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Wireless Sensor Networks in Smart Grid

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Message from the Guest Editor

Dear Colleagues,

Wireless sensor networks play a crucial role in the integration of renewable energy resources into the smart grid. These networks enable the real-time monitoring and control of diverse renewable energy sources, such as solar and wind, by collecting and transmitting data from sensors deployed throughout the grid infrastructure. The importance of wireless sensor networks lies in their ability to provide accurate and timely information on energy generation, consumption patterns, and grid conditions. This information enables the effective optimization of renewable energy utilization, improves grid stability, and facilitates the integration of distributed energy resources. However, the widespread deployment of wireless sensor networks also introduces security challenges. Since these networks transmit sensitive data, they become potential targets for cyber attacks, including unauthorized access, data tampering, and denial-of-service incidents.

This Special Issue intends to present novel, resilient, and secure solutions for energy systems.



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Special Issue



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Message from the Editor-in-Chief

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