

## Special Issue

# Challenges and Opportunities of Artificial Intelligence for Electronic Design: Theory and Applications

### Message from the Guest Editor

This Special Issue aims to provide readers with a timely snapshot of the state-of-the-art developments in the field of artificial intelligence applied to the modeling, design, validation, and testing of electronic hardware. The topics span from the theory, the algorithms, and the neural network architectures to improve the accuracy, efficiency, and optimization of AI processes to practical applications, innovative tools, and prototypes that help and support the correct and advanced design of electronic systems and components.

- artificial intelligence
- artificial neural networks
- big data management
- learning techniques
- optimization
- printed circuit boards
- analog circuits
- RF systems
- IC and packages
- power delivery networks
- signal integrity
- power integrity
- CAD and tools

### Guest Editor

Prof. Dr. Antonio Orlandi

Department of Industrial and Information Engineering and Economics,  
University of L'Aquila, via G. Gronchi, 18, I-67100 L'Aquila, Italy

### Deadline for manuscript submissions

closed (30 November 2019)



## Electronics

an Open Access Journal  
by MDPI

Impact Factor 2.6  
CiteScore 6.1



[mdpi.com/si/19677](https://mdpi.com/si/19677)

*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).