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

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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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