

ICA European Symposium on CARTOGRAPHY



VIENNA, 10–12 NOVEMBER 2015

Tuesday, 10 Nov 2015

9:00 **Conference Opening** Vice Rector Kurt Matyas and Georg Gartner

9:15 **KEYNOTE: Cartography Today** Menno-Jan Kraak

9:30–19:00 Boecklsaal

Poster Session 1

9:45–10:30 Chair: Georg Gartner

Cartographic Modelling and Design 1

Design Guidelines for Pictographic Symbols: Evidence from Symbols Designed by Students

Jari Korpi and Paula Ahonen-Rainio

Dynamic Cartography: Map–Animation Concepts for Point Features

Andrea Nass and Stephan van Gassel

Experiments with New and Modified Thematic Map Types

Kenneth Field

☕ 30 minutes coffee break

11:00–12:30 Chair: Menno-Jan Kraak

Cartographic Modelling and Design 2

Atlas of Switzerland Goes Online and 3D – Concept, Architecture and Visualization Methods

René Sieber, Marianna Serebryakova, Raimund Schnürer and Lorenz Hurni

A Displacement Method for Maps Showing Dense Sets of Points of Interest

Sarah Tauscher and Karl Neumann

Semantic Representation of Topographic Data for Cartographic Presentation and Application

E. Lynn Usery

Designing Usable Sequential Color Schemes for Geovisualizations

Alžběta Brychtová and Jitka Doležalová

Combining Two Datasets into a Single Map Animation

Salla Multimäki, Antti Mäkilä, Jari Korpi and Paula Ahonen-Rainio

Preserving Attribute Value Differences of Neighboring Regions in Classified Choropleth Maps

Jochen Schiewe

🍴 75 minutes lunch break

Lunch is not included, but there are many food options in walking distance.
Recommendations can be found at bit.ly/1zx4n9

📶 Please find your wifi login on the back of your name badge

13:45–15:15 Chair: Jochen Schiewe

Spatial Analysis and Geovisual Analytics

Spatial-Temporal Modeling of Linguistic Regions and Processes with Combined Indeterminate and Crisp Boundaries

Johannes Scholz, Thomas J. Lampoltshammer, Norbert Bartelme and Eveline Wandl-Vogt

Structuring Relations Between User Tasks and Interactive Tasks using a Visual Problem-Solving Approach

Qiuju Zhang, Menno-Jan Kraak and Connie A. Blok

The Wheel of Design – Usability Driven Improvements to the GeoViTe User Interface

Ionut Iosifescu Enescu, Raluca Nicola, Benjamin Kellenberger, Cristina Iosifescu Enescu, Roman Walt, Meda Hotea, Arlette Piguet and Lorenz Hurni

Visual Analysis of Floating Taxi Data based on Selection Areas

Andreas Keler and Jukka M. Krisp

The Graphical Attractiveness and Perceived Effectiveness of Cartographic Presentations of Spatio-temporal Accessibility

Lukasz Wielebski

Optimisation of Global Grids for High-resolution Remote Sensing Data

Bernhard Bauer-Marschallinger, Daniel Sabel and Wolfgang Wagner

☕ 30 minutes coffee break

15:45–17:15 Chair: Haosheng Huang

Cartographic Technologies 1

Towards Mapping Experience Design for the Internet of Things

M. T. Manrique, M. Wachowicz, T. Iturrioz and M. A. Manso

Intersection of Geospatial Big Data, Geocomputation and Cloud Computing

Pouria Amirian, Anahid Basiri, Francois Van Loggerenberg, Terry Moore, Trudie Lang and Margaret Varga

The Role of Service-Oriented Mapping in Spatial and Regional Sciences

Markus Jobst and Tatjana Fischer

ELF Basemap – Offering a European Reference Map Service

Anja Hopfstock, Dominique Laurent and Thomas van Ellett Braasch

Towards Cartographic Portrayal Interoperability – The Revision of OGC Symbology Encoding Standard

Erwan Bocher and Olivier Ertz

Web-based Interface Development for 3D Geo-spatial Data Visualisation – An Open-source and Plug-in Free Approach

Akila Sriramulu, Jochen Wendel, Syed Monjur Murshed and Alexandru Nichersu

☕ 15 minutes refreshment break

17:30–18:30 Chair: Evangelos Livieratos

Cartographic Applications 1

Who Needs Mitteleuropa Old Maps? Present-day Applications of Habsburgic Cartographic Heritage

Marco Mastrorunzio and Elena Dai Pra

Geomatic Methods Supporting the Investigation of Ancient History

Mark Vetter and Boris Dreyer

Hybrid Approach for Large-scale Energy Performance Estimation based on 3D City Model Data and Typological Classification

