# Special Issue

# IoT Based Intelligent Communications: Modelling, Practice and Applications

## Message from the Guest Editors

In the vast and ever-evolving realm of the Internet of Things (IoT), conventional machine learning (ML) algorithms have played a crucial role in solving complex functions and facilitating complicated decision-making processes. Moreover, ML has also shown its potential capabilities in guiding IoT towards more autonomous and efficient systems, as demonstrated by its efficiency in tasks such as big data analysis and interpretation. However, with the arrival of the sixth generation (6G) communications era, marked by ubiquitous connectivity, extremely low latency, and ultrahigh reliability, the future landscape of IoT is undergoing significant changes. In this context, conventional ML models are encountering substantial challenges in adapting to the vast scale and complexity of data, fulfilling the requirements for real-time processing, and maintaining stable performance within interconnected IoT systems. This Special Issue is dedicated to offering a platform for researchers from both academia and industry to share the latest research findings and innovative solutions for the integration of AI and IoT.

## Guest Editors

Prof. Dr. Di Lin

School of Information and Software Engineering, University of Electronic Science and Technology of China, Chengdu 610054, China

Dr. Zongbo Hao

School of Information and Software Engineering, University of Electronic Science and Technology of China, Chengdu 610054, China

## Deadline for manuscript submissions

15 September 2025

**Electronics**

an Open Access Journal by MDPI

Impact Factor 2.6
CiteScore 6.1

mdpi.com/si/227358

*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

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 guest-edited 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).