# Special Issue

# Image Processing and Analysis: Trends in Registration, Data Fusion, 3D Reconstruction, and Change Detection (Third Edition)

#### Message from the Guest Editors

This Special Issue aims to present the latest advances in innovative image analysis and image processing techniques and their contribution in a wide range of application fields in an attempt to foresee where they will lead the discipline and practice in the next few years.

Scope includes, but is not limited to, the following:

- image registration and multi-source data integration or fusion methods;
- deep learning methods for data classification and pattern recognition;
- automation in thematic map production (e.g., spatial and temporal pattern analysis, change detection, and definition of specific change metrics);
- cross-calibration of sensors and cross-validation of data/models:
- orientation in a seamless way of images acquired with different platforms;
- object extraction and accuracy evaluation in 3D reconstruction, including volume rendering methods (e.g., NeRF and Gaussian Splatting);
- low-cost 360° and fisheye consumer-grade camera calibration, orientation, and 3D reconstruction;
- direct georeferencing of images acquired by different platforms.

#### **Guest Editors**

Prof. Dr. Riccardo Roncella

Dr. Mattia Previtali

Dr. Luca Perfetti

### **Deadline for manuscript submissions**

closed (31 July 2025)



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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 peerreview 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

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