Special Issue

Artificial Intelligence (AI) Based Radar Signal Processing and Radar Imaging

Message from the Guest Editors

In the last few decades, the theory and methodology of radar signal processing and radar imaging have made considerable progress. In particular, with the recent breakthrough of artificial intelligence (AI), especially deep learning, many innovative approaches have been proposed for radio-frequency interference recognition, ground/sea clutter suppression, moving target detection, direction-of-arrival (DOA) estimation, as well as high-resolution target imaging via synthetic aperture radar (SAR), inverse SAR (ISAR), and multiple-input-multiple-output (MIMO) radar, to name a few. This Special Issue aims to gather the latest research results in the area of radar signal processing and radar imaging, 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:

- Radar array signal processing;
- Radar target detection, estimation, and tracking;
- Radar jamming and clutter suppression;
- Radar waveform design and optimization;
- Rad, ISAR and MIMO radar imaging;
- AI-based radar signal processing and radar imaging techniques.

Guest Editors

Dr. Weike Feng

Dr. Xiaowei Hu

Dr. Xingyu He

Deadline for manuscript submissions

closed (15 July 2024)

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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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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

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 16.8 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).