New Operation Strategy Enabling Transactions of Flexibility Among Households for a Residential Neighborhood**
ERDİNÇ F. G.
Karaelmas Fen ve Mühendislik Dergisi, vol.13, no.1, pp.205-216, 2023 (Peer-Reviewed Journal)
- II. **Nonlinear Yüklü Sistemde Filtreleme ve Reaktif Güç Kompanzasyonu Açısından Simülasyon ve Deneysel Çalışma Tabanlı bir Analizin Gerçekleştirilmesi**
ERDİNÇ F. G.
Avrupa Bilim ve Teknoloji Dergisi, vol.18, pp.319-331, 2020 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **Uncertainty Dealing Energy Management of a PV and Battery Supplied Grid Connected Charging Service Station for a Fleet of Mobile Charging Oriented EVs**
ERDİNÇ F. G.
5th Global Power, Energy and Communication Conference- GPECOM2023, Nevşehir, Turkey, 14 - 16 June 2023, pp.1-6
- II. **Development of an Energy Management System for Minimizing Hydrogen Consumption in Fuel Cell and Ultracapacitor Hybrid Electric Garbage Trucks and Analysis of the Sizing Impact**
ERDİNÇ F. G.
11th International Conference on Smart Grid (icSmartGrid), Paris, France, 4 - 07 June 2023, pp.1-5

- III. **Uncertainty-Aware Decision Making in Power Systems Including Energy Storage, Dynamic Line Rating and Responsive Demand as Multiple Flexibility Resources**
ERDİNÇ F. G., ÇİÇEK A., ERDİNÇ O., YUMURTACI R.
2021 International Conference on Smart Energy Systems and Technologies — SEST 2021, Vaasa, Finland, 06 September 2021

Supported Projects

Erdinç F. G., TUBITAK Project, Mobil Şarj Hizmeti Odaklı Elektrikli Araçların Hizmet Yönetimi İçin Optimizasyon Tabanlı Belirsizlikten Haberdar Hiyerarşik Bir Karar Verme Mekanizması Geliştirilmesi, 2023 - 2024
TUBITAK Project, Etkileşimli Enerji Merkezi Şebekelerinde Yenilenebilir Enerji Sistemlerinin Azami Yaygınlaşma Kapasitesinin Değerlendirilmesi, 2019 - 2022