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IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing

Special Issue on
"Advances in change detection and analysis using multi-source remote sensing data"

Various environments on the earth are constantly changing over time because of different factors, such as urban growth, climate change, and natural hazards. Some of these changes have negative impacts on our lives and/or the environment. Thus, it is important to know these changes and the reasons behind them and to see how we can make some policies to manage these changes. In this regard, remote sensing datasets are great resources, providing access to consistent archived data back to over 50 years ago. The revisit time of these images vary from a couple of minutes (e.g., several meteorological satellites) to near a month or more, enabling us to monitor very short term to long term changes. Moreover, there are currently many satellites which provide free data to users (e.g., Sentinel and Landsat). This particularly facilitates change analyses cost-effectively over a large area and within a long period of time. Along with the availability of various remote sensing datasets, numerous advanced change detection algorithms have also been developed. Nowadays, change analysis have become more accurate and reliable by the advent of advanced machine learning (e.g., deep learning) and big geo data processing platforms (e.g., Google Earth Engine). This special issue aims to collect the latest advances in the area of change analyses using multi-source remote sensing datasets.

The broad topics include (but are not limited to):
- LCLU change detection using various types of remote sensing datasets (e.g., multispectral, hyperspectral, SAR, LiDAR, and UAV imagery)
- Ocean and inland water monitoring using time-series of remote sensing data
- Long-term change analysis using multi-decade remote sensing data
- Change detection over multi-source heterogeneous data
- Advanced machine learning algorithms for change analysis
- Big geo data processing and analysis for change detection
- Land deformation analysis using InSAR methods
- 3D change analysis using LiDAR point cloud data
- Climate change analysis and its effects on the environment

Schedule
January 1, 2021   Submission system opening
September 30, 2021   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 "Advances in change detection and analysis using multi-source remote sensing data" 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 as of Jan. 1, 2020, IEEE J-STARS has become a fully open-access journal charging a flat publication fee $1,250 per paper.

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