Special Issue

3D Scene Perception and Reconstruction of Remote Sensing Imagery

Message from the Guest Editors

hree-dimensional scene perception and reconstruction represent fundamental research challenges in modern remote sensing, with critical applications spanning geographical surveys, urban planning, infrastructure monitoring, and disaster management. These complex tasks typically require the integration and processing of multimodal data from diverse sources, including satellite imagery, aerial LiDAR, UAV photogrammetry, and multi-spectral sensors.

Constitute novel methodologies for cross-modal data fusion and alignment;

Outline robust algorithms for handling imperfect or incomplete remote sensing data;

Advance innovative learning paradigms that reduce annotation requirements;

Undertake semantic and structural reconstruction for large-scale outdoor scenes;

Present transformative applications in real-world scenarios.

This is not an exclusive list, and we encourage submissions addressing these challenges across all domains of remote sensing, and we have particular interest in solutions that bridge the gap between theoretical development and practical implementation.

Guest Editors

Prof. Dr. Jun Xiao

Dr. Haiyong Jiang

Dr. Lupeng Liu

Dr. Zhengda Lu

Deadline for manuscript submissions

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

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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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