

Call for Papers

WSEAS TRANSACTIONS on ENVIRONMENT AND DEVELOPMENT

Special Issue on Urban Remote Sensing

Editor:

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Aim:

The world is experiencing a rapid rate of urban expansion mainly caused by the rapid population growth. The problems created by urban sprawl include: climate change, loss of agricultural land, pollution, traffic and urban heat island effects. Information acquired from aerial photogrammetry is normally used for analyzing, planning, and minimizing urban sprawl problems. However, with the advances in space technology, satellite remote sensing has increasingly found more applications in the analysis and planning of urban environment. The current generation of earth observation sensors are producing data with high potential for use in scientific and technological investigations. Urban remote sensing can provide urban planners with crucial data necessary for urban analysis such as: 1) spatial extent and location of urban areas; 2) spatial distribution of the different land use and land cover types; 3) transportation networks and related infrastructure; 4) census related statistics; and the 5) ability to monitor the changes in land cover and use over time. In response to these needs, this Special Issue seeks to highlight leading edge Urban Remote Sensing research that represents critical advances in the algorithms, methodologies and applications related to the analysis and visualization of urban landscapes with geospatial technologies.

Topics:

Submissions in a broad range of Urban Remote Sensing related research and applications are encouraged. Topics may include, but are not limited to:

- Automatic urban feature extraction and mapping
- 3D urban modeling from satellite, airborne and terrestrial sensors
- Data processing methods and algorithms
- Classification Approaches (pixel based-subpixel based-object based)
- Land Use and Land Cover Change
- Disasters, change monitoring and change analysis and modelling
- Climate and Climate Change
- Multiscale sensors and systems.
- Multispectral/SAR sensor data fusion
- Radar and LiDAR applications
- The Urban Heat Island Effect and thermal sensing
- Multispectral, Hyperspectral, SAR and LiDAR remote sensing
- Urban applications of high-resolution optical sensors
- Integration of Remote sensing and Geographic Information Science
- Visualization issues and Virtual Reality applications
- Pollution and Contamination
- Urbanization metrics
- Terrestrial LIDAR

Submitted manuscripts must be original contributions, not previously published or submitted to other journals nor be under consideration for publication elsewhere. Papers published or submitted for publication in conference proceedings may be considered provided that they are extended and improved. Submission Perspective authors can submit their manuscripts online by clicking [here](#).

Submission Deadline: December 31, 2016

Submission Rules: Manuscripts should be prepared according to the formatting instructions. Manuscripts submitted to the Special Issue on Urban Remote Sensing are to be submitted following the standard submission process. All submitted manuscripts will be reviewed using the standard procedure that is followed for regular submissions.