Special Issue

Future IoT Convergence: Integrating Electromagnetics, AI, Cybersecurity, and Databases

Message from the Guest Editors

This Special Issue focuses on future IoT convergence technologies that integrate advances in applied electromagnetics (e.g., antenna design, wireless transmission, numerical analysis), artificial intelligence (e.g., machine learning for adaptive control or fault detection), cybersecurity (e.g., secure protocols, encryption, risk mitigation), and database systems (e.g., secure storage, distributed access, the real-time querying of sensor data). We aim to explore how these technologies can work together to enhance the scalability, security, energy efficiency, and intelligence of next-generation IoT systems. The scope of this Special Issue includes, but is not limited to, the following:

- Wireless and mobile IoT devices and networks;
- Electromagnetic modeling and simulation for IoT hardware;
- AI and machine learning for IoT optimization and decision making;
- Secure communication protocols and cybersecurity in IoT environments;
- Edge computing and software-defined networking (SDN);
- Data storage, management, and analytics using database technologies;
- Robotic IoT systems and intelligent sensor platforms;
- Cybersecurity education and policy in the context of IoT deployment.

Guest Editors

Dr. Moonseong Kim

Department of IT Convergence Software, Seoul Theological University, Bucheon 14754, Republic of Korea

Dr. Woochan Lee

Department of Electrical Engineering, Incheon National University, Incheon 22012, Republic of Korea

Deadline for manuscript submissions

15 February 2026

Electronics

an Open Access Journal by MDPI

Impact Factor 2.6
CiteScore 6.1

mdpi.com/si/246557

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 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).

MDPI