

Special Issue

Smart Sensors in Power and Electronic Systems: Innovations and Self-Powered Operation

Message from the Guest Editor

Recent advances in power electronics and energy systems have created a strong demand for advanced sensor technologies that combine high accuracy, reliability, and often autonomous operation. Smart sensors, equipped with embedded intelligence, wireless communications, and self-diagnostics, are revolutionizing the measurement, control, and optimization of electrical, thermal, magnetic, and other parameters. This Special Issue brings together original research and review articles on the latest advances in smart sensors, sensor networks, and autonomous sensor technologies for energy and electronic systems. Both theoretical research and experimental confirmation are welcome. Possible topics include, but are not limited to, the following:

- Smart sensors for power electronics and energy systems;
- Energy harvesting and self-powered sensors;
- Magnetic, thermal, current, and other sensors for diagnostics;
- Wireless and distributed sensor networks;
- Intelligent monitoring and predictive maintenance;
- Control and fault detection systems with integrated sensors.

Guest Editor

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About the Journal

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.

Editor-in-Chief

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