



an Open Access Journal by MDPI

Photogrammetry Meets AI

Guest Editors:

Prof. Dr. Fabio Remondino

3D Optical Metrology (3DOM)
Unit, Bruno Kessler Foundation
(FBK), 38123 Trento, Italy

Dr. Rongjun Qin

1. Department of Civil,
Environmental and Geodetic
Engineering, The Ohio State
University, Columbus, OH 43210,
USA

2. Department of Electrical and
Computer Engineering, The Ohio
State University, Columbus, OH
43210, USA

Deadline for manuscript
submissions:

31 March 2025



mdpi.com/si/152580

Message from the Guest Editors

For many years, photogrammetry has been the leading methodology to derive 3D metric and accurate information from imagery, at different scales (from satellite to aerial, terrestrial and under water) and from different sensors (linear, frame, panoramic). This Special Issue wants to focus on this recent change for 3D geometric tasks, and is seeking high-quality papers that explore all the potentialities offered by AI in photogrammetric problems :

- Image matching and learning-based tie points extraction;
- Outlier removal;
- Structure from motion and bundle adjustment;
- Camera project loss and calibration;
- Simultaneous localization and mapping (SLAM) in the era of deep learning;
- Monocular depth estimation;
- Multi-view stereo (MVS) and dense point cloud generation with neural networks;
- 3D representation and reconstruction with neural radiance field (NeRF);
- Implicit methods for 3D representation from images and mesh reconstruction;
- 3D fusion of heterogenous datasets;
- Learning-based DSM inpainting;
- Point clouds editing, cleaning and filtering;
- Quantitative evaluations and analyses within applications.



an Open Access Journal by MDPI

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

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.

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)

Contact Us

Remote Sensing Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/remotesensing
remotesensing@mdpi.com
[X@RemoteSens_MDPI](https://twitter.com/RemoteSens_MDPI)