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- Tatsuo Sweda, Ehime Uni., Japan
- Ulf Söderman, FOI, Sweden
- Wolfgang Wagner, TU Vienna, Austria
- George Vosselman, ITC, the Netherlands
- Randy Wynne, Virginia Tech, USA

Venue and Accommodation

The conference venue is the Lifelong Learning Institute Dipoli operating as part of Helsinki University of Technology, Espoo. <http://www.dipoli.tkk.fi/english/index.html>

Booking information for accommodation will be entered on the conference website when available. Pre-booking has been made to a near-by hotel (200 m away from the conference venue).

Important dates

15 May 2007

Full paper deadline for all papers

15 June 2007

Comments of double blind reviews sent to authors and provisional acceptance of papers

30 June 2007

Early registration

31 July 2007

Final papers

12-14 September 2007

Workshop

15 September 2007

Post-Workshop Tour

First Announcement and Call for Papers

ISPRS Workshop on Laser Scanning 2007

AND

SilviLaser 2007

September 12–14, 2007

Helsinki University of Technology, Espoo,
Finland



<http://www.foto.hut.fi/las2007.html>
email: ls2007info@foto.hut.fi

Organized by

ISPRS WG III/3, III/4, V/3, VIII /11
Finnish Geodetic Institute
Helsinki University of Technology



Background and Invitation

The output of a laser scanner is a georeferenced point cloud, i.e. 3D coordinates of each observed hit and the intensity information - and even the full waveform - corresponding to the hit. Airborne laser scanning is feasible for DTM generation, 3D city modeling, powerline monitoring, change detection of the coastal zone, forest inventory, to name but a few examples. Terrestrial laser scanning is feasible for digital factory, virtual reality, architecture, civil engineering, archaeology and cultural heritage, plant design and automation systems (robotics).

The workshop is intended to bring together an interdisciplinary group of researchers, system developers, data providers, application developers, and end-users of airborne and terrestrial laser scanning, amongst others the forest management community. Despite large differences in resolution and accuracy between airborne and terrestrial laser scanner data, the technical research problems, such as automatic registration, feature extraction, and 3D modelling are similar.

The workshop is a continuation of ISPRS Workshops on Laser Scanning, held in Dresden 2003 and in Enschede 2005, and laser scanning workshops of forestry, held e.g. in Canada and Australia 2002, Umeå 2003, Freiburg 2004, Blacksburg 2005, Vienna 2006 and Matsuyama 2006.

There will be both joint and parallel sessions organized for the LS 2007 and Silvilaser 2007 components. Data analysis techniques will be presented in joint sessions to increase the synergy between the disciplines.

Topics for Presentation

The main topics covered by the Workshop are:

- New sensor systems and quality of systems
- Registration and geometrical aspects of laser scanning
- Feature extraction and data analysis methods (segmentation, change detection, waveform analysis)
- Forest applications and vegetation analysis
- Building and object reconstruction
- Integration of photogrammetry and laser scanning
- National Laser Scanning
- Novel applications of laser scanning
- Use of intensity information

Language

- The workshop will be held in English.

Key Note Speakers

Arttu Soinen: Software for laser scanning

Wolfgang Wagner: Waveform and Data Analysis Techniques

Norbert Pfeifer: Geometrical Aspects of ALS and TLS

Matti Maltamo: Use of ALS for Forest Inventory

Petri Rönholm: Integration of LS and Photogrammetry, Applications

Submission

The workshop presentations will be based on full-paper refereed submissions.

The instructions for the paper submission can be found in
<http://www.foto.hut.fi/ls2007/ls2007.html>.

The submission of papers (for LS 2007 and Silvilaser 2007) is by 15 May. Final papers for both components to be submitted by 31 July. Submissions are requested to be sent to laserscanning2007@foto.hut.fi.

Registration

Registration fee: 290 €, late registration 340 €
Accompany persons: 100€
Payment for students: 190€, late registration 240€
Company: 500€ + personal registration fee (+ additional costs other than the premises) please contact eero.ahokas@fgi.fi for details).

The fee includes oral and poster presentations, abstract band, workshop CD, refreshments, reception, workshop dinner.

The fee of the accompanying person includes the same without the abstract band and CD.

Registration fee needs to be paid according to the instructions given in the web site:
<http://www.foto.hut.fi/ls2007/ls2007.html>.