

Special Issue

Optimization and Fault Detection in Smart Power Grids

Message from the Guest Editors

The smart grid is experiencing exponential growth mainly due to the great penetration of renewable energy into electric power systems and the integration of electric vehicles with the network. However, due to the intermittent nature of renewable energy sources in electric vehicles of small producers / self-consumers, optimization is one of the main tools for its design and maintenance, minimizing costs, losses of energy, etc. Most networks have installations that are interconnected and require intelligence while maintaining proper working order, so fault detection to perform the repair and optimization processes to minimize its impact on the network are important. This Special Issue will collect original research or review articles on the main technological advances in the design and maintenance of intelligent networks, in order to improve their planning, organization, costs, and intelligence covering any optimization technique, such as bioinspired, metaheuristics, support vector machines, etc.

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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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