Federico Prandi, Umberto Di Staso, Marco Berti, Luca Giovannini, Piergiorgio Cipriano and Raffaele De Amicis

The Role of Visual Representations in Urban Planning

Burcu Akinci

🍷 Join our icebreaker party

9:30–19:00 Boecklsaal

Tuesday: Poster Session 1

The Complexity of Cartographic Presentation Types

Jolanta Korycka-Skorupa and Tomasz Nowacki

Impact of Attentional Issues on Map Use Performance

Andrea Pödör and József Halász

Advanced CityGML Visualization in 3D Environment

Mateusz Ilba

Designing an User-centric Academic SDI

Adriana Alexandria Machado and Silvana Philippi Camboim

Graphical-statistical Atlas of Switzerland 1914–2014

Thomas Schulz

The EuroCarto Heritage

Marek Baranowski

The Use of Methods of Cartography and GIS Tools in Cultural Anthropology Research: Pilot Study in Localities Yawan and Toweth (Papua New Guinea)

Jan D. Bláha and Martin Soukup

Anthropogenic Influence Mapping in Protected Areas: A Case Study from Bucegi Natural Park, Romanian Carpathians

Bogdan Olariu

Licenses and Open Data in Cartography

Alena Vondrakova and Vit Vozenilek

Enhancing Urban Planning Processes with Web-based Open Source Geotechnology

Alice Rühl

Building GIS Database for Web Atlas of Tay Nguyen Region in Vietnam

Nguyen Cam Van, Le thi Kim Thoa, Nguyen Dinh Ky, Nguyen Truong Xuan and Nguyen Manh Ha

Proposal for an Update of the Bulgarian Graphical Sign Database Used for Cadastral Plans of Settlements and Land Plots – for Scales of 1:1000 and 1:500

Zorica Milkova and Maya Mishkova

ATLAS OF URBAN ACTORS – A Co-Laboratory in Public Space

Antje Lehn and Johanna Reiner

basemap.at – Austrian OGD basemap

Wolfgang Jörg and Robert Saul

Results of the Barbara Petchenik Children's World Map Drawing Competition

José Jesús Reyes Nuñez

Wednesday, 11 Nov 2015

🕒 9:00–18:30 📍 Boecklsaal

Poster Session 2

🕒 9:00–10:30 🧑 Chair: László Zentai

Cartographic Heritage

A Forgotten Atlas of Erwin Raisz: "Atlas de Cuba"

José Jesús Reyes Nunez

The Matteo Ricci 1602 Chinese Word Map: the Ptolemaean Echoes

Evangelos Livieratos

The Integrative Interpretation of Old Maps and Other Source of Spatial Information for Researching and Presenting Phenomena from Economic History

Dariusz Lorek

Iconographic Sources of Swedish Campaign in 1647 in a Multidisciplinary Research

Tomas Janata and Ruzena Zimova

Touch the Map and Take a Historic Walk: Reviving Cartographic Heritage in the Danube Museum

Zsolt G. Török, Domonkos Hillier and Ádám Bérces

Digitising (Historical) Patterns of Power

Markus Breier, Karel Kriz and Alexander Pucher

☕ 30 minutes coffee break

🕒 11:00–12:30 🧑 Chair: Markus Jobst

Cartographic Modelling and Design 3

Everyone Needs a Map! – Evolving Information Society to Provide Insight from Big Data

Sergio Estella and Jamie Gibson

Application of Conceptual Model in Thematic Mapping: Representation of Relationships

Giedrė Beconytė

The Multiperspective Visualisation of the Spatial Behaviour of Smartphone Users

Beata Medynska-Gulij, Łukasz Halik, Łukasz Wielebski and Frank Dickmann

New National Maps for Switzerland

Dominik Käuferle, Christoph Streit and Olaf Forte

Challenging Cartography in ArcGIS from Esri Switzerland (Part 1)

Anna Vetter

Challenging Cartography in ArcGIS from Esri Switzerland (Part 2)

Mark Wigley

🍽️ 75 minutes lunch break

🕒 13:45–15:15 🧑 Chair: Mark Vetter

Cartographic Technologies 2

Towards Better Urban Travel Time Estimates Using Street Network Centrality

Anita Graser, Maximilian Leodolter and Hannes Koller

User Requirements Analysis for a Mobile Augmented Reality Application Supporting Geography Fieldwork

Xiaoling Wang, Corné P.J.M. van Elzakker and Menno-Jan Kraak

Contextual Adaptability of Navigational Spatial Descriptions: A Pragmatic Comparison

