Res. Asst. EMİR KAAN TUTUŞ

Personal Information

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International Researcher IDs
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Education

Doctorate, Manisa Celal Bayar University, Turkey 2024 - Present
Postgraduate, Manisa Celal Bayar University, Turkey 2021 - 2024
Undergraduate, Manisa Celal Bayar University, Turkey 2016 - 2021

Foreign Languages

English

Dissertations

Postgraduate, Afet sonrası süreçte bina–araç–bina yöntemiyle enerji esnekliğinin geliştirilmesi, Manisa Celal Bayar University, 2024

Research Areas

Avesis Research Areas: Energy
WoS Research Areas: Engineering Electrical & Electronic
Scopus Research Areas: Signal Processing

Academic Positions

Research Assistant, Manisa Celal Bayar University, Mühendislik Ve Doğa Bilimleri Fakültesi, Elektrik-Elektronik Mühendisliği, 2023 - Present

Articles

I. **Synergistic home energy management system with building-to-vehicle-to-building operation for enhancing energy service accessibility in disaster affected communities**

TUTUŞ E. K., CANDAN A. K., BOYNUEĞRİ A. R., ONAT N.
Renewable Energy, vol.253, 2025 (SCI-Expanded, Scopus)

II. **Analyzing Peak Clipping for Load Factor Improvement: Real Case Studies of a Solar Power Plant in a University Campus**
DEMIRCI O., TUTUS E. K., TASKIN S., ÇETİN G., Tozak M.
Turkish journal of electrical power and energy systems (Online), vol.3, no.3, pp.104-114, 2023 (TRDizin)

III. **Evaluation of Various Flexibility Resources in Power Systems**
TUTUŞ E. K., ONAT N.
Celal Bayar Üniversitesi Fen Bilimleri Dergisi, vol.19, no.3, pp.243-252, 2023 (TRDizin)

Papers Presented at Peer-Reviewed Scientific Conferences

I. **Post-Disaster Home Energy Management System for Residential Communities Using EV-Based Energy Transportation and Home Battery Coordination**
Tutuş E. K., Candan A. K., Boynueğri A. R., Onat N.
8th Global Power, Energy and Communication Conference (GPECOM), Naples, Italy, 3 - 05 June 2026, (Full Text)

II. **Evaluation of Different Household Types Using a MILP-Based Home Energy Management System for Post-Disaster Energy Resilience**
Tutuş E. K., Candan A. K., Boynueğri A. R., Onat N.
8th Global Power, Energy and Communication Conference (GPECOM), Naples, Italy, 3 - 05 June 2026, (Full Text)

III. **MILP based HEMS to Enhance Resiliency of Households' Considering Well-Being in Post-Disasters**
TUTUŞ E. K., CANDAN A. K., BOYNUEĞRİ A. R., ONAT N.
7th IEEE Global Power, Energy and Communication Conference, GPECOM 2025, Bochum, Germany, 11 - 13 June 2025, pp.816-820, (Full Text)

IV. **Computer-Aided Design and Analysis of the Earthing System for a Substation in an Industrial Zone: A Real Case Study**
TUTUŞ E. K., KUMRU C. F., ATEŞ Y., Partal E.
7th International Conference on Electric Power and Energy Conversion Systems, EPECS 2024, Sharjah, United Arab Emirates, 12 - 14 November 2024, pp.14-19, (Full Text)

Funded Projects

CANDAN A. K., TUTUŞ E. K., ATEŞ Y., ONAT N., Project Supported by Higher Education Institutions, Afet Durumunda Esnekliği Arttırılmış Elektrik Enerjisi Yönetim Sistemi Tasarımı ve Uygulaması, 2023 - 2026
TAŞKIN S., TUTUŞ E. K., TOZAK M., DEMİRCİ O., ATEŞ Y., Project Supported by Higher Education Institutions, BAP Infrastructure, Sanal Güç Santrali Dinamik Performansının Analizi, 2023 - 2025
Taşkın S., Onat N., Demirci O., Baştürk İ., TUBITAK Project, 1505 - University-Industry Cooperation Support Program, Kurşun-Asit Akülere Yönelik Akıllı Durum İzleme Sensörü Tasarımı Ve Mobil Uygulama Geliştirilmesi, 2022 - 2024

Metrics

Publication: 7
Citation (Scopus): 9
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