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GEOMETRAL
ISPRS Sustaining Members

PhotoGA 17

ISPRS Geospatial Week Workshop
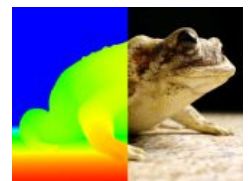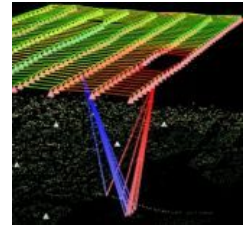## Photogrammetric 3D Reconstruction for Geo-Applications 2017 (PhotoGA 2017)

Sept 21-22, 2017
Wuhan University, Wuhan, Hubei, China

In conjunction with the ISPRS Geospatial Week 2017
Website: http://gsw2017.3snews.net/

PhotoGA 2017 provides an opportunity and platform for all professionals involved in photogrammetric 3D reconstruction to share research ideas and results, foster and enhance cooperation, draw inspirations and maximize potentials. It addresses experts from photogrammetry, remote sensing, and computer vision from both academia and industry. Contributions are invited from all researchers and practitioners in the fields of image-based 3D reconstruction in the context of geo-applications to cover a variety of topics on aerial and/or space sensor calibration and orientation, multi-source data fusion, 3D data acquisition and surface reconstruction, UAVs for 3D mapping, multi-view geometry and image sequence analysis for platforms ranging from low-cost UAVs to professional airborne and spaceborne sensors.

The PhotoGA17 workshop will have two days of technical programs including a plenary session with keynote talks and invited papers, as well as oral and poster presentations. The workshop is organized by ISPRS WG II/1 and WG II/2 in conjunction with 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.

Image orientation and photogrammetric 3D reconstruction in the context of geo-applications include the following core topics: mathematical models and methods for automatic calibration, orientation and processing of low altitude, aerial, and space images; surface reconstruction; fusion of multi-source datasets; image sequence analysis with the emphasis on multi-view geometry; and various geo-product applications with focus on photogrammetric aspects, such as global mapping and monitoring and 3D model generation.

Professionals from related disciplines like photogrammetry, remote sensing, computer vision, geo-data processing and applications are welcome to join the PhotoGA17 workshop to pose their research questions and search solutions.

Workshop topics:

Workshop topics include but are not limited to

Non-conventional image sources, i.e. oblique images

Feature extraction, stereo/multi-view sparse matching, dense image matching

Aerial/Space sensor calibration and orientation

Image alignment and applications

Multi-source data fusion

Multi-view geometry and image sequence analysis

3D Data acquisition and surface reconstruction

Small unmanned aerial systems for 3D mapping

Evaluation of performance, reliability, robustness, and generality of methods

Submission of papers:

High-quality papers covering one or more of the above topics should be submitted electronically using the conference tool at the conference website. 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. Accepted papers will appear as a Volume of the Annals of Photogrammetry, Remote Sensing and the Spatial Information Science.

To submit a full paper, please go to the PhotoGA 2017 EasyChair page. You need to use or create an EasyChair account to manage your submissions.

Workshop Organization:

Chairs:

Yongjun Zhang, Wuhan University, China

Ronny Hänsch, Technische Universität Berlin, Germany

Mozhdeh Shahbazi, University of Calgary, Canada

Norbert Haala, University of Stuttgart, Germany

Mathias Rothermel, University of Stuttgart, Germany

Advisory Scientific Committee:

Cyrill Stachniss, University of Bonn, Germany

Andrea Fusiello, Università degli Studi di Udine, Italy

Michael Gruber, Vexcel Imaging GmbH, Austria

Pablo Angelo, German Aerospace Center, Germany

Zhenzhong Chen, Wuhan University, China

Zhichao Zhang, Wuhan University, China

Scientific Committee:

Olaf Hellwich, Technische Universität Berlin, Germany

Olivier D' Hondt, Technische Universität Berlin, Germany

Ayman Habib, Purdue University, USA

Gunho Sohn, York University, Canada

Farhad Samadzadegan, University of Tehran, Iran

Helmut Mayer, Universität der Bundeswehr, Germany

Andreas Kuhn, Universität der Bundeswehr, Germany

Saeid Homayouni, University of Ottawa, Canada

Costas Armenakis, York University, Canada

Keynote speakers:

Clive Fraser, University of Melbourne, Australia

Topic: Camera Calibration and UAS Photogrammetry: Important Considerations

Qing Zhu, Southwest Jiaotong University, China

Topic: LOD Generation of Building Models from Oblique Photogrammetry

Key Dates:

April 15th, 2017:   Full paper due (extended)

May 1st, 2017:   Notification of paper acceptance

May 31st, 2017:   Camera-ready version due

May 31st, 2017:   Early bird registration

September 16th, 2017:   Standard registration

September 18-22, 2017: ISPRS Geospatial Week

September 21-22, 2017:   Workshop PhotoGA 2017

Registration:

Registration for PhotoGA 2017 is handled through the local conference website. Please visit the conference site also for any additional information, such as venue and travel information, nearby accommodation, and the full Locate conference and exhibition program.

Venue:

East Lake International Conference Center (EL-ICC)

The East Lake International Conference Center (EL-ICC) is a large building with an area of 31,000m2 inside the beautiful East Lake Park, 5km from WHU campus. There are 32 conference rooms of various sizes; the largest one can hold 1350 people. The EL-ICC has 210 hotel rooms (five star) with matching food services. Within 1km of EL-ICC, there are Chutian Yuehai Hotel (five star), Guochuang Chuyuan Hotel (four star), Binghu Hotel (four Star), Yester Hotel (four star), business hotels and even guest houses (as low as $10 per night for a bed) etc. There are more than 1500 hotel rooms within 5km of the EL-ICC. Attractions such as the Hubei Province Museum are within walking distance of the EL-ICC.

Final program:

Please see the final program of PhotoGA2017 including the information on oral and poster presentation.

If you are interested in more information about the general program of ISPRS Geo Spatial Week, please visit the local conference website.

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