



ISPRS Workshop ‘Laser Scanning 2017’

<http://www2.ipf.kit.edu/laserscanning2017/>

Call for Papers

Part of: **The ISPRS Geospatial Week 2017**

September 18-22, 2017

Liesmars, Wuhan University, Wuhan, China

<http://gsw2017.3snews.net>

Laser scanning 2017 is the latest of a series of ten ISPRS workshops covering various aspects of space-borne, airborne, mobile and terrestrial laser scanning in both indoor and outdoor environments. The workshop aims at bringing together experts who focus on processing and using point cloud data acquired from laser scanners and other active 3D imaging systems, such as range cameras and gaming sensors. Topics include all aspects related to sensor calibration, data acquisition and data processing including notably registration, feature extraction, object detection, 3D modeling and change analysis.

The workshop will be part of the ISPRS Geospatial Week 2017 and is hosted by the State Key Laboratory of Information Engineering in Surveying, Mapping and Remote Sensing (LIESMARS) at Wuhan University in parallel with a number of related geospatial workshops. The event will consist of 2 days of plenary sessions, combining keynotes, technical sessions and a poster session.

Themes of Event

Acquisition

- Laser scanners and laser scanning systems
- Range imaging and gaming sensors
- Multi-spectral LIDAR
- Single-photon LIDAR

Signal Analysis and Processing

- Full waveform data analysis
- LIDAR intensity data
- Point cloud registration
- Segmentation
- Classification
- Feature extraction and object recognition
- Change detection

System analysis

- Sensor and system calibration and validation
- Error modelling
- Data fusion (LiDAR, RADAR, imagery)

Applications

- Modeling anthropogenic and natural areas
- Natural resource mapping
- Biodiversity assessment
- Precision farming
- Geohazards
- Mapping and monitoring infrastructure
- Thematic mapping and monitoring



Submission of papers:

High-quality papers covering one or more of the above topics should be submitted electronically via <https://easychair.org/conferences/?conf=isprsls2017>.

Authors can only submit full papers for a double-blind peer review process. The papers should be prepared according to the ISPRS guidelines for preparing manuscripts and should not exceed 8 pages. Guidelines and templates can be found at <http://www.isprs.org/documents/orangebook/app5.aspx>. Accepted papers will appear in a designated volume of the Annals of Photogrammetry, Remote Sensing and the Spatial Information Science.

Important dates (updated):

April 7, 2017	Updated deadline for the submission of full papers
May 15, 2017	Notification of acceptance
June 15, 2017	Camera ready
May 31, 2017:	Early bird registration deadline
September 16, 2017	Normal registration deadline
September 18-22, 2017:	Conference
Until December 20, 2017:	Publication of accepted contributions in ISPRS Annals

Registration:

Registration for "ISPRS Laser Scanning 2017" is handled through the website of the ISPRS Geospatial Week 2017 at <http://gsw2017.3snews.net/>. Please visit the website of the ISPRS Geospatial Week for any additional information, such as related workshops, venue and travel information, accommodation, and the full conference and exhibition program.

LIESMARS is a leading institution for the development of geospatial information science and technology in China. The State Key Laboratory of Information Engineering in Surveying, Mapping and Remote Sensing (LIESMARS) is the only state laboratory in the field of surveying and mapping in China. Since its foundation in 1989, LIESMARS has been at the international academic forefront, focusing on basic theoretical research and national strategic goals concerning rapid acquisition and processing of geospatial information and provision of geospatial services. LIESMARS is dedicated to research on aerial and spaceborne Photogrammetry, Remote Sensing image processing and applications, Geospatial Information Systems, spatial positioning theory and technology, and 3S (RS/GIS/GNSS) integration.





Organizing ISPRS Working Groups:

- ISPRS WG II/10, 3D Mapping for Environmental and Infrastructure Monitoring
- ISPRS WG II/3, Point Cloud Processing
- ISPRS WG II/4, 3D Scene Reconstruction and Analysis
- ISPRS WG III/6, Remote Sensing Data Fusion

Sponsoring ISPRS Working Groups:

- ISPRS WG III/1, Thematic Information Extraction
- ISPRS WG III/5, Information Extraction from LiDAR Intensity Data
- ISPRS WG III/10, Agriculture and Natural Ecosystems Modelling and Monitoring

Organizing Committee:

Chair: Dr. Roderik Lindenbergh, ISPRS WG II/10

Dept. of Geoscience and Remote Sensing,
Delft University of Technology, The Netherlands

Co-chair: Prof. Dr. Bisheng Yang, ISPRS WG II/3

LIESMARS, State Key Laboratory of Information Engineering in Surveying, Mapping and Remote Sensing,
Wuhan University,
Wuhan, Hubei, China

Co-chair: Dr. Jan Böhm, ISPRS WG II/3

Dept. of Civil, Environmental and Geomatics Engineering,
University College London,
London, United Kingdom

Co-chair: Dr. Martin Rutzinger, ISPRS WG II/10

Institute of Interdisciplinary Mountain Research,
Austrian Academy of Sciences, Innsbruck, Austria

Co-chair: Dr. Wei Yao, ISPRS WG III/6

Munich University of Applied Sciences, Dept. of Geoinformatics, TU Muenchen,
Muenchen, Germany

Secretary: Dr. Martin Weinmann, ISPRS WG II/4

Institute of Photogrammetry and Remote Sensing,
Karlsruhe Institute of Technology, Germany



Previous Laser Scanning workshops:

- ISPRS Workshop *Laser Scanning 2015*, ISPRS Geospatial Week 2015, La Grande Motte, France
- ISPRS Workshop *Laser Scanning 2013*, Antalya, Turkey
- ISPRS Workshop *Laser Scanning 2011*, Calgary, Canada
- ISPRS Workshop *Laser Scanning 2009*, Paris, France
- ISPRS Workshop *Laser Scanning 2007*, Espoo, Finland
- ISPRS Workshop *Laser Scanning 2005*, Enschede, Netherlands
- ISPRS Workshop *3D Reconstruction from Airborne Laser Scanning and InSAR Data*, 2003, Dresden, Germany
- ISPRS Workshop *Land Surface Mapping and Characterization using Laser Altimetry*, 2001, Annapolis, United States
- ISPRS Workshop *Mapping Surface structure and topography by airborne and spaceborne lasers*, 1999, La Jolla, United States