Special Issue

Advances in Resilient Operation, Optimization, and Control of Smart Grids and Microgrids

Message from the Guest Editors

Recently, smart grids and microgrids have gained much importance with advancements in distributed energy resources (DERs), renewable energy, computing, communication, and artificial intelligence technologies. Microgrids are finite-inertia power systems that integrate distributed generation to include renewable energy resources, energy storage, and loads. Smart grids are prone to cyber-attacks due to extensive reliance on computing and communication technologies. This has given rise to research in the resilient operation, optimization, and control of microgrids and smart grids. In this context, this Special Issue aims to present and disseminate the most recent advances related to techniques for resilient operations, optimization, and control of microgrids and smart girds. The topics of interest for publication include but are not limited to:

- All aspects of resilient operations for microgrids and smart grids under cyber-attacks and faults;
- Power systems optimization;
- Distributed cooperative control of microgrids and smart grids;
- Artificial Intelligence-based resilient microgrids.

Guest Editors

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Deadline for manuscript submissions

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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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