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Millimeter-Wave and Terahertz Technologies for Wireless Communications

Guest Editors:

Dr. Yong Niu

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Deadline for manuscript submissions:
closed (15 July 2025)

Message from the Guest Editors

Driven by the requirements of an extremely high data rate and ultra-reliability in emerging applications, millimeter-wave (mmwave) and terahertz (THz) communications have attracted significant attention. This Special Issue seeks to identify key enabling technologies to support mmWave/THz communications. Topics of interests include, but are not limited to, the following:

(1) mmWave/THz wave propagation and channel modeling

(2) High-power mmWave/THz amplifier

(3) RF frontend and antenna design

(4) Channel estimation and hybrid precoding for mmWave/THz systems

(5) Resource allocation/management and QoS/QoE improvement for mmWave/THz systems

(6) Network architectures and protocols for mmWave/THz communications

(7) Anti-blockage and mobility support techniques for mmWave/THz systems

(8) Energy-efficiency and green operation for mmWave/THz systems

(9) mmWave/THz systems integrated with AI and digital twin technologies

(10) mmWave and THz simulators, prototyping and implementations

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Special Issue

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Message from the Editor-in-Chief

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