Special Issue

Deep Learning Techniques and Applications of MIMO Radar Theory

Message from the Guest Editor

With the rapid development of deep learning technology, traditional MIMO (multiple input multiple output) radar systems are undergoing technological innovation. MIMO radar systems have been widely used in target detection, imaging and tracking due to their high resolution and high precision detection capability. Deep learning methods, particularly convolutional neural networks (CNNS), recurrent neural networks (RNNs), and generative adversarial networks (Gans), have been shown to have significant advantages in signal processing, target recognition, and parameter estimation. The purpose of this Special Issue is to explore how deep learning techniques can be effectively integrated into MIMO radar systems to improve their performance and expand their applications. We hope to compile a series of recent research results to demonstrate innovative applications of deep learning in MIMO radar, address the limitations of existing technologies, and suggest new research directions.

Guest Editor

Dr. Chen Zhao

School of Remote Sensing and Information Engineering, Wuhan University, Wuhan 430081, China

Deadline for manuscript submissions

31 July 2025

Remote Sensing

an Open Access Journal by MDPI

Impact Factor 4.1
CiteScore 8.6

mdpi.com/si/223021

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

mdpi.com/journal/remotesensing

MDPI

Remote Sensing

an Open Access Journal by MDPI

Impact Factor 4.1
CiteScore 8.6

mdpi.com/journal/remotesensing

About the Journal

Message from the Editor-in-Chief

Remote Sensing is now a prominent international journal of repute in the world of remote sensing and spatial sciences, as a pioneer and pathfinder in open access format. It has highly accomplished global remote sensing scientists on the editorial board and a dedicated team of associate editors. The journal emphasizes quality and novelty and has a rigorous peer-review process. It is now one of the top remote sensing journals with a significant Impact Factor, and a goal to become the best journal in remote sensing in the coming years. I strongly recommend *Remote Sensing* for your best research publications for a fast dissemination of your research.

Editor-in-Chief

Dr. Prasad S. Thenkabail
Senior Scientist (ST), U. S. Geological Survey (USGS), USGS Western Geographic Science Center (WGSC), 2255, N. Gemini Dr., Flagstaff, AZ 86001, USA

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), Ei Compendex, PubAg, GeoRef, Astrophysics Data System, Inspec, dblp, and other databases.

Journal Rank:

JCR - Q1 (Geosciences, Multidisciplinary) / CiteScore - Q1 (General Earth and Planetary Sciences)