Special Issue

Advanced Technologies in Low Power Wide Area Networks (LPWAN)

Message from the Guest Editor

The emergence of the Internet of Things concept in the last ten years has radically changed the approach to the development of networked systems. The vast number of items that are expected to be connected to the Internet has led to the need for data transmission technologies whose features are totally different from the ones of personal communication devices. The key requirements for these technologies are rather long range, low power, low cost, and great capacity, instead of reduced latency, great speed, and large bandwidth. In this context, lowpower wide area networks (LPWANs) can play a crucial role since they have been customized for the IoT scenario. Technologies like LoRa and LoRaWAN, SigFox, or other Sub-GHz systems are employed in an ever-increasing number of application scenarios, while NB-IoT has opened the way to IoT-based cellular solutions.

Guest Editor

Dr. Alessandro Pozzebon Department of Information Engineering, University of Padova, 35131 Padova, Italy

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

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Editor-in-Chief

Prof. Dr. Flavio Canavero Department of Electronics and Telecommunications, Politecnico di Torino, 10129 Torino, Italy

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