Excellence in Photogrammetry, Computer Science and Geoinformatics

The Institute for Photogrammetry of the University of Stuttgart and the OpenPhoWo Partners would like to give notice of the

55th Photogrammetric Week in Stuttgart from Monday, September 7 to Friday, September 11, 2015.

This regular event was initiated by Carl Pulfrich as a "vacation course in photogrammetry" in 1909; since 1973 it has been held at the University of Stuttgart. Today, the Photogrammetric Week enjoys international recognition as an upgrading seminar and a platform for the exchange of knowledge and experience.

Since 1992 this event has continuously been further developed and driven to excellence under the auspices of Professor Dieter Fritsch. As he will retire by the end of September 2015 this will be his "Farewell PhoWo".

The lectures by experts from Germany and abroad will be focused on the following topics:

- Remotely Sensed Data Acquisition – An Update
- Advanced Modelling in Photogrammetry, Computer Vision and Computer Graphics
- Excellence in Geoinformatics

The presentations will be in English. Sufficient time will be allocated for discussions.

The program will be supplemented with demonstrations and comments on practical examples in the afternoons. The fringe events will offer sufficient opportunity for personal contacts.

In addition, a tutorial on "Excellence in Photogrammetry – From UAV Data Collection and Data Processing to Advanced 3D Modelling" will be held by the Institute for Photogrammetry (ifp) on Sunday, September 6, 2015.

We look forward to meeting you in Stuttgart.

Invitation

Prof. Dr.-Ing. Dieter Fritsch
Institute for Photogrammetry
University of Stuttgart

Programme

Monday, September 7, 2015

from 7:30 Registration of participants

9:00 Opening of the 55th Photogrammetric Week
Music, Welcome Addresses

9:30 Dieter Fritsch, ifp Univ. Stuttgart, Stuttgart, Germany
Some Stuttgart Highlights of Photogrammetry and Remote Sensing

10:15 Break, Conference Photo

11:00 Brief Lectures by the OpenPhowo Partners

11:15 Tobias Heuchel, Trimble, Stuttgart, Germany
Expanding Solutions for Photogrammetric and Remote Sensing Professionals

11:25 Phillip Grimm, IGI, Kreuztal, Germany
IGI – Integrated Geospatial Innovations

11:35 Alexander Wiechert, Microsoft Vexcel, Graz, Austria
UltraCam and UltraMap – An Update

11:45 Werner Mayr, GerMAP, Welzheim, Germany
UAVs for Production

11:55 Yuri Reizman, VisionMap, Tel Aviv, Israel
VisionMap A3 Edge – A Single Camera for Multiple Solutions

12:05 Chance Coughenour, ifp Univ. Stuttgart, Stuttgart, Germany
The Marie Sklodowska-Curie ITN-DCH Project – Overview and Scientific Work

12:30 Announcements
Lunch Break

13:30 Demonstrations
in groups according to separate schedule (in D & E)

