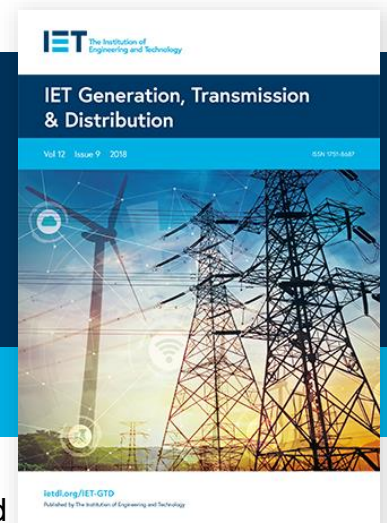


IET Generation, Transmission & Distribution Call for Papers



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Special Issue on: Emerging Applications of IoT and Cybersecurity for Electrical Power Systems

With the growth of Internet of Things (IoT) techniques, applications have become smarter, and linked gadgets allow them to be used in many parts of power systems. Meanwhile, cybersecurity is used to improve an application's intelligence and capabilities, especially with the growing size of collected data. Further, the robustness of cybersecurity infrastructure can protect the power system from risk of cyberattacks.

The emerging trend of IoT and cybersecurity has started worldwide for power system applications. It is worthy of presenting a comprehensive overview of the current actions and trends involving various cybersecurity aspects in power systems. In this regard, many academics have been drawn to the area of power systems, which have been explored using both Artificial Intelligence (AI) and Machine Learning (ML) techniques as well as IoT methodologies. This Special Issue seeks to encourage researchers to showcase their cutting-edge research in the field of IoT applications and cybersecurity, based on AI & ML techniques for power systems.

Topics of interest include, but are not limited to:

- IoT infrastructure and enabling architectures for implementation in electrical power systems.
- Advanced communication techniques for IoT operation with electric power and energy systems (5G / 6G)
- IoT-based cyber-physical systems and digital twins for electrical power systems.
- IoT solutions for optimal power flow
- IoT solutions for effective energy management
- IoT support for power system protection and fault location
- IoT-based operation and integration of renewable energy sources
- IoT solutions for demand-side management
- IoT applications in wide-area measurement and control
- Data integrity and privacy for IoT-enabled electrical power systems.
- IoT applications in smart microgrids
- IoT solutions for economic dispatch
- Cybersecurity solutions for electrical power systems.

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