

## Special Issue

# RF and Mixed Signal High Speed Circuit Design

### Message from the Guest Editors

This Special Issue aims to publish recent advances on RF and mixed signal circuits, giving more attention and focus on front-end transmitter and receiver high frequency circuits, circuits for front-end optical processing, A/D and D/A high-speed low consumption devices and high-speed data links, interfaces, and backplanes. Representative topics of interest include the following:

- Front-end transmitter and receiver circuits (PAs, LNAs, mixers, oscillators)
- Front-end optical processing circuits (transimpedance amplifiers, limiters, modulators)
- Wideband A/D and D/A converters, sample and hold / track and hold amplifiers
- Techniques for system-on-chip (SoC) development of multiple radios, high performance FPGA interfaces
- High speed interfaces such as USB and PCIe
- Data serializers/ deserializers (SerDes), clock and data recovery circuits (CDRs)
- High speed links, differential line modeling, signal integrity
- Gigabit Ethernet transmission systems for vehicle networking, high throughput interconnects

Welcome to contribute!

### Guest Editors

Dr. Grigorios Kalivas

Department of Electrical and Computer Engineering, University Of Patras, 26504 Rio Achaia, Greece

Prof. Dr. Alexios Birbas

Department of Electrical and Computer Engineering, University of Patras, 26504 Rio Achaia, Greece

### Deadline for manuscript submissions

closed (31 July 2021)



## Electronics

an Open Access Journal  
by MDPI

Impact Factor 2.6  
CiteScore 6.1



[mdpi.com/si/48763](https://mdpi.com/si/48763)

*Electronics*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[electronics@mdpi.com](mailto:electronics@mdpi.com)

[mdpi.com/journal/  
electronics](https://mdpi.com/journal/electronics)





# Electronics

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.6  
CiteScore 6.1



[mdpi.com/journal/  
electronics](https://mdpi.com/journal/electronics)



## 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).