



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

Guest Editors:

**Dr. Yuxuan Liu**

**Prof. Dr. Li Zhang**

**Prof. Dr. Paul Rosin**

**Dr. Oktay Karakus**

**Dr. Zhihua Hu**

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### **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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Western Geographic Science  
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Dr., Flagstaff, AZ 86001, USA

## Message from the Editor-in-Chief

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## Contact Us

*Remote Sensing* Editorial Office  
MDPI, St. Alban-Anlage 66  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
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