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Cybersecurity Issues in Smart Grids and Future Power Systems

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Message from the Guest Editor

Dear Colleagues,

Smart grids will rely more on renewable energy sources. Power electronic converters are used in renewable energy generation and storage. Each converter/inverter manufacturer has its own algorithm for programming and optimising its hardware. Furthermore, to respond to any signal from the system operator, these converters rely on communication protocols. As a result, cyber-attacks on these smart converters/inverters are a concern. The main goal of this Special Issue is to give academics, researchers, and industry professionals an opportunity to highlight their current work and define future directions. The topics include, but are not limited to:

- Converter control algorithms
- Synthetic inertia and virtual synchronous machines
- Cyber–physical systems for power systems
- Power quality issues
- Lightweight encryption methods
- Intrusion detection systems
- Artificial intelligence
- Secure and trustworthy in IIoT
- Cybersecurity issues in the IoT

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Special Issue



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Message from the Editor-in-Chief

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