Special Issue

Millimeter-Wave and Terahertz Technologies for Wireless Communications

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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Deadline for manuscript submissions

closed (15 July 2025)

Electronics

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Impact Factor 2.6
CiteScore 6.1

mdpi.com/si/182082

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Electronics is a multidisciplinary journal designed to appeal to a diverse audience of research scientists, practitioners, and developers in academia and industry. The journal is devoted to fast publication of latest technological breakthroughs, cutting-edge developments, and timely reviews of current and emerging technologies related to the broad field of electronics. Experimental and theoretical results are published as regular peer-reviewed articles or as articles within Special Issues guest-edited by leading experts in selected topics of interest.

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