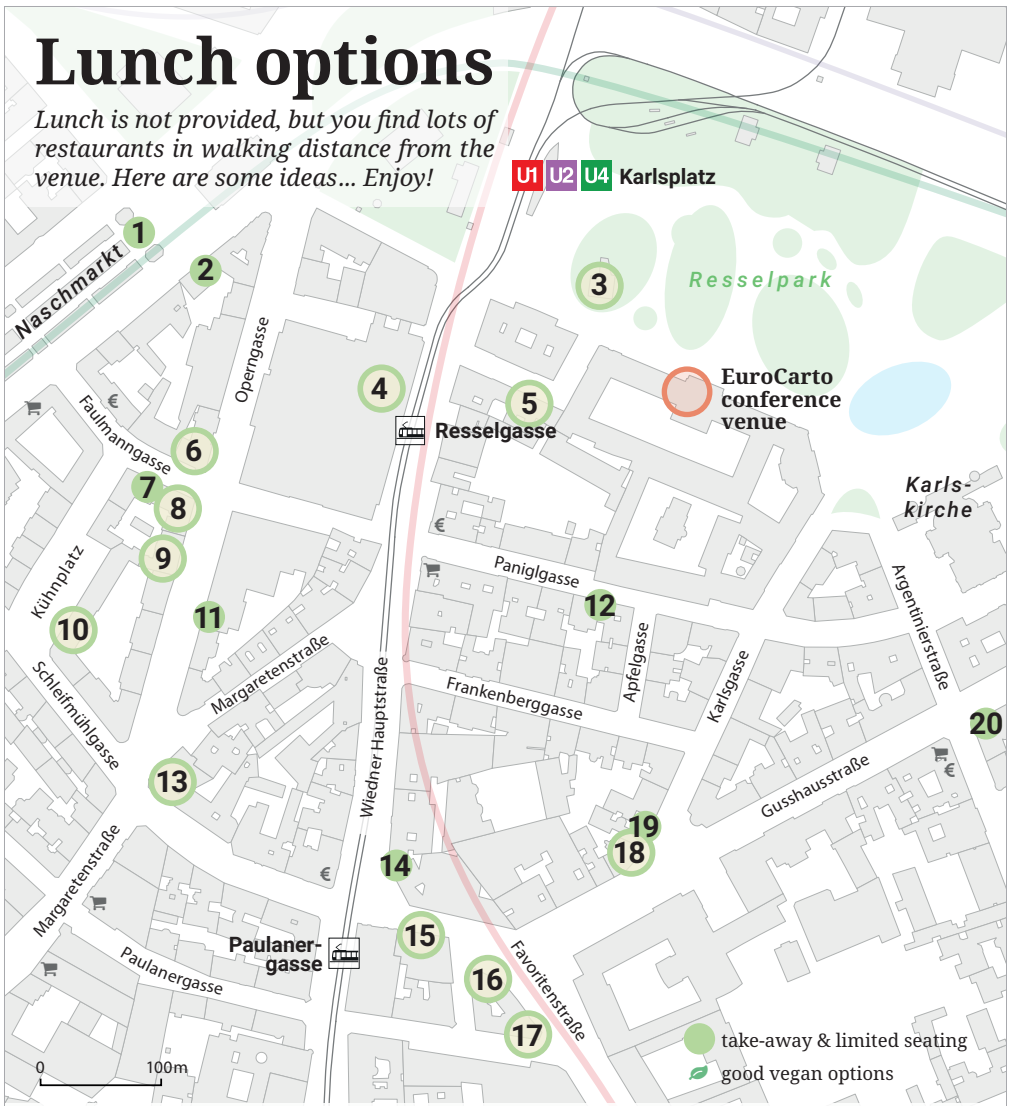


# Lunch options

Lunch is not provided, but you find lots of restaurants in walking distance from the venue. Here are some ideas... Enjoy!



● take-away & limited seating  
 ● good vegan options

- |  |                                      |                               |
|--|--------------------------------------|-------------------------------|
| 1 Naschmarkt   international food stalls | 7 Bähn Mi Vienna   Vietnamese        | 13 blueorange   bagels        |
| 2 Tolstoy   vegan                        | 8 Kebabhaus   Turkish                | 14 feinessen   tasty          |
| 3 Restaurant Resselpark   Austrian       | 9 SHU Restaurant Vienna   Sichuanese | 15 Bep Viet   Vietnamese      |
| 4 TU Mensa   typical canteen             | 10 Kojiro 2   Japanese, sushi        | 16 Riva   pizza               |
| 5 Pointers   burgers                     | 11 Matcha Komachi   Japanese         | 17 Santos   Mexican           |
| 6 Swing Kitchen   vegan burgers          | 12 Kenny's   smoothies & bowls       | 18 Wiaz'haus   Austrian       |
|  |                                      | 19 Salon Wicht!g   curry      |
|  |                                      | 20 Gorilla Kitchen   burritos |

