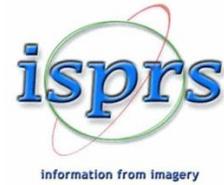




EuroSDR / ISPRS Workshop on
***Oblique cameras
& Dense Image Matching***
19-20 October 2015
Southampton, UK



Organized by:

Fabio Remondino
FBK Trento, Italy

Norbert Haala
University of Stuttgart, Germany

Norbert Pfeifer
TU Wien, Austria

Malcolm Havercroft
Ordnance Survey, UK

Geospatial data generated automatically from images is currently experiencing a technological boost: increasing quality of digital airborne imagery, developments and availability of oblique multi-camera systems, and innovations in dense image matching algorithms. National Mapping and Cadastral Agencies (NMCAs) consider changing their production pipelines while photogrammetric companies consider upgrading their airborne cameras to multi-view systems. These developments and considerations motivated the launch of **two EuroSDR / ISPRS benchmarks**:

- 1) "Multi-platform photogrammetry" which aims to assess the accuracy and reliability of current methods for calibration and orientation of images acquired by different platforms (oblique cameras, UAV, terrestrial) as well as their integration for image matching and dense point cloud generation
http://www2.isprs.org/commissions/comm1/icwg15b/benchmark_main.html
- 2) "High Density Aerial Image Matching" which aims to evaluate the potential of photogrammetric 3D data capture in view of the ongoing developments of software for automatic image matching, building upon the first, very successful EuroSDR benchmark of High Density Image Matching
<http://www.ifp.uni-stuttgart.de/ISPRS-EuroSDR/ImageMatching/index.en.html>

Following these activities, the **EuroSDR / ISPRS workshop on *Oblique Cameras & Dense Image Matching*** (www.eurosd.net/workshops/eurosd-workshop-oblique-cameras-and-dense-image-matching) will bring together experts and users of these technologies and solutions to discuss the latest developments and present the latest results.

The event will have a **free registration fee** and will be held on 19-20 October 2015 at the Ordnance Survey's headquarter, Explorer House at Adanac Drive in Southampton, UK (<https://www.ordnancesurvey.co.uk/about/head-office/index.html>).

Presentations will come from industry, academia, and NMCAs.

Confirmed speakers are:

- Yuri Raizman (VisionMap): "A3 Edge for oblique and dense DSM – practical case study"
- Lennart Flem (Blom): "Experiences with techniques for 3D modelling from oblique imagery in Blom"
- Mathias Rothermel (nFrames): "Oblique image processing in SURE: first experiments and results"
- Philipp Grimm (IGI): "From 2.5 D to 3D: surface reconstruction from oblique images with IGImatch"
- Antonio Magariños & Julia Talaya (ICGC Spain): "First experiences on the use of an oblique camera at ICGC"
- Görres Grenzdörffer (Rostock University, Germany): "Development and tests of the "Four Vision" oblique camera system for Micro-UAS"
- David Holland (Ordnance Survey, UK): "Ordnance Survey's experience in creating dense point clouds and 3D building models from oblique imagery"
- Hans Joachim Benfer (Aerowest): TBD

- Michael Gruber (Vexcel / Microsoft): TBD
- Hartmut Rosengarten (Leica / Hexagon): TBD
- Markus Gerke (Twente University / ITC, The Netherlands): TBD
- Dieter Fritsch (University of Stuttgart, Germany): TBD
- Andy McGill (Ordnance Survey, Ireland): TBD

Further speakers from the R&D, NMCA and industrial communities are warmly **invited** to attend the event and present their results. In particular researchers using the **benchmarking datasets** are kindly asked to join the event and present their achievements. Please send an email before September 21st, 2015 to Fabio Remondino - remondino@fbk.eu - if you are willing to give a presentation.

In the evening of October 19th, the first workshop's day, participants will be invited to a social dinner. We gratefully acknowledge the sponsorship of Leica Hexagon for this event.

