



New Trends of GEOBIA in Remote Sensing

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Message from the Guest Editors

Dear Colleagues,

Geographic Object-Based Image Analysis (GEOBIA) has been widely used for accurate map generation from High Resolution (HR) and Very High Resolution (VHR) satellite images, aerial photographs and Unmanned Aerial Vehicle (UAV) images. One of the advantages of GEOBIA is the integration of multi-source, multi-temporal and multi-modal vector and raster geospatial data into the segmentation or classification steps and implementation of various image processing and topological features and functions. The topics of interest include, but are not limited to:

- Thematic mapping with GEOBIA (Mapping of LULC, Urban areas, Crop types, Forest stand types, Greenhouses, Archeological Sites, etc.),
- Ensemble Learning for GEOBIA,
- Geographic object detection (Buildings, Roads, Airplanes, Ships, etc.) using GEOBIA techniques,
- Big Geospatial Data, Geospatial Artificial Intelligence (GeoAI) and GEOBIA integration,
- GEOBIA for information extraction from Atmospheric Monitoring Satellites and Sensors (Sentinel-5P, Suomi-NPP VIIRS, TROPOMI, etc.),
- GEOBIA applications for historical LULC mapping,
- Integration of Crowd-source data into GEOBIA,
- Multi-disciplinary GEOBIA applications.





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Message from the Editor-in-Chief

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