



Change Detection and Semantic Characterization of Urban and Rural Environments Based on Remote Sensing

Guest Editor:

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Deadline for manuscript
submissions:

closed (16 May 2023)

Message from the Guest Editor

Dear Colleagues,

Each year, Earth-observing satellites generate hundreds of terabytes of data; AI and machine learning are thus needed to accelerate the processing and analysis of these images. With automation, we can determine the speed and scale needed to make the data relevant. In particular, change detection and semantic characterization could enable better monitoring of urban and rural environments and largely impact our society and our planet.

A new wave of image processing, geospatial computer vision and machine learning techniques, can accelerate our understanding of changes occurring on the Earth's surface.

To this end, this Special Issue is seeking papers presenting novel ideas, techniques and tools to improve change detection and semantic characterization. Topics of interest include, but are not limited to: structure detection, semantic segmentation, object identification, 3D representation, land cover change detection, feature extraction and classification, large-scale model generalization and multi-environment adaptation.

Dr. Marc Bosch
Guest Editor





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