Special Issue

Smart Grid Cybersecurity: Challenges, Threats and Solutions

Message from the Guest Editors

The next generation of Electric Grids relies on an invasive deployment of communication and information technologies (IT) in multiple systems spread across the large infrastructure that interconnects the consumer premises and the electricity distribution, tranmission and generation facilities. Recent reports confirm that cyberattacks targeting power grids and other critical infrastructures have been increasing in frequency and severity. In this context, smart grid operators and the elecriticity industry stakeholders are required to design and implement novel solutions to enhancethe grid resilience and the capability to detect, neutralize and respond to cyberattacks. The proposed papers consist of novel and original ideas and results, theoretical and applied research in the following topics, but not limited to:

- Smart grid risk management
- Security metrics and resilience assessment
- Security policy development
- Cyberattack simulation and case studies
- Detection and mitigation of cyberattacks
- Cybersecurity investments and the economic impact of cyberattacks
- Privacy challenges

Guest Editors

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Deadline for manuscript submissions

closed (10 April 2023)

Energies

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 7.3

mdpi.com/si/88148

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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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