Special Issue

Advances in High-Efficiency Al-Enabled Edge Computing for Distributed Networking Systems

Message from the Guest Editors

The Special Issue focuses on emerging research and technological breakthroughs integrating Artificial Intelligence techniques with edge computing paradigms. Its primary objective is to address challenges and opportunities associated with processing massive datasets at network edges, thereby improving efficiency, responsiveness, and scalability within distributed networking systems. The topics of interest for this Special Issue include, but are not limited to, the following:

- Novel AI algorithms that are specifically optimized for edge environments.
- Efficient edge computing architectures and frameworks incorporating Al.
- Practical implementation of Al-based solutions for real-time analytics and decision making.
- Al-driven resource management and allocation in distributed edge networks.
- Security, privacy, and reliability enhancements enabled by AI in edge computing contexts.
- Case studies that highlight significant advancements and deployment outcomes.
- Al-enabled edge computing in 5G networks and beyond.
- Performance evaluation and benchmarking of edge computing systems.
- Surveys for the essence of edge computing from Al perspectives

Guest Editors

Dr. Dajun Zhang

Dr. Xiaowei Jia

Prof. Dr. F. Richard Yu

Deadline for manuscript submissions

15 April 2026



Electronics

an Open Access Journal by MDPI

Impact Factor 2.6 CiteScore 6.1



mdpi.com/si/235415

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 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).

