

Special Issue

Recent Development of Millimeter-Wave Technologies

Message from the Guest Editor

This Special Issue thus aims to highlight recent developments in novel technologies in this broadband RF spectrum, with a particular focus on sub-THz coverage (100 GHz–300 GHz). Contributions may cover, but are not limited to, the following areas:

- Novel system architectures and front-ends for various applications, as presented above;
- Development of integrated fabrication technologies (MMIC, MHMIC, SIW, ...);
- Up- and down-conversion techniques: for example, the development of integrated mixers in terms of efficiency, size, conversion gain, broadband, local oscillator (LO) power reduction;
- Low-noise amplifiers: noise figure reduction, power consumption, gain, etc.;
- Broadband power detectors, filters, multipliers, phase shifters, equalizers, and other ubiquitous modules;
- Integrated antennas in mm wave front-ends: reduced size, efficiency, gain, directivity;
- Mm wave signal generation techniques: low-cost, increased efficiency, frequency accuracy, low phase-noise, etc.;
- LO synchronization and carrier recovery techniques;
- Novel modulation and demodulation techniques;
- Measurement techniques and equipment.

Guest Editor

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Message from the Editor-in-Chief

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