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Smart Grid Cybersecurity: Challenges, Threats and Solutions

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Deadline for manuscript
submissions:

closed (10 April 2023)

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, transmission 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 electricity industry stakeholders are required to design and implement novel solutions to enhance the 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



mdpi.com/si/88148

Special Issue



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Message from the Editor-in-Chief

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