# Welcome to EuroCarto2022

European Cartographic Conference  
 Vienna, 19–21 September 2022

ORGANIZED BY



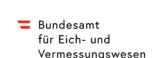
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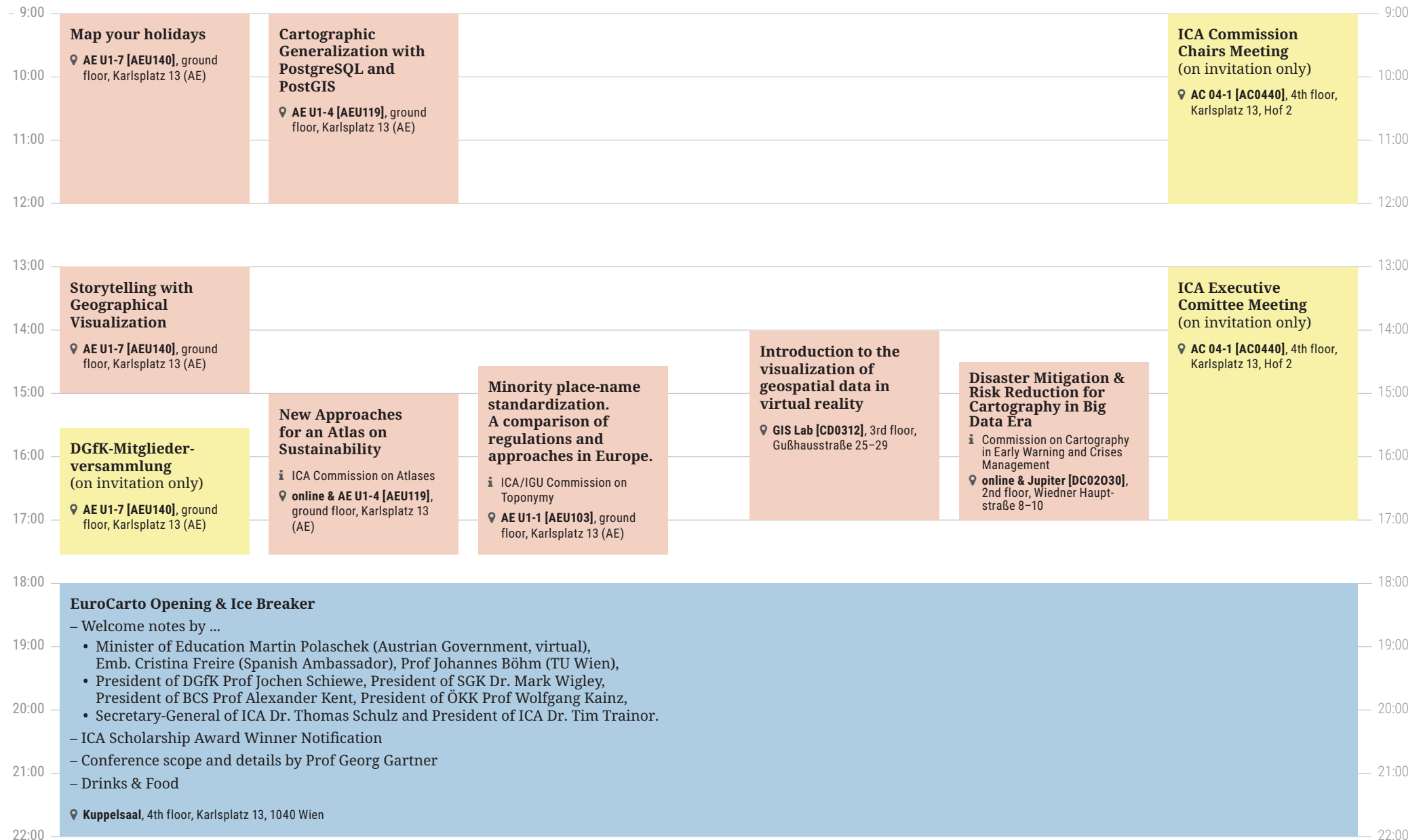


# Workshops & Meetings

## on Sunday, 18 September 2022

### How to find your room:

Visit [tuw-maps.tuwien.ac.at](https://tuw-maps.tuwien.ac.at) and type in the code in brackets, e.g. AEU140 and it will zoom you in to Seminarraum AE U1-7. Alternatively, visit the workshop and meeting pages on [eurocarto2022.org](https://eurocarto2022.org) – all rooms are already linked.



# Monday, 19 September 2022

○ Session 1 📍 Festsaal ⌚ 09:15–10:30 🧑 Chair: Gartner

## Topographic Cartography

- 09:15 **Towards a Next Generation of Swiss Maps**  
Karsten Pippig, Sebastian Denier, Dominik Käuferle and Olaf Forte
- 09:30 **Semi-Automatic Production of a 1:50k Map at BEV**  
Gernot Felfernig
- 09:45 **Georeferencer X – Tool for Automatic Georeferencing of the Topographic Maps**  
Miloš Basarić, Gordana Jakovljević and Dragoljub Sekulović
- 10:00 **The Production of a New Topographical Map Series at scale 1:25000. The case of Cyprus**  
Klito Demetriou, Giorgos Vassilas and Argyro Argyrou
- 10:15 **BEV-KM go Open Source**  
Klaus Freitag

