

Special Issue

Millimeter-Wave Communications for 5G and Beyond

Message from the Guest Editor

Dear Colleague,

With the advent of global commercial deployment of 5G, the important role of millimeter wave in wireless communications is becoming more evident. MmWave is able to offer unprecedentedly high data rates, high localization and sensing accuracy.

Nevertheless, the deployment of 5G mmWave systems still face a plurality of challenges, such as the realization of practical mmWave transceiver modules and beamforming architectures, lack of standardized channel models for vehicular-to-everything (V2X) and non-terrestrial mmWave communications, backward compatibility with microwave systems, etc. Furthermore, there are numerous opportunities and research directions for mmWave in beyond-5G (B5G)/6G systems; for instance, the combination with massive antenna arrays or intelligent surfaces, employment of artificial intelligence, and joint communication and sensing in particular.

This Special Issue aims to highlight the deployment challenges and solutions for 5G mmWave systems, and emerging applications of mmWave in B5G/6G. Prospective authors are invited to submit original contributions on, but not limited to, the aforementioned aspects.

Guest Editor

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