### Detailed program

**Opening Reception, Tuesday 12. June, 18:00-20:00**
Sölvégatan 12
O’Learys, Klostergatan 14B

**Welcome, Wednesday 13. June, 9:00-9:30**
Ali Mansourian, Petter Pilegjö
Sven Lidin, Dean, Faculty of Science
Room: Aula LUX - Rm. C116

**Keynote Speaker, Wednesday 13. June, 9:30-10:30**
Geotechnologies for All: Leaving All for Last
Prof. Sara Fabrikanikt
Room: Aula
LUX - Rm. C116

**Panel Discussion, Wednesday 13. June, 11:00-12:00**
Conceptualizing a Geospatial Software Institute (GSI)
Mike Goodchild, Mike Gould, Marinos Kavouras, Martin Raubal, Monika Sester, Shaowen Wang
The impact of different statistical parameter values between point based datasets when assessing spatial relationships (SP)
Theo Westerholt
Room: Aula
LUX - Rm. C116


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<th>1a Analysis of Big Spatial Data</th>
<th>Chair: Lars Bernard</th>
<th>Room: Värden</th>
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<td>Modelling massive AIS streams with quad trees and Gaussian Mixtures (SP)</td>
<td>Bin Jiang</td>
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<td>Anita Grazer, Peter Widhalm</td>
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<td>Rene Westerholt</td>
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<td>Cross-checking user activities in multiple geo-social media networks (SP)</td>
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<td>Geocoding of Crisis Related Social Media Messages for Assessing Voluntary Help Efforts as a Contribution to Situational Awareness (SP)</td>
<td>Sebastian Drost, Andreas Wytzisk, Albert Remke</td>
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<td>Application of open hydro-meteorological data for web-based analysis and processing (SP)</td>
<td>Stefan Wiemann</td>
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<td>Running a Spatial Data Infrastructure for Interdisciplinary Research - How we did it &amp; what we learned so far (SP)</td>
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<th>1e Spatiotemporal Modelling and Analysis</th>
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<td>Development of System for Real-time Collection, Sharing, and Use of Disaster Information (FP)</td>
<td>Toshihiro Osaragi, Iki Nawa</td>
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<td>Spatial Patterns for Crime Spots (SP)</td>
<td>Emmanuel Papadakis, Alina Ristea</td>
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<td>Towards Spatial Knowledge Infrastructure (SKI): Technological Understanding (SP)</td>
<td>Ara Toomanian, Morteza Omidipoor, Najme Neysi Samani</td>
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<td>Mental representation of space in Agent Based Models for pedestrian movement in urban environments: A conceptual model (SP)</td>
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<td>Automated Enrichment of Routing Instructions (SP)</td>
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<td>Simulating multiple land use changes by incorporating deep belief network into cellular automata: a case study in Beijing-Tianjin-Hebei region, China (SP)</td>
<td>Cong Du, Jianyu Yang, Zhenrong Du, Pengshan Li, Dehai Zhu</td>
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<td>A spatial analysis of how measures of landscape wilderness correlate with crowdsourced perceptions of scenicness (SP)</td>
<td>Yr-Min Chang Chien, Alexis Comber, Steve Carver</td>
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<td>Efficient Geostatistical Simulation for Spatial Uncertainty Propagation (SP)</td>
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<td>Geospatial behavior of pollinators (SP)</td>
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2e Spatial data infrastructure

Mapping the landscape of Open Geodata (SP)
Matthias Hinz, Ralf Bill

Prospect of Open SDI in Developing Countries Case Study: Indonesia
Agung Indrajit, Bastiaan van Loenen, Peter van Oosterom

The Need of a High Resolution European Spatial Data Infrastructure for Unmanned Aerial System Mission Planning & Risk Assessment (SP)
Gernot Paulus, Karl-Heinrich Anders, Daria Strelnikova, Tamara Preuschning, Kurt A. Wagner

Societal costs and benefits of high-value open government data: a case study in the Netherlands (SP)
Frederik Welle Donker, Bastiaan van Loenen

Chair: Ali Mansourian
Room: Baltica
GC2 - Rm. 237

2f Spatiotemporal Data Acquisition, Modelling, and Analysis

Kernel Density Estimation (KDE) vs. Hot-Spot Analysis - Detecting Criminal Hot Spots in the City of San Francisco (SP)
Maja Kalinic, Jukka M. Kirsip

