

Low Cost 3D

Sensors, Algorithms, Applications

1st and 2nd December 2015

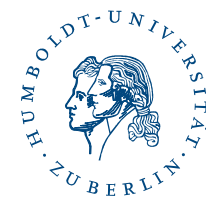
The workshop is part of the 3D Event Cluster Berlin

"berlin3d.net"

Volmerstraße 3

12489 Berlin-Adlershof, Germany

First call for papers



Technische Universität Berlin

Institute of Geodesy and Geoinformation Science

Prof. Dr.-Ing. Frank Neitzel

Humboldt-Universität zu Berlin

Institute of Computer Science, Computer Vision

Prof. Dr. rer. nat. Ralf Reulke

Workshop content

3D-reconstruction doesn't need to be expensive. David-Laserscanner, KINECT, Bundler and co. proof this. Embedded into the berlin3d.net cluster this workshop is a platform to present operations and application examples of different Low-Cost-3D reconstruction methods. Additionally there will be space for live demonstrations.

Target audience

Researcher, developer and user of Low-Cost 3D reconstruction methods

Conference language

Conference delegates are asked to present their results in English

Topics

The past workshops revealed a vast deficit in quality assurance procedures that allow the user to numerically assess the acquired data. Hence this issue is of special interest for the 2015 edition. In addition contributions that are related to the listed subjects below are welcome.

Sensors

- Current developments
- Operation mode, calibration, accuracy assessment etc.

Algorithms

- SIFT, SLAM, bundle adjustment etc.
- Software: Bundler, CMVS, PMVS2, Visual SfM, etc.
- Webservices: Photosynth, ARC3D, 123D catch etc.

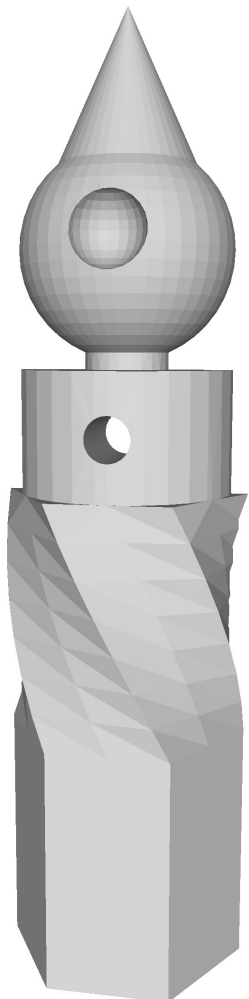
Applications

- Static and kinematic applications
- Rapid Prototyping / 3D-printing
- Special fields of application
 - Entertainment
 - User control
 - 3D reconstruction
 - Advanced driver assistance systems
 - Medical diagnostics
 - Quality control
 - etc.

Call for Paper / Presentations

The organizing committee invites to present papers or practical demonstrations concerning the mentioned main topics. Please submit an extended abstract at first that outlines the innovative moment of your potential contribution as well as generated results. The extended abstract should not surpass the two page limit. Accepted articles will be published in the International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences. Format templates for the electronic conference volume are available under the following address: <http://www.isprs.org/documents/orangebook/app5.aspx>.

Note that presentations without publication of an article are also welcome. In addition practical demonstrations are invited that exhibit novel developments.





Call for Poster Presentations

In order to encourage students in participating in scientific events a poster session will be introduced. Students whose posters are accepted are invited to participate at the LC3D conference at no charge. A guideline for poster presentations can be found under <http://www.isprs.org/documents/orangebook/app6.aspx>. Note that the format should be A0.

Scientific committee

This year's conference will be guided by a scientific committee (status as of July 2015) that is assembled of:

- Norbert Haala, Universität Stuttgart, Germany
- Olaf Hellwich, Technische Universität Berlin, Germany
- Roderik Lindenbergh, Delft University of Technology, Netherlands
- Frank Neitzel, Technische Universität Berlin, Germany
- Francesco Pirotti, University of Padova, Italy
- Ralf Reulke, Humboldt-Universität zu Berlin, Germany
- Marco Scaioni, Tongji University, China
- Danilo Schneider, Technische Universität Dresden, Germany

Registration and further information

The registration fee adds up to 95.00 € for regular participants respectively 55.00 € for enrolled students **before** the 1st November 2015. After the early bird period a late booking fee of 30 € applies. Registration will open from the 15th August 2015 onwards via ConfTool Conference Administration. Further information can be found under: <http://www.lc3d.net/>

Important dates

Extended abstract submission (paper / presentation / demonstration) until **01.10.2015**

Notification of acceptance until **12.10.2015**

End of early bird period: **31.10.2015**

Full paper submission until **18.01.2016**

Event-note berlin3d.net

3rd and 4th December 2015: 3D-NordOst: www.3d-nordost.de

Directions

This year's conference will take place at:

GFal e. V.
Volmerstraße 3
12489 Berlin-Adlershof

Directions to the conference venue can be found here:

<http://www.gfai.de/english/gfai/location/location.html>



* Copy of the Bust of Queen Nefertiti, New Kingdom, 18th dynasty ca. 1340 BCE, Egyptian Museum and Papyrus Collection, National Museums Berlin. Unauthorised external use is strictly prohibited.