

Special Issue

New Trends in Cryptography, Authentication and Information Security

Message from the Guest Editors

Cyberspace's seamless integration of physical, social, and mental spaces has become an integral part of our society. However, there are several pressing challenges associated with cyberspace. Thus, we propose the Special Issue include, but not be limited to, the following themes: (1) Integration of AI and Machine Learning: leveraging artificial intelligence (AI) and machine learning techniques to improve the accuracy and efficiency of intrusion detection systems (IDS). (2) Big Data Analytics: discussing how the analytics tools can provide real-time or near-real-time insights into potential security breaches, enhancing the responsiveness of IDS. (3) Emerging Technologies: exploring the potential of emerging technologies like blockchain and quantum computing in revolutionizing IDS. (4) Federated Learning and Privacy Preservation: researching the novel approach that allows for collaborative model improvement without compromising data privacy. (5) Hybrid Models: developing and applying hybrid models that combine different methodologies, such as machine learning with rule-based systems.

Guest Editors

Dr. Zhen Liu

Dr. Peng Li

Prof. Dr. Song Guo

Deadline for manuscript submissions

closed (15 July 2025)



Electronics

an Open Access Journal
by MDPI

Impact Factor 2.6
CiteScore 6.1



mdpi.com/si/197120

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).