Special Issue

Application of Artificial Intelligence and Deep Learning in Wireless Communications Systems

Message from the Guest Editor

Recently, artificial intelligence (AI) and deep learning (DL) technology have gained a lot of popularity due to their remarkable performance compared to traditional schemes, and they have begun to be applied in wireless communications. Given that the AI- and DL-based schemes are more adaptable to the wireless environment, do not rely on the mathematically tractable system model, and show lower computational complexity during run-time, they are more appropriate for the recent wireless technologies, i.e., future wireless communication systems. This Special Issue encourages the submission covering contributions regarding future wireless communication systems, especially the application of AI and DL in wireless communication system. The list of possible topics includes, but is not limited to:

- Challenges and design requirement for future wireless communication systems;
- Application of DL and AI for wireless communication systems;
- Evaluating the limitations of AI and DL in wireless communications;
- Big data for future wireless communication systems;
- Security for future wireless communication systems;
- Implementation of DL and AI technology for wireless communication;

Guest Editor

Dr. Woongsup Lee

Department of Information and Communication Engineering, Institute of Marine Industry, Gyeongsang National University, Tongyeong 53064, Korea

Deadline for manuscript submissions

closed (20 March 2021)

Electronics

an Open Access Journal by MDPI

Impact Factor 2.6
CiteScore 6.1

mdpi.com/si/28497

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