

Res. Asst. Umutcan Polat

Personal Information

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International Researcher IDs

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Education Information

Doctorate, Istanbul Technical University, Elektrik-Elektronik, Elektrik Mühendisliği, Turkey 2022 - Continues

Postgraduate, Istanbul Technical University, Elektrik-Elektronik, Elektrik Mühendisliği, Turkey 2019 - 2022

Undergraduate, Yildiz Technical University, Faculty Of Electrical & Electronics, Electrical Engineering Department, Turkey 2013 - 2018

Dissertations

Postgraduate, COMPENSATION OF DEAD TIME CAUSED OUTPUT VOLTAGE DISTORTION IN SPWM FULL BRIDGE INVERTER , Istanbul Technical University, Elektrik-Elektronik, Elektrik Mühendisliği, 2022

Research Areas

Renewable energy, Power Electronics, Electrical Machine Theory and Design

Academic Titles / Tasks

Research Assistant, Istanbul Technical University, Elektrik-Elektronik, Elektrik Mühendisliği, 2020 - Continues

Articles Published in Other Journals

- Analysis and Compensation of Dead Time Harmonics Based on Time Compensation Strategy in the Single-Phase Full-Bridge Inverters**
Polat U., Yıldırım D.
Balkan Journal of Electrical and Computer Engineering, vol.12, no.1, pp.68-76, 2024 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- Current Control of Grid-Connected Simplified Split-Source Converters (S3I) for Single Phase Photovoltaic Microinverter Application**

Polat U., Yıldırım D.

2023 10th International Conference on Electrical and Electronics Engineering (ICEEE), İstanbul, Turkey, 8 - 10 May 2023, pp.391-396

II. Design of an Open Loop Wind Power Emulator for Analyzing the Performance of Wind Energy Conversion System

Polat U., Yıldırım D.

IEEE Global Energy Conference (GEC), Batman, Turkey, 26 - 29 October 2022, pp.120-125

III. Active Power Control in Single Phase Grid Connected Inverters Used in Photovoltaic Systems

Polat U., Yıldırım D.

2. INTERNATIONAL PALANDOKEN SCIENTIFIC STUDIES CONGRESS, Erzurum, Turkey, 24 - 25 April 2021, vol.2, pp.448-462

IV. Half-Bridge LLC Resonant Converter Design for High Voltage Battery to Low Voltage Battery Conversion in Electric Vehicles

Lordoğlu M., Polat U., Örüklü K., Yıldırım D.

13th International Conference on Electrical and Electronics Engineering, ELECO 2021, Virtual, Bursa, Turkey, 25 - 27 November 2021, pp.565-569

Scientific Refereeing

2023 10TH INTERNATIONAL CONFERENCE ON ELECTRICAL AND ELECTRONICS ENGINEERING (ICEEE 2023), Conference Paper (Full Text), April 2023

2023 10TH INTERNATIONAL CONFERENCE ON ELECTRICAL AND ELECTRONICS ENGINEERING (ICEEE 2023), Conference Paper (Full Text), April 2023

2023 10TH INTERNATIONAL CONFERENCE ON ELECTRICAL AND ELECTRONICS ENGINEERING (ICEEE 2023), Conference Paper (Full Text), April 2023

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