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) Energyefficiency 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

Guest Editors

Dr. Yong Niu

Prof. Dr. Ke Guan

Dr. Zhipeng Lin

Dr. Hao Jiang

Deadline for manuscript submissions

closed (15 July 2025)



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mdpi.com/si/182082

Electronics
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
electronics@mdpi.com

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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 guestedited by leading experts in selected topics of interest.

Editor-in-Chief

Prof. Dr. Flavio Canavero

Department of Electronics and Telecommunications, Politecnico di Torino, 10129 Torino, Italy

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