



# Call for Papers

## *International Journal of Remote Sensing*

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### Special Issue on

## **“Terrestrial Laser Scanning: From Static to Mobile”**

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Terrestrial laser scanning in both static and mobile modes is a relative young 3D remote sensing technique offering much potential to a diverse set of applications ranging from deformation monitoring, cultural heritage documentation, vegetation analysis, to disaster-induced damage assessment. This special issue will provide an overview of the latest developments in terrestrial laser scanning with a focus on the acquisition, processing and application of 3D point clouds from terrestrial laser scanners in static and mobile modes. Papers covering topics including, but not limited to, the following are now invited for submission:

- State-of-the-art terrestrial laser scanners and mobile laser scanning systems;
- Terrestrial laser scanning products: point clouds, laser intensity images and point density images.
- Errors and models for terrestrial laser scanning and mobile laser scanning systems;
- Scanner modelling, calibration and validation
- Registration of laser point clouds;
- Segmentation and classification of point clouds;
- Fusion of point clouds with images and vector data;
- Point cloud data compressing, cleaning, hole-filing, and filtering;
- Geometric feature extraction and 3D object reconstruction from point cloud data;
- Point cloud applications in industrial metrology, engineering surveying, 3D mapping, forestry, structural deformation monitoring, and cultural heritage recording.

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### Submission guidelines

**Manuscripts due: October 1, 2011**  
**Final papers due: May 1, 2012**

**Decision to authors: February 1, 2012**  
**Publication: January - March 2013**