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Personal Information

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International Researcher IDs

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Education Information

Post Doctorate, University of Texas at Arlington, United States Of America 2020 - 2021

Doctorate, The University of Texas at Arlington, United States Of America 2015 - 2020

Postgraduate, Yildiz Technical University, Faculty Of Electrical & Electronics, Turkey 2011 - 2014

Undergraduate Double Major, Yildiz Technical University, Faculty Of Civil Engineering, Turkey 2008 - 2012

Undergraduate, Yildiz Technical University, Faculty Of Electrical & Electronics, Turkey 2006 - 2011

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, High-Performance Optimization Methods for Emerging Power Systems, The University of Texas at Arlington, 2020

Research Areas

Electrical and Electronics Engineering

Academic Titles / Tasks

Assistant Professor, Yozgat Bozok University, Mühendislik-Mimarlık Fakültesi, Elektrik-Elektronik Mühendisliği, 2022 - Continues

Lecturer PhD, Yozgat Bozok University, Mühendislik-Mimarlık Fakültesi, Elektrik-Elektronik Mühendisliği, 2021 - 2022

Research Assistant PhD, The University of Texas at Arlington, 2020 - 2021

Research Assistant, The University of Texas at Arlington, 2015 - 2020

Research Assistant, Sivas Cumhuriyet University, Mühendislik Fakültesi, Elektrik Elektronik Müh., 2012 - 2014

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Optimal Power Flow in AC/DC Microgrids with Enhanced Interlinking Converter Modeling**
Pullaguram D., Madani R., Altun T., Davoudi A.
IEEE JOURNAL OF EMERGING AND SELECTED TOPICS IN POWER ELECTRONICS, vol.3, no.3, pp.527-537, 2022 (SCI-Expanded)
- II. **Small-Signal Stability-Constrained Optimal Power Flow for Inverter Dominant Autonomous Microgrids**
Pullaguram D., Madani R., Altun T., Davoudi A.
IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS, vol.69, no.7, pp.7318-7328, 2022 (SCI-Expanded)
- III. **Topology-Cognizant Optimal Power Flow in Multi-Terminal DC Grids**
Altun T., Madani R., Davoudi A.
IEEE TRANSACTIONS ON POWER SYSTEMS, vol.36, no.5, pp.4588-4598, 2021 (SCI-Expanded)
- IV. **Observation of State and Topology in DC Networks**
Altun T., Madani R., Davoudi A.
IEEE TRANSACTIONS ON POWER SYSTEMS, vol.36, no.2, pp.879-890, 2021 (SCI-Expanded)
- V. **Optimal Reconfiguration of DC Networks**
Altun T., Madani R., Yadav A. P., Nasir A., Davoudi A.
IEEE TRANSACTIONS ON POWER SYSTEMS, vol.35, no.6, pp.4272-4284, 2020 (SCI-Expanded)
- VI. **Distributed Resilient Secondary Control of DC Microgrids Against Unbounded Attacks**
Zuo S., Altun T., Lewis F. L., Davoudi A.
IEEE TRANSACTIONS ON SMART GRID, vol.11, no.5, pp.3850-3859, 2020 (SCI-Expanded)
- VII. **Macromodeling of Electric Machines From Ab Initio Models**
Yadav A. P., Altun T., Madani R., Davoudi A.
IEEE TRANSACTIONS ON ENERGY CONVERSION, vol.35, no.2, pp.908-916, 2020 (SCI-Expanded)

Articles Published in Other Journals

- I. **Alternatif Akım Mikro-şebekelerde Enerji Depolama Sistemlerinin Konum Optimizasyonu**
ALTUN T.
Black Sea Journal of Engineering and Science, 2024 (Peer-Reviewed Journal)
- II. **Coordinated Electric Vehicle Charging Strategy in Microgrids Containing PV System**
Erdoğan N., Erden F., Altun T.
Gazi University Journal of Science Part A: Engineering and Innovation, vol.4, no.1, pp.9-21, 2017 (Peer-Reviewed Journal)

Books & Book Chapters

- I. **Resilient Networked Microgrids Against Unbounded Attacks**
Zuo S., ALTUN T., L. Lewis F., Davoudi A.
in: Microgrids: Theory and Practice, , Editor, WILEY, New Jersey, pp.425-456, 2024

Refereed Congress / Symposium Publications in Proceedings

- I. **AI-Assisted EV Fleet Charging Energy Management System**
ALTUN T.
Uluslararası Orta Anadolu Sempozyumu, 16 - 18 May 2024
- II. **Optimal energy storage allocation on power grids**

ALTUN T.

SIVAS INTERNATIONAL CONFERENCE ON SCIENTIFIC AND INNOVATION RESEARCH-III, Sivas, Turkey, 3 - 05 May 2024

III. Optimal Corrective Action for a Source Outage on DC Networks

ALTUN T.

2nd International Conference on Scientific and Innovative Studies ICSIS 2024, 18 April 2024

IV. Elektrik Şebekelerinde Siber Güvenlik

ALTUN T.

1st International Conference on Engineering, Natural and Social Sciences, Konya, Turkey, 20 - 23 December 2022, pp.79

V. Türkiye'nin Enerji Politikasına Bakış

ALTUN T., GÜN ALTUN R. İ.

IX. Yıldız International Social Sciences Congress, Turkey, 26 - 27 December 2022

VI. Doğru Akım Şebekelerinde Kontrol Metotları

ALTUN T.

1st International Conference on Scientific and Academic Research, Konya, Turkey, 10 - 13 December 2022, pp.367

VII. DC Mikro-şebekelerde Dağıtık Üretimin Konumu

ALTUN T.

International Cumhuriyet Artificial Intelligence Applications Conference'22, Sivas, Turkey, 8 - 09 December 2022, pp.129-130

VIII. A convex model for joint topology identification and state estimation of power networks

Madani R., ALTUN T., Davoudi A.

INFORMS Annual Meeting, United States Of America, 08 January 2019

IX. Coordinated electric vehicle charging strategy in industrial microgrids containing pv system

ERDOĞAN N., ERDEN F., ALTUN T.

IV. European Conference on Renewable Energy Systems, United States Of America, 28 December 2015

Supported Projects

Altun T., Davoudi A., Madani R., Other International Funding Programs, Experimental and Hardware-in-the-loop

Verification of Optimal and Reliable Control Methods for a Hybrid AC/DC Power Distribution Network, 2018 - 2021

Altun T., Madani R., Davoudi A., Other International Funding Programs, Massively Scalable Computational Methods for Power System Scheduling, 2018 - 2020

Metrics

Publication: 19

Citation (WoS): 36

Citation (Scopus): 109

H-Index (WoS): 2

H-Index (Scopus): 4

Non Academic Experience

Public Research Center, Türkiye Enerji, Nükleer ve Maden Araştırma Kurumu, Enerji Araştırma Enstitüsü

Company, Türk Havacılık Uzay Sanayii, Uçak Genel Müdür Yardımcılığı

Public Research Center, TUSAŞ, Uçak Genel Müdür Yardımcılığı