

Special Issue

Advanced Technologies in Modeling and Control of Microgrid

Message from the Guest Editors

This Special Issue, "Advanced Technologies in Modeling and Control of Microgrid", aims to gather together cutting-edge research on novel modeling frameworks, intelligent control systems, and resilient operation strategies that address the challenges of modern microgrids. We welcome contributions that explore a wide range of advanced technologies, including but not limited to the following:

- AI-Enhanced Modeling and Control;
- Resilience-Oriented Design and Operation;
- Frequency and Voltage Stability;
- Digital Twin and Real-Time Simulation;
- Distributed and Cooperative Control;
- Hybrid Modeling Approaches.

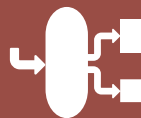
This Special Issue seeks original research, case studies, and review articles that demonstrate the practical applicability and effectiveness of these advanced technologies in real-world or simulated microgrid environments. By fostering interdisciplinary dialogue, we aim to support the development of smarter, more resilient, and sustainable microgrid systems for future energy networks.

Guest Editors

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Dr. Yifan Su
Dr. Peng Yang

Deadline for manuscript submissions

25 January 2027



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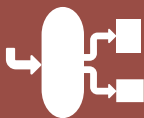


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