Special Issue

LoRa-Based Sensor Networks for the New Frontier of the IoT

Message from the Guest Editors

Long-range (LoRa) modulation and LoRa wide-area network (LoRaWAN) protocol are de-facto key enabling technologies for wireless sensor networks (WSN) and the Internet of Things (IoT). Their robustness, reliability, and pervasive coverage capabilities have been extensively proven and studied for years since their launch on the market. At the same time, the feasibility of setting up network infrastructures, which rely on such facilities, has been successfully shown up in a variety of application scenarios, from industries to Smart Cities, from precision agriculture to vehicular networks, and from harsh environments to satellite contexts. It is now time to project LoRa-based sensor networks on the new frontier of the IoT by exploiting their pivotal features for setting up brand new paradigms, and for tackling problems from a different perspective as well. This goal can be achieved by pushing the technologies beyond their limits, thus creating new challenges, so as to foster disruptive alternatives to the standard ideas of connectivity within the big picture of the IoT.

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