Farid Karimipour, Negar Alinaghi, Paul Weiser and Andrew Frank

Interoperable Volunteered Geographic Information Empowering E-governance Processes: Case Study for Land Use Dataset in the City of Zagreb

Tomas Kliment, Vlado Cetl and Marcel Kliment

Use of Paid Crowdsourcing for the Collection of Geodata

Volker Walter, Dominik Laupheimer and Dieter Fritsch

Mapping a City's Activity. A Project of Volunteered Geographic Information using Mobile Mapping Collection

Giuseppe Borruso and Viola Defend

☕ 30 minutes coffee break

🕒 15:45–17:15 🧑 Chair: Marek Baranowski

Cartographic Application 2

The Cartographic Visualizations of the Population Movements during Mass Events with the Use of Drone (UAV)

Łukasz Halik, Beata Medyńska-Gulij and Maciej Smaczyński

Sample of Map Representation of Land Cover Changes in Two and Three Time Horizons

Jan Feranec and Tomas Soukup

Modern Methodology for Planetary Mapping

Irina Karachevtseva, Alexander Kokhanov, Zhanna Rodionova, A.Yu Zharkova, Anatoly Zubarev, Andrey Garov, Evgeny Matveev and Jürgen Oberst

Mapping Opportunities for Enhancing Effectiveness of Health Care System by GIS based Accessibility Analyses: Locating Core and Support Services within Long Distances in Northern Finland

Ossi Kotavaara, Tommi Hakkarainen, Tiina Huotari, Timo Keistinen and Jarmo Rusanen

Requirements Survey and Documentation of a Geoinformation System Applied to Land Value Capture Policies

Gustavo Dias Ramos, Claudia Robbi Sluter and Gislene Pereira

Spatial Analysis of Police Open Data as a Part of Community Policing – An Example of Pardubice City (Czech Republic)

Peter Ondrejka, Lukáš Herman, Jan Rusznák, Petr Kubiček, Robert Cibula, Pavel Grochal, Josef Chrást, Adam Mertel and Daniel Vrbík

🕒 15 minutes refreshment break

🕒 17:30–18:30 🧑 Chair: Temenoujka Bandrova

Cartographic Fundamentals 1

Some Remarks on the Question of Pseudocylindrical Projections with Minimum Distortions for World Maps

János Györfly

Map Projection Aspects

Miljenko Lapaine and Nedjeljko Frančula

The Web Mercator Projection: A Cartographic Analysis

Ibrahim Oztug Bildirici

A Semi-automatic Approach for Determining the Projection of Small Scale Maps based on the Shape of Graticule Lines

Ádám Barancsuk

🍽️ 19:30 Conference Dinner – please find details on your dinner voucher

🕒 9:00–18:30 📍 Boecklsaal

Wednesday: Poster Session 2

Selected Issues of the Spatial Datasets focused on Historical Data

Adam Mertel, Zdeněk Stachoň and Tomáš Glomb

Overview of the Geological Mapping in Transylvania in the 19th Century

Enikő Korodi

Changes of Landscape in the Sió-Sárvíz Valley (Transdanubia, Hungary) due to Human Activity. Analysis of Old Maps and Historical Data

Tünde Kiss

Web-based Reconstruction of Old Educational Instruments of Geography

Zsuzsanna Ungvari and Krisztina Iras

Conception of Mini-atlas "Virtual Museum of Leo Bagrow"

Alexander Wolodtschenko

Model Development for Web – Atlas System Applying in Administration Management

Ngoc Quy Bui

Basin Monitoring System With Map Mashups: Case Study of Konya Closed Basin

Osman Sami Kırtıloğlu, İbrahim Oztug Bildirici, Nesibe Necla Ulug-tekin and Aydin Ustun

Cartographic Techniques Used in Soil Maps and Atlases of Bulgaria

Zorica Milkova and Vladimir Ilinkin

Measuring the Adequacy of Maps for Field Use

Csaba Szigetı and Gáspár Albert

Land Cover Mapping for Subcarpathian Area (Romania) at Different Scales using Currently Available Data Models

Marina-Ramona Rujoiu-Mare and Bogdan-Andrei Mihai

Open-source Web-based Viewer Application for TLS Surveys in Caves

Mátyás Gede, Zsuzsanna Ungvári, Klaudia Kiss and Gábor Nagy

Web Maps Adaptation for Smartphones

Iemen Kozmus Trajkovski, Katja Berkopec and Dušan Petrovič

INSPIRE and VGI: Specie Distribution in Europe

Umberto Di Staso, Matteo Matassoni and Raffaele De Amicis

Perceptive and Cognitive Aspects – Route Planning with a Map

Andrea Binn

Disasters, Maps & Data: C2-SENSE – Objects of Interest in Disaster Related Real-Time Situations

