

Special Issue

High-Performance Computing and AI Compression

Message from the Guest Editors

This Special Issue aims to explore the latest innovations and developments in this area, addressing both theoretical and practical aspects. We invite original research articles, reviews, and case studies that contribute to the understanding and advancement of compression techniques tailored for HPC and AI applications. Research areas of this Special Issue may include (but are not limited to) the following:

- Novel algorithms for data compression in HPC and AI environments;
- Hardware acceleration techniques for efficient data processing and compression;
- Case studies demonstrating the practical implementation of compression techniques in real-world HPC and AI applications;
- Theoretical advancements in lossless and lossy compression methods;
- Interdisciplinary approaches combining AI with traditional compression techniques;
- Benchmarking and performance evaluation of compression methods in HPC and AI scenarios;
- Energy-efficient compression strategies for sustainable high-performance computing.

Guest Editors

Dr. Siye Wang

School of Artificial Intelligence, Beijing University of Posts and Telecommunications, Beijing 100876, China

Dr. Man Zhang

School of Artificial Intelligence, Beijing University of Posts and Telecommunications, Beijing 100876, China

Deadline for manuscript submissions

closed (15 February 2026)



Electronics

an Open Access Journal
by MDPI

Impact Factor 2.6
CiteScore 6.1



mdpi.com/si/216380

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 16.4 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the second half of 2025).