



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

AGILE



Geoinformatics for City Transformation

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

January 21 - 23, 2013

Keynote lessons

Prof. Paul Longley (University College London, GB) - Twelve years of
Geographic Information Systems and Science

Prof. Dieter Fritsch (Universität Stuttgart, DE) - 3D City Transformations

Dr. Kiril Stanilov (Cambridge University, GB) - The challenges facing Eastern
and Central European cities in the beginning of the 21st century

List of papers

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Cities are significantly influenced by various global, national and regional forces and they must act to adapt to these movements and to maintain their position. Various transformations of cities require efficient methods and tools which geoinformatics can offer. This conference provides a place to present the current progress of geoinformatics which allow us to study problems and issues of cities which were impossible to deal with only a few years or decades ago. The aim of the conference is to present and discuss new methods, issues and challenges of the geoinformatics encountered in various parts of the cities transformations and how urban geographers and city planners can exploit all achievements in geoinformatics to face the current utilisation of geoinformatics dealing with various problems of the city. Currently 21 papers were accepted by the reviewers from almost 40 submitted papers for the presentation at the GIS Ostrava 2013 Conference. They are focused on data and methods of remote sensing, present interesting projects being realised in various European cities and also elsewhere in the world. Very popular topics of accepted papers are the urban transportation and problems related mainly to the public transport and other issues related to the city development.

Under auspices of

Association of Geographic Information Laboratories for Europe
International Society for Photogrammetry and Remote Sensing
European Spatial Data Research Organisation
Czech Association for Geoinformation
Slovak Association for Geoinformatics
President of the Moravian-Silesian Region
Ing. Petr Kajnar, Mayor of the City of Ostrava
Prof. Ivo Vondrák, Rector of VSB – TU Ostrava
Prof. Vladimír Slivka, dr.h.c., Dean of FMG VSB – TU Ostrava

Programme committee

Igor Ivan (VŠB-Technical University of Ostrava, CZ) - chairman
Jonathan Bannister (University of Glasgow, GB)
Spencer Chainey (University College London, GB)
James Cheshire (University College London, GB)
Martin Dijst (Utrecht University, NL)
Stewart Fotheringham (School of Geography and Geosciences, GB)
Dieter Fritsch (Universität Stuttgart, DE)
Jaroslav Hofierka (University of Presov in Presov, SK)
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Paul Longley (University College London, GB)
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Petr Rumpel (University of Ostrava, CZ)
Andrii A. Sholomytskyi (Donetsk National Technical University, UK)
Alex Singleton (Liverpool University, GB)
Kiril Stanilov (Cambridge University, GB)
Luděk Sýkora (Charles University in Prague, CZ)
Grant Thrall (President, American Real Estate Society; University of Florida, USA)
Vít Voženílek (Palacky University in Olomouc, CZ)
David W. Wong (George Mason University, USA)
Sisi Zlatanova (TU Delft, NL)

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List of papers

Assesing similarities between planned and observed land use maps: The Belgade´s municipalities case study

Building extraction using surface model classification

Comparison of 3D construction vizualization methods to provide visual support in GIS environment for the construction project

Dasymetric mapping as an analytical tool for the city development identification and its cartographic visualization

Deformation monitoring with semi-automatic processing of insar artificial reflector data

Evaluating land use cover change in rapidly urbanizing Nigeria: case study of Yola, Adamawa state

Indicator-based environmental assessment of spatial planning and polices with use of CommunityViz

Interferometric determination of subsidences in Prague city (preliminary study)

Land-use suitability analysis of Belgrade city suburbs using machine learning algorithm

‘Lean´ public participation GIS: towards a sustainable tool for participatory urban planning

Localized housing market outcomes and sustainable development in a CEE regional city - the case of Szeged (Hungary)

Multi-level object-based urban mapping from remote sensing and GIS data

Pedestrian network design and optimisation based on pedestrian shortcuts and needs

