

Special Issue

Neural Network Applications to Digital Signal Processing

Message from the Guest Editors

Biology offers system models that process information more efficiently than current technology. Neuromorphic computing systems offer a new computing paradigm for emerging scientific and engineering applications by mimicking the processing of neurobiological architectures. This computing paradigm requires a melding of novel engineering principles with knowledge gleaned from neuroscience. Artificial intelligence is increasingly present in applications that we use in our daily lives, especially in visual and audio processing tasks, but they require high computational power and are not as efficient compared to biological systems. The scope of this Special Issue will be broadly interpreted to include but not be limited to:

- Neuromorphic sensory fusion;
- Event-based algorithms for visual and audio processing;
- Neuromorphic control algorithms;
- Neuromorphic vision sensing and processing;
- New hardware architectures for neuromorphic edge computing;
- Neuromorphic audio sensing and processing;
- Neuromorphic sensory integration.

Guest Editors

Dr. Antonio Rios Navarro

Robotics and Technology of Computers Lab, University of Seville, 41012 Seville, Spain

Dr. Gianvito Urgese

Politecnico di Torino, DIST, 10125 Torino, Italy

Deadline for manuscript submissions

closed (31 May 2022)



Electronics

an Open Access Journal
by MDPI

Impact Factor 2.6
CiteScore 6.1



mdpi.com/si/76295

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).