دکتر مرتضی زارع اسکوئی

استادیار

دانشکده: مهندسی برق و کامپیوتر

دکتر مرتضی زارع اسکوئی

استادیار دانشکده مهندسی برق و کامپیوتر

E-Mails: mortteza.zare@gmail.com, m.zare@sut.ac.ir

1. EDUCATION

University of Tabriz, Tabriz, Iran

Ph.D. in Electrical Engineering

- Thesis title: Optimal energy management of local industrial energy hubs

Sahand University of Technology, Tabriz, Iran

M.Sc. in Electrical Engineering

- Thesis title: Impact of demand side management on the energy management strategy of a hybrid (Wind/PV/PSH) system in the electricity market

Azarbaijan Shahid Madani University, Tabriz, Iran

B.Sc. in Electrical Engineering

- Thesis title: Evaluation of load management strategies in electricity market

3. RESEARCH INTERESTS

1. Power system operation in electricity market
2. Resilient operation of energy systems
3. Sector-coupled energy systems
4. Machine learning techniques
5. Energy storage systems
6. Demand response
7. Renewable and sustainable energies
8. Energy hub systems

4. TEACHING EXPERIENCES

1. Power System Analysis I
2. Renewable Energy Systems
3. Engineering Mathematics
4. Power System Lab.
5. Engineering Economics
6. Electricity Workshop
7. Electrical Machines I Lab

5. INTERNATIONAL and NATIONAL RESEARCH PROJECTS

- Co-PI, “Distributed energy storage allocation in partitioned areas of power system in order to reduce the greenhouse gas emission of traditional power plants in local industrial area”, Funded by MSRT and BMBF, 2020-2021.
- Co-PI, “Assessment of maximum penetration capacity of renewable energy resources in interconnected energy hub networks”, Funded by MSRT and T□B□TAK, 2020-2021.
- Co-PI, “Energy storage system planning in coordination with renewable sources in East Azerbaijan-Iran power system”, Funded by MSRT and T□B□TAK, 2020-2021.
- PI, “Utility oriented demand side management using smart AC and DC microgrids cooperative”, Funded by Tabriz Electric Power Distribution Company, 2017.

- Co-PI, “Modeling and analysis of demands of Tehran distribution Co. in different demand response programs and derivation the power outage cost”, Funded by Tehran Electric Power Distribution Company, 2018.
- Co-PI, “Determining the price of electricity that can be sold in the distribution companies of Tehran and Mashhad”, Niroo Research Institute (NRI), 2019.

6. PUBLICATIONS

Google Scholar: Link

7. BOOKS

- Morteza Zare Oskouei and Behnam Mohammadi-Ivatloo**,** “Integration of Renewable Energy Sources Into the Power Grid Through PowerFactory”, Springer, 2020.

8. WORKSHOPS LECTURE

- **LATEX Workshop: Organizing journals and international conferences papers**, Organized by: Iran Energy Association (IEA), 2020 and 2021.
- **Integration of renewable energy sources into the power grid via DIgSILENT PowerFactory**, Organized by: Iran Energy Association (IEA), 2021.

9. SOFTWARE EXPERTISE

- DIgSILENT PowerFactory
- GAMS
- Python
- MATLAB
- LATEX