10:30–11:00 ☕ Coffee Break sponsored by BEV

○ Coffee Break Extra 📍 Festsaal ⌚ 10:55–11:00

Sponsor presentation by BEV: Amap online

○ Session 3 📍 Festsaal ⌚ 11:00–12:30 🧑 Chair: Schiewe

## SDI and beyond

- 11:00 **Digital Twin Germany – a digital replica for simulation and analysis build on geospatial data**  
Anja Hopfstock, Patrick Knöfel and Florian Lindl
- 11:15 **Modelling and communicating geographic relevance in a digitally transformed world using a digital twin**  
Donatella Zingaro and Tumasch Reichenbacher
- 11:30 **Integrating Statistical Databases with Geospatial Datasets**  
Pekka Latvala, Kim Huuhko and Matti Kokkonen
- 11:45 **Ontology-based Web Map**  
Otakar Čerba, Sarah Velten, Jan Macura and Viktorie Sloupová
- 12:00 **Cartography in the context of the Spatial Information Infrastructure**  
Marcin Lebiecki
- 12:15 **Semantic-driven Geospatial Data Visualization Approach for an Agricultural Use Case: Apple-growing in South Tyrol, Italy**  
Darya Lapo, Ekaterina Chuprikova, Abraham Mejia-Aguilar, Roberto Monsorno and Liqiu Meng

12:30–14:00 🍴 Lunch Break

○ Session 2 📍 Boecklsaal ⌚ 09:15–10:30 🧑 Chair: Kainz

## Toponymy

- 09:15 **The Open Gazetteer of EuroGeographics and Exonyms**  
Roman Stani-Fertl
- 09:30 **Urbanonyms in small settlements: terra incognita of (Czech) place name studies**  
Přemysl Mácha
- 09:45 **Adequate minority place-name representation on topographical maps**  
Peter Jordan
- 10:00 **Toponymy as a tool for the geographical interpretation of the region: some methodological foundations**  
Joan Tort-Donada
- 10:15 **New place names in Italy after disasters or human changes**  
Giovanni De Santis and Cosimo Palagiano

○ Session 4 📍 Boecklsaal ⌚ 11:00–12:30 🧑 Chair: Kent

## Cartographic Heritage 1

- 11:00 **Cartographic complexities and geopolitical enigmas: the case of Franz von Weiss' maps**  
Evangelos Livieratos
- 11:15 **Cold War era topographic maps: Soviet influences on Hungarian civil topographic maps**  
László Zentai
- 11:30 **Karten von Attika: Antiquities and Topography of Attica in the Era of Digital Humanities**  
George Lampropoulos, Christina Giannakoula, George Panagiotopoulos, Anna Maria Theocharakis and Leda Costaki
- 11:45 **Automated extraction of map symbology from nineteenth century topographical maps by convolutional neural networks for understanding long-term changes in the extent and distribution of wetlands**  
Rob O Hara, Richa Marwaha, Jesko Zimmerman, Matthew Saunders and Stuart Green
- 12:00 **Symbolism of the Early Modern Nautical Charts of the Adriatic Sea and the Representation of the "Other"**  
Lena Mirošević and Dubravka Mlinarić
- 12:15 **Charles Perthées maps of palatinates (1:225,000, 1783-1804): a digital edition**  
Tomasz Panecki and Tomasz Królik

○ Session 5 📍 Festsaal ⌚ 14:00–15:30 🧑 Chair: DeMaeyer

## Thematic Cartography

- 14:00 **StoryMaps: Digital Story Telling putting the WHERE centre stage**  
Mark Wigley
- 14:15 **Content analysis of existing design strategies in map-based storytelling**  
Edyta Bogucka and Liqiu Meng
- 14:30 **Digital Storytelling from Above**  
Meghan Kelly, Janice Chen and Luis Felipe Alvarez León
- 14:45 **Qualitative and quantitative assessment of the correctness of the development of area cartograms**  
Anna Markowska and Dariusz Dukaczewski
- 15:00 **Developing a tool for assisting non GIS experts in the automated creation of ready-to-print maps**  
Roland Lukesch and Lukas Nebel
- 15:15 **Mapping U.S. Elections: An Empirical Analysis of Design Techniques**  
Lily Houtman

15:30–16:00 ☕ Coffee Break

○ Session 7 📍 Festsaal ⌚ 16:00–17:30 🧑 Chair: Wigley

## Generalisation

- 16:00 **Building simplification of vector maps using graph convolutional neural networks**  
Zhiyong Zhou, Cheng Fu and Robert Weibel
- 16:15 **Methodology of the Cartographic Generalization Process of the Road Network**  
Dawid Wojciech
- 16:30 **Analysis of a Workflow for the Automated Generalization of Geological Maps**  
Ana Oliva Pinilla Pachon, Dirk Burghardt and Marco Schwarzak
- 16:45 **Optimisation of generalisation recalculation using partitioning**  
Tomas Straupis
- 17:00 **Deep learning for anchor detection in multi-scale maps**  
Quentin Potié, William Mackaness, Guillaume Touya, Chaimaa Beladraoui and Amina El-Moutaouakil
- 17:15 **Incorporation of automated cartographic generalization in INEGI**  
Ana Violeta Zamora, Trinidad Carrillo and Tirso Velazquez

