Special Issue

Advances in Analog and Mixed-Signal Integrated Circuits

Message from the Guest Editor

Analog and mixed-signal circuits are in high demand in the current system-on-chip (SoC) systems. They are widely used in power management, radio frequency (RF) signal sensing and processing, A/D or D/A conversion, clock generation, etc. Therefore, the main objective of this Special Issue is to present new works, recent developments, reviews, and results in the field of novel concepts on phase locking, and carrier recovery, as well as building blocks such as VCO, wide bandwidth amplifiers, comparators, analog, mixed-signal and RF circuits, and systems. Relevant topics include, but are not limited to, the following:

- Clocking circuits;
- Power amplifiers;
- Transceiver designs;
- High-speed I/O circuits;
- Data converters: ADCs and DACs:
- Low-power and low-voltage circuits;
- Power management circuits;
- Digital-based analog processing;
- CMOS and beyond circuit design;
- Machine learning techniques/AI in analog/RF integrated circuit design;
- Mixed signal circuits/systems;
- Integrated sensor ICs;
- RF circuits and building blocks.

Guest Editor

Dr. Masum Hossain

Department of Electrical & Computer Engineering, Faculty of Engineering, University of Alberta, Edmonton, AB T6G 2R3, Canada

Deadline for manuscript submissions

closed (30 April 2024)



Electronics

an Open Access Journal by MDPI

Impact Factor 2.6 CiteScore 6.1



mdpi.com/si/169259

Electronics
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
electronics@mdpi.com

mdpi.com/journal/electronics





Electronics

an Open Access Journal by MDPI

Impact Factor 2.6 CiteScore 6.1



About the Journal

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.

Editor-in-Chief

Prof. Dr. Flavio Canavero

Department of Electronics and Telecommunications, Politecnico di Torino, 10129 Torino, Italy

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), CAPlus / SciFinder, Inspec, Ei Compendex and other databases.

Journal Rank:

JCR - Q2 (Engineering, Electrical and Electronic) / CiteScore - Q1 (Electrical and Electronic Engineering)

Rapid Publication:

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).

