

Photogrammetric Engineering & Remote Sensing (PE&RS)

August 2018 Special Issue Call for Papers

“Remote Sensing of Urban Environment”

Although only occupying a small proportion of Earth’s terrestrial surface, the cities hold more than 50% of the world population and produce more than 90% of the global economy. In the process of urbanization, some severe environmental problems arise, such as urban congestion, air pollution, vegetation loss, water contamination, and urban heat island, etc. In this context, monitoring and assessing of urban environment are essential for urban planners and policy makers to better manage and develop cities. Remote sensing techniques have been widely applied in investigation of urban environment since it can offer a huge amount of Earth Observation data at local, regional, and global scale. New and improved methods as well as practicable applications related to urban environment are urgently needed in order to facilitate the recognition of urban function.

This special issue will focus on the state-of-the-art and the newly developed methodologies and applications for urban environment monitoring from the remote sensing data. It is expected to bring together researchers from different fields to present their promising achievements and discuss the future directions. Submissions may address, but are not limited to the following topics:

- Urban heat island
- Urban air quality
- Urban information retrieval (e.g., buildings, roads, impervious layer, vegetation species)
- Urban land cover/use mapping and updating
- Urban climate change
- Urban landscape and development pattern
- Urbanization
- Multisource (e.g. multi-angular, multi-temporal, multi-sensor) remote sensing data fusion
- New data and sensors for urban remote sensing (e.g. volunteered geographic information)
- Algorithms and techniques for interpreting urban remote sensing data (e.g. machine learning)

- Urban scene understanding and monitoring

We seek original and novel contributions on such topics. All submissions will be peer reviewed in line with PE&RS policy. Because of page limits, not all submissions recommended for acceptance by the review panel may be included in the special issue. Under this circumstance, the guest editors will select the most relevant papers for inclusion in the special issue. Papers that are reviewed favorably, but will not fit within the Special Issue, can be revised for publication consideration in a future regular issue of PE&RS. Authors must prepare manuscripts according to the PE&RS Instructions to Authors, published in each issue of PE&RS and also available on the ASPRS website at www.asprs.org/pers/AuthorInstructions. Please submit your manuscript via the website <http://www.editorialmanager.com/asprs-pers/default.aspx>. When submitting, in the cover letter to the editor, please explicitly indicate that your manuscript is for the special issue of “Remote Sensing of Urban Environment”.

Important Dates

Manuscripts Due: September 31, 2017
 Notification to authors: December 31, 2017
 Final papers due: March 31, 2018
 Publication: August 1, 2018

Guest Editors

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