Special Issue

Intelligent Operation and Control of Resilient Microgrids

Message from the Guest Editor

- Advanced control: Centralized and decentralized strategies for resilient microgrid operation.
- Energy management: Smart systems to optimize generation, storage, and demand response.
- Mode transition: Seamless switching between grid-connected and islanded modes.
- Renewables and EVs: Integrated use of clean energy, storage, and electric vehicles.
- Real-time control: Big data and machine learning for adaptive system performance.
- Fault tolerance: Detection and control to ensure continuous operation.
- Extreme conditions: Resilient operation during disasters or failures.
- System stability: Reconfiguration and load shedding during faults.
- Ancillary services: Voltage/frequency regulation, load balancing, black-start.
- Cybersecurity: Safe and efficient data and system protection.
- Scalable design: Modular microgrids for diverse deployment scenarios.
- Optimal design: Reliability, cost-efficiency, and sustainability focus.

Guest Editor

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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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