Special Issue

Optical Wireless Sensor Networks: Research and Applications

Message from the Guest Editor

Wireless sensors are prevalent in various applications in both outdoor and indoor environments for building, factory or house monitoring or health monitoring in wearable systems in medical sports, wellness or military contexts. Conventional wireless communications are based on radiofrequency technologies, which may cause security or interference issues due to the increasing number of communicating devices or be incompatible for places or people sensitive to electromagnetic fields, such as wearers of pacemakers or infants. Optical wireless networks inherently overcome these issues and constitute a challenge in these contexts. This Special Issue aims to bring together recent research and applications on optical wireless sensor networks, from the hardware layer to the network layer. The main topics of interest include, but are not limited to:

- Smart and miniaturized optical wireless sensor nodes;
- Optical wireless body sensor networks;
- Free-space and underwater wireless sensor networks;
- Optical wireless transceivers;
- Quality of service, networks, routing and protocols for optical wireless networks;
- Energy harvesting in optical wireless sensor networks.

Guest Editor

Dr. Stephanie Sahuguede
XLIM Laboratory, UMR CNRS 7252, University of Limoges, 87000 Limoges, France

Deadline for manuscript submissions

closed (25 April 2023)

Sensors

an Open Access Journal by MDPI

Impact Factor 3.5
CiteScore 8.2
Indexed in PubMed

mdpi.com/si/144981

Sensors
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
sensors@mdpi.com

mdpi.com/journal/sensors

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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.

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

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