



## Advances in Analog and Mixed-Signal Integrated Circuits

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)**

### 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.





an Open Access Journal by MDPI

## Editor-in-Chief

**Prof. Dr. Flavio Canavero**

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

## 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 guest-edited by leading experts in selected topics of interest.

## Author Benefits

**Open Access:** free for readers, with [article processing charges \(APC\)](#) paid by authors or their institutions.

**High Visibility:** indexed within [Scopus](#), [SCIE \(Web of Science\)](#), [CAPus / SciFinder](#), [Inspec](#), and [other databases](#).

**Journal Rank:** JCR - Q2 (*Electrical and Electronic Engineering*) CiteScore - Q2 (*Electrical and Electronic Engineering*)

## Contact Us

*Electronics* Editorial Office  
MDPI, St. Alban-Anlage 66  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/electronics](http://mdpi.com/journal/electronics)  
[electronics@mdpi.com](mailto:electronics@mdpi.com)  
[X@electronicsMDPI](https://twitter.com/electronicsMDPI)