

Program Frontiers of Geodetic Science digital 2021

Wednesday, September 22nd

9:00 - 9:10	Welcome Address		Prof. Dr.-Ing. Steffen Schön
2. Schwerefeld I			
9:10 - 9:20	Bützler Clara	Gravity gradients of prompt elasto-gravity signals – Can they be measured?	Dr.-Ing. Axel Rülke
9:20 - 9:30	Shihora Linus	Towards AOD1B RL07	
9:30 - 9:40	Yi Shuang	A regime shift in global land water storage since 2010	
9:40 - 10:00	Discussion		
2. Schwerefeld II			
10:00 - 10:10	Knabe Annike	Improving Satellite Gravity Mission Accelerometers by Cold Atom Interferometry	Dr.-Ing. Axel Rülke
10:10 - 10:20	Hsu Kuei-Hua	A regional groundwater data set for validating WaterGAP calibration results in France	
10:20 - 10:30	Hauk Markus	Simulation studies in the context of a GRACE-FO successor mission architecture	
10:30 - 10:40	Kupriyanov Alexey	Sensor and performance modeling of an optical accelerometer for future gravity field missions	
10:40 - 11:10	Discussion		
1. Theoretische Geodäsie			
11:10 - 11:20	Sneeuw Nico	A CFD-based gravitational field modeling method and its potential applications in deep space exploration	Prof. Dr.-Ing. Michael Schmidt
11:20 - 11:30	Afrasteh Yosra	The potential impact of hydrodynamic leveling on the quality of the European vertical reference frame	
11:30 - 11:40	Jendges Lukas	Anisotropic covariance modelling using 2D-AR-processes	
11:40 - 11:50	Liu Qing	Regional gravity field modeling based on a spectral combination through the multi-resolution representation	
11:50 - 12:00	Wang Bo	Crossover Adjustment of ICESat-2 Satellite Altimetry for Arctic Region	
12:00 - 12:30	Discussion		
12:30 - 13:30	Lunchbreak		
3. Geodätische Referenzsysteme und Erdrotation I			
13:30 - 13:40	Mammadaliyev Nijat	Simulation of space-tie satellites providing co-location in space	Prof. Dr.techn. Johannes Böhm
13:40 - 13:50	Wang Jungang	Tropospheric Ties between GNSS and VLBI for Improved Data Analysis	
13:50 - 14:00	Wolf Helene	Observations to Galileo satellites with VLBI: an evaluation study	
14:00 - 14:10	Geisser Linda	Homogeneous formation of SLR Normal Point data	
14:10 - 14:30	Discussion		
3. Geodätische Referenzsysteme und Erdrotation II			
14:30 - 14:40	Kern Lisa	Optimal VGOS and VLBA Intensive Sessions for the Estimation of UT1	Prof. Dr.techn. Johannes Böhm
14:40 - 14:50	Eschelbach Cornelia	Zum Einsatz der Nahbereichsphotogrammetrie zur Referenzpunktbestimmung an SLR-Teleskopen	
14:50 - 15:00	Glomsda Matthias	DTRF2020: the ITRS 2020 realisation of DGFI-TUM	
15:00 - 15:20	Discussion		

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4. Ingenieurgeodäsie und GNSS			
9:00 - 9:10	Mayer-Gürr Torsten	GROOPS: A software toolkit for gravity field recovery and GNSS processing	Prof. Dr.-Ing. Steffen Schön
9:10 - 9:20	Karimidoona Ali	Analysis of the performance of commercial RTK receivers in urban environments using Network RTK corrections	
9:20 - 9:30	Su Jingyao	On the geometrical constraints for interval-based GNSS positioning	
9:30 - 9:40	Beer Susanne	Zur Bestimmung absoluter Code-Verzögerungen für GNSS Satellitenantennen	
9:40 - 10:10	Discussion		
5. Umweltmonitoring und Fernerkundung I			
10:10 - 10:20	Kepkar Ankur	Synoptic study of equatorial plasma bubbles during solar minimum and solar maximum years	Prof. Dr.-Ing. Steffen Schön
10:20 - 10:30	Foster James	Ship-based GNSS Tsunami Detection	
10:30 - 10:40	Elmi Omid	Improving inland water altimetry retracking by incorporating spatial dependency of waveforms	
10:40 - 10:50	Oluwadare Temitope Seun	On the first simultaneous and conjugate MSTIDs observation over the African sector during daytime.	
10:50 - 11:00	Robert Langendörfer	Assessment of meteorological data sources on GNSS water vapor retrievals	
11:00 - 11:20	Discussion		
5. Umweltmonitoring und Fernerkundung II			
11:20 - 11:30	Tourian Mohammad J.	Estimation of river discharge using a mass-conserved Kalman filter approach relying on simulated SWOT observations	Prof. Dr.-Ing. Jürgen Müller
11:30 - 11:40	Saemian Peyman	Estimation of sub-monthly discharge over Arctic rivers through satellite altimetry: case study Mackenzie River	
11:40 - 11:50	Behnia Sajedah	Leading Edge Identification with Prior Information (LEIPI): a new approach to retracking inland altimetry waveforms	
11:50 - 12:00	Wang Lingke	Analysis of water volume change of the lakes and reservoirs in the Mississippi River basin using Landsat imagery and satellite altimetry measurements	
12:00 - 12:30	Discussion		
12:30 - 13:30	Lunchbreak		
5. Umweltmonitoring und Fernerkundung III			
13:30 - 13:40	Nguyen Thai Chinh	Selection of the optimal machine learning algorithms for space weather prediction	Prof. Dr.-Ing. Ribana Roscher
13:40 - 13:50	Zeitlhöfler Julian Andreas	Station-dependent laser retroreflector array correction function for TOPEX/Poseidon	
13:50 - 14:00	Bolmer Eike	Building a Neural Network Architecture for the Identification, Tracking, and Classification of Ocean Eddies	
14:00 - 14:10	Kierdorf Jana	Optimization of Cauliflower Cultivation using UAVs and Machine Learning	
14:10 - 14:20	Drees Lukas	Plant phenotyping in mixed cropping environments using UAV imagery time series.	
14:20 - 14:50	Discussion		