

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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Deadline for manuscript submissions

closed (31 December 2021)



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