



CALL FOR PAPERS

IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing Special Issue on “Recent Advances in Automatic Multimodal Remote Sensing Image Registration”

With the rapid advancement of space information technologies, massive volumes of multimodal remote sensing data, such as visible, infrared, hyperspectral, SAR, LiDAR, etc., can be acquired by satellites or aircrafts. These multimodal data reflect the various attributes of the land features and can provide complementary information for Earth observation and analysis. Image registration, as a prerequisite step, is crucial for leveraging the benefits of these multimodal data.

The special issue aims to bring together the latest advancements, innovative methodologies, and practical applications of advanced techniques in the context of multimodal remote sensing image registration. It seeks to explore the challenges and opportunities presented by the use of advanced models (such as deep learning or artificial intelligence) to improve the accuracy and efficiency of image registration algorithms.

The broad topics include (but are not limited to):

- Multimodal or multitemporal remote sensing image registration
- Multiview image matching
- Aerial and ground image matching
- Dataset and evaluation for image registration methods
- Cross-view image geolocation
- Multisource remote sensing image fusion

Schedule

March 1, 2026 Submission system opening

September 30, 2026 Submission system closing

Format

All submissions will be peer reviewed according to the IEEE Geoscience and Remote Sensing Society guidelines. Submitted articles should not have been published or be under review elsewhere. Submit your manuscript on <http://mc.manuscriptcentral.com/jstars>, using the Manuscript Central interface and select the “**Recent Advances in Automatic Multimodal Remote Sensing Image Registration**” special issue manuscript type. Prospective authors should consult the site <https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=9082768> for guidelines and information on paper submission. All submissions must be formatted using the IEEE standard format (double column, single spaced). Please visit http://www.ieee.org/publications_standards/publications/authors/author_templates.html to download a template for transactions. Please note that since Jan. 1, 2025, IEEE J-STARS, as a fully open-access journal, is charging a flat publication fee \$1,800 per paper.

Guest Editors

Yuanxin Ye	Southwest Jiaotong University, Chengdu, China (yeyuanxin@home.swjtu.edu.cn)
Xinhua Li	Wuhan university, Wuhan, China (lixinghua5540@whu.edu.cn)
Zhitao Fu	Kunming University of Science and Technology, Kunming, China (zhitaofu@kust.edu.cn)
Yuming Xiang	Tongji University, Shanghai, China (z199208081010@163.com)
Liaozhi Li	Chang'an University, Xian, China (liliangzhi@chd.edu.cn)