



Second Workshop of DAAD Thematic Network “Modern Geodetic Space Techniques for Global Change Monitoring”

24–28 July 2018

Meeting venue

University of Luxembourg, Campus Kirchberg
6 Rue Richard Coudenhove-Kalergi, L-1359 Luxembourg

Tuesday, July 24th 2018, Locations: BC1-BC13, Campus Kirchberg

9:00–17:00	Arrival and Registration
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Wednesday, July 25th 2018, Location: BC1-BC13, Campus Kirchberg

9:30–10:30	Welcome and introduction Greeting from University of Luxembourg Greeting from University of Stuttgart “Network News” N. Sneeuw & J. Cai <ul style="list-style-type: none">- Achievements- Extension
10:30–12:30	Satellite Altimetry, Gravimetry & Enabling technologies <i>Chair: Tonie van Dam</i> The significance of seismic signal recorded by gravimeter <i>Hongbo Tan, Olivier Francis, C. Shen, W. Fan, L. Zhou (UL)</i> Determination of potential using precise clocks <i>Wenbin Shen (WHU)</i> Ocean Tide Alias Spectrum Estimation for Satellite Gravity Missions <i>Wei Liu, N. Sneeuw (US-GIS)</i> Analysis of waveforms in the satellite altimetry by using neural networks <i>Dennis Mattes (US-GIS)</i>
12:30–13:30	Lunch break
13:30–15:00	Positioning, Navigation & Reference Systems <i>Chairs: Weiping Jiang and Jianqing Cai</i> Challenges and Opportunities of GNSS Continuously operating Reference Station Network <i>Weiping Jiang (WHU)</i> Origins of Seasonal Signal in GPS Position Time Series Based on Short-baselines <i>Kaihua Wang, Weiping Jiang, Xiangdong An, Hua Chen (WHU)</i> Ionosphere Parameter Optimization Using GNSS Data Ingestion during

	Geomagnetic Storm in China <i>Ling Han (Tongji)</i>
15:00–15:30	Coffee break
15:30–17:00	Precise Point Positioning and its application in Geoscience <i>Fei Guo (WHU)</i> Monitoring of Rock Fall at the Yangtze River with Low Cost GNSS receiver <i>Li Zhang (US-IIGS)</i> CTLS and Gauss-Helmert Model with applications to 3-D coordinate transformations <i>Jianqing Cai, D. Dong, N. Sneeuw and Y. Yao (US-GIS)</i>
18:00	Joint dinner

Thursday, July 26th 2018, Location: BC1-BC13, Campus Kirchberg

9:00–10:30	Remote Sensing and Photogrammetry <i>Chair: Nico Sneeuw</i> Monitoring land subsidence over large area with time series InSAR technique <i>Hongan Wu (CASM)</i> Tunnel Monitoring and Disease Screening Based on Mobile Laser <i>Jin Bao (Tongji)</i> Effect of Antenna Pointing Errors on Spotlight SAR Imaging Considering the Target Location <i>Xin Zhang (Tongji)</i>
10:30–11:00	Coffee break
11:00–12:00	The Application of ELM based on Gaussian Kernel in Image Classification <i>Weijie Li, Yi Lin (Tongji)</i> The optimal regularization and its application in Extreme Learning Machine for regression and multiclass classification <i>Kun Qian, J. Cai, N. Sneeuw and Y. Lin (US-GIS & Tongji)</i>
12:00–13:00	Lunch break
13:00–15:00	Applications for Global Change Monitoring <i>Chairs: Olivier Francis and Wenbin Shen</i> Research on the ionospheric responses to Typhoon event <i>Yibin Yao (WHU)</i> A new index for assessing the influence of the Three Gorges Dam on hydrological drought using GRACE data <i>Zhengtao Wang (WHU)</i> Estimation of Water Volume Variations for large-scale Lake Based on Multi-source Satellite Data <i>Jie Yu, Yi Lin (Tongji)</i> Can we tell what is going on in the Yellowstone National Park combining absolute gravity and GPS observations? <i>Olivier Francis (UL)</i>

15:00–15:30	Coffee break
15:30–17:00	<p>Spatio-temporal influence of ENSO on terrestrial water storage change in the Yangtze River basin <i>Taoyong Jin (WHU)</i></p> <p>Complex Singular Spectrum Analysis of Earth Orientation Time Series <i>Yang Li (US-GIS)</i></p> <p>Can GRACE observe the total drainable water storage of a river basin? A first estimate over the Amazon basin <i>Nico Sneeuw, M. J. Tourian, J. T. Reager (US-GIS)</i></p>

Friday, July 27th 2018, Location: BC1-BC13, Campus Kirchberg

09:00–11:00	<p>Gravity field modelling and Height System <i>Chairs: Nico Sneeuw and Hanjiang Wen</i></p> <p>The change of terrestrial water storage in north China observed by GRACE <i>Hanjiang Wen (CASM)</i></p> <p>The determination of earth's gravity field model by torus approach with GOCE data <i>Huanling Liu (CASM)</i></p> <p>Static gravity field modeling using the GOCE hl-SST data in individual accelerometer mode” <i>Xiancai Zou (WHU)</i></p> <p>An ultra-high gravity field model based on the GOCE data, Altimetry data and EGM2008 derived gravity anomalies <i>Xinyu Xu (WHU)</i></p>
11:00–11:30	Coffee break
11:30–13:30	<p>Solving Earth Gravity Field from GOCE Data by Tensor Spherical Harmonic Analysis <i>Yongqi Zhao, Xinyu Xu (WHU)</i></p> <p>Validation of the EGSIM GRACE gravity fields using GNSS and OBP records <i>Qiang Chen, Lea Poropat, Matthias Weigelt, Henryk Dobslaw, Tonie van Dam (UL)</i></p> <p>Mass Balance Computation in the Space Domain Using GRACE Data <i>Jinyuan Wang (US-GIS)</i></p> <p>Implementation of the Sea-Level Equation <i>Laura Balangé (US-GIS)</i></p>

Instruction for oral presentations:

- A Workshop notebook will be used for all presentations. Please, copy your presentation (**PowerPoint** or **PDF**) on USB stick and upload it in time before the session starts;
- The following software will be available: Adobe Acrobat Reader, Microsoft PowerPoint;
- The time slots for presentations are: presentation: **25 min + 5 min for Q&A.**



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