Special Issue

Computational Electromagnetics Applied to the Field of Antennas

Message from the Guest Editors

This Special Issue aims to bring together researchers and practitioners from academia and industry to discuss recent developments and advances in computational electromagnetic methods (CEMs) for antenna design, analysis and optimization. Topics of interest for this Special Issue include, but are not limited to, the following:

- Novel antenna modeling methods.
- Massive MIMO antenna simulation methods.
- Modeling and validation of CEMs for microwave and optical antennas.
- Fast simulation for array antennas or metasurface/metamaterial antennas.
- Efficient electromagnetic simulation for modern antenna systems.
- Wireless channel characterization CEMs.
- Integral equation methods or method of moments for antennas.
- Finite element methods (FEM).
- Finite difference time domain (FDTD) methods.
- Discontinuous Galerkin methods.
- Theoretical analysis of optical/THz antennas.
- Metallic nanostructures.
- Hybrids methods.
- Antenna measurement and validation.
- Computational methods for automatic antenna design and optimization.
- High-performance computing techniques for antenna simulations.
- AI- or machine learning-enhanced CEM for antenna simulation.

Guest Editors

Dr. MingLin Yang
Dr. Biyi Wu
Dr. Qianyun Zhang

Deadline for manuscript submissions

closed (15 March 2025)

Electronics

an Open Access Journal by MDPI

Impact Factor 2.6
CiteScore 6.1

mdpi.com/si/176511

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