

Special Issue

AI-Powered Antenna and Radio Frequency Technologies

Message from the Guest Editors

Research areas in communication, radar, and sensing applications may include (but are not limited to) the following:

- AI in antenna element/array optimization;
- AI techniques in adaptive beamforming (interference cancellation, direction of arrival estimation, etc.);
- AI in RF integrated circuit (IC) development;
- AI for design and simulation of microwave components and EM surfaces/lenses;
- AI in circuit routing and layout design;
- AI for modeling and predicting mutual coupling;
- AI for assessing antenna and beamforming robustness;
- AI for antenna diagnostics;
- AI for array calibration;
- AI for multiple beam generating networks;
- AI for modeling scattering;
- AI in object detection and classification;
- AI for body area networks.

We look forward to receiving your contributions.

Guest Editors

Dr. Yanki Aslan
Dr. Mobayode O. Akinsolu
Dr. Maria Kovaleva

Deadline for manuscript submissions

closed (15 March 2025)



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Electronics
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
electronics@mdpi.com

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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

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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).