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Waveguide Transitions for Millimeter-Wave Antenna Arrays Communications

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Message from the Guest Editors

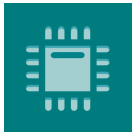
Communications networks are exponentially increasing the volumes of data traffic. Millimeter-wave (mmWave), THz wireless local area, and cellular networks can support very high download speeds. They have become one of the most interesting techniques to be applied in different areas such as positioning systems, communication between devices, and sensing or imaging transmission, among others. The coverage of mmWave networks has been expanded due to the application of large-scale mmWave antenna arrays. Thanks to the short wavelengths, large antenna arrays can be packed into small dimension supports. We can join more antenna elements in mmWave frequencies than in microwaves facilitating the use of multiple-input multiple-output (MIMO) systems. Antenna arrays can be designed to provide a high-gain link from antennas to end devices.

This Special Issue will reflect current research trends and novel approaches related to the issues of Waveguide Transitions designs and propagation for 5G millimeter-wave applications for mmWave antenna arrays.



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Special Issue



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