

## Special Issue

# Advances and Challenges on Multisource Remote Sensing Image Fusion: Datasets, New Technologies, and Applications

### Message from the Guest Editors

Today, various types of remote sensing images have been developed, including optical/near-infrared satellite images, SAR images, LiDAR intensity/depth images, thermal images, vector map images, etc. Each source of images encodes one aspect of information, and thus, the fusion of different sources of images is conducive to the comprehensive utilization of their advantages. Image fusion has been researched for decades, and a range of techniques related to photogrammetry, computer vision, and artificial intelligence have been developed. However, accurate multisource remote sensing image fusion is still challenging. The topics of this Special Issue include, but are not limited to:

- Large-scale, multisource remote sensing image datasets;
- Multisource remote sensing data fusion methods that are robust when it comes to scale, rotation, and nonlinear radiation- change;
- Machine learning (including deep learning, multitask learning, and transfer learning) for multisource remotely sensed images;
- Multisource image fusion for remote sensing applications, including, but not limited to, geometric orientation, 3D reconstruction, change detection, segmentation, etc.

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### Guest Editors

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Prof. Dr. Paul Rosin

Dr. Oktay Karakus

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### Deadline for manuscript submissions

closed (15 March 2024)



## Remote Sensing

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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.

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### Editor-in-Chief

Dr. Prasad S. Thenkabail

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