Special Issue

Advancements in Deep Learning for Remote Sensing: Exploring Planetary and Earth Observation Applications

Message from the Guest Editors

This Special Issue invites original research, review articles, and case studies on the application of deep learning techniques to remote sensing challenges across diverse domains. Recent advancements in sensor technologies and artificial intelligence have unlocked new opportunities for analyzing and interpreting remote sensing data. This issue aims to bridge planetary science and earth observation by showcasing state-of-the-art deep learning methodologies for complex remote sensing tasks. On the planetary side, we welcome studies focused on terrestrial planets (Mercury, Venus, Earth, and Mars), including terrain characterization, crater detection, volcano analysis, landslide mapping, cave identification, and other geological features. For earth observation, we seek innovative contributions in agricultural monitoring and precision farming, time series analysis, image classification and segmentation, integration of multi-source data, and novel methodologies that enhance information extraction from remote sensing datasets.

Guest Editors

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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

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