Special Issue

Radio Frequency/Microwave Integrated Circuits and Design Automation

Message from the Guest Editors

RF/Microwave are terms used to describe electromagnetic (EM) waves with frequencies ranging from 300 kHz to 300 GHz. This frequency range corresponds to free space wavelengths from 1 km to 1 mm. EM waves with frequencies ranging from 30 to 300 GHz are commonly known as millimeter waves because their wavelengths fall above 1 mm and below 10 mm. The radio frequency (RF) spectrum with a range of 300 k–30 G Hz lies below the microwave spectrum. However, the boundary between the RF and microwave spectra is arbitrary and depends on the technology developed for the exploitation of the specific spectrum. This Special Issue focuses on recent developments in the analysis, design, implementation and measurement of RF, microwave and millimeter-wave integrated circuits, including (but not limited to) wireless transceivers (transmitters and receivers) and their submodules, such as RF amplifiers, mixers, phase-locked loops, filters, diplexers/multiplexers, power dividers/combiners, couplers/transformers, phase shifters, etc., for modern communication systems.

Guest Editors

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Deadline for manuscript submissions

closed (15 June 2025)

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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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