

Special Issue

Advances in Multispectral Image Processing for Land Use and Land Cover Mapping

Message from the Guest Editors

This Special Issue seeks to bring together cutting-edge research on multispectral image analysis and its application in land use and land cover mapping. It aligns with the scope of *Remote Sensing* by emphasizing innovations in data processing, AI-driven classification, and the fusion of optical and auxiliary datasets to enhance spatial understanding of Earth's surface. We welcome both methodological advancements and applied case studies that address pressing environmental and urban challenges by using multispectral and hyperspectral remote sensing. We invite original research articles, technical notes, and comprehensive reviews addressing, but not limited to, the following topics:

- Deep learning and foundation models for multispectral and hyperspectral image classification;
- Cross-sensor harmonization and large-scale LULC mapping pipelines;
- Data fusion between multispectral, LiDAR, and SAR for vegetation and urban studies;
- Change detection and temporal dynamics of land cover;
- Integration of multispectral data with ecology/climate data for long-term mapping of forests, urban areas, and croplands;
- Applications in urban expansion, deforestation monitoring, and climate resilience assessment;
- U

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About the Journal

Message from the Editorial Board

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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