Special Issue

Fault Locations for Smart Grids

Message from the Guest Editors

Smart grids have facilitated the interconnection of the different units in the power system, and the intelligence of the grid system has been improved by the multidirectional flow of information from the consumer to the substation and from the generation unit toward the distribution and consumption. Therefore, the security and efficiency of smart grids are expected to be superior to those of traditional power systems and the robustness and resiliency of services are expected to increase. However, on the dark side of the distributed platform of the smart connection of consumer sensors to substations, there is a risk of propagating faults to neighbors via communication paths, connection ports, circuit breakers, etc. Therefore, fault diagnosis, system monitoring and management are crucial for the secure performance of smart grids as well as safe service provision. This Special Issue is intended to focus on the Fault Locations for Smart Grids and explore the fault universe of the various components in smart grids. Moreover, the state-of-the-art diagnosis methods will be studied in terms of both model-based and data-based approaches.

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Deadline for manuscript submissions

closed (5 September 2023)

Energies

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 8.3

mdpi.com/si/101324

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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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