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Advances in Economic and Resilient Operations of Electrical Power Systems

Guest Editors:

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Dr. Mingshen Wang

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Deadline for manuscript submissions:
closed (31 July 2023)

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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Special Issue

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Message from the Editor-in-Chief

Energies is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

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