



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



Organized by:

**Fabio Remondino**  
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 ITC/Twente Univ  
 The Netherlands

Venue: Ordnance Survey's headquarter, Explorer House at Adanac Drive, Southampton, UK

**Technical program (Oct 15<sup>th</sup>)**

<b>MONDAY 19 OCTOBER</b>	
10:30-12:30	<b>Opening remarks</b> <b>Session 1: Benchmarks, oblique sensors and workflows</b> <ul style="list-style-type: none"> <li>Markus Gerke, Francesco Nex (Twente University / ITC, The Netherlands): "ISPRS/EuroSDR benchmark Multi-platform Photogrammetry - Preliminary results"</li> <li>Norbert Haala (Univ of Stuttgart, Germany): "Benchmark on high density aerial image matching"</li> <li>Ruediger Wagner (Leica / Hexagon): "Oblique sensors, workflows and information - a practical perspective"</li> </ul>
12:30-14:00	Lunch break
14:00-15:30	<b>Session 2: Advancements in data acquisition and processing</b> <ul style="list-style-type: none"> <li>Konrad Wenzel (nFrames): "Flight planning for city acquisition at high resolution"</li> <li>Yuri Raizman (VisionMap): "A3 Edge for oblique and dense DSM – practical case study"</li> <li>Michael Gruber (Vexcel / Microsoft): "Ultracam Osprey - nadir meets oblique"</li> </ul>
15:30-16:15	Coffee break
16:15-17:15	<b>Session 3: NMCA experiences</b> <ul style="list-style-type: none"> <li>David Holland (Ordnance Survey UK): "Ordnance Survey's experience in creating dense point clouds and 3D building models from oblique imagery"</li> <li>Andy McGill (Ordnance Survey Ireland): "LOD 2 from vertical &amp; oblique imagery"</li> </ul>
19:30	Social dinner @ Grand Cafe ( <a href="http://www.grand-cafe.co.uk">http://www.grand-cafe.co.uk</a> )

<b>TUESDAY 20 OCTOBER</b>	
9:00-10:30	<b>Session 4: Advancements in data processing (I)</b> <ul style="list-style-type: none"> <li>Lisa Chen, Jorge Fernandez (Pix4D): "An oblique-imagery case analysis of Pix4Dmapper densification result"</li> <li>Mathias Rothermel (nFrames): "Oblique image processing in SURE: first experiments and results"</li> </ul>

	<ul style="list-style-type: none"> <li>Hans Joachim Benfer (Aerowest): "True orthophotos and dense point clouds from multi-perspective aerial imaging - Opportunities and challenges in practice"</li> </ul>
10:30-11:15	Coffee break
11:15-12:45	<b>Session 5: Advancements in data processing (II)</b> <ul style="list-style-type: none"> <li>Jens Kremer (IGI): "Dense Image matching with PentaDigiCAM images – Experiences and options"</li> <li>Chris Longworth (Blom): "Experiences with techniques for 3D modelling from oblique imagery in Blom"</li> <li>Isabella Toschi, Fabio Remondino (FBK Trento, Italy): "Experiences with oblique datasets: AT, dense matching and building modeling"</li> </ul>
12:45-14:00	Lunch break
14:00-15:30	<b>Session 6: R&amp;D and experiences (I)</b> <ul style="list-style-type: none"> <li>Görres Grenzdörffer (Rostock University, Germany): "Development and tests of the "Four Vision" oblique camera system for Micro-UAS"</li> <li>Wojciech Ostrowski, Krzysztof Bakula, Zdzisław Kurczyński (Warsaw University of Technology): "Quality assessment of dense image matching on oblique images - experience in Poland"</li> <li>Mozhdeh Shahbazi, Gunho Sohn and Jerome Theau (York University, Canada): "From sparse matching based on evolutionary search to dense matching based on intrinsic curves - Preliminary results"</li> </ul>
15:30-16:00	Coffee break
16:00-17:00	<b>Session 7: R&amp;D and experiences (II)</b> <ul style="list-style-type: none"> <li>Karlheinz Gutjahr, Roland Perko (Joanneum Research, Austria): "3D Mapping with RSG"</li> <li>Willi Karel, Norbert Pfeifer (TU Wien, Austria): "Analysis of oblique image datasets with OrientAL"</li> </ul> <b>Closing remarks</b>

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