Special Issue

Microwave Sensors for Non-invasive Characterization and Monitoring Applications

Message from the Guest Editor

This Special Issue addresses novel ideas, technologies, and challenges related to microwave sensing. It gathers the latest developments from ongoing and rapidly evolving research projects with a special emphasis on dielectric characterization of material and samples, microwave biosensing, and unobtrusive monitoring of moving targets spanning from healthcare to agritech applications. Potential topics include but are not limited to the following:

- Autonomous, minimally invasive monitoring;
- Biosensors for cell and/or subcellular sensing;
- CMOS integrated circuit, on-chip systems, lab-on-chip;
- Dielectric characterization and impedance sensing;
- Localization, angle-of-arrival, and received signal strength indicator detection;
- Novel microwave measurement and readout (e.g., machine learning enhanced) approaches;
- Radar, doppler, and micro-doppler signatures;
- Wireless sensing in sensor networks and Internet of Things settings;
- Wearable and implantable microwave devices.

Guest Editor

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Deadline for manuscript submissions

closed (30 November 2023)

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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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