○ KEYNOTE 1 📍 Festsaal ⌚ 17:30–18:00 🧑 Chair: Gartner

### Maps Matter

Lea Bodossian

18:00–18:15 Technical Break

○ WORKSHOP 📍 Festsaal ⌚ 18:15–19:15

### CartoHack – Cartography beyond the screen

Sebastian Meier

○ Session 6 📍 Boecklsaal ⌚ 14:00–15:30 🧑 Chair: Huang

## Location Based Services

- 14:00 **Pedestrian routing of periodically changing areas using Volunteered Geographical Information (OpenStreetMap)**  
Héctor Ochoa Ortiz, Georg Gartner and Anita Graser
- 14:15 **Information Visualization during Mixed-Reality-based Navigation in Visually Complex Environments**  
Bing Liu and Hanbin Wang
- 14:30 **Visualizing the Modal Split in Public Transportation Networks**  
Victor Korir, Axel Forsch, Youness Dehbi and Jan-Henrik Haunert
- 14:45 **Narrating the route: route memorability in navigation instructions augmented with narrative**  
Lydia Youngblood
- 15:00 **Locator Maps: helping customers find businesses**  
Ian W. Byrne
- 15:15 **Modeling Salient Features as Directions for Place Recommender Systems**  
Mina Karimi, Mohammad Saadi Mesgari, Ross Stuart Purves and Omid Reza Abbasi.

○ Session 8 📍 Boecklsaal ⌚ 16:00–17:30 🧑 Chair: Schulz

## Atlas Cartography 1

- 16:00 **Making-of a new school atlas**  
Philippe De Maeyer
- 16:15 **Bilingual Statistical Historical Atlas of Israel**  
Oren Raz
- 16:30 **Beyond East and West – A Framework for Researching and Communicating Historical Landscapes**  
Markus Breier, Karel Kriz and Alexander Pucher
- 16:45 **SDG generation's atlas: maps expressing a generation's view on SDG**  
Markus Jobst and Georg Gartner
- 17:00 **Improving the concept of dialect maps based on geoinformatization of Czech dialectologic research**  
Vit Vozenilek, Jakub Konicek and Alena Vondrakova
- 17:15 **Atlas of the Cherven Towns in South-Eastern Poland**  
Cyryl Konstantynowski Puntos

○ PANEL 📍 Boecklsaal ⌚ 18:15–19:15

### Map Ethics

Aileen Buckley

# Tuesday, 20 September 2022

○ Session 9 📍 Festsaal ⌚ 09:00–10:30 👤 Chair: Jordan

## Atlas Cartography 2

- 09:00 **Future National Atlases – Strategies for Tearing Down the User’s Firewall**  
René Sieber and Lorenz Hurni
- 09:15 **National atlases – deconstructing the complex meaning of „national“**  
Eric Lösang
- 09:30 **Workflow explorations for the hybrid ITC atlas**  
Jakob Listabarth and Menno-Jan Kraak
- 09:45 **Croatian Geographical Atlases since the 1880s**  
Ivana Crljenko
- 10:00 **Arctic Cartographic Uncertainties, a cARTographic Atlas in progress...**  
Danai-Maria Kontou
- 10:15 **Educational Atlases as Mediators of Spatial Imaginations**  
Jana Moser, Sofia Gavrilova and Philipp Meyer

10:30–11:00 ☕ Coffee Break sponsored by Esri

○ Coffee Break Extra 📍 Festsaal ⌚ 10:45–10:55  
Sponsor presentation by Esri

○ Session 11 📍 Festsaal ⌚ 11:00–12:30 👤 Chair: Zentai

## Cartographic Education 1

- 11:00 **Engaging Undergraduates in the Thrill of Scientific Reasoning with Spatial Data**  
Julia Koschinsky
- 11:15 **How Czech Geography Teachers Use School Atlases?**  
Marketa Beitlova, Stanislav Popelka, Vit Vozenilek, Kamila Facevicova, Barbora Anna Janeckova and Vladimir Matlach
- 11:30 **Map skills as a basis for building digital competencies in geography education under the Czech national curriculum**  
Jiří Šmída
- 11:45 **Creating a manipulative game for the learning cartography**  
Moisés Martín Betancor, Fernando Toscano Benítez and Carla Travieso Padrón
- 12:00 **Learning geographic concepts through Minecraft**  
Ítalo Sousa de Sena and Zdeněk Stachoň
- 12:15 **THEMPE: THEmatic Mapping Practice and Explanation, an Open Educational Resource for Teaching Thematic Mapping**  
Zulfa Nuraini Afifah and Barend Köbben

12:30–14:00 🍴 Lunch Break

○ Session 10 📍 Boecklsaal ⌚ 09:00–10:30 👤 Chair: Coetzee

## Multimedia Cartography

- 09:00 **Dynamic VR-application of a historical city train**  
Detlef Günther-Diringer, Konrad Berner and Mathis Braun
- 09:15 **Map Symbol Development for 3D Cartography suitable in VR-Environments**  
Mark Vetter and Helge Olberding
- 09:30 **Exploring Spatio-Temporal Event Data on a Smart Watch**  
Annika Bonerath, Lukas Temerowski, Sven Gedicke and Jan-Henrik Haunert
- 09:45 **The Development and Simulation of an Urban Traffic System for the Usage in Immersive Virtual Environments**  
Marco Weißmann, Dennis Edler, Julian Keil and Frank Dickmann
- 10:00 **Preattentive features of cartographic symbols in animated mapping**  
Paweł Cybulski
- 10:15 **Multivariate Mapping techniques and Immersive Virtual Environments**  
Ondřej Kvarda and Zdeněk Stachoň

