

Special Issue

LoRa Communication Technology for IoT Applications –2nd Edition

Message from the Guest Editor

Low-Power Wide-Area Networks (LPWANs) represent a novel communication paradigm that will replace or complement traditional cellular and short-range wireless technologies in several applications. In the Internet of Things (IoT) field, LPWANs are expected to offer energy-efficient connectivity to a high number of low-power devices, distributed over very large geographical areas. In this context, LoRa is a promising LPWAN technology for inter-connecting billions of low-power IoT nodes. This Special Issue is focused on LPWAN technologies, and in particular on LoRa, addressing (but not limited to) the following topics:

- Experimental deployments and solutions for mobile scenarios or situations where devices are deployed on a wide area;
- Machine learning techniques for the configuration and management of LoRa-based communications;
- Novel physical layer design and optimization for LoRa;
- Novel link layer and network layer design and implementation for LoRa;
- Co-existence and co-operation of LoRa with other wireless technologies in ISM bands;
- Security aspects of LoRa.

Guest Editor

Dr. Luca Leonardi

Department of Electrical, Electronic and Computer Engineering,
University of Catania, 95125 Catania, Italy

Deadline for manuscript submissions

31 October 2026



Sensors

an Open Access Journal
by MDPI

Impact Factor 3.5
CiteScore 8.2
Indexed in PubMed



mdpi.com/si/243693

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

[mdpi.com/journal/
sensors](https://mdpi.com/journal/sensors)





Sensors

an Open Access Journal
by MDPI

Impact Factor 3.5
CiteScore 8.2
Indexed in PubMed



[mdpi.com/journal/
sensors](https://mdpi.com/journal/sensors)



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

Prof. Dr. Vittorio M. N. Passaro

Department of Electrical and Information Engineering, Politecnico di Bari, Via Orabona 4, 70126 Bari, Italy

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 and Instrumentation) / CiteScore - Q1 (Instrumentation)