Special Issue

Security and Communication Networks

Message from the Guest Editors

Fifth generation (5G)-and-beyond networks connect billions of things that include sensors, actuators, services, and other Internet-connected objects, enabling the future smart life and connected industries by Internet-of-Things (IoT) applications. More specifically, wireless sensors are widely used in 5G-and-beyond networks for monitoring and recording the physical conditions of the environment, while being equipped with limited computation, storage, and power resources. They are extremely vulnerable to various kinds of attacks. The root causes of security weaknesses in wireless communications include the open broadcast nature of radio signal propagation, intermittent machine communications, heterogeneous network architecture, as well as the abundance of miniaturized sensors. More importantly, 5G-and-beyond networks using sensors require highly efficient communication. This Special Issue focuses on all types of lightweight security methods and highly efficient communication methods designed for sensors.

- lightweight security
- highly efficient communication
- IoT devices
- optimization methods
- physical layer security

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Deadline for manuscript submissions

closed (28 February 2023)

Sensors

an Open Access Journal by MDPI

Impact Factor 3.5
CiteScore 8.2
Indexed in PubMed

mdpi.com/si/112022

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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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