Tradition as a Spatiotemporal Process – The Case of Swedish Folk Music (SP)
Franz-Benjamin Mocnik

Spatiotemporal analysis and scenario’s simulation of agricultural land use land cover using GIS and a Markov chain model (SP)
Claudia M. Viana, Jorge Rocha

A time-varying p-modal model for location-allocation analysis (SP)
Shahin Sharifi Noorian, Achilles Polylidis, Alessandro Bozzon

Chair: Michael Gould
Room: Hydrosfären
GC1 - Rm. 108

3b Spatiotemporal Data Modelling and Data Mining

An Online Top-Down Algorithm with Free Distance Parameter for Mining Top-k Flock Patterns (FP)
Denis Sanches, Luis Alvares, Vania Bogomny, Marcos Vieira, Daniel Kaster

A Personalized Location-based and Serendipity-oriented Point of Interest Recommender Based on Behavioral Patterns (FP)
Majdi Farmaghi, Samira Khoshehval, Mohammmad Taleaie, Ali Mansourian

Geostatistical Detection of Thermodynamic Anisotropy in an Atmospheric Boundary Layer Using Small Unmanned Aircraft Systems (SP)
Benjamin Hemingway, Amy Frazier

Training SegNet for Cropland Classification of High Resolution Remote Sensing Images (SP)
Zhenrong Du, Jinyang Yang, Weiming Huang, Cong Ou

Estimation of Root Systems using Satellite Remote Sensing (SP)
Hanna Ekström, Malin Ahlbäck, Maya Ahlgren, Malin Hansson, Iris Mužić, Nike Rosenström, Franziska Weichert, Petter Pilesjö

Chair: Timothée Proudi, Jens Ingensand
Room: Pangea
GC2 - Rm. 229

3c Earth Observation Systems: Algorithms and Applications

Real-time predictions of pesticide runoff risk: linking multi-scale runoff models and weather data APIs to improve water quality (SP)
Alexis Comber, Adrian Collins, David Haro, Tim Hess, Andy Smith, Andy Turner, Yusheng Zhang

The effect of geographical distance on community detection in flow networks (SP)
Sebastijan Sekulić, Uroš Dežman, Ildo Long

Combining Agent Based Modelling and Role Play to develop sustainable shrimp farming (SP)
Arend Ligtenberg, Roel Bosman, Romina Rodela, Tri Van Pham Dang, Hiep Tong Quoc, Ha Tran Thi Phung, Phuong Nguyen Thi Huynh, Arnold Bretg

Chair: Jens Ingensand
Room: Rodinia
GC2 - Rm. 243

3e Disaster and Risk Management

Information Value Model based Landslide Susceptibility Mapping at Phuenthoshiling, Bhutan (SP)
Sangye Pasang, Petr Kubíček

A Platform for Coordinating Voluntary Helpers in Disaster Response (SP)
Sebastian Drost, Matthys Riekje, Simon Jirka, Hans Betke

Spatially Explicit Sensitivity and Uncertainty Analysis for the landslide risk assessment of the Gas Pipeline Networks (SP)
Omid Ghorbanzadeh, Bakhtiar Feizizadeh, Thomas Blaschke, Rasa Khosraei

Chair: Phaedon Kyriakidis
Room: Baltica
GC2 - Rm. 237

Poster Session, Wednesday 13. June, 17:00-18:00

Keynote Speaker, Thursday 14. June, 9:00-10:00
Taming complexity: Dynamics in Geographic Information Systems
Prof. Terry Dawson
Room: Aula
LUX - Rm. C116

AGILE Annual Meeting, Thursday 14. June, 10:00-11:00

AGILE council
Room: Aula LUX - Rm. C116


4a OpenStreetMap

Land-use characterisation using Google Street View pictures and OpenStreetMap (SP)
Shivangi Srivastava, Devis Tuia, Sylvain Lobry, John Edgar Vargas Muñoz

The Effect of Plate Tectonics on OpenStreetMap Data (SP)
Franz-Benjamin Mocnik, Martin Raifer

