Special Issue

Advances in Microwave Photonics

Message from the Guest Editors

Microwave photonics is an interdisciplinary field that explores the interactions between microwave and optical signals, which aims to leverage the unique properties of photonics, such as their high speed, broad bandwidth, and low transmission loss, to enable novel solutions in microwave systems. Over the past few decades, microwave photonics has achieved significant progress, enabling a wide range of applications in fields such as radar, sensing, instrumentation, and telecommunications. This Special Issue aims to highlight the latest advancements in microwave photonics. Submissions of both original research papers and review articles are welcome. Technical topics of interest include, but not limited to, the following areas:

- Microwave photonics for sensing and measurement;
- Microwave photonic radar for target sensing;
- High-speed optoelectronic devices for sensing and measurements;
- Optoelectronic oscillators;
- Photonic processing of microwave signals;
- Photonic generation of arbitrary waveforms;
- Integrated microwave photonics;
- Radio over fiber for B5G/6G and IoT;
- THz photonics;
- AI in microwave photonics.

Guest Editors

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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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