

CALL FOR PAPERS

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

Special issue on “Urban remote sensing”

Cities are among the most dynamic and challenging systems on Earth. Their development drives important consequence on our planet, as the urban footprint reaches way beyond the limits of built environment. Observing the status and evolution of cities is therefore of the highest importance and remote sensing plays a central role in such questions. With this special issue of IEEE-JSTARS, we aim at gathering high-level contributions addressing timely questions and offering effective solutions in urban remote sensing but also unravelling new possibilities for the interpretation, processing, fusion, and application of remotely sensed data in urban investigations.

Papers for the special issue must address relevant topics in urban remote sensing and include sound implementation and validation procedures.

The technical topics of interest include (but are not limited to)

- New data & sensors for urban area remote sensing (VHR, hyperspectral, SAR, PoSAR, InSAR, LiDAR, UAV, ...)
- Structure detection and characterization in urban areas (classification, change detection, multitemporal analysis, feature extraction, ...)
- Algorithms and techniques for remotely sensed data interpretation (buildings/roads extraction, vehicle detection, land use/cover mapping, urban area extraction, ...)

We warmly welcome application papers, including

- Urban climatology, geology, and geohazards (heat islands, air quality, subsidence, coastal, ...)
- Social science (health, vital statistics, security, archaeology)
- Urban planning and conservation
- Urban development and growth pattern
- Urban and peri-urban ecology

The special issue follows the JURSE 2015 conference (Joint Urban Remote Sensing, <http://jurse2015.org>) but submission is **not** restricted to JURSE contributors and attendees. The papers will be judged only by their quality.

Format and preliminary schedule

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 “Urban remote sensing” special issue manuscript type. Prospective authors should consult the site <http://ieeexplore.ieee.org/xpl/RecentIssue.jsp?punumber=4609443> for guidelines and information on paper submission. Please note that IEEE JSTARS applies a mandatory page over length charge of \$200 per page (beginning with page 7 and beyond).

Schedule

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|---------------------|--------------------------------|
| July 1, 2015 | Full paper submission deadline |
| August 1, 2016 | Publication date |

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