

Special Issue

Smart Sensor Networks for Smart Grids

Message from the Guest Editors

Today most of the traditional energy systems are centralized with a large number of customers located within a wide area. Energy is supplied by large power plants that operate according to a centralized coordination mechanism while the integration of distributed renewable energy sources is becoming challenging. A key concept in the design of the smart grid of tomorrow is the introduction of smart sensors everywhere, from energy generation to the energy consumption utilizing contemporary IoT communication technologies to provide the sensor data securely and in real-time. The deployment of such a sensor network will be the enablement for the transformation of the smart grid and the traditional electric grids to the energy of internet. This Special Issue will bring together the contributions from researchers of various scientific areas aiming to define the importance of smart sensors in smart grids for the integration of distributed energy generation sources and storage systems through a decentralized measurement network based on contemporary cyber-physical systems communication and security technologies towards the transition to the energy of internet era.

Guest Editors

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Deadline for manuscript submissions

closed (31 August 2022)



Sensors

an Open Access Journal
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Impact Factor 3.5
CiteScore 8.2
Indexed in PubMed



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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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