

Special Issue

5G/6G-Enabled IoT: Connectivity, Scalability and Low-Latency Applications

Message from the Guest Editors

The Special Issue explores theoretical advances, architecture designs, and experimental validations that harness FR1/FR2/FR3 spectra, XL-/cell-free MIMO, integrated sensing and communications, and AI-native control to support time-critical applications across industry, health, mobility, and smart cities. We welcome research on the topics of interest, include but not limited to, the following:

- URLLC and deterministic networking for IoT;
- RIS-aided and cell-free IoT connectivity;
- Adaptive and reconfigurable antenna arrays;
- Non-terrestrial IoT integration;
- O-RAN/RIC xApps for IoT slicing and QoS;
- Semantic and source-aware communications for IoT;
- Energy efficiency, EH/SLIPT, and green IoT;
- Secure, zero-trust, and post-quantum IoT protocols;
- FR3/THz channel models and localization for IoT;
- Digital twins and closed-loop orchestration for IoT;
- 6G enabled maritime IoT technologies

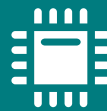
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Message from the Editor-in-Chief

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.

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