Special Issue

Microgrids and Its Application to Integrated Energy Systems and Islanded Active Distribution Networks, 2nd Edition

Message from the Guest Editors

Join us in shaping the future of active distribution networks! Our Special Issue focuses on the dynamic interplay of distributed generators, microgrids, and renewable-based energy resources. Explore the potential of these networks to enhance grid resilience and reliability while embracing sustainability. **Scope & Objectives:** We invite high-quality research on microgrid optimization under uncertainty, emphasizing scalable computational solutions. From long-term planning to real-time operation, delve into managing energy systems amidst diverse renewable technologies. Share innovative analytical approaches and simulation techniques for optimal microgrid control, dispatch, and ancillary service provision. **Key Topics Include:**

- Probabilistic methods for microgrid EMS
- Innovative control solutions for building microgrids
- Integration of electric mobility in islanded microgrids and port energy systems
- Predictive maintenance & fault detection in hybrid microgrids

Guest Editors

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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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