○ Session 12 📍 Boecklsaal ⌚ 11:00–12:30 👤 Chair: Livieratos

## Cartographic Heritage 2

- 11:00 **Mapping complex history on the web: is a point-based approach a better way?**  
Mariam Gambashidze and Jana Moser
- 11:15 **From Works of the Cartographic Heritage to the Digital 3D Model and Presentation of the Riverine Landscape**  
Tomáš Janata, Vojtěch Čehák, Jiří Cajthaml and Jiří Krejčí
- 11:30 **Mapping the uncertainty of past maritime routes**  
Christine Plumejeaud-Perreau and Silvia Marzagalli
- 11:45 **Map of Mythical Creatures of Africa**  
Giedrė Beconytė and Andrius Balčiūnas
- 12:00 **Local Map Scale Exaggerations of Island and Port Representations on Late-Medieval and Early Modern Navigational Charts of the Adriatic Sea**  
Tome Marelić and Julijan Sutlović
- 12:15 **BIO-MAPS: Biographical map library of writers and poets of three European countries**  
José Jesús Reyes Nunez and Krisztina Irás

○ Preisverleihung 📍 Festsaal ⌚ 12:45–13:30 👤 Chair: Schiewe  
Verleihung des Ravenstein-Preis der DGfK

○ Session 13 📍 Festsaal ⌚ 14:00–15:30 👤 Chair: Meng

## Perception and Cognition 1

- 14:00 **Cartographic adaptation through eye tracking and deep learning: Gaze-Aware Interactive Map System (GAIMS)**  
Merve Keskin, Mikko Rönneberg and Pyyri Kettunen
- 14:15 **Visual attention and neuro-cognitive processes in map use**  
Tong Qin and Haosheng Huang
- 14:30 **Eye-tracking Assessment of Swipe and Multiple Views**  
Stanislav Popelka, Jaroslav Burian and Marketa Beitlova
- 14:45 **Minimum Dimensions for Cartographic Point Symbols on Mobile Phone Screens: Theoretical Considerations and Empirical Verification**  
Florian Ledermann
- 15:00 **A novel framework for modelling people’s perceived scene complexity of navigation environments based on street-level imagery and open geodata**  
Fangli Guan, Zhixiang Fang and Haosheng Huang
- 15:15 **Applying eye-tracking for interpreting map legend use by professional decision makers**  
Jessica Hepburn and David Fairbairn

15:30–16:00 ☕ Coffee Break

○ Session 15 📍 Festsaal ⌚ 16:00–17:00 👤 Chair: Kraak

## Theoretical Cartography

- 16:00 **Theorizing ‘Really Good Maps’ : Cartography and Aesthetic Philosophy**  
Chelsea Nestel
- 16:15 **Bertin’s map reading theory: an enlightening tool for “clearing up” concepts and analysis of old maps content**  
Angeliki Tzorlini, Chryssoula Boutoura and Evangelos Livieratos
- 16:30 **Learning Cartographic Communication for Digital Humanities**  
Marta Kuźma and Francis Harvey
- 16:45 **Developing cartographic literacy: lessons learned from 20th century Hungarian school atlases**  
Veronika Flóra Kiss and Zsolt Győző Török

○ KEYNOTE 2 📍 Festsaal ⌚ 17:00–17:30 👤 Chair: Kraak  
Developing a human-oriented paradigm for cartography  
David Fairbairn

19:00–22:00 🍴 Conference Dinner at Zwölf-Apostelkeller, Sonnenfelsgasse 3, 1010 Wien

○ Lunchtime Extra 📍 Boecklsaal ⌚ 13:15–14:00 👤 Chair: Roth  
Meet the authors of “Mapping for a sustainable world”

○ Session 14 📍 Boecklsaal ⌚ 14:00–15:30 👤 Chair: Robinson

## Collaborative Mapping

- 14:00 **The typicality measure as a novel tool for normalising geo-social media data**  
Eva Hauthal, Dirk Burghardt and Sagnik Mukherjee
- 14:15 **Collaborative mapping to investigate the relationship between places and happiness**  
Marta Rodeschini, Federica Burini and Georg Gartner
- 14:30 **A Participatory Approach to Develop Missing Geospatial Data Visualisation**  
Merve Polat Kayali and Ana Basiri
- 14:45 **Visualising the societal acceptance and the planning reality of Urban Air Mobility (UAM): Digital Participation Tool Medifly**  
Hülya Lasch, Corinna Endreß, Jörg Rainer Noennig and Konstantin Doll
- 15:00 **Emojis as indicators of spatial-temporal-thematic developments in geo-social media**  
Samantha Levi, Eva Hauthal and Sagnik Mukherjee
- 15:15 **Collaborative Development of Symbols for Reference Maps**  
Jaqueline Pisetta, Vitor Araujo, Thaís Ramos, Silvana Camboim and Andrea Faria Andrade

