



Advanced Technologies in Intelligent Computer System Architecture

Guest Editors:

Dr. Giovanni Agosta

Department of Electronics,
Information and Bioengineering,
Politecnico di Milano, 20133
Milano, Italy

Prof. Dr. Carlo Brandolese

DEIB, Politecnico di Milano,
Milan, Italy

Dr. Stefano Cherubin

School of Computing, Edinburgh
Napier University, Edinburgh, UK

Deadline for manuscript
submissions:

closed (30 June 2022)

Message from the Guest Editors

Intelligent computer systems are increasingly gaining traction thanks to the improvements in the underlying machine intelligence theory and applications. This is also driving intelligence into embedded devices, which are expected to implement complex decision logics, with or without the support of remote networked servers, and possibly coordinate information from multiple sources to achieve a correct understanding of the environment they are operating in.

Topics of interest include, but are not limited to:

- Hardware architectures and accelerators for intelligent embedded and cyberphysical systems;
- Compiler-based techniques for enforcing extrafunctional properties;
- Approximate computing and mixed-precision techniques;
- Low-power embedded systems architectures for AI and machine learning applications;
- Embedded systems compiler/runtime frameworks to support AI and machine learning applications;
- Programmability of self-driving cars and other safety-critical intelligent computer systems;
- Models and learning discretization for low-end microcontrollers;
- Performance/memory tradeoffs and optimizations;
- Hardware/software co-design and platform-based design.





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Flavio Canavero

Department of Electronics and
Telecommunications,
Politecnico di Torino, 10129
Torino, Italy

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.

Author Benefits

Open Access: free for readers, with [article processing charges \(APC\)](#) paid by authors or their institutions.

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)

Contact Us

Electronics Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/electronics
electronics@mdpi.com
[X@electronicsMDPI](#)