VSB – Technical University of Ostrava
Faculty of Mining and Geology
Institute of Geoinformatics

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Ostrava 2014

Geoinformatics for Intelligent Transportation

New Hall of VSB – TUO, 17. listopadu 15, Ostrava-Poruba, Czech Republic, EU

January 27 - 29, 2014

under auspices of
Association of Geographic Information Laboratories for Europe
European Spatial Data Research Organisation
Intelligent Transport Systems & Services
Czech Association for Geoinformation
Slovak Association for Geoinformatics
Miroslav Novák, President of the Moravian-Silesian Region
Petr Kajnar, Mayor of the City of Ostrava
Ivo Vondrák, Rector of VSB – Technical University of Ostrava

GeoInformatika
spravodajský portál slovenskej a českej geokomunity
www.geoinformatika.sk

gis portal .cz

GeoCommunity
together we create a geoinformation network
www.geocommunity.eu

Programme

Monday 27th January

9:00 – 12:00: Excursion: **National Transport Information Centre ****

10:30 – 12:00: Workshop: **Floating Car Data.** (room NA3; Pavel Hrubeš)

13:00 – 13:15: **Symposium opening** (room NA1)

13:15 – 15:15: **Keynote lessons** (room NA1)
    James Haworth (University College London): *Spatio - Temporal Analytics of Network Data*
    Bin Jiang (University of Gävle): *Ht-Index for Characterizing Street Hierarchy*
    Itzhak Benenson (Tel -Aviv University): *Transport Accessibility from a Human Point of View*
    Pavel Hrubeš (Czech Technical University in Prague): *Geographic Information Systems and Applications in Intelligent Transport Systems*

15:15 – 15:45: Coffee break

15:45 – 17:15: Session **Transport modelling** (room NA2; Itzhak Benenson)
    Caha Jan, Dvorský Jiří: *Optimal path problem with possibilistic weights*
    Kolisko Pavel: *Examples of the implementation of fuzzy models in tourism in the South Moravian region*
    Benenson Itzak: *Micro-Simulation of the Car-Pedestrian Road Accidents*
    Dias Daniela et al.: *Impact of road transport on urban air quality: GIS and GPS as a support for a modelling framework*
    Dobešová Zdena, Hybner Radek: *Optimal placement of the bike rental stations and their capacities in Olomouc*

17:15 – 17:45: Coffee break

17:45 – 19:15: Session **Sensor data and services** (room NA2; James Haworth)
    Boori Mukesh, Ferraro Ralph: *Global Land Cover classification based on microwave polarization and gradient ratio (MPGR)*
    Hron Vojtěch, Halounová Lena: *Automatic generation of 3D building models from point clouds*
    Pinho Fábio, Carvalho Alexandre, Carreira Rui: *Improving Geolocation By Combining GPS With Image Analysis*
    Hübnerová Jitka: *Towards a solution for the public web-based GIS monitoring and alerting system*
    Andziulis Arunas et al.: *Investigation of sonar stabilisation method for improved seafloor image quality*

19:15 – 20:15: Welcome drink

Tuesday 28th January

9:00 – 10:30: Workshop: **Spatio-Temporal Analytics of Network Data** (room NA2; James Haworth)

10:30 – 11:00: Coffee break

11:00 – 12:00: Session **Intelligent transport systems** (room NA2; Pavel Hrubeš)
Kurowska Krystyna, Kryszk Hubert, Kietlinska Ewa: *Photovoltaics as an element of inteligent transport system development*
Feng Tao, Timmermans Harry J.P.: *Detecting spatial and tempoval route information of GPS traces*
Zajíčková Lenka: *Mobile application for acquiring geodata on public transport network*

12:00 – 13:00: Lunch

13:00 – 15:00: Session **Transport planning and accessibility** (room NA2; Bin Jiang)
Konecny Gottfried: *Status of Mapping in the World*
Ivan Igor, Horák Jiří: *Demand and supply of transport connections for commuting in the Czech Republic*
Holubec Vladimír, Halounová Lena: *Relationship between average road traffic and particular statistical indicators of urban development of cities in the Czech Republic*
Horák Jiří, Ivan Igor, Fojtík David: *Time of day dependency of public transport accessibility in the Czech Republic*
Stępniak Marcin, Rosik Piotr: *The impact of data aggregation on potential accessibility values*
Šafář Václav, Šmejkal Zdeněk: *The accuracy of digital models for road design*

15:00 – 15:30: Coffee break

15:30 – 16:30: Session **Transport planning and accessibility** (room NA2; Gottfried Konecny)
van der Waerden Petrus, Timmermans Harry, van Hove Lies: *GPS Data and Car Drivers' Parking Search Behavior in the City of Turnhout, Belgium*
Paulovičová Ivica et al.: *Urban heartbeats (Daily cycle of public transport intensity)*
Jánošíková Ľudmila, Krempl Michal: *Train platforming problem*

16:30 – 17:00: Coffee break

17:00 – 18:30: Workshop: **Axwoman: automatical generating of axial lines** (room NA2; Bin Jiang)

18:30 – 22:00: Banquet

Wednesday 29th January

9:00 – 12:00: **Sightseeing tour Ostrava** (departure from the meeting point – see map below)

10:00 – 12:00: Workshop: **Application of satellite InSAR for monitoring highway deformations** (room J423, Milan Lazecký)

10:30 – 11:00: Coffee break

12:00 – 15:00: Excursion: **Airport Ostrava-Mošnov** (aircraft and helicopter flight simulators, aircraft repair centre)

12:30 – 13:00: **Symposium GIS Ostrava 2014 closing ceremony** (room NA1)

1: New Hall (NA1, NA2, NA3, NA4, NA5)

2: Rooms J423, J424, J339, J259

3: HOTEL

4: Parking - meeting point (Bus for excursion leaves from this place)

http://gis.vsb.cz/gisostrava/

New Hall of VSB – TUO, 17. listopadu 15, Ostrava-Poruba, Czech Republic, EU
Latitude: 49.830775° N Longitude: 18.162951° E