

Special Issue

Microwave Components in Sensing Design and Signal Processing

Message from the Guest Editors

Microwave sensing technologies have become the backbone of various applications including communications, environmental monitoring, medical diagnostics, and industrial process control, etc. This special issue aims to cover the latest advancements in microwave component design and signal processing techniques for sensing applications, including the design and optimization of microwave components such as antennas, filters, amplifiers, absorbers and resonators, the fabrication techniques to enhance their performance and reliability and advanced signal processing algorithms and methodologies, how to improve detection sensitivity, and enhance the overall performance of microwave sensing systems. In addition to technical aspects, the special issue also focuses on practical considerations for these advanced microwave components, such as system integration, calibration, and validation of microwave sensing systems in modern applications

Keywords:

- Microwave Sensing
- Microwave Component Design
- Microwave Signal Processing
- Antennas
- Filters
- Amplifiers
- Absorbers
- Resonators
- Microwave Engineering

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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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