Special Issue

Advances in Microwave and Millimeter Wave Radar Sensors

Message from the Guest Editor

Recent advances in fabrication techniques allow increased performance, cost reduction and miniaturisation of microwave and millimeter wave transceivers for high-speed wireless communications and radar sensors. In the radar sensors domain, the function of targeted measurements (speed, range, high resolution displacement, gesture sensing, frequency of mechanical vibrations, imagery, etc.) of the system architecture, measurement, calibration and signal processing techniques must be properly considered by the designer. This Special Issue aims to highlight advances in the development, testing, and modeling of microwave and millimeter wave radar sensors, on both the component and system levels, for dedicated applications. Topics include, but are not limited to:

- Novel radar sensor architectures
- Hardware integration of radar sensor front-ends (including antennas and antenna arrays)
- Efficient RF signal generation and down-conversion techniques
- Fabrication technologies and integration techniques
- Sensor characterization and signal processing techniques
- Sensor error modelling and calibration

Guest Editor

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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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