Special Issue

Microwave and Millimeter Wave Antenna Sensors: Architectures, Applications and Challenges

Message from the Guest Editors

The fast proliferation of antenna-based sensors have been employed in every industry sectors. In recent years, there has been a significant increase in the demand for microwave or millimeter wave antenna sensors. Several design challenges are associated with design of microwave and millimeter wave antenna sensors such as antenna architecture and miniaturization, operating frequency bands, ease fabrication, low cost, high sensitivity, accuracy, and antenna measurement. This special issue mainly focused on new antenna architecture, design methodologies, miniaturization techniques, single and multi-functional operations. Potential topics include but are not limited to the following:

- Microwave and millimeter wave antenna
- Substrate integrated waveguide antenna structures
- Metamaterials and metasurface antenna sensors
- Microstrip printed antenna techniques
- Phased-array antenna design
- Reconfigurable antenna structures
- MIMO antenna design for wearable devices
- Optimization and modelling
- Dielectric characterization
- Antenna measurement

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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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