Special Issue

Artificial Intelligence in Radio Channel Modelling: Progress and Challenges

Message from the Guest Editors

This Special Issue aims to provide a comprehensive view of how AI can significantly improve our ability to understand, predict, and optimize radio channels, addressing the challenges and taking advantage of the opportunities offered by this exciting technology. Key topics of interest for this Special Issue include, but are not limited to, the following:

Processing large channel measurement records; Identification of propagation patterns; Estimation of channel parameters; Interpretability of Al-based models; Channel estimation and prediction; Inherent challenges of Al in channel modelling; Channel modelling with application to advanced techniques based on extreme-MIMO and beamforming.

Guest Editors

Prof. Dr. Lorenzo Rubio

iTEAM Research Institute, Universitat Politècnica de València, 46022 Valencia, Spain

Prof. Dr. Vicent Miquel Rodrigo Peñarrocha

iTEAM Research Institute, Universitat Politècnica de València, 46022 Valencia, Spain

Deadline for manuscript submissions

31 December 2025



Electronics

an Open Access Journal by MDPI

Impact Factor 2.6 CiteScore 6.1



mdpi.com/si/230380

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



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).

