

Special Issue

Intelligent Control and Optimization Technologies in Sustainable Smart Grids: Networked Microgrids and Distributed Systems

Message from the Guest Editor

Economic factors, carbon neutrality and the increasing penetration of distributed generations (DGs) are pushing the incumbent distributed system toward a more intelligent and sustainable future. Microgrid clusters are considered to be important carriers that facilitate the utilization of renewable energies and efficient interactions between DGs, grid, storages and loads. It is crucial to explore intelligent technologies/algorithms for the coordination operation of network microgrids and distributed systems, including the relevant optimal dispatching, MGs cooperative control, power electronics control, storage configurations, reconfigurable networks, service restoration, etc. Moreover, cyber-physical systems and artificial intelligence are also interesting topics related to sustainable networked microgrids and distributed networks.

- modeling and control of (networked) microgrids;
- distributed cooperative control/optimization;
- intelligent control/optimization algorithms;
- control of power electronics-interfaced DGs;
- cyber-physical systems in smart grids

Guest Editor

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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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