○ Session 16 📍 Boecklsaal ⌚ 16:00–17:00 👤 Chair: Mitbo

## Visualisation and Design 1

- 16:00 **Towards an intuitive User Interface and Geographic Question Answering for an existing spatial Linked Data Endpoint for Dialect Data**  
Georg Weinberger, Johannes Scholz and Eveline Wandl-Vogt
- 16:15 **MapColPal – a color palette generation and testing tool for thematic maps**  
Valerian Lange and Paulo Raposo
- 16:30 **A free collection of adjustable typical German map symbols**  
Carolin Rüniger, Dirk Burghardt and Mathias Gröbe
- 16:45 **Establishing a new user centered design for ski touring maps**  
Vivien van Dongen

○ YOUNG SCIENTISTS PHD RESEARCH SEMINAR  
📍 Kontaktraum ⌚ 16:00–18:00  
PhD research workshop (on registration only)  
Edyta Paulina Bogucka, Florian Ledermann, Sebastian Meier, Robert Roth, Katarzyna Stomska-Przech

# Wednesday, 21 September 2022

○ Session 17 📍 Festsaal ⌚ 09:00–10:30 👤 Chair: Bleisch

## Cartographic Education 2

- 09:00 **Cartographic education development in different schools of thought**  
Olesia Ignateva and Menno-Jan Kraak
- 09:15 **The transdisciplinary nature of cartography reflected in diverse research topics of Master theses**  
Juliane Cron
- 09:30 **Enhancing Large Educational Node-Link Concept Map Design for Optimal User Learning**  
Jonathan King
- 09:45 **Cartography Education in the Swiss Federal Statistical Office**  
Stephan Wondrak
- 10:00 **Communicating peace operations: the role of peacekeeping deployment maps in a United Nations field mission**  
Ayako Kagawa
- 10:15 **Developing a recommender system for suggesting alternative ways of data visualization for Sustainable Development Goals**  
Iaroslav Boretiskii and Menno-Jan Kraak

10:30–11:00 ☕ Coffee Break

○ Session 19 📍 Festsaal ⌚ 11:00–12:30 👤 Chair: Roth

## Perception and Cognition 2

- 11:00 **The impact of map-structuring elements on object location memory error**  
Annika Korte, Julian Keil and Frank Dickmann
- 11:15 **Examining the preattentive effect on cartographic backgrounds utilizing remote mouse tracking**  
Athina Pappa and Vassilios Krassanakis
- 11:30 **Visualizing map intuitiveness to support map design**  
Ane Bang-Kittilsen and Terje Midtbø
- 11:45 **Feature and Label Density in Large-Scale Online Maps**  
Michael Peterson, Ryan Mellema and Paul Hunt
- 12:00 **Valheim - Interpretation of Cartographic Symbols on the Map Based on the Characteristics of the Respondents**  
Krzysztof Zagata and Tymoteusz Horbiński
- 12:15 **A Web GIS to Generate Audio-Tactile Maps for Visually Impaired People**  
Guillaume Touya, Samuel Braikhe, Ridley Campbell, Jean-Marie Favreau and Jérémy Kalsron

○ Session 18 📍 Boecklsaal ⌚ 09:00–10:30 👤 Chair: Peterson

## Cartographic Methods and Applications 1

- 09:00 **Hatch Fill on Webmaps to Do or Not to Do, and How to Do**  
Mátyás Gede
- 09:15 **Transitional DEM Merging – A semi-automatic approach for creating contour lines derived from merged DEMs of different sources and quality**  
Benedikt Hajek and Karel Kriz
- 09:30 **GeoStyler – Generic Styler for Geodata**  
Johannes Weskamm, Jan Suleiman, Daniel Koch, Kai Volland, Marc Jansen and Christian Mayer
- 09:45 **Method and tools to create Reference Map**  
Salvatore Morreale, Enrico Eynard and Stefano Bassetti
- 10:00 **Semi-Automatic Spatial Classification of Heterogeneous Spatial Open Government Data – Use Case of Germany**  
Sebastian Meier
- 10:15 **User Study of Heat Maps with Different Levels of Generalisation**  
Katarzyna Słomska-Przech, Tomasz Panecki and Wojciech Pokojski

○ Session 20 📍 Boecklsaal ⌚ 11:00–12:30 👤 Chair: Moser

## Cartographic Methods and Applications 2

- 11:00 **Copernicus Emergency Management Service (CEMS)- Risk and Recovery Mapping**  
Sharon Chawanji, Kristin Fleischer and Jörg Ullrich
- 11:15 **Mapping urban night lights at a fine spatial resolution: downscaling VIIRS using geographically weighted area-to-point regression Kriging**  
Nikolaos Tziokas, Ce Zhang, Garyfallos Chrysovalantis Drolias and Peter M. Atkinson
- 11:30 **Analysis of heights of mountain interesting peaks and other characteristic points in Slovenia**  
Nina Črnigoj and Dušan Petrovič
- 11:45 **Are there map projections with coincident standard and secant parallels?**  
Miljenko Lapaine
- 12:00 **Visualization of Spatial Uncertainty Improves Map Matching**  
Julian Keil, Dennis Edler, Lars Kuchinke and Frank Dickmann
- 12:15 **Analysis of the effects of the Suez blockade on global containership traffic using AIS data and spatio-temporal data cube.**  
Fabio Cremaschini, Cristina Monaco and Elisa Ilardi

