# 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.

#### **Guest Editors**

Prof. Dr. Lizhe Wang

Prof. Dr. Xiaodong Zhang

Dr. Jining Yan

Dr. Guanzhou Chen

## Deadline for manuscript submissions

closed (31 July 2023)



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Remote Sensing
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
remotesensing@mdpi.com

mdpi.com/journal/ remotesensing





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#### Editor-in-Chief

#### Dr. Prasad S. Thenkabail

Senior Scientist (ST), U. S. Geological Survey (USGS), USGS Western Geographic Science Center (WGSC), 2255, N. Gemini Dr., Flagstaff, AZ 86001, USA

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