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IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing

Special Issue on

“Multisource remote sensing applications in sustainable urbanization: advances and challenges”

Urbanization is one of the major momentums that has shaped our planet with substantial impacts on both the society and environment, which urges for the sustainable city development. The United Nations Sustainable Development Goal 11 and the Smart Sustainable Cities initiatives call for better monitoring the urbanization process and its societal consequences, involving built environment, transportation systems, urban green spaces, hazards and disasters, etc. However, the accurate and timely monitoring of the patterns, changes, and impacts of the urbanization requires comprehensive information which is often not sufficient from a single remote sensing source. Fortunately, recent advances of multisource remote sensing (e.g., optical, SAR, hyperspectral, LiDAR, and nighttime light data), from spaceborne and airborne platforms and small Unmanned Aerial Systems (sUAS), provides great opportunities for these applications. Yet, there is a lack of comprehensive understanding of the theories, techniques and strategies of utilizing multisource remotely sensed data for urban monitoring. This special issue aims at providing a synthesized overview of the latest advances and challenges for multisource remote sensing applications in sustainable urbanization, which can serve as the directional support for sustainable smart cities construction.

The broad topics include (but are not limited to):

- Multisource/multi-model remote sensing fusion
- Urban land use/land cover change monitoring using multisource remote sensing
- Remote sensing of urban environment, built-ups, transportation networks, green spaces, etc.
- Assessing urban environmental problems: air quality, flood, heat island, etc.
- Data acquisition and analysis from other new sources: LiDAR, sUAS, videography, etc.
- Nonlinear remote sensing data analysis for structural deformation model enhancement
- Scalable multisource remote sensing for structural health monitoring and urban scenarios understanding

Schedule

January 1, 2021 Submission system opening

June 30, 2021 Submission system closing

Format

All submissions will be peer reviewed according to the IEEE Geoscience and Remote Sensing Society guidelines. Submitted articles should not have been published or be under review elsewhere. Submit your manuscript on <http://mc.manuscriptcentral.com/jstars>, using the Manuscript Central interface and select the “**Multisource remote sensing applications in sustainable urbanization: advances and challenges**” special issue manuscript type. Prospective authors should consult the site <https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=9082768> for guidelines and information on paper submission. All submissions must be formatted using the IEEE standard format (double column, single spaced). Please visit http://www.ieee.org/publications_standards/publications/authors/author_templates.html to download a template for transactions. Please note that as of Jan. 1, 2020, IEEE J-STARS has become a fully open-access journal charging a flat publication fee \$1,250 per paper.

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