Refiz Duro

ATLAS OF URBAN ACTORS – A Co-Laboratory in Public Space

Antje Lehn and Johanna Reiner

Results of the Barbara Petchenik Children's World Map Drawing Competition

José Jesús Reyes Nuñez

Thursday, 12 Nov 2015

🕒 9:00–10:30 🧑 Chair: Corné van Elzakker

Cartographic Fundamentals 2

Research Investigations related to User Centered Design for Geoinformation Products

Claudia Robbi Sluter, João Vitor Meza Bravo and Melissa Midori

The GEOTHNK Approach to Spatial Thinking

Marinos Kavouras, Margarita Kokla and Eleni Tomai

Thematic Cartography: A Key Course in Geospatial Engineering

Chrysoula Boutoura, Alexandra Kousoulakou and Angeliki Tsorlini

Lexical Knowledge Sources for Cartography and GIS – Development, Current Status and Outlook

Wolf Günther Koch

Toponymy of Rio de Janeiro State, Brazil: From Historical to Current Maps – Research and State of Art

Paulo Márcio Leal de Menezes, Manoel do Couto Fernandes, Kairo da Silva Santos, Tainá Laetta and Juliana Rambaldi

The Political Mosaic: Mapping Romania's Administrative Divisions from 1930

Cezar Buterez, Andrei Nacu and Alexandru-Ionut Cruceru

☕ 30 minutes coffee break

🕒 11:00–12:30 🧑 Chair: Kenneth Field

Cartographic Modelling and Design 4

Low-cost Approach for a 3D-visualization of Historical Structures in Metropolis (Ionia)

Sebastian Lemstra, Boris Dreyer and Mark Vetter

Model of Dynamic Labelling of Populated Places in Slovakia

Jakub Straka, Marta Sojčáková and Róbert Fencik

Cartographic Visualization of Historical Source Data on AtlasFontium.pl

Arkadiusz Borek and Tomasz Panecki

A Research in Cartographic Labeling to Predict the Suitable Amount of Labeling in Multi-resolution Maps

Wasim A. M. Shoman and Fatih Güngen

The Spatial Statistical Generalization of Information for Regional Land-use Management in Ukraine

Viktor Putrenko

Methodology for Automating Cartometric Evaluation of Urban Topographic Maps in Brazil

Monica Cristina de Castro and Claudia Robbi Sluter

🍽️ 75 minutes lunch break

🕒 13:45–15:15 🧑 Chair: Beata Medynska-Gulij

Cartographic Technologies 3

Automated Generalization at BEV – From Base Models to 1:50k Map

Alexander Knapp and Andreas Pammer

Data Quality Control for Topographic Mapping Production

Andrea Lopes Ieschek, Rita de Cássia Marques Alves, Manuella Anais Rodrigues Fagundes and Gabriel de Souza

SDI4apps Points of Interest Knowledge Base

Otakar Čerba, Karel Charvát, Tomáš Mildorf, Raitis Berzins, Pavel Vlach and Barbora Musilova

Geospatial Project Management Portal

Filiz Kurtcebe Altin, Tolga Kaya, Mehmet Bilgekagan Cintimur and Tugba Aydar

New Map Production Environment in the Danish Geodata Agency: 'Maps Without Hands'

Stig Heinesen and Morten Winkler

Where Have All the Atlases Gone? Developing Data Structures for a Virtual Research Environment

Eric Losang

☕ 30 minutes coffee break

🕒 15:45–17:30 🧑 Chair: Florian Ledermann

Cartographic Modelling and Design 5

Maps in Documentary Videos

Vit Vozenilek

Pins or Points? Cartographically Appealing Webmaps and Technical Challenges: the Example of "Landschaften in Deutschland Online"

Jana Moser and Sebastian Koslitz

Visual Suggestiveness and Change Blindness in Dynamic Cartographic Visualisations

Paweł Cybulski

New Approach to Experimental Testing in Cartography

Čeněk Šašinka, Zdeněk Stachoň, Zbyněk Štěrba, Radim Štampach and Kamil Morong

Mapping Abandoned Industrial Buildings: The Territory from Land Use to Reuse

Alessia Movia and Maria Vittoria Santi

Reconstructive 3D Models of the Brno for the Years 1400, 1645 and 1749 and Their Use in Education

Walter Vilém, Herman Lukáš and Stachoň Zdeněk

The Effect of the Political Transition of Hungary on Map Publishing

László Zentai

🍷 Closing & farewell drinks

Organized by



btw, it's International Map Year!
More info on mapyear.org