12:30–14:00 🍴 Lunch Break

○ Session 21 📍 Festsaal ⌚ 14:00–15:45 👤 Chair: Dickmann

## Visualisation and Design 2

- 14:00 **Employing cartographic principles to improve data graphics**  
Susanne Bleisch
- 14:15 **Evaluating User Needs for Geovisualization of Pollinator Health and Ecosystems**  
Anthony C. Robinson, Timothy J. Prestby, Dave McLaughlin, Patrick Dudas and Christina Grozinger
- 14:30 **The infobox as an elementary component of map-centred online applications—principle, functionality and implementation using the example of AustrianVineyards.com**  
Dominik Wieser, Alexander Pucher and Karel Kriz
- 14:45 **Visualising Transformations of Geographical Time-Space by Transport Systems. The Case of Germany, 1990-2030.**  
Johannes Moser, Fabian Wenner and Alain L'Hostis
- 15:00 **Analysis of Point Symbols used in Online General Purpose and Tourist Maps**  
Eirini Nektaria Konstantinou, Andriani Skopeliti and Byron Nakos
- 15:15 **Improving visualization and functionality of natural hazard warnings on multi-hazard platforms**  
Christophe Lienert, Franziska Angly, Irina Dallo and Michèle Marti
- 15:30 **Non-Photorealistic Rendering of Point Clouds for Cartographic Visualization**  
Ole Wegen, Jürgen Döllner, Ronja Wagner, Daniel Limberger, Rico Richter and Matthias Trapp

15:45–16:00 🛑 Technical Break

🟢 **KEYNOTE 3** 📍 Festsaal ⌚ 16:00–16:30 👤 Chair: Gartner  
**These are my maps. Show me yours.**  
Ken Field

🟢 **CLOSING** 📍 Festsaal ⌚ 16:30–17:30 👤 Chair: Gartner  
**Closing Ceremony & Farewell**

○ Session 22 📍 Boecklsaal ⌚ 14:00–15:45 👤 Chair: Jobst

## Cartographic Methods and Applications 3

- 14:00 **Czech Linguistic Maps – Implementation of Geovisualization Portal**  
Rostislav Netek, Jakub Konicek, Ondrej Strubl and Vit Vozenilek
- 14:15 **Analysis of spatial distribution of crime of violence in Vilnius City municipality in 2015–2020**  
Kostas Gružas and Giedrė Beconytė
- 14:30 **Content Analysis of COVID-19 Cartographic Journalism**  
Timothy Prestby
- 14:45 **How to interpret geodiversity as a spatial variable?**  
Márton Pál and Gáspár Albert
- 15:00 **Features of Europe's air transport network formation during 2020 in the context of the COVID-19 pandemic**  
Yerkanat Abilpatta, Jan Brus and Vít Voženilek
- 15:15 **Quantifying visual heterogeneity of paper maps using diffuse reflectance spectroscopy**  
Nikolaos Merlemis, Anastasios Kesidis, Loukas-Moysis Misthos, Evangelini Zekou, Eleni Drakaki and Vassilios Krassanakis
- 15:30 **Atlas Fontium – examples of the Historical Atlas of Poland 2.0 data use**  
Katarzyna Słomska-Przech, Aniela Rząsa and Tomasz Panecki

# Poster sessions

Posters will be displayed during all breaks in the hallway outside of Boecklsaal.

## Monday

GIS-based approach for assessing the Potential Sites of Large-Scale generation of Solar energy: A case study of Al-Hasakeh governorate, Syria  
Nour Naaouf and István Elek

Fusion of Copernicus and ALOS World 3D DEMs for watershed and stream network delineation  
Chukwuma Okolie, Jon Mills and Julian Smit

A study on the search method for similar typhoons in the past using typhoon path and attributes  
Minjun Kim and Jinmu Choi

Risk index of contaminant dispersion in the sea, case study from HarmonIA project  
Damir Ivankovic, Ivan Vučić, Dalibor Jelavić and Anđela Jelinčić

Impact of Temporally Downsampling Movement Data on Interpretation  
Laleh Moussavi, Aidan Slingsby and Gennady Andrienko

A multipurpose patch creation tool for efficient exploration of digital cartographic products  
Anastasios Kesidis, Vassilios Krassanakis, Nikolaos Merlemis and Loukas-Moysis Mithos

Comparing Local Climate Zone mapping results of Tirana through different approaches  
Anja Cenameri and Gáspár Albert

Exploring Spatial Voronoi Diagrams for Autonomous Vehicle Operation in 3D Road Networks  
Ganesh Kumar, Nahid Pervez, Quinn Wu and Sharnam Shah

Visualization of participatory mapping outcomes: a review of contemporary methods  
Daniela Valchářová and Jakub Lysák

Combining Landsat, Sentinel2 and Planet Lab satellite assets for resource constrained land cover analysis in the tropics  
Marc Böhlen, Rajif Iryadi and Jianqiao Liu

