Special Issue

Convolutional Neural Networks and Vision Applications, Volume II

Message from the Guest Editors

This Special Issue is dedicated to 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 but are not limited to:

- 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

closed (31 December 2022)

Electronics

mdpi.com/si/98833

mdpi.com/journal/
electronics

Electronics

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 (Physics, Applied) / CiteScore - Q1 (Electrical and Electronic Engineering)

Rapid Publication:
manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.4 days after submission; acceptance to publication is undertaken in 2.4 days (median values for papers published in this journal in the second half of 2024).

MDPI