



sensors



an Open Access Journal by MDPI

Energy Harvesting and Low-Power Wireless Smart Sensors

Guest Editors:

Prof. Dr. António Espirito-Santo

Dr. Vincenzo Paciello

Dr. Reza Abrishambaf

Dr. Gustavo Monte

Dr. Marco Carratù

Deadline for manuscript
submissions:
closed (30 June 2023)

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.



mdpi.com/si/150750

Special Issue



sensors



an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Vittorio M. N. Passaro

Dipartimento di Ingegneria
Elettrica e dell'Informazione
(Department of Electrical and
Information Engineering),
Politecnico di Bari, Via Edoardo
Orabona n. 4, 70125 Bari, Italy

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.

Author Benefits

Open Access : free for readers, with [article processing charges \(APC\)](#) paid by authors or their institutions.

High Visibility: indexed within [Scopus](#), [SCIE \(Web of Science\)](#), [PubMed](#), [MEDLINE](#), [PMC](#), [Ei Compendex](#), [Inspec](#), [Astrophysics Data System](#), and [other databases](#).

Journal Rank: JCR - Q2 (*Instruments & Instrumentation*) / CiteScore - Q1 (*Instrumentation*)

Contact Us

Sensors Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/sensors
sensors@mdpi.com
[X@Sensors_MDPI](#)