Analysis of the introduction of a review request mechanism in OSM (SP)
Nikola Davidovic, Peter Mooney and Leonid Stoimenov

Investigating gender differences in OpenStreetMap activities in Malawi: a small case-study (SP)
Zoe Gardner, Peter Mooney

Chair: Alexis Comber
Room: Pangea
GC2 - Rm. 229

4b Spatiotemporal Data Modelling and Data Mining

Identifying and Interpreting Clusters of Persons with Similar Mobility Behaviour Change Processes (FP)
David Jonietz, Dominik Bucher, Henry Martin and Martin Raubal

Patterns of consumption and connectedness in GIS Web sources (FP)
Andrea Ballatore, Simon Scheider, Rob Lemmens

A Framework for the Management of Deformable Moving Objects (FP)
José Duarte, Paulo Dias, José Moreira

Chair: Alexs Comber
Room: Pangea
GC2 - Rm. 229

4c GISScience Education

Brain Drain or Brain Gain? Insights from an Erasmus Mundus Masters Program (SP)
Christoph Brox, Sven Castelenvy, Christian Kray, Marco Painho, Joaquín Herrero, Werner Kuhn

Harmonizing GIS Education South - North Lessons learnt from Mozambique, Rwanda, Sweden, and Uganda (SP)
Petter Pilesjö, Ali Mansourian, Andrey Shindyapin, Antonio Alfredo Assane, Ernesto Lenathe Muheca, Gaspard Rwanyiziri, John Mugisha, Yazidi Hamutazie, Bob Makiele, Gilbert Maiga, Lydia Mazi Kayondo

Augmented reality technologies for biodiversity education – a case study (SP)
Maryam Lotfian, Jens Ingensand, Sarah Composto, Olivier Erts, Mathias Oberson, Simon Oulevay, David Piot

The Living Textbook: Towards a new way of Teaching Geo-Science (SP)
Ellen-Wien Augustijn, Rob Lemmens, Marie-Jose Verkroost, Stanislav Ronzhin

Chair: Karin Larsson
Room: Atmosfären
GC2 - Rm. 209

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4d Data quality and spatial analyses

A positional quality control test based on proportions (FP)
Francisco Javier Ariza-López, José Rodríguez Avi, María Virtudes Alba Fernández

Evaluating spatial data acquisition and interpolation strategies for river bathymetries (FP)
Robert Krüger, Pierre Karrasch, Lars Bernard

Optimization and Evaluation of a High Performance Open-Source Map-Matching Implementation (FP)
Karl Rehrl, Simon Gröchenig, Michael Wimmer

Chair: Tiina Sarjakoski
Room: Rodinia
GC2 - Rm. 243

4e Health GIS and Spatial Epidemiology

Using socio-economic wellbeing to predict geospatial epidemic intensity in a developing country setting (SP)
Sanya Rahman, Ernest Mwebeza

Integrated location-allocation of private car and public transport users – Primary health care facility allocation in Oulu region in Finland (SP)
Ossi Kotavaara, Timo Pohjoxenperä, Jarmo Rusanen

A preliminary study design for collecting reference data set for physical activity type classification (SP)
Abd Allah Abdhaksh, Haosheng Huang, Robert Weibel

Spatial Data Infrastructure Using Mobile GIS and Web service technologies for Public Health Management (SP)
Rose Nakasi, Augustus Aturinde, Aminah Zawedde, Ernest Mwebeza, Gilbert Maiga

Chair: Ara Toomanain
Room: Baltica
GC2 - Rm. 237

4f Environmental/Ecological and Urban/Regional Modelling

Collaboration among three automated calibration methods for cellular automata land use change model: GA, PSO, and MCMC (SP)
Ahmed Mustafa, Ismail Saadi, Amr Ebad, Mario Cools, Jacques Teller

An improved European land use/cover map derived by data integration (SP)
Konstantinos Rosina, Sergio Freire, Marcello Schiavina

The need for county masks for future national greenhouse gas flux estimations (SP)
Lars Harrie, Ute Karstens, Huiting Huang

Chair: Fredrik Lindberg
Room: Hydrofären
GC1 - Rm. 108

5a Smart cities

Mapping cyclists’ routes: involving citizens in collecting open cycling data (SP)
Diego Pajarito, Suzanne Maas, Maria Attard, Michael Gould