Pilot system for transport confirmation with location awareness

Remote sensing and field studeis to evaluate the performance of groynes in protecting an eroding stretch of the coastal city of Chennai

The benefit of fuzzy logic to protection of cultural and historical heritage

The Bratislava public transport in network analysis

The sensor city initiative: cognitive sensors for soundscape transformations

The use of viewshed analysis in creation of maps of potential visual exposure

Using virtual 3-D city models in temporal analysis of urban transformation

Registration fees

Early registration (before 21. 12. 2012)	140 EUR
Late registration (after 21. 12. 2012)	160 EUR
Authors (one/paper, before 21. 12. 2012)	100 EUR
Full-time students	50 EUR
Workshop	50 EUR
Printed proceedings (including shipping)	25 EUR
Excursion	10 EUR
Participation at sessions of conference	
"Geoinformatika pro společnost" *	0 EUR

Discount for members of
AGILE, CAGI, SAGI, ISPRS, EuroSDR
-10 EUR/person

The registration fee covers conference
attendance, electronic proceedings,
coffee breaks, lunch and banquet.

** Valid only with registration to the conference
Geoinformatics for City Transformations*

Preliminary programme

21.1.	9:00 - 12:00	• Workshop Introduction into Oracle Locator
	9:00 - 12:00	• Excursion National Transport Information and Control Centre **
	10:00 - 12:00	• Workshop GEODIS: Data mining. (It's not about coal) **
	13:00 - 13:15	• Symposium opening
	13:15 - 14:45	• Keynote lessons
	15:00 - 19:00	• Sessions
	19:00 - 21:00	• Welcome drinks
22.1.	9:00 - 12:00	• Sessions
	12:00 - 13:00	• Light lunch
	13:00 - 16:30	• Sessions
	16:30 - 19:00	• Workshop Prof. Paul Longley
	19:00 - 23:00	• Banquet and Poster Award Ceremony
23.1.	9:00 - 13:00	• Sightseeing tour
	9:30 - 11:00	• Workshop Dr. James Cheshire
	13:00 - 13:30	• Symposium closing
	10:00 - 15:00	• Workshop ARCDATA PRAHA **
	12:00 - 15:00	• Excursion Integrated Emergency Centre **
	13:00 - 16:00	• Workshop Analysis of crime using CrimeStat

** in Czech

Workshops

- * The international spatial distribution of surnames (Prof. Paul Longley, University College London)
- * Analyses of crime using CrimeStat (Ing. Igor Ivan, Ph.D., Technical University of Ostrava)
- * Sensing the City: Mapping and Analysing London's Population Data Flows (Dr. James Cheshire, University College London)
- * Introduction into Oracle Locator (Dr. Karel Janečka, ZČU)
- * Workshop ARCDATA Praha, in Czech
- * GEODIS: Data mining. (It's not about coal), in Czech

Excursions

- * Sightseeing tour Ostrava (i.e. industrial heritage and architecture, new city centre);
Wednesday 9:00 - 13:00, in English
- * Integrated Emergency Centre; Wednesday 12:00 - 15:00, in Czech
- * National Transport Information and Control Centre; Monday 9:00 - 12:00, in Czech

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Evening party

Welcome drink will be held on January 21st, 2013 in New Hall of VSB – TUO.

The evening party with banquet will be held on January 22nd, 2013 in New Hall of VSB – TUO.

Language

English.

Venue

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

Latitude: 49.830775° N Longitude: 18.162951° E

Important days

December 16, 2012 deadline for final versions of papers

December 21, 2012 deadline for early registration (discounted fees)

January 21-23, 2013 symposium days

Address

GIS Ostrava 2013

Institute of Geoinformatics

VSB– Technical University of Ostrava

17. listopadu 15

708 33 Ostrava-Poruba

Czech Republic

<http://gis.vsb.cz/gisostrava/>
gisostrava@vsb.cz

Secretariat

Tomáš Inspektor

Email: gisostrava@vsb.cz

Tel.: +420 597 323 543

Fax: +420 596 918 589

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

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