



Optimal Operation and Control of Energy System and Power System

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submissions:

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Message from the Guest Editors

Dear Colleagues,

Replacing polluting coal and oil-fired electricity with renewable energy sources, such as wind or solar power, is widely agreed to be necessary for realizing net-zero emissions. However, due to the intermittent nature of renewable energy, the challenges posed by its integration in power grids are significant. Extensive efforts have thus been diverted to achieving optimal operation and control of energy systems and power systems in order to integrate high-proportion renewable energy by dispatching and coordinating various flexible resources.

This Special Issue invites the submission of original papers and review articles presenting new research results on control and operation in energy and power systems. Topics of interest include, but are not limited to:

- Optimal control and operation of multi-energy systems;
- Robust or resilient control and operation;
- Smart management of distributed generation resources;
- Load prediction and management in energy systems;
- Cooperation of transmission network and distribution network;
- Advanced control and operation using artificial intelligence;
- Techniques for accelerating multiscale and multi-interactive energy systems.





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Message from the Editor-in-Chief

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