## Programme NCG Symposium 2016

30 November 2016

University of Twente, Faculty ITC, Hengelosestraat 99, 7514 AE Enschede

<table>
<thead>
<tr>
<th>Time</th>
<th>Session 1</th>
<th>Session 2: Crowd sourcing</th>
<th>Session 3: Feature extraction</th>
<th>Session 4: Scene understanding</th>
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<tbody>
<tr>
<td>9:30</td>
<td>Registration, coffee &amp; tea</td>
<td>10:00 Opening</td>
<td>11:00 Using a 3D serious game to involve citizens in renewable energy transition management</td>
<td>11:20 Crowdsourcing in National Names Authority: OSM Data and Topographic Map Data</td>
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<td></td>
<td></td>
<td>Arnold Bregt, chairman NCG, WUR</td>
<td>Sanne Hettinga, VU</td>
<td>Aji Putra Perdana, UT</td>
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<td>10:00</td>
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<td>10:05 Introduction of Baarda lecturer Prof. Berhard Heck</td>
<td>10:10 Baarda lecture: Monitoring the Changing Earth - From Observations to Modelling</td>
<td>11:20 Community based tropical forest monitoring using emerging technologies</td>
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<td>Ramon Hanssen, TUD</td>
<td>Berhard Heck, Karlsruhe Institute of Technology</td>
<td>Arun Pratihast, WUR</td>
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<td>10:10</td>
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<td>10:10 Baarda lecture: Monitoring the Changing Earth - From Observations to Modelling</td>
<td>10:50 Announcements</td>
<td>11:40 Automatic Feature Extraction from Mobile Laser Scanning Data and Aerial Imagery</td>
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<td>Berhard Heck, Karlsruhe Institute of Technology</td>
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<td>10:50</td>
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<td>10:50 Announcements</td>
<td>11:00 Finding and fitting wall planes in airborne point cloud data</td>
<td>12:00 Lunch</td>
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<td>13:00 Presentation of the Tienstra award to Martijn Meijers</td>
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<td>Session 6: Data representation</td>
<td>Session 7: Monitoring</td>
<td>Session 8: Indoor point clouds</td>
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<td>Auditorium</td>
<td>Room 3-008</td>
<td>Room 4-004</td>
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<td>Chair: Hugo Ledoux, TUD</td>
<td>Chair: Martin Herold, WUR</td>
<td>Chair: Sisi Zlatanova, TUD</td>
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13:35  
**How to efficiently store and disseminate massive terrains?**  
Kavisha Kumar, TUD  

13:55  
**Smart database and transmission techniques for fast rendering of large 3D datasets in web clients**  
Marian de Vries, TUD  

14:15  
**Spatial data in NoSQL databases**  
Wilco Quak, Peter van Oosterom, Martijn Meijers, Irene de Vreede, Oscar Martinez Rubi, TUD  

14:35  
**nD-PointClouds**  
Peter van Oosterom, TUD  

14:55  
**Tea break**

14:55  
**Session 9: 3D modelling**  
Auditorium  
Chair: t.b.a.  

15:30  
**A global perspective on 3D cadastral development**  
Mila Koeva, Rohan Bennett, Jaap Zevenbergen, UT  

15:50  
**Automatic valid LOD2 building models from aerial point clouds with the 3D Medial Axis Transform**  
Ravi Peters, TUD  

16:10  
**Challenges for updating 3D cadastral objects using LiDAR and image-based point clouds**  
Mila Koeva, Sander Oude Elberink, UT  

16:30  
**A voxel-based approach to automatically repair CityGML LOD2 buildings**  
Damien Mulder, Hugo Ledoux, Jantien Stoter, TUD  

15:00  
**Session 10: Big geo-data**  
Room 3-008  
Chair: Peter van Oosterom, TUD  

15:30  
**On route to big(geo)data: a socio-technical trajectory of GIS and the questions it poses**  
Christine Richter, UT  

15:50  
**Distributed processing of Dutch AHN laser altimetry changes in the built-up area**  
Máté Cserép, Roderik Lindenbergh, TUD  

16:10  
**Dense Matching Quality Evaluation - Towards Updating National Point Clouds**  
Zhenchao Zhang, UT  

16:30  
**A Space Filling Curve for the management of dynamic point cloud data in a Relational DBMS**  
Styliani Psomadaki, TUD  

15:30  
**The effect of A* path-finding characteristics on the path length and performance in an octree representation of an indoor point cloud**  
Olivier Rodenberg, TUD  

15:50  
**Extraction of free space for 3D indoor navigation on BIM models**  
Abdoulaye Diakite, TUD  

16:10  
**3D indoor navigation: One algorithm for walking, driving and flying actors**  
Martijn Koopman, TUD  

16:30  
**Point clouds for indoor modelling and obstacle detection: towards real indoor navigation**  
Tim Nagelkerke, TUD  

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**Session 11: Indoor navigation**  
Room 4-004  
Chair: Michael Peter, UT  

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**Drinks**

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**End**