Special Issue

EMC Analysis in Wireless Communication

Message from the Guest Editors

The EMC problems of 5G systems are exacerbated by the presence of complex high-frequency, multifunctional, digital circuits and numerous wireless devices deployed throughout the propagation channel. Not only the EMC tests need to evaluate emission and immunity, but also identify the key sources of EMC failures. Due to the complexity of 5G systems, the analysis and identification of EMC failure sources are particularly intricate and challenging. Therefore, new test solutions and post-processing techniques are needed to address the challenges of 5G EMC tests, also assessing the coexistence constrains with existing fixed and mobile installations. This Special Issue will report on new advancements in EMC analysis in wireless communication that include, but are not limited to, the following topics:

- RC theory and characterization
- Emission
- Immunity
- Coexistence
- Channel modelling
- Field statistics
- Wave chaos
- Antennas
- MIMO/massive MIMO
- Reconfigurable intelligent surfaces
- Software defined radio

Guest Editors

Prof. Dr. Gabriele Gradoni

Prof. Dr. Valter Mariani Primiani

Prof. Dr. Xiaoming Chen

Deadline for manuscript submissions

closed (31 December 2022)

Electronics

an Open Access Journal by MDPI

Impact Factor 2.6
CiteScore 6.1

mdpi.com/si/74507

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