

Special Issue

Securing Smart Grid Cyber-Physical Infrastructure against Emerging Threats

Message from the Guest Editors

Traditionally, SCADA (supervisory control and data acquisition) infrastructure, used for remotely controlling and monitoring power grid systems, has been considered free from cybersecurity risks mainly because of the “airgap” that isolates the system infrastructure from the rest of the world. The topics of interest include, but are not limited to, the following:

- Cross-domain, cyber-physical intrusion/anomaly detection systems for smart grid
- AI/Machine learning application for smart grid security and resilience
- Cryptography and key management for smart grid
- Context-aware command authentication/validation in smart grid
- Deception technologies and moving-target defence for smart grid
- Design and implementation of smart grid security testbed and cyber range
- Internet of Things for security smart grid
- Blockchain application for smart grid (e.g., energy trading)
- Cloud security for smart grid
- Security and privacy in energy Internet
- Secure, privacy-aware demand response
- Threat intelligence collection and analysis
- False data injection attacks and mitigation techniques

Guest Editors

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I encourage you to contribute a research or comprehensive review article for consideration for publication in Sustainability, an international open access journal which provides an advanced forum for research findings in areas related to sustainability and sustainable development. The journal publishes original research articles, reviews, conference proceedings (peer reviewed full articles) and communications. I am confident you will find the journal contributes to enhancing understanding of sustainability and fostering initiatives and applications of sustainability-based measures and activities.

Editor-in-Chief

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