Establishing Open Data Portals in the Process of Becoming Smart Cities (SP)
Lars Bodum

CityGML based Non-photorealistic Visualization Framework for Energy Simulation (SP)
Bo Mao, Yifang Ban, Björn Laumert

Do people develop activities at places in which citizens have a sense of place? (SP)
Albert Acero, Fernando Santa, Marco Painho, Roberto Henriques

Chair: David Tenebaum
Room: Värddlen
GC1 - Rm. 111

5b Natural Resource Management and Earth Observation

Mapping and Monitoring of Mangroves and Vulnerable Islands in World Heritage Site of Sundarban, India (FP)
Biswajit Mondal, Ashis Kumar Saha

An Artificial Stream Network and Its Application on Exploring The Effect of DEM Resolution on Hydrological Parameters (FP)
Haicheng Liu

Interpolation of rainfall through polynomial regression in the Marche Region (Central Italy) (FP)
Thibaud Chassin, Jens Ingensand, Florent Joerin

Chair: Ron van Lammeren
Room: Pangea
GC2 - Rm. 229

5c Cognitive Aspects of Human-Computer Interaction for GIS

Visualizing The Semantic Similarity of Geographic Features (SP)
Gengchen Mai, Krzysztof Janowicz, Sathya Prasad, Bo Yan

Sketch maps and verbal descriptions in structuring space (SP)
Jia Wang, Rui Li

Towards the use of a 3D virtual globe to support public participatory decision making (SP)
Thomas Heinz, Christopher Schleder

A Pattern-based Framework for Designing Location-based Games (SP)

Chair: Kai-Florian Richter
Room: Atmosfären
GC2 - Rm. 209

5d Urban Modelling

Geographic patterns of Annual Average Daily Traffic in Mallorca (SP)
Christian Esteva Burgos, Maurici Ruiz, Cristian Esteva, Joana Maria Segui

Integrating rule-based approach and urban density index for improving object-based urban land cover classification using WorldView-2 Data (SP)
Theodrim Mupiraneza, Yifang Ban, Andrea Nascetti, Jan Haas

From place of residence to place of activity: towards spatiotemporal mapping of population density in Europé (SP)
Filipe Batista e Silva, Konstantinos Rosina, Marcello Schiavina, Mario Marin, Sergio Freire, Lukasz Ziembba, Massimo Craglia, Carlo Lavalle

Experiences of Event Visitors in Time and Space: GPS Tracking at Dutch Design Week (SP)

Chair: Andreas Persson
Room: Rodinia
GC2 - Rm. 243

5e Integration and modeling of geospatial data

Generic Schema Descriptions for Comma-Separated Values Files of Environmental Data (SP)
Stephan Märs, Daniel Henzen, Lars Bernard, Simon Jirka, Matthias Müller, Ivo Senner

Multiple Representation for Geospatial Linked Data (SP)
Weiming Huang, Eldur Edlsson and Lars Harrie

An Abstract Specification Technique for the Publication of Linked Geospatial Data (SP)
Gilles Falquet, Claudine Metral, Sylvain Ozaine, Gregory Giuliani

Topological Reconstruction of 3D City Models with preservation of semantics (SP)
Stelios Vitalis, Jantien Stoter, Ken Arroyo Ohori

Chair: Jan-Henrik Haunert
Room: Baltica
GC2 - Rm. 243

Poster Session, Thursday 14. June, 16:30-18:00

Keynote Speakers, Friday 15. June, 9:00-10:00

Torsten Hagerstrand and the Landscape Context of Time Geography
Prof. Tomas Gernundsson

Geodata for the Future Information Management of the Built Up Environment
Prof. Ronny Anderson

Room: Aula
LUX - Rm. C116
Friday 15. June, 10:00-11:00
6 Best short paper session
Exploring microtoponyms through linguistic and geographic perspectives (SP)
Julia Villette, Ross S. Purves

Opinion mining from Twitter and spatial crime distribution for hockey events in Vancouver (SP)
Alina Ristea, Michael Leitner, Martin Andresen

