# 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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## Deadline for manuscript submissions

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