

Lect. PhD NECATİ AKSOY

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International Researcher IDs

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Education Information

Doctorate, Istanbul Technical University, Elektrik-Elektronik, Elektrik Mühendisliği, Turkey 2018 - 2023

Postgraduate, Temple University, Collage of Engineering, Electrical Engineering, United States Of America 2014 - 2015

Research Areas

Control and System Engineering, Robotics and Mechatronics Systems, Artificial Intelligence, Computer Learning and Pattern Recognition, Software, Energy

Academic Titles / Tasks

Lecturer PhD, Yozgat Bozok University, Yozgat Meslek Yüksekokulu, Elektronik ve Otomasyon, 2021 - Continues

Research Assistant, Kilis 7 Aralık University, Mühendislik - Mimarlık Fakültesi, Elektrik - Elektronik Mühendisliği, 2016 - 2021

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Energy Storage Management for Microgrids Using n-Step Bootstrapping**
Aksoy N., Genç V. M. İ.
IEEE Canadian Journal of Electrical and Computer Engineering , vol.46, no.2, pp.107-116, 2023 (SCI-Expanded)
- II. **Design of Graphical User Interface for Artificial Intelligence-Based Energy Management System for Microgrids**
Aksoy N., Genç V. M. İ.
ELECTRICA, vol.23, no.2, pp.202-211, 2023 (SCI-Expanded)
- III. **Predictive models development using gradient boosting based methods for solar power plants**
AKSOY N., Genç V. M. İ.
Journal of Computational Science, vol.67, 2023 (SCI-Expanded)
- IV. **Reinforcement learning-based demand-side management by smart charging of electric vehicles**
Ozcelik M. B., Kesici M., AKSOY N., Genç V. M. İ.
Electrical Engineering, vol.104, no.6, pp.3933-3942, 2022 (SCI-Expanded)

Articles Published in Other Journals

- I. **35. 8 Kwp Powered and Grid-Connected Photovoltaic Solar Energy Irrigation System**
Hasırcı H. Y., Aksoy N., Atik İ., Çelik İ.
International Refereed Journal of Engineering And Sciences , vol.11, no.4, pp.35-47, 2017 (Peer-Reviewed Journal)
- II. **The Optimum PV System Design to Meet Energy Requirements for a House and a Car in Conditions of Istanbul**
Aksoy N., Atik İ.
International Journal of Advanced Research in Computer and Communication Engineering, vol.5, no.12, pp.169-172, 2016 (Peer-Reviewed Journal)
- III. **Optimum Design of the Battery Powered 6 Kwp Grid-Tie Photovoltaic System Under Kilis Conditions**
Atik İ., Aksoy N.
International Journal of Science and Research, vol.5, no.11, pp.383-387, 2016 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **A Novel Hybrid Model Proposal derived from Prevalent Methods for Power Generation Prediction of Solar Power Plants**
Aksoy N., Genç V. M. İ.
IEEE Sponsored ELECO 2023, Bursa, Turkey, 30 November - 02 December 2023, pp.74-79
- II. **Deep Learning - Based FDIA Detection with High Penetration Rate of DERs**
Gürkan C., Mohammadpour Fard M., Aksoy N., Genç V. M. İ.
2nd International Graduate Research Symposium – IGRS'23, İstanbul, Turkey, 2 - 05 May 2023, vol.1, pp.342-351
- III. **Development and Analysis of Prediction Models for an AI-Based Energy Management System for Microgrids**
Aksoy N., Genç V. M. İ.
International Graduate Research Symposium – IGRS'22., İstanbul, Turkey, 1 - 03 June 2022, vol.1, pp.485-495
- IV. **Design and application of solar dish-gamma type stirling system**
Farsakoğlu Ö. F., AKSOY N., Hasırcı H. Y., Alahmad A.
5th International Conference on Electrical and Electronics Engineering, ICEEE 2018, İstanbul, Turkey, 3 - 05 May 2018, pp.242-246
- V. **A Survey on Control Methods and Applications of Inverted Pendulum System**
Aksoy N., Hasırcı H. Y.
International Advanced Research Engineering Congress-2017, Osmaniye, Turkey, 16 - 18 November 2017, pp.1153
- VI. **The Effects of Thermoelectric Modules in Electricity Generation and Thermoelectric Cooling**
Hasırcı H. Y., Çelik İ., Atik İ., Aksoy N., Farsakoğlu Ö. F.
8th International Advanced Technologies Symposium (IATS'17), Elazığ, Turkey, 19 - 22 October 2017, pp.3812-3818

Supported Projects

Aksoy N., TUBITAK Project, Güneş panelleri için güneş takip ve otomatik temizlemeyi de içeren otomasyon sistemi tasarımı, 2023 - 2024

Aksoy N., TUBITAK Project, Nesnelerin İnterneti (IoT) Tabanlı Şarj Edilebilir Yeni Nesil Bataryalar İçin Test Cihazı Tasarımı, 2023 - 2024

Aksoy N., TUBITAK Project, Tarımsal Teknoloji Projeleri için Nesnelerin İnterneti (IoT) Tabanlı İnternet Uygulaması Olan Veri Toplama Cihazı Tasarımı, 2022 - 2023

Aksoy N., TUBITAK Project, Akıllı Telefon / Tablet Uygulaması olan Nesnelerin İnterneti (IoT) Temelli Enerji Tasarruf Vanası, 2022 - 2023

Aksoy N., TUBITAK Project, Android İşletim Sistemi Tabanlı Drone Kontrol Uygulaması, 2019 - 2020

Scientific Refereeing

IEEE TRANSACTIONS ON ARTIFICIAL INTELLIGENCE, Journal Indexed in SCI-E, January 2024

IEEE Canadian Journal of Electrical and Computer Engineering, Journal Indexed in SCI-E, January 2024

INTELLIGENT DATA ANALYSIS, Journal Indexed in SCI-E, September 2023

2023 IEEE PES GTD International Conference and Exposition (GTD), Conference Paper (Full Text), May 2023

TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, Journal Indexed in SCI-E, December 2019

Metrics

Publication: 13

Citation (Scopus): 13

H-Index (WoS): 1

H-Index (Scopus): 2

Awards

Aksoy N., The Second Place in Line Follower Robotic Competition, 5Th International Metu Robotic Days / Metu, March 2008