

Special Issue

Smart Sensors, Smart Grid and Energy Management

Message from the Guest Editors

Smart sensors play a crucial role in modern energy management systems, particularly in the context of smart grids. These sensors have advanced functionalities, such as real-time data collection, analysis, and communication capabilities. By integrating smart sensors into the grid infrastructure, utilities can monitor energy consumption patterns, detect faults or abnormalities, and optimize energy distribution more efficiently. Key features of smart sensors include remote monitoring, predictive maintenance, and the ability to integrate with other smart grid components like smart meters and control systems. Implementing smart sensors enhances grid reliability, improves energy efficiency, and facilitates the integration of renewable energy sources.

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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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