Special Issue

Artificial Intelligence (AI) Based Radar Detection and Recognition in Complex Electromagnetic Environments

Message from the Guest Editors

With the rapid advancement of the information age, radar has emerged as an indispensable tool for information acquisition, playing a crucial role in various domains. However, increased electromagnetic technology use has led to a more complex electromagnetic environment, posing unprecedented challenges for radar systems. This Special Issue will compile the latest research related to radar detection and recognition in complex electromagnetic environments, with an emphasis on AI-based methods. We invite researchers to contribute original research articles and comprehensive review articles. Topics include but are not limited to the following: Radar array signal processing;
Radar interference and clutter suppression;
Radar waveform design and optimization;
AI-based radar signal processing;
Target detection in complex electromagnetic environments;
Radar target recognition and classification;
Radar image processing and analysis;
Radar system optimization and design;
Other innovative research related to this Special Issue's theme. We look forward to receiving your contributions.

Guest Editors

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Dr. Yu Zhang

Dr. Jian Gong

Deadline for manuscript submissions

closed (15 July 2025)

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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 guest-edited by leading experts in selected topics of interest.

Editor-in-Chief

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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).