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Urban Environments Modeling using Very-High-Resolution Imagery and Crowdsourced Geospatial Data

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Message from the Guest Editors

Dear Colleagues,

Very high resolution (VHR) remote sensing imagery and crowdsourced geospatial data provide innovative means for monitoring and modeling urban environments. The launches of commercial satellites with very high spatial resolution (VHR) sensors (e.g. IKONOS, QuickBird, Worldview and Gaofen), as well as unmanned aerial vehicles (VAVs) with VHR aerial photos and LiDAR data, bring a nonparallel opportunity for analyzing physical elements in urban environments. Moreover, crowdsourced geospatial data (e.g., OpenStreetMap, Point of Interest, and social media) bring new approaches to observe human-related characteristics of urban environments. Contrary to the availability of VHR (e.g. spatial, spectral, temporal, angle) imagery and crowdsourced geospatial data, the developments of state-of-the-art analytical techniques and novel applications in urban environments are still limited. It is highly necessary to develop innovative technologies and applications for creating a sustainable urban environment.

This special issue calls for innovative techniques and novel applications for analyzing urban environments using VHR remote sensing imagery and crowdsourced geospatial data.

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Message from the Editor-in-Chief

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