



Advances in Economic and Resilient Operations of Electrical Power Systems

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Deadline for manuscript
submissions:

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Message from the Guest Editors

Dear Colleagues,

The rapid transition from fossil fuel-fired generations to sustainable energy has resulted in a power system operation that is increasingly complex, interconnected, and uncertain. A sustainable energy future calls for decision-making informed by the most advanced research and technologies in power markets and power grid resilience. This Special Issue aims to present the most recent advance in economic and resilient power system operations, including theoretical foundation, modeling, optimization, and application of emerging computational techniques.

Topics of interest for publication include, but are not limited to:

- Power market operation, locational marginal price, and unit commitment and economic dispatch of power/multi-energy systems.
- Power grid resilience, including extreme weather and cybersecurity.
- Optimal electric vehicle integration in the smart grid.
- Power system planning and energy management.
- Novel optimization techniques for power system operations.
- Application of cutting-edge artificial intelligence techniques.
- Secure operation and control of 100% power electronics based power systems.





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Message from the Editor-in-Chief

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