

Advances in Topographic Mapping

27-28 October 2022



ICA Commission on
Topographic Mapping



Programme

Day 1

- 10:00–10:15 Welcome and Opening Comments
- 10:15–10:45 **Keynote: The Fall and Rise of National Geospatial Authorities**
Mark Cygan
Director of National Mapping Solutions, Esri
- 10:45–11:00 *Coffee Break*

Session 1: Topographic Mapping and Immersive Virtual Environments (IVE)

- 11:00–11:30 **Sourcing Topographic Data from Multiple Heterogenous Sources**
Vincent Van Altena, Jan Bakermans, Annekarlijn De Rijcke, Marc Post, Daniël Te Winkel, Jacco Mijnders and Richard Witmer
Kadaster, Apeldoorn, The Netherlands
- 11:30–12:00 **Voxel Based Urban Topographic Mapping for Immersive Virtual Environment Applications**
Olga Shkedova and Monika Sester
Institute of Cartography and Geoinformatics, Leibniz University, Hannover, Germany
- 12:00–12:30 **Automatically Generated 3D Geovisualization from Topographic Data in the Unity Game Engine for Immersive Virtual Environments**
Arkadiusz Brzegowy and Łukasz Halik
Department of Cartography and Geomatics, Adam Mickiewicz University in Poznan, Poland
- 12:30–13:30 *Lunch Break*

Session 2: Utilising Open-Source Data in Topographic Mapping

- 13:30–14:00 **Evaluation of OpenStreetMap, Wikimapia and OpenTopoMap Data Quality for Test Sites in Slovenia**
Dušan Petrovič, Catherine Desiree Počkaj and Mihaela Triglav Čekada
Faculty of Civil and Geodetic Engineering, University of Ljubljana, Ljubljana, Slovenia
- 14:00–14:30 **Designing Generalization Strategies Using Open Data**
Jagadish Boodala, Onkar Dikshit and Nagarajan Balasubramanian
Department of Civil Engineering, Indian Institute of Technology Kanpur, Kanpur, India
- 14:30–15:00 **Soviet City Plans and OpenStreetMap: a Comparative Analysis**
Martin Davis
Digital Map Curator at the Bodleian Libraries, University of Oxford, United Kingdom
- 15:00–15:10 **Summarising Comments**

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Day 2

Session 3: Developments in Topographic Map Production

- 10:00–10:30 **On Demand, Custom, Topographic Maps with topoBuilder**
Andrew Stauffer and Ariel Doumbouya
US Geological Survey, Denver, USA
- 10:30–11:00 **Automatic Extraction and Placement of Building Point Vector Data from Aerial Imagery**
Miloš Basarić and Petar Vasiljev
Military Geographical Institute "General Stevan Bošković", Belgrade, Serbia
- 11:00–11:30 *Coffee Break*

Session 4: Enhancing User Experience and Trust in Topographic Maps

- 11:30–12:00 **Transferring the Quality of Printed Topographic Maps in Vector Tiles and 3D Web Maps**
Johann Sehner
Bavarian Agency for Digitization, High-Speed Internet and Surveying, Digital Maps Bavaria, Windischeschenbach, Germany
- 12:00–12:30 **NSDI Development During the War for the Reconstruction of Ukraine**
Danylo Kin, Nadiia Lazorenko and Yurii Karpinskyi
Kyiv National University of Construction and Architecture, Kyiv, Ukraine
- 12:30–13:00 **3D Visualization of Tourist Trails in Mobile Applications: A Study of User Preferences**
Stanisław Szombara and Małgorzata Zontek
AGH University of Science and Technology, Krakow, Poland
- 13:00–14:00 *Lunch*
- 14:00–15:00 **Discussion:** Establishing a Research Agenda for Topographic Mapping
Alexander J. Kent and Łukasz Halik
- 15:00–15:15 **Closing Comments**

Technical Details

All times are specified in **Coordinated Universal Time (UTC)** <https://time.is/UTC>

Microsoft Teams is the virtual conference platform. Please install Microsoft Teams software before the conference.

Questions regarding the conference can be directed to the local organiser:

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