Special Issue

Recent Progress of Change Detection Based on Remote Sensing

Message from the Guest Editors

Researchers have conducted extensive research on data sources, theoretical models, and applications related to change detection in remote sensing images, and have made great progress. In recent years, the hotspot of related research has shifted from classical methods such as pixel- and object-based methods to deep-learning-based, data-driven methods. The data source of change detection has expanded from single-sensor data to multi-source and multi-modal data.Nevertheless, the state-of-the-art change detection methods still face problems such as lack of large-scale, high-quality open datasets, detection accuracy still struggles to reach the human level, and the generalization ability of algorithm models is insufficient. The specific topics to be addressed include, but are not limited to:Change detection using bi-temporal remote sensing images;Continuous change detection using dense remote sensing time series;Pixel-level, object-based and scene-level change detection;Machine learning- and deep-learning-based change detection;Benchmark dataset for change detection;Semantic change detection;Unsupervised/self-supervised change detection;Change detection-based remote sensing.

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Message from the Editor-in-Chief

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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