Special Issue

Advances in Analog and RF Circuit Design

Message from the Guest Editor

Analog and radiofrequency (RF) circuit design remains a cornerstone of modern electronics, enabling critical functionality in applications ranging from wireless communication and sensor interfaces to biomedical systems and high-performance computing. As digital systems continue to scale and diversify, the demand for robust, power-efficient, and high-performance analog and RF front ends is greater than ever. Recent advances in circuit design methodologies, device modeling, and system-level integration have opened up new possibilities for performance optimization, noise reduction, bandwidth extension, and ultra-low-power operation. At the same time, emerging application areas such as 6G communications, quantum systems, wearable health monitoring, and automotive radar are driving innovation in analog/RF design far beyond the traditional paradigms. Topics of interest include, but are not limited to the following:

- Analog and RF circuit design;
- Data converters, phase-locked loop, voltage-controlled oscillator, and sensor interface circuit;
- Low-noise amplifier and mixer and power amplifier;
- Key building blocks for analog/RF circuits

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Message from the Editor-in-Chief

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.

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.8 days after submission; acceptance to publication is undertaken in 2.4 days (median values for papers published in this journal in the first half of 2025).

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