

Special Issue

New Advances of FPGAs in Signal Processing

Message from the Guest Editors

We are pleased to announce a Special Issue of *Electronics* focusing on the latest advancements in field-programmable gate arrays (FPGAs) applied to signal processing. FPGA-based systems have been established as key technologies in a wide range of application fields, including radio frequency communications, audio and image processing, high-energy physics, and radar systems. This widespread use is mainly driven by their extreme flexibility for being reconfigured, capability of parallelizing tasks, low latency, and a remarkably high performance over other well-established technologies. We welcome original research articles and reviews that contribute significant insights into advancing the field of signal processing in FPGA-based systems. Submissions should address key challenges and propose innovative solutions to overcome the complexities of implementing signal processing algorithms in FPGAs.

Guest Editors

Dr. Fernando Carrio

1. Conseil Européen pour la Recherche Nucléaire (CERN), Esplanade des Particules 1, Meyrin, Geneva 1211, Switzerland
2. Instituto de Física Corpuscular (CSIC-UV), Parc Científic de la Universitat de València, C/ Catedrático José Beltrán 2, Paterna E-46980, Spain

Dr. Tigran Mkrtchyan

Kirchhoff-Institute for Physics, Heidelberg University, Heidelberg 69120, Germany

Deadline for manuscript submissions

15 November 2025



Electronics

an Open Access Journal
by MDPI

Impact Factor 2.6
CiteScore 6.1



mdpi.com/si/202884

Electronics
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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).