



Modeling and Simulation for the Electrical Power System

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Deadline for manuscript
submissions:

closed (30 November 2023)

Message from the Guest Editors

Dear Colleagues,

The modern electrical power system is one of the wonders of this fast-growing world and one of the most complex and sophisticated network systems.

This Special Issue aims to publish the innovative research in the field of modeling and simulation for electrical power systems. Topics for this special issue include, but are not limited to:

- Modeling and simulation for modern power systems with highly penetrated power converters;
- Modeling for power converters interfaced with renewable energy generation;
- Algorithms for improving modeling and simulation;
- Machine learning techniques used in electrical power systems;
- Numerical and physical arc modeling in electrical power systems;
- Simulation for high-frequency power converters;
- Simulation-based design of energy storage systems and EV chargers;
- Fault detection and diagnosis for electrical power systems;
- Nonlinear behaviors in electrical power systems;
- Stability control for electrical power systems;
- Simulation solutions for motor design and control;
- Modeling and simulation for distributed generation and microgrids;
- Dynamics modeling, estimation, and control





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Message from the Editor-in-Chief

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