

International conference on unlocking potential, addressing challenges, and embracing opportunities in BIM-GIS Integration

COBGI2024

Challenges and Opportunities in BIM - GIS integration

17th – 19th June 2024

Varaždin, Croatia

Venue: University North, building UNIN2

organised by



**International
Federation of
Surveyors**



**University North
Department of
Geodesy and
Geomatics**

**CROATIAN
GEODETIC
SOCIETY 1953**

**Croatian
Geodetic Society**



BIRGIT project

Agenda

Day 1 - Monday 17/06/2024

19:00-21:00

- Welcome reception (Location: in the front of building UNIN-1)

Day 2 - Tuesday 18/06/2024

8:30-10:00 Registration (Location: building UNIN-2)

10:00-11:30 Opening session, chair: Nina Šešić Mežnarić

- Welcome
 - Vlado Cetl, president of Scientific committee
 - Danko Markovinović, president of Organizing committee
 - Marin Milković, rector of the University North
- Keynote presentations
 - Education resources for BIM-GIS integration, Anders Östman
 - Information - the focus of GIS and BIM technology, Dražen Galić/StudioARS
- Discussion

11:30-12:00 Coffee Break

12:00-13:15 Session 1: BIM as a transformative technology in modern city management, chair: Nikola Kranjčić

- *Challenges and opportunities for BIM – GIS integration – BIRGIT case study*, Sanja Šamanović, Olga Bjelotomić Oršulić, Vlado Cetl, Danko Markovinović and Anders Östman
- *GIS-BIM Interoperability Challenges: Role of Standardisation*, Hrvoje Tomić, Vlado Cetl, Miodrag Roić and Rinaldo Paar
- *Implementation of geomatic data in BIM on a practical example*, Anđelko Crnoja, Ivanka Netinger Grubeša and Danko Markovinović
- *Application BIM and GIS Integration Utilization in Micro Urban Climate Adaptation Models*, Tea Duplančić Leder and Samanta Bačić

13:15-14:30 Lunch Break

14:30-15:00 General sponsor presentation GeoWild (<https://www.geowild.hr/>)

15:00-16:30 Session 2: GIS for sustainable cities, chair: Hrvoje Matijević

- *2D versus 3D Walkability for the Elderly in a German City*, Hartmut Müller, Konstantin Geist, Klaus Böhm and Markus Schaffert
- *Navigating Urban Space: Unveiling Patterns in Walking Routes Through Space Syntax in Kypseli Neighbourhood*, Athens, Charalampos Kyriakidis, Konstantinos Apostolopoulos, Athanasios Sideris, Chryssy Potsiou and Efthimios Bakogiannis
- *Optimising spatial climatic accessibility to public transport: a data-driven approach*, Or Aleksandrowicz, Daniel Rosenberg and David Pearlmutter
- *Assessment of solar photovoltaic potential of building rooftops based on multicriteria spatial analysis*, Natasha Malijanska Andreevska, Gjorgji Gjorgjiev and Emilija Bozhinov
- *Entity Resolution for 3D Object Matching Across Different Levels of Detail*, Bar Genossar, Guy Ilizirov, Aviram Borko, Avigdor Gal and Sagi Dalyot

19:00-22:00 Social dinner -" Park Boutique Hotel " Varaždin

<https://www.park-boutique-hotel.eu/>

(Please sign up in the registration form)

Day 3 - Wednesday 19/06/2024

8:30-09:00 Registration (Location: building UNIN-2)

9:00-10:00 Keynote presentations, chair: Olga Bjelotomić Oršulić

- Keynote presentations
 - Digital Twins in City Infrastructure, Vojkan Gavrilović/GDi
 - A Tale of Two (Smart) Cities: on Reusable Elements for Mining Spatial Data with Missing Information, Avigdor Gal
- Discussion

10:00-11:30 Session 3: Systems and technologies for smart cities, chair: Or Alexandrowicz

- *Harnessing Remote Sensing Technologies for Successful Large-Scale Projects*, Josip Lisjak, Stjepan Keleminec and Matej Petrinović
- *Overview of existing extrinsic camera calibration methods for mobile mapping systems*, Luka Zalović and Siniša Mastelić-Ivić
- *Road Network Management – utilizing BIM and GIS platforms*, Goran Puž and Marko Šimac
- *The Potential of Spectral Remote Sensing Applications to Extract Valuable GIS Data*, Fadi Kizel.
- *Digital transformation of space through 3D virtual tours*, Sanja Tucikešić, Jovana Popović, Tanja Đukanović and Miroslav Vujasinović
- *How Trimble is looking at the BIM industry - From the project lifecycle by connecting the physical and digital worlds to the end result to give tools to provide more accurate information to make right decisions*, Dario Conforti

11:30-12:00 Coffee Break

12:00-13:30 Session 4: 3D Models and Applications for transformative cities, chair: Hartmut Müller

- *Assessment of Zagreb city 3D model*, Vlado Cetl, Darko Šiško, Hrvoje Matijević and Danko Markovinović
- *BIM-GIS Integration for creating an interactive, open and low-cost 3D Land Use Registry for fit-for-purpose Urban Neighborhood Management*, Dimitra Andritsou and Chryssy Potsiou

- *Challenges in developing a digital twin for urban planning*, Darko Šiško, Vlado Cetl and Hrvoje Matijević
- *Determination of areas with release potential of snow avalanche in Sharr Mountains in the Republic of Kosovo*, Bashkim Idrizi, Besian Bucaj and Fitore Bajrami Lubishtani
- *Upskilling the workforce to meet the challenges of digital transformation – DIS4SME project*, Hrvoje Matijević, Giacomo Martirano, Simon Vrečar, Matej Mertik and Nikola Kranjčić

13:30-14:30 Lunch Break

14:30-15:00 Closing session, chair: Danko Markovinović

Day 4 - Thursday 20/06/2024

09:00-18:00 Excursion - Optional

- **additional fee (application within registration form)**

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