

Res. Asst. Hilmi Cihan GÜLDORUM

Personal Information

Email: guldorum@yildiz.edu.tr

Web: <https://avesis.yildiz.edu.tr/guldorum>

International Researcher IDs

ScholarID: cfRN9MAAAAJ

ORCID: 0000-0002-0748-1391

Publons / Web Of Science ResearcherID: AAK-9086-2021

ScopusID: 57211287370

Yoksis Researcher ID: 331974

Education Information

Doctorate, Yildiz Technical University, Faculty Of Electrical & Electronics, Electrical Engineering Department, Turkey 2021 - Continues

Postgraduate, Yildiz Technical University, Faculty Of Electrical & Electronics, Electrical Engineering Department, Turkey 2020 - 2021

Undergraduate, Yildiz Technical University, Faculty Of Electrical & Electronics, Electrical Engineering Department, Turkey 2014 - 2019

Research Areas

Neural Networks, Energy, Power System Analysis, Renewable energy

Academic Titles / Tasks

Research Assistant, Yildiz Technical University, Faculty Of Electrical & Electronics, Electrical Engineering Department, 2020 - Continues

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Energy Management Strategy of a Green Port Serving Emission-Free Ferries Considering EV Parking Lot Availability**
Ozdemir H., GÜLDORUM H. C., ERENOĞLU A. K., Sengor I., Hayes B. P., ERDİNÇ O.
IEEE Transactions on Intelligent Transportation Systems, vol.25, no.6, pp.5640-5650, 2024 (SCI-Expanded)
- II. **Maximizing EV profit and grid stability through Virtual Power Plant considering V2G**
Türkoğlu A. S., GÜLDORUM H. C., Sengor I., Çiçek A., ERDİNÇ O., Hayes B. P.
Energy Reports, vol.11, pp.3509-3520, 2024 (SCI-Expanded)
- III. **Development of a Cost Minimization Oriented Optimization Algorithm for Green Hydrogen Production in a Multi-Energy System Considering EVs and FCEVs Availability**
Kopacak N., GÜLDORUM H. C., ERDİNÇ O.
IEEE Access, vol.12, pp.114705-114721, 2024 (SCI-Expanded)
- IV. **Management strategy for V2X equipped EV parking lot considering uncertainties with LSTM Model**

Güldorum H. C., Şengör İ., Erdiñç O.

ELECTRIC POWER SYSTEMS RESEARCH, vol.212, 2022 (SCI-Expanded)

V. **Optimal sizing and siting of different types of EV charging stations in a real distribution system environment**

Sengor I, Erenoglu A. K., Güldorum H. C., Erdiñç O., Taşcıkaraoğlu A., Taştan İ. C., Büyük A. F., Catalão J. P. S.

IET RENEWABLE POWER GENERATION, vol.16, no.15, pp.3171-3183, 2022 (SCI-Expanded)

Papers Published in Refereed Scientific Meetings

- I. **Charging Stations vs. Battery Swapping Stations Considering Battery-to-Grid Injections**
Güldorum H. C., Diaz-Cachinero P., Muñoz-Delgado G., Contreras J.
2024 IEEE PES Innovative Smart Grid Technologies Europe (ISGT EUROPE), Dubrovnik, Croatia, 14 - 17 October 2024, pp.1-6
- II. **Electric Vehicle-Based Virtual Batteries in Power Distribution System Operation**
Diaz-Cachinero P., Güldorum H. C., Cuadra-Garcia A., Muñoz-Delgado G., Contreras J.
2024 International Conference on Smart Energy Systems and Technologies (SEST), Turin, Italy, 10 - 12 September 2024, pp.1-6
- III. **Optimizing Distribution System Operation: Integrating Multiple Battery Swapping and Charging Stations with Technical Evaluation**
Güldorum H. C., Diaz-Cachinero P., Muñoz-Delgado G., Contreras J.
2024 International Conference on Smart Energy Systems and Technologies (SEST), Turin, Italy, 10 - 12 September 2024, pp.1-6
- IV. **Multi-Objective EV Charging and Comfort Management Considering V2G Functionality and Distribution System Constraints**
Turkoglu A. S., GÜLDORUM H. C., ERDİNÇ O.
11th International Conference on Smart Grid, icSmartGrid 2023, Paris, France, 4 - 07 June 2023
- V. **Comparative Realistic Objectives Oriented Optimization Framework for EV Charging Scheduling in a Distribution System**
GÜLDORUM H. C., Erenoglu A. K., ERDİNÇ O., Sengor I.
3rd International Conference on Smart Grid and Renewable Energy, SGRE 2022, Doha, Qatar, 20 - 22 March 2022
- VI. **Energy management of a port serving fuel cell and battery based hybrid green ferries**
Ozdemir H., GÜLDORUM H. C., ERDİNÇ O., Sengor I.
4th International Conference on Smart Energy Systems and Technologies, SEST 2021, Virtual, Vaasa, Finland, 6 - 08 September 2021
- VII. **Charging Management System for Electric Vehicles considering Vehicle-to-Vehicle (V2V) Concept Araçlar Arası Enerji Aktarımını Dikkate Alan Elektrikli Araçlar için Şarj Yönetim Sistemi**
GÜLDORUM H. C., Şengör İ., ERDİNÇ O.
12th International Conference on Electrical and Electronics Engineering, ELECO 2020, Bursa, Turkey, 26 - 28 November 2020, pp.188-192
- VIII. **An Interoperability Platform for Electric Vehicle Charging Service Considering Dual System Operator and Electric Vehicle Owner Sides**
GÜLDORUM H. C., ERENOĞLU A. K., ŞENGÖR İ., ERDİNÇ O., Catalao J. P. S.
2nd International Conference on Smart Energy Systems and Technologies, SEST 2019, Porto, Portugal, 9 - 11 September 2019

Supported Projects

Erdiñç O., Taşcıkaraoğlu A., TUBITAK Project, Elektrikli Araçların Dağıtım Şebekesinde Akıllı Şarj Yönetimi İçin Sistem Operatörü Karar Verme Mekanizmasının Geliştirilmesi, 2019 - 2021

Metrics

Publication: 13

Citation (Scopus): 6

H-Index (Scopus): 1