Special Issue

Sensors and Energy Management Applications for the Smart Grid—2nd Edition

Message from the Guest Editor

With the rise of the IoT and the progress of information technology, the traditional electrical power grid is also transforming into a smart grid. Recently, innovative sensing products, services, and technologies such as intelligent monitoring, control, and communication have been adopted by smart grids to maintain and improve services. The behaviors and actions of all users are connected together by smart grids based on sensors. However, different types of users have different ways of participating in grid scheduling and control, which leads to the need for smart grids to flexibly adjust their own regulation and control strategies according to the dynamic response of demand-side resources. In addition, power trading can also be used to supplement and optimize the smart grid load dispatching operation, and to distribute, control, and monitor power more effectively. In this scenario, new approaches in sensor deployments and new algorithms to analyze the information obtained from them are becoming an essential tool to support the trading, scheduling, and control.

Guest Editor

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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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