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Millimeter and Terahertz Wireless Communications

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Message from the Collection Editor

Although the millimeter and terahertz waves cover a wide range of frequencies, which are relatively free of users, these regimes present principal challenges in the realization of wireless communication links and radars in all aspects. This Collection is aimed at addressing issues that are involved in the analysis, design, and implementation of the different communication layers featuring in a wireless link operating in the millimeter and submillimeter (Terahertz) regimes. This includes:

- Communication techniques
- Millimeter and terahertz wave technology
- Transmitter and receiver architectures
- The physical and the medium access control (MAC) layers
- Modulation waveforms and coding
- Passive and active components
- Antennas
- Terrestrial links
- Satellite communications
- Personal, local, and wide area wireless networks
- The 5th generation of cellular communication
- Propagation in the atmospheric medium and through the ionosphere
- Weather conditions effects (humidity, fog, haze, dust, rain, etc.)
- Frequency allocation and standardization
- Utilization of unlicensed bands
- The 6th generation in the future

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Message from the Editor-in-Chief

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