Special Issue

Computer Vision, Neural Networks and Deep Learning for SAR Image Processing

Message from the Guest Editors

Synthetic Aperture Radar (SAR) is a widely used remote sensing technology capable of capturing high-resolution images under all weather conditions and during both day and night. However, SAR image processing presents unique challenges due to speckle noise, geometric distortions, and complex scattering mechanisms. Convolutional Neural Networks (CNNs), Transformers, Generative Adversarial Networks (GANs), and other DL architectures have shown remarkable success in tasks of SAR data processing. This Special Issue seeks high-quality research contributions that leverage computer vision, NN, and DL techniques to address SAR image processing challenges. Potential topics include (but are not limited to) the following: SAR image classification and segmentation, object detection, change detection, parameter inversion, multi-modal fusion with SAR/optical/LiDAR data, agricultural remote sensing, forest application, soil moisture inversion, geohazard monitoring, and disaster response. This Special Issue aims to compile state-of-the-art methodologies, providing a reference for future developments in AI-driven SAR image processing.

Guest Editors

Prof. Dr. Changcheng Wang

Dr. Peng Shen

Prof. Dr. Alin Achim

Deadline for manuscript submissions

31 October 2025

Remote Sensing

an Open Access Journal by MDPI

Impact Factor 4.1
CiteScore 8.6

mdpi.com/si/238447

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

mdpi.com/journal/remotesensing

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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

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