

Special Issue

Neural Networks: From Software to Hardware

Message from the Guest Editors

This Special Issue aims to explore the intersection of algorithmic innovation and hardware deployment, bridging theoretical advancements with practical utilization. We invite contributions addressing the co-design of neural network architectures and hardware platforms, including but not limited to the following:

- Novel neural network paradigms for hardware deployment (e.g., spiking neural networks with faster inference and higher energy-efficiency, knowledge distillation techniques capable of learning richer information from complex networks using simpler architectures, sparse models with enhanced robustness and generalization capabilities, and model pruning techniques that enable the more precise identification of redundant components in neural networks)
- Flexible hardware architectures compatible with neural networks (e.g., embedded software–hardware interaction systems with lower latency and higher energy-efficiency).

Guest Editors

Dr. Lei Yang

Department of Computing, The Hong Kong Polytechnic University,
Hong Kong, China

Dr. Donghui Dai

Department of Computing, The Hong Kong Polytechnic University,
Hong Kong, China

Deadline for manuscript submissions

15 December 2025



Electronics

an Open Access Journal
by MDPI

Impact Factor 2.6
CiteScore 6.1



mdpi.com/si/241499

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), 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).