

Special Issue

Advances in Intelligent Wireless Communications: AI, Optimization, and Beyond

Message from the Guest Editors

The rapid advancement of wireless communication technologies, particularly in the context of 5G, 6G, and massive IoT deployments, has introduced unprecedented levels of complexity, heterogeneity, and performance demands in modern communication systems. Traditional design paradigms, often based on fixed models and static optimization, are increasingly challenged by dynamic environments, diverse quality-of-service requirements, and resource constraints. In response, the integration of intelligent methodologies—encompassing AI, ML, and advanced optimization—has gained significant attention as a means to enable adaptive, efficient, and scalable wireless communication networks. This Special Issue seeks to explore recent developments and emerging research at the intersection of wireless systems and intelligent decision-making techniques. The aim is to gather high-quality contributions that address both theoretical foundations and practical implementations of intelligent approaches across all layers of wireless networks. This includes novel frameworks, algorithms, and architectures that improve spectrum utilization, energy efficiency, network reliability, and service adaptability.

Guest Editors

Dr. Do-Yup Kim

Department of Information and Telecommunication Engineering,
College of Information Technology, Incheon National University,
Incheon 22012, Republic of Korea

Dr. Sung-Yeon Kim

Department of IT Convergence, ICT Polytech Institute of Korea,
Gwangju 12777, Republic of Korea

Deadline for manuscript submissions

30 June 2026



Electronics

an Open Access Journal
by MDPI

Impact Factor 2.6
CiteScore 6.1



mdpi.com/si/248193

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).