

Programme NCG Symposium 2016

30 November 2016

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

9:30 **Registration, coffee & tea**

Session 1 **Auditorium**

- 10:00 **Opening**
Arnold Bregt, chairman NCG, WUR
- 10:05 **Introduction of Baarda lecturer Prof. Berhard Heck**
Ramon Hanssen, TUD
- 10:10 **Baarda lecture: Monitoring the Changing Earth - From Observations to Modelling**
Berhard Heck, Karlsruhe Institute of Technology
- 10:50 **Announcements**
George Vosselman, UT

Session 2: Crowd sourcing **Auditorium**

Chairs: Frank Ostermann, UT

- 11:00 **Using a 3D serious game to involve citizens in renewable energy transition management**
Sanne Hettinga, VU

- 11:20 **Crowdsourcing in National Names Authority: OSM Data and Topographic Map Data**
Aji Putra Perdana, UT

- 11:40 **Community based tropical forest monitoring using emerging technologies**
Arun Pratihast, WUR

Session 3: Feature extraction **Room 3-008**

Chair: Sander Oude Elberink, UT

- Finding and fitting wall planes in airborne point cloud data**
Jochem Lesparre, TUD

- Solving mobile mapping positioning issues in urban canyons**
Phillipp Jende, UT

- Automatic Feature Extraction from Mobile Laser Scanning Data and Aerial Imagery**
Zill Hussnain, UT

Session 4: Scene understanding **Room 4-004**

Chair: Roderik Lindenbergh, TUD

- Integrating UAV point clouds and imagery: an application for informal settlement mapping**
Caroline Gevaert, Claudio Persello, Richard Sliuzas, George Vosselman, UT

- Automatic interpretation of pole-like street furniture**
Fashuai Li, UT

- Deep learning for semantic scene understanding**
Michael Yang, UT

12:00 **Lunch**

Session 5 **Auditorium**

- 13:00 **Presentation of the Tienstra award to Martijn Meijers**
Menno Tienstra
- 13:10 **Vario scale geo-information can be made to work**
Martijn Meijers, TUD

	Session 6: Data representation Auditorium	Session 7: Monitoring Room 3-008	Session 8: Indoor point clouds Room 4-004
	<i>Chair: Hugo Ledoux, TUD</i>	<i>Chair: Martin Herold, WUR</i>	<i>Chair: Sisi Zlatanova, TUD</i>
13:35	<u>How to efficiently store and disseminate massive terrains?</u> Kavisha Kumar, TUD	<u>Thermal remote sensing for soil salinity assessment</u> Konstantin Ivushkin, WUR	<u>Permanent indoor structure detection in cluttered point clouds from indoor mobile laser scanners</u> Shayan Nikoohemat, UT
13:55	<u>Smart database and transmission techniques for fast rendering of large 3D datasets in web clients</u> Marian de Vries, TUD	<u>High-resolution remote sensing image classification using collaborative representation with a locally adaptive dictionary</u> Mingxue Zheng, TUD	<u>Semantic enrichment of a point cloud based on an octree for multi-storey path-finding</u> Florian Fichtner, TUD
14:15	<u>Spatial data in NoSQL databases</u> Wilco Quak, Peter van Oosterom, Martijn Meijers, Irene de Vreede, Oscar Martinez Rubi, TUD	<u>Terrestrial LiDAR and 3D Reconstruction Models for Large Individual Tree Biomass Estimation in Tropics</u> Alvaro Lau, Martin Herold, Harm Bartholomeus, Jose Gonzalez de Tanago, WUR	<u>Structural health monitoring on a geospatial scale using BIM and point clouds</u> Thomas Krijnen, Jakob Beetz, TUE
14:35	<u>nD-PointClouds</u> Peter van Oosterom, TUD	<u>Comparison of snow cover products from PROBA-V, Landsat and MODIS on big data platforms</u> Stef Lhermitte, TUD	<u>Point clouds for indoor modelling and obstacle detection: towards real indoor navigation</u> Lucia Díaz-Vilariño, TUD

14:55 Tea break

	Session 9: 3D modelling Auditorium	Session 10: Big geo-data Room 3-008	Session 11: Indoor navigation Room 4-004
	<i>Chair: t.b.a.</i>	<i>Chair: Peter van Oosterom, TUD</i>	<i>Chair: Michael Peter, UT</i>
15:30	<u>A global perspective on 3D cadastral development</u> Mila Koeva, Rohan Bennett, Jaap Zevenbergen, UT	<u>On route to big(geo)data: a socio-technical trajectory of GIS and the questions it poses</u> Christine Richter, UT	<u>The effect of A* path-finding characteristics on the path length and performance in an octree representation of an indoor point cloud</u> Olivier Rodenberg, TUD
15:50	<u>Automatic valid LOD2 building models from aerial point clouds with the 3D Medial Axis Transform</u> Ravi Peters, TUD	<u>Distributed processing of Dutch AHN laser altimetry changes in the built-up area</u> Máté Cserép, Roderik Lindenbergh, TUD	<u>Extraction of free space for 3D indoor navigation on BIM models</u> Abdoulaye Diakite, TUD
16:10	<u>Challenges for updating 3D cadastral objects using LIDAR and image-based point clouds</u> Mila Koeva, Sander Oude Elberink, UT	<u>Dense Matching Quality Evaluation - Towards Updating National Point Clouds</u> Zhenchao Zhang, UT	<u>3D indoor navigation: One algorithm for walking, driving and flying actors</u> Martijn Koopman, TUD
16:30	<u>A voxel-based approach to automatically repair CityGML LOD2 buildings</u> Damien Mulder, Hugo Ledoux, Jantien Stoter, TUD	<u>Using a Space Filling Curve for the management of dynamic point cloud data in a Relational DBMS</u> Styliani Psomadaki, TUD	<u>Point clouds for indoor modelling and obstacle detection: towards real indoor navigation</u> Tim Nagelkerke, TUD

16:50 Drinks

17:30 End