Special Issue

Channel Measurements, Modelling and Simulations for Future Wireless Communication Systems

Message from the Guest Editors

In recent years, there has been a growing demand for multimedia services, high transmission speeds, and global connectivity, which has led to the emergence of new radio technologies and wireless communications systems. In this context, knowledge of the propagation channel is essential for the flexible and practical design, optimization, and deployment of these systems. Currently, research into wireless channels is wide variety of challenges, such as channel modeling, parametrization, and simulation in different frequencies and communication scenarios. The topics of interest include, but are not limited to the following:

- Centimeter and millimeter wave propagation;
- 5G and beyond propagation channels;
- Vehicular (V2X) propagation channel;
- High-speed railway (HSR) channels;
- Tunnel and confined environments;
- Air-to-air propagation channels for unmanned aerial vehicles (UAVs);
- MIMO and massive MIMO channels;
- Channel parameters estimation methods;
- Channel sounders configuration and measurement techniques;
- Hardware and software channel simulators.

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

closed (30 November 2022)

Electronics

an Open Access Journal by MDPI

Impact Factor 2.6
CiteScore 6.1

mdpi.com/si/43655

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

MDPI

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 16.4 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the second half of 2025).