Res. Asst. PhD ALPER KAĞAN CANDAN

Personal Information

Email: kagan.candan@cbu.edu.tr
Web: https://avesis.mcbu.edu.tr/kagan.candan

International Researcher IDs
ScholarID: t68w6xQAAAAJ
ORCID: 0000-0003-0320-7317
Publons / Web Of Science ResearcherID: AHI-2947-2022
ScopusID: 58097922700
Yoksis Researcher ID: 299836

Education

Doctorate, Manisa Celal Bayar University, Mühendislik Fakültesi, Turkey 2020 - 2024
Postgraduate, Manisa Celal Bayar University, Turkey 2017 - 2020
Undergraduate, Manisa Celal Bayar University, Turkey 2014 - 2017
Undergraduate, Turkey 2014 - 2016
Undergraduate, Pamukkale University, Turkey 2013 - 2014

Foreign Languages

English

Dissertations

Postgraduate, BLDC motorlarda rejeneratif frenleme, Manisa Celal Bayar University, 2020

Academic Positions

Research Assistant, Manisa Celal Bayar University, 2019 - Present

Articles

I. **Enhancing Energy Resiliency of Residential Buildings in Post-Disasters: A Fair Share Approach with Building Energy Management System**
CANDAN A. K., BOYNUEĞRİ A. R., ONAT N., Liu Y.
Arabian Journal for Science and Engineering, vol.51, no.16, pp.19147-19162, 2026 (SCI-Expanded, Scopus)

II. **Adaptive home energy management for post-disaster microgrids with dynamic boundaries and variable power constraints**
CANDAN A. K., BOYNUEĞRİ A. R., ONAT N., GÖKÇEK T., GÜNER S.
Electrical Engineering, vol.108, no.7, 2026 (SCI-Expanded, Scopus)

III. **A comprehensive survey of distributed optimization methods and technological enablers for**

sustainable energy communities
BAŞARAN K., Siano P., Abdelkader M., CANDAN A. K., Kivi M. M., Sakib N., Arikusu Y. S., Lazaroiu G. C.
ENERGY, vol.344, 2026 (SCI-Expanded, Scopus)

IV. **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)

V. **Home energy management system for enhancing grid resiliency in post-disaster recovery period using Electric Vehicle**
CANDAN A. K., BOYNUEĞRİ A. R., ONAT N.
Sustainable Energy, Grids and Networks, vol.34, 2023 (SCI-Expanded, Scopus)

Papers Presented at Peer-Reviewed Scientific Conferences

I. **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)

II. **Post-Disaster Home Energy Management with Fuel Cell Vehicles: Evaluating Reinforcement Learning Against MILP Under Islanding Conditions**
Korutürk M., Candan A. K., Boynueğri A. R., Onat N.
8th Global Power, Energy and Communication Conference (GPECOM), Naples, Italy, 03 June 2026, (Full Text)

III. **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)

IV. **Comparison of Meta-Heuristic Algorithms for the Optimal PMU Placement**
Uzun U. E., CANDAN A. K., BOYNUEĞRİ A. R., Pamuk N.
8th Global Power, Energy and Communication Conference, GPECOM 2026, Naples, Italy, 3 - 05 June 2026, pp.935-940, (Full Text)

V. **Active Distribution Networks State Estimation Under Variable Generation and Load Conditions**
Uzun U. E., CANDAN A. K., BOYNUEĞRİ A. R., Pamuk N.
7th IEEE Global Power, Energy and Communication Conference, GPECOM 2025, Bochum, Germany, 11 - 13 June 2025, pp.811-815, (Full Text)

VI. **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)

VII. **Simulation of regenerative braking in electric vehicles**
MAMUR H., CANDAN A. K.
InternationalConference on Science and Technology, Engineering Science and Technology (ICONST–EST–2019), 26 - 30 August 2019, (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
CANDAN A. K., MAMUR H., Project Supported by Higher Education Institutions, Regenerative Braking in BLDC Motors, 2019 - 2020

MAMUR H., CANDAN A. K., Project Supported by Higher Education Institutions, BAP MSc, Bldc Motorlarda Rejeneratif Frenleme, 2019 - 2020

Metrics

Publication: 12
Citation (WoS): 53
Citation (Scopus): 62
H-Index (WoS): 2
H-Index (Scopus): 2

Non Academic Experience

Drivetech Mühendislik Otomasyon San. Tic. Ltd. Şti., İzmir Bölge Mühendisi