

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

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Deadline for manuscript submissions

31 July 2026



Remote Sensing

an Open Access Journal
by MDPI

Impact Factor 4.1
CiteScore 8.6



mdpi.com/si/223021

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