Special Issue

Channeling a Characteristics-Driven New Paradigm for Wireless Communication Security

Message from the Guest Editor

The rapid development of wireless communication technologies, along with the widespread adoption of the Internet of Things (IoT), 5G/6G networks, and intelligent systems, is reshaping the landscape of modern communications. Simultaneously, physical layer security, as a core technology ensuring the reliability and confidentiality of information transmission, faces unprecedented challenges and opportunities. By leveraging the inherent physical characteristics of communication channels (such as channel randomness, noise, and multipath effects), physical layer security provides unique solutions to resist eavesdropping, interference, and spoofing attacks, making it a cutting-edge research direction in the field of information security.

This Special Issue aims to gather innovative achievements in the field of physical layer security, covering theoretical breakthroughs, algorithm design, experimental validation, and practical application cases. By promoting the multi-dimensional development of physical layer security technologies, we hope to provide more efficient and lightweight security solutions for next-generation communication systems.

Guest Editor

Dr. Yuanxiang Chen

School of Electronic Engineering, Beijing University of Posts and Telecommunications, Beijing 100871, China

Deadline for manuscript submissions

15 December 2025

Electronics

an Open Access Journal by MDPI

Impact Factor 2.6
CiteScore 6.1

mdpi.com/si/235632

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).

MDPI