Special Issue

Sensors and Data Analytics for the Smart Grid

Message from the Guest Editor

The rapid climate change is accelerating the need to increase the penetration of renewable energy sources in power networks. Novel sensors and methods in data analytics enable innovative digital services to be deployed to improve the control and efficient usage and distribution of energy. Smart networked IoT sensors may provide near real-time data; algorithms and techniques based on statistical techniques and machine learning may provide the needed analytical model. The aim of this Special Issue is to investigate aspects related to research in sensors and data analytics for the smart grid, in terms of design, optimization, communication, and control, including data collection and analytics. The topics of interest for this call include but are not limited to:

- Smart sensors and sensor measurement networks;
- Methods in data analytics for enabling a data-driven smart grid;
- Novel services for smart grid control and optimization based on sensors and data analytics;
- Communication design and implementation for efficient data collection;
- Security and privacy aspects concerning sensors and data analytics in the smart grid;
- Experiences from data-driven smart grid deployments.

Guest Editor

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Message from the Editor-in-Chief

Sensors is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. Sensors organizes Special Issues devoted to specific sensing areas and applications each year.

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