

NGDM 2016 - New Geotechnologies for Disaster Management



Prague, Czech Republic, April 12-13, 2016. The registration and the other information related to the conference you can find on: <http://p-insar.cz/ngdm2016>

Program:

Tuesday, April 12

9:45 - 10:30h - Registration

10:30 - 10:40h Opening Remarks

Pavel Novák

10:40 - 12:00h

On dynamics of the Earth's gravitational field

Classical and Advanced Methods of Photogrammetry and Remote Sensing for Deformations Monitoring

Advanced Monitoring Systems for Landslide Risk Reduction in the Siq of Petra (Jordan)

Pavel Novák, Michal Šprlák, Martin Pitoňák

Czech Republic

Karel Pavelka

Czech Republic

Giorgia Cesaro, Marco Brini, Giuseppe Delmonaco

Jordan,

Switzerland, Italy

Leica Geomos Monitoring Solution – Technology and Use Cases

Daniel Šantora

Czech Republic

12:00 - 13:00h - Lunch Break

13:00 - 14:00h

Deformation Monitoring Using Single-Frequency GNSS Technology

Deformations of the Bohemian Massif - Measurements, Data Processing and Interpretations

Application of GNSS Technology for the Detection of Post-Seismic Deformation

Tamás Horváth, Jürgen Alberding

Germany

Vladimír Schenk, Zdenka Schenková

Czech Republic

Jan Kostelecký, Jakub Kostelecký

Czech Republic

14:00 - 14:15h - Coffee Break

14:15 - 15:15h

Ground Based Interferometry Radar (IBIS) for Soil and Structure Monitoring

Experiences with Determining of Horizontal Movements of High-rise Buildings and Constructions Using Ground Radar Interferometry

Possibilities of Determining Vertical Deflection of Bridge Structures Using Ground Radar Interferometry

Simone Cerella, Francesco Boscagli

Italy

Milan Talich, Jan Havrlant, Ondřej Böhlm, Filip Antoš

Czech Republic

Milan Talich, Jan Havrlant, Ondřej Böhlm, Filip Antoš

Czech Republic

18:00 - Diner at the restaurant - If anybody like to avail the dinner at the restaurant in Old Prague City (not included in the fee) then please send an e-mail with this note to the Milan.Talich@utia.cas.cz

Wednesday, April 13

9:00 - 10:00h

Estimation of Spatial-Temporal Distribution of Atmospheric Parameters from GNSS Observations

Nataliya Kablak, Oleksandr Reity, Mykola Kalyuzhnyi,
Oleksandr Shulga

Ukraine

Monitoring System of Tropospheric Water Vapor in the Western Transborder Zone of Ukraine

Stepan Savchuk, Fedir Zablotsky, Ambrus Kenyeres,
Tivadar Horvath

Ukraine, Hungary

GNSS Application to Real-Time Atmosphere Monitoring in the Carpathian Region

Nataliya Kablak, Oleksandr Reity, Ivan Kalynych, Stepan
Savchuk, Ambrus Kenyeres

Ukraine, Hungary

10:00 - 10:15h - Coffee Break

10:15 - 11:35h

Synthetic Aperture Radar for Critical and Strategic Monitoring in Natural and Engineered Slope
The using of Ground-based InSAR technique for the deformation monitoring of dams

S. Cerella, M. Donati, G. Funaioli, F. Meloni
Milan Talich, Michal Glöckner, Jan Havrlant, Ondřej
Böhm, Lubomír Soukup, Ondřej Michal

Italy
Czech Republic

Monitoring of Turag River Dyke Using Ground Penetrating Radar (GPR): a New Approach of Flood Risk
Reduction in Dhaka City, Bangladesh

Reshad Md. Ekram Ali, Salma Akter, Mohammad Zohir
Uddin, Shahtaj Karim, Rajinder Kumar Bhasin, Fannian
Kong

Bangladesh

Multitemporal Monitoring of Karvina Subsidence Troughs Using Sentinel-1 Interferometry

Milan Lazecky, Eva Jirankova, Pavel Kadlecik, Michala
Drozdova

Czech Republic

11:35 - 11:50h - Coffee Break

11:50 - 12:50h

The strain analysis as a tool for the deformations analysis obtained from geodetic measurements
Estimation of Deformation Tensor on a Hazardous Object under Interferometric SAR Monitoring
Residual-state creep failure prediction model to understand the creeping behavior of clayey soils

Milan Talich
Lubomir Soukup
Deepak Raj Bhat, Ryuichi Yatabe

Czech Republic
Czech Republic
Nepal, Japan

12:50 - 13:00h - Closing Remarks

Milan Talich

13:00 - 14:00h - Lunch