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

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Deadline for manuscript submissions:

30 December 2024



mdpi.com/si/201705

Message from the Guest Editors

Dear Colleagues,

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.

Special Issue



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Message from the Editor-in-Chief

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