

Special Issue

Millimeter-Wave Antenna Array: Design and Challenges

Message from the Guest Editors

As the transition to fifth generation (5G) communication officially begins, the increasing demand for high-speed wireless solutions for both industries and consumers is prompting more intensive research for mmWave technologies than ever. Although many different building blocks towards a successful adoption of mmWave technology, such as communication networks, channel analysis, and transmitter and receiver designs, can be considered, the challenges in the mmWave antenna must be primarily concerned. As the massive number of antenna elements for beamforming and wave propagation behavior in mmWave are unprecedented challenges, array antennas and array field/wave propagation aspects at mmWave must be thoroughly studied. To support the new frequency bands and wireless system architectures that bridge between traditional antenna topics and the challenges confronted with mmWave, the authors are invited to submit articles reporting recent advances in mmWave antenna array technologies. [...] For further information, please visit mdpi.com/si/25403.

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