Advances in 3D Reconstruction with High-Resolution Satellite Data

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Message from the Guest Editors

Dear Colleagues,

Multi-view high-resolution satellite data is a promising remote sensing source in 3D reconstruction, due to its superiorities of easy, low-cost accessibility, world-scale measurement and multi-temporal repeated observations. The ground sampling distances (GSD) of several high-resolution satellite data has reached sub-meter level, which fueled several smart 3D applications, such as 3D scene understanding, 3D semantic segmentation, 3D change detection, 3D object recognition, building reconstruction, biomass estimates and modern network location. However, there are still several challenges limiting the further applications of high-resolution satellite data, e.g. the matching ambiguities in weak-texture/repeat-texture regions, inaccurate matching in depth-jump regions, unreliable 3D information prediction in occlusions and inaccurate reconstruction of high buildings. The aim of this Special Issue is to highlight the state-of-the-art research that addresses various issues of 3D reconstruction with high-resolution satellite data.

Special Issue

Editor-in-Chief

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Message from the Editor-in-Chief

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