

Special Issue

Microwave, RF, and mm-Wave Circuits for Advanced Wireless Communications and Sensing

Message from the Guest Editors

This Special Issue seeks original research and reviews on microwave, RF, and millimeter-wave circuit technologies for advanced wireless communication and sensing. Submissions should introduce novel circuit topologies, architectures, design methods, modeling, measurement techniques, or integration strategies that improve performance, efficiency, linearity, bandwidth, or manufacturability from microwave to mm-wave frequencies. We welcome work on new semiconductor platforms (CMOS, SiGe, GaN, III-V), metamaterial/metasurface components, frequency-agile or reconfigurable designs, antenna-circuit co-design, packaging and thermal solutions, AI-assisted design, on-chip measurement and calibration, energy-efficient or compact implementations, and system-level integration for 5G/6G, satellite, radar, imaging, and biomedical sensing. Manuscripts must provide rigorous analysis with simulations and experimental validation, including measured prototypes when possible, and discuss practical impact, scalability, and deployment potential.

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