Special Issue

Terahertz, RF, Millimeter, and Submillimeter-Wave Technology and Applications

Message from the Guest Editors

The 6G research has been launched worldwide and has shown a paradigm shift of global coverage, all spectra, full applications, and strong security. To meet the requirements of 6G wireless communication networks, all spectra will be fully explored, including millimeter wave (mmWave) and terahertz (THz) bands. Higher frequency bands can enable higher transmission data rates and increase the resolution ability of joint sensing and communications, as well as imaging. Another merit of higher frequency bands is that more antenna elements can be manufactured in a given space. The new antenna technologies, such as ultra-massive multiple-input multiple-output (MIMO), holographic MIMO, and reconfigurable intelligent surface (RIS) have been well studied. Meanwhile, signal processing, wireless channel measurements, and channel modeling will also be of great importance for 6G developments and applications. The main objective of this Special Issue is to address the recent advances and future challenges in RF, (sub-)mmWave, and THz technologies and applications.

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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.

Editor-in-Chief

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