Special Issue

Energy Harvesting and Low-Power Wireless Smart Sensors

Message from the Guest Editors

Harvesting energy from the smart sensor's environment is an attractive solution. This powering option avoids batteries and the associated work of replacing them, promoting energetic independence. The increasing development of new harvesting technologies contributes to the ability to scavenge energy from various sources and convert it into electrical energy. Energy sources span across various energetic manifestations, such as vibrations, thermal, electromagnetic radiation, chemical or biological. At the same time, the scientific community is researching the efficiency of the energy conversion process, power regulation and storage, maximum power point tracking methods, low power operation, and DC/DC and AC/DC converters. Energy also has a significant impact on smart sensor connectivity. Because of this, low-power network protocols are being proposed, originating new standards ready to be adopted by the industry. Papers targeting these challenges are invited to this Special Issue.

Guest Editors

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Deadline for manuscript submissions

closed (30 June 2023)

Sensors

an Open Access Journal by MDPI

Impact Factor 3.5
CiteScore 8.2
Indexed in PubMed

mdpi.com/si/150750

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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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