Special Issue

Advances in 3D Reconstruction with High-Resolution Satellite Data

Message from the Guest Editors

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.

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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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