Special Issue

Monitoring and Automation of Complex Power Systems

Message from the Guest Editors

Electric power systems are evolving into increasingly complex systems, which require advanced monitoring and automation to achieve the desired targets of efficiency, security, and reliability. The automation chain integrates a set of different components, such as sensors and measurements, communication infrastructure, information technologies, energy management systems, and advanced control algorithms, which are all critical for the design of the overall automation solution. The system architecture that is used also has a key impact on the achievable reliability and scalability. The aim of this Special Issue is to collect research articles presenting innovative views and solutions for the monitoring and automation of transmission and distribution grids. Topics of interest include both the analysis of specific components of the automation chain and higher-level perspectives on platforms and system architectures. Contributions discussing issues, solutions, and practical experience from field deployments or pilot demonstrations are also more than welcome.

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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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