Sponsor: 5Visualizer - Your Absolute 3d Creation Toolset
Misa Iric, Complete 3d

Friday 15. June, 11:30-13:00
7 Best full paper session
PLANTING: Computing High Spatio-Temporal Resolutions of Photovoltaic Potential of 3D City Models (FP)
Syed Monjur Mursched, Amy Lindsay, Solène Picard, Alexander Simons

Animation as a Visual Indicator of Positional Uncertainty in Geographic Information (FP)
Carsten Kelßler, Enid Lotstein

Mixed Traffic Trajectory Prediction Using LSTM-Based Models in Shared Space (FP)
Hao Cheng, Monika Sester

Posters, 13. June, 16:00-18:00, 14. June, 16:30-18:00
Fractal or scaling analysis of geographic forms and their nonlinearity
Ding Ma

GIS in Action: Conservation Priority Evaluation at District and Village Levels in Laos
Mui-How Phua, Su Wah Hue, Alexius Korom, Vongphet Sihapanya

Spatial estimation of municipal household wastes by integrating multiple geographical big data and social survey
Yaoqian Liu, Bin Meng, Juan Wang

Methods for comparing two observed confusion matrices
José Rodríguez-Aví, Francisco Javier Ariza López, María Virtudes Alba-Fernández

Vesta: a spatial energy model for heat supply in the built environment in the Netherlands
Sebastiaan van Bemmel, Ruud van den Wijngaart, Steven van Polen

Distributed generation of image pyramids for web map services
Daniel Eggert, Mike Sips, Doris Dransch

Promoting Walking and Cycling through a Dashboard Interface
Mark Dimond, David Golightly, Nancy Hughes, Sarah Shaples, Emma Taylor

A Real-time GIS to Improve the Survival of Sudden Cardiac Arrest Outside Hospitals
Bo Mao, Yifang Ban

Simulating urban dynamics from the bottom up: the City Simulation Lab
Erika Speelman, Arend Lijtenberg

Suitability maps for tropical plants based on solar irradiation - a decision support tool for botanic gardens
Paula Redweik, Maria-Cristina Duarte

Designing a Geospatial Technologies-Enabled Eastern Mediterranean Science, Engineering and Technology Centre of Excellence for Archaeology and Cultural Heritage
Phaedon Kyriakidis, Athos Agapiou, Vasiliki Lysandrou

The deployment of a generic user-oriented participatory sensing framework in a real-world context
Sven Casteleyn, Manh Khoi Ngo

Spatiotemporal predation patterns of insect herbivores in Subarctic
Karolina Pantazatou, Daniel B. Metcalfe, Jeppe Å. Kristensen

A Comparison study of Multi-objective Optimization for GIS-based resources allocation problem in Disaster management
Olive Niyomubeyi

3D Virtual Campus - FCUL: an integrated system for university services management
Cristina Catita, Luiz Coutinho, Hugo Miranda

An Assessment of spatial dimensions of police-reported crime and sub-regional characteristics in Akwa Ibom state, Nigeria
Eliah A Njoku, Patrick Etim Akpan, Udauk Okon Jeremiah

Spatial Vision Analysis of Non Spatial Data
Rui Xin, Tinghua Ai, Min Yang

Coping with urban floods: a special decision-support system to improve resilience
Charlotte Heintzlef, Vincent Becue, Damien Serre

Mapping of Prevalence of Nodding Syndrome and Associated Epilepsy Reporting in Uganda: Spatial – Temporal Approach
Onyaga Kizito, Paul Seemalulu, Benedict Oyo, Gilbert Maiga

A Comparison of Spatial Aggregation Methods for the Derivation of Proportional Symbol Maps
Dirk Burghardt, Mathias Gröbe

Geographic information and communication technologies for supporting smallholder agriculture
Billy Tusker Haworth, Eloise Biggs, John Duncan, Nathan Wales, Bryan Boruff, Eleanor Bruce

Community Mapping for Flood Resilience
Mslikale Msiilanga

VGI users & data centered methods for the analysis of farmland biodiversity indicators open issues
Aurélien Besnard, Elodie Edoh-Alove, Ali Hassan, Karine Prince, Amir Sakka, Pascale Zarate

The role of environmental characteristics for drainage network delineation
Yanzi Yan, William Lidberg, Petter Pilesjö