# Special Issue

# Photogrammetry Meets AI

### 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.

### Guest Editors


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### Deadline for manuscript submissions

closed (15 October 2025)


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*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.

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