Special Issue

Application of Artificial Intelligence in Wireless Communications

Message from the Guest Editors

The rapid evolution of wireless communication technologies has significantly transformed how information is transmitted and processed. With the advent of 5G and the emergence of 6G, the demand for high-speed, low-latency, and ultra-reliable communication has intensified. Artificial Intelligence (AI) has emerged as a powerful tool to address these challenges, offering innovative solutions for network optimization, resource allocation, signal processing, and security enhancement. This Special Issue aims to explore AI's latest advancements and applications in wireless communications, highlighting cutting-edge research that integrates machine learning, deep learning, and reinforcement learning into wireless communication systems. Original research articles and reviews are welcome. Topics of interest include but are not limited to, AI-driven spectrum management, intelligent multiple access techniques, AI-enhanced massive MIMO, energy-efficient wireless networks, and AI-enabled security frameworks.

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Deadline for manuscript submissions

15 April 2026

Electronics

an Open Access Journal by MDPI

Impact Factor 2.6
CiteScore 6.1

mdpi.com/si/231058

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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

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