

Special Issue

Embedded Systems for Neural Network Applications

Message from the Guest Editor

Various types of neural network models are being used for intelligent decision making in various types of embedded systems. Such systems are typically used in mobile environments and require extremely power-efficient circuits with fast inference capabilities. Examples include speech processing systems in smartphones, headsets, and earbuds; computer vision processing systems in tablets, smartphones, and smart eyeglasses; and real-time video processing systems for autonomous vehicles. Various models and techniques can be used to enable state-of-the-art artificial intelligence capabilities in such devices, even when used in low-network-bandwidth or unconnected environments. This Special Issue will investigate the latest state-of-the-art techniques for embedded computing in special-purpose neural network hardware, field-programmable gate array designs, and specially designed computer systems using mass-market general-purpose CPUs. All contributions investigating any aspects of embedded systems for neural network applications are welcome. Keywords

- embedded systems
- edge computing
- neural network
- low-power circuits
- neural accelerator

Guest Editor

Prof. Dr. Sunggu Lee

Department of Electrical Engineering, Pohang University of Science and Technology, 77 Cheongam-ro, Nam-gu, Pohang 37673, Republic of Korea

Deadline for manuscript submissions

closed (15 September 2024)



Electronics

an Open Access Journal
by MDPI

Impact Factor 2.6
CiteScore 6.1



mdpi.com/si/140394

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 guestedited 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).