17:00 Ice Breaker Party
in the Conference Building K2 (Foyer Lecture Hall)
<table>
<thead>
<tr>
<th>Time</th>
<th>Tuesday, September 8, 2015</th>
<th>Wednesday, September 9, 2015</th>
<th>Thursday, September 10, 2015</th>
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<tbody>
<tr>
<td>8:30</td>
<td>Fabio Remondino, Fondazione Bruno Kessler, Trento, Italy Oblique Aerial Imagery – A Review</td>
<td>Christian Heipke, Univ. Hannover, Germany Image Analysis Based on Probabilistic Models</td>
<td>Photogrammetric Techniques for Spatio-temporal Analyses of Glacier Motion Patterns</td>
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<td>9:00</td>
<td>Georg Bareth, Univ. Cologne, Germany 3D Data Acquisition to Monitor Cropping Systems: Sensors and Methods</td>
<td>Helmut Mayer, UniBw Neubiberg, Munich, Germany From Orientation to Functional Modeling for Terrestrial and UAV Images</td>
<td>9:00 Manfred Buchroithner, TU Dresden, Germany High up and Deep below – Dynamic 3D Cartography at the Roof of the World and in Sea-Level Caves</td>
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<td>9:30</td>
<td>Wolfgang Wagner, TU Vienna, Austria Big Data Infrastructures for Processing Sentinel Data</td>
<td>Konrad Schindler, ETH Zurich, Switzerland Recent Developments in Large-scale Tie-point Search</td>
<td>9:30 George Vosselman, Univ. Twente, The Netherlands From Nationwide Point Clouds to Nationwide 3D Landscape Models</td>
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<td>10:00</td>
<td>Coffee Break</td>
<td>Coffee Break</td>
<td>10:00 Break</td>
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<td>10:30</td>
<td>Norbert Pfeifer, TU Vienna, Austria Lidar: Exploiting the Versatility of a Measurement Principle in Photogrammetry</td>
<td>Luc van Gool, Univ. Leuven, Belgium Real-time Photometric Stereo</td>
<td>10:30 Clive Fraser, Univ. Melbourne, Australia Advances in Close-Range Photogrammetry</td>
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<td>11:00</td>
<td>Norbert Haala, ifp, Univ. Stuttgart, Germany Image-based 3D Data Capture in Urban Scenarios</td>
<td>Michael Klein, 7reasons, Vienna, Austria The 4D-CH Calw Project - Spatio-temporal Modelling of Photogrammetry and Computer Graphics</td>
<td>11:00 Nadia Magnenat-Thalmann, MiraLab, Univ. Geneva, Switzerland Image-based 3D Avatar for Virtual Try-on Applications</td>
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<td>12:30</td>
<td>Lunch Break</td>
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<td>12:30 Lunch Break</td>
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<td>14:30</td>
<td>Demonstrations in groups according to separate schedule (in D &amp; E)</td>
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<td>14:30 Demonstrations in groups according to separate schedule (in D &amp; E)</td>
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<td>17:00</td>
<td>Reception (Formal Dress Code desired)</td>
<td>Coffee Break</td>
<td>17:00 Coffee Break</td>
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<td>18:00</td>
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<td>Evening: Get-Together Night at Alte Kelter in Fellbach</td>
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<td>18:00 Busses will leave for Get-Together and PhoWo Dinner Party</td>
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<td>19:00 Get-Together Night and PhoWo Dinner Party, Alte Kelter, Fellbach</td>
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<td>Return at about 22:30</td>
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Site of the seminar
Lectures and discussions will be held in the basement auditorium of building K2 of the University of Stuttgart, Keplerstrasse 17. Rooms for demonstrations are available in buildings K1 and K2.

Duration of the seminar
Beginning: Monday, September 7, 2015
End: Friday, September 11, 2015

Lectures and discussions
As in the past, the lectures and discussions will be held in the morning. The conference language will be English.

Demonstrations of instruments and systems
Demonstrations are scheduled for the afternoons. Working groups will be formed in accordance with the particular interests of each participant and the language spoken.

Fringe programme
A fringe programme will give all participants the opportunity for personal contacts and individual discussions.

Accommodation
Accommodation can directly be booked at Stuttgart Marketing GmbH by either
Fax: +49 711 22 28 251
email: hotels@stuttgart-tourist.de
www: http://www.stuttgart-tourist.de

Registration and fees
Registration for the 55th Photogrammetric Week should be addressed to:
Institute for Photogrammetry (ifp)
University of Stuttgart
Geschwister-Scholl-Str. 24(D)
D-70174 Stuttgart
Phone: +49 711 685 83201, Fax: +49 711 685 83297
email: martina.kroma@ifp.uni-stuttgart.de
www: http://www.ifp.uni-stuttgart.de

The participation fee is 500,00 Euro for registration and payment by June 30, 2015 and 550,00 Euro after that date. For daily admission it is 250,00 Euro.

For participation in the tutorial there is a charge of 250,00 Euro.

The City of Stuttgart
Stuttgart is the state capital of Baden-Württemberg. It has a population of about 590,000. Situated in the valley of Neckar river, between the hills of the Swabian Alb and the Black Forest, it is often called “the city between forests and vineyards”. A large number of cultural highlights are to be found in the city including opera, ballet, theatres, concert and music halls, art galleries, and various famous museums. There is also a rich variety of sports events as well as many possibilities for individual activities such as mountain biking and hiking. Due to Stuttgart’s central location, it is easy to visit neighboring countries like France, Switzerland, Italy, Austria, Czech Republic, Belgium and the Netherlands.

The Stuttgart region is one of the most attractive regions in Germany. It is well known for its high-tech industries such as car manufacturing, environmental technologies, machining tools, electronics and information and communication technology. Many internationally renowned companies such as Daimler, Porsche, Bosch, HP and IBM Germany have their headquarters and factories in the Stuttgart region. In addition, numerous smaller and medium sized technology-oriented companies are making their mark on the industrial and business environment.

Demonstrations of the OpenPhoWo Partners
(in groups according to separate schedule)

A Airborne Imaging and Automated 3D Modelling (Hexagon)
B Laser Scanning News: Bathymetry and Mobile Mapping (Hexagon)
C Trimble Photogrammetric Solutions (Trimble)
D IGI – Integrated Geospatial Innovations (IGI)
E UltraCam and UltraMap (Vexcel Imaging/Microsoft)
F Different Tasks – Different UAV Tools (GerMAP)
G A3 Edge and LightSpeed (VisonMap)