

## Special Issue

# Nonlinear Circuits and Systems: Latest Advances and Prospects

### Message from the Guest Editors

The study of nonlinear circuits and systems has played a crucial role in recent advances in microelectronics, with particular emphasis on analog and mixed-signal electronics, and power electronics. The goal of this Special Issue is to gather original research papers as well as review articles that highlight the latest developments and breakthroughs in this area, with particular emphasis on multidisciplinary and interdisciplinary applied research. Topics of interest for this Special Issue include, but are not limited to, the following:

- Cryptography and true random number generators;
- Hardware security and physically unclonable functions;
- Nonlinear signal processing;
- Integrated chaotic circuits;
- Power electronics and energy conversion circuits;
- Analog computing and memristor-based circuits;
- Nonlinear circuits for artificial intelligence;
- Nonlinear circuits for biomedical applications;
- Nonlinear control systems;
- Complex networks;
- Applications in telecommunication.

We look forward to receiving your contributions.

---

### Guest Editors

Dr. Tommaso Addabbo

Department of Information Engineering and Mathematics, University of Siena, 53100 Siena, Italy

Dr. Fabio Pareschi

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

---

### Deadline for manuscript submissions

closed (15 June 2025)



## Electronics

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.6  
CiteScore 6.1



[mdpi.com/si/191021](https://mdpi.com/si/191021)

*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 guest-edited 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), CAPus /  
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).