History and Potential National and Regional Atlas Issues in East Africa  
David Siriba and Daniel Nyangweso

Spatial Clustering Algorithms to Find the Optimal Spatial Resolution for Modelling of PtX Value Chains  
Friedrich Weise, Björn Meißner, Barbara Koch, Christopher Voglstätter, Tom Smolinka and Christopher Hebling

## Tuesday

Building Footprint Extraction from High Resolution UAV Images Using Deep Learning Algorithms in the Context of Unplanned Urbanisation  
Halil İbrahim Şenol and Arzu Çöltekin

Use of infrastructure parameters from OSM data to assess cyclist safety in European cities  
Camilo Cardona Torres, Albine Chanove and Mathias Gröbe

An Analysis of the Spatial Accessibility of 119 Emergency Services to the Elderly Population Using 2SFCA  
Jaeseong Ahn, Jinmu Choi and Jisoo Lee

Addressing Maghrebian place names from a Hungarian perspective  
Malak Alasli

Designing a Cross-Border Health Atlas through Immersion in Health Services Research  
Sebastian Specht

A comparison of virtual reality locomotion techniques in indoor environments  
Pavel Pospíšil

Automatic mapping direct sun glares on roads with point clouds. Case study of EP2005, Vigo, Spain  
Silvia María González-Collazo, Jesús Balado and Elena González

A Study on the Spatiotemporal Informatization of Social Media Data for Obtaining Disaster Status  
Changkyu Lee and Jinmu Choi

Wastewater-based epidemiology Dashboard for research of COVID-19 in Saxony  
Adam Mertel, Lennart Schüler, Wildan Abdussalam, Weronika Schlechte-Weñnicz and Justin Calabrese

Cartographic reconstruction of administrative boundaries for the Catholic Church  
Samanta Klusytė

Mapping the historical Soundscape. A digital project to enhance the cultural identity of Modena (Italy)  
Sara Belotti and Angela Fiore

## Wednesday

Cartographic and GIS aspects of geosite assessment: a case study in the Gerecse Hills, Hungary  
Edina Hajdú and Márton Pál

Mapping forest road properties: From pen-and-paper to digital data collection in a GIS  
Marielle Fraefel, Barbara Schneider and Christoph Duggelin

League of Legends - Interpretation of Spatial Situations  
Tymoteusz Horbiński and Krzysztof Zagata

Changes in the content of topographic maps in relation to their use in the history  
Václav Talhofer and Filip Dohnal

A time-driven symbology for map visualization  
Roya Habibi and Ali Asghar Alesheikh

Development and Use of Virtual Reality in Geovisualisation: An Overview  
Sebastian Urbanek

Comparative study of offshore wind farm areas: The case of the Canary Islands  
Moises Martin Betancor, Javier Osorio, Alejandro Ruiz-García and Ignacio Nuez

Visual comparison of differences in understanding to spatially oriented infographics  
Jakub Konicek and Mariane Félix da Rocha

Building distance learning for the Geographic Information Systems  
Efthymios Spyridon Georgiou

Land cover data provided by the Copernicus Land Monitoring Service as important sources for thematic cartography  
Daniel Szatmári, Ján Feranec, Monika Kopecká, Róbert Fencik and Tomáš Soukup

Graphic map load evaluation of Estonian topographic maps  
Radek Barvir

Readability Analysis of Covid-19 Maps  
Hatice Atalay and N. Necla Uluğtekin

# Side events

## EXHIBITION

## The Longest Voyage

By bringing the exhibition project “The Longest Voyage” to EuroCarto 2022 and the Technische Universität Wien, the Spanish Embassy in Austria wants to commemorate the 5th centenary of the first round-the-world voyage. The exhibition has the objective of disseminating the importance of this journey in universal history and paying tribute to man’s exploratory spirit and his attitude to the unknown.

🕒 Mon–Wed, 8–20

📍 Foyer at the main entrance, ground floor

## GUIDED VISIT

## Facsimile edition of the Tabula Peutingeriana

As the only preserved map of the public road system of the late Roman Empire, the Tabula Peutingeriana provides insights into the management and economy of a great ancient empire. In the guided visit, you will have the chance to see the facsimile edition of the Tabula Peutingeriana, presented in the Augustinian Reading Room at the Austrian National Library and be introduced to its history and details on the map.

🕒 Mon & Tue, 16–17

📍 Austrian National Library, Josefsplatz 1, 1010 Wien

📍 15€, on pre-registration only

## INDIVIDUAL ORIENTEERING EVENT

## MapRun

Tired of sitting at the conference all day long? Take yourself out for a run in the beautiful city of Vienna: You can use the free mobile app MapRun6@ and participate in an orienteering event. The closest one starts directly in Resselpark – in front of the conference venue. Just press the button “Events Near Me” to get the information for your position and start your MapRun.

🕒 all day 📍 Resselpark

📍 free app download from Google Play and App Store

### 📍 A note to poster authors:

- The posters should be fixed on the poster wall until 9:00 AM of the presentation day.
- Adhesive tapes will be provided to fix the poster on the wall.
- We recommend being available during coffee breaks and lunch breaks at your poster.
- You can remove the poster from the wall at 7:00 PM of the presentation day.