# **Special Issue**

# Convolutional Neural Networks and Vision Applications, 4th Edition

## Message from the Guest Editors

This Special Issue is reserved for research related to the design, optimization, and implementation of machine-learning-based vision algorithms or convolutional neural networks that are suitable for real-time vision applications. General topics covered in this Special Issue include the following:

- Optimization of software-based vision algorithms;
- CNN architecture optimizations for real-time performance;
- CNN acceleration through approximate computing;
- CNN applications that require real-time performance;
- Tradeoff analysis between speed and accuracy in CNN:
- GPU-based implementations for real-time CNN performance;
- FPGA-based implementations for real-time CNN performance;
- Embedded vision systems for applications that require real-time performance;
- Machine vision applications that require real-time performance.

### **Guest Editors**

Prof. Dr. D. J. Lee

450 Engineering Building, Department of Electrical and Computer Engineering, Brigham Young University, Provo, UT 84602-4099, USA

Dr. Dong Zhang

School of Electronics and Information Technology, Sun Yat-sen University, Guangzhou 510006, China

## Deadline for manuscript submissions

20 December 2025



# **Electronics**

an Open Access Journal by MDPI

Impact Factor 2.6 CiteScore 6.1



mdpi.com/si/227883

Electronics
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
electronics@mdpi.com

mdpi.com/journal/electronics





# **Electronics**

an Open Access Journal by MDPI

Impact Factor 2.6 CiteScore 6.1



## **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).

