



**University North, Croatian Geodetic Society
under the umbrella of FIG Commission 3 and Erasmus+ program BIRGIT**

2nd Call for Papers

Challenges and Opportunities in BIM-GIS Integration (COBGI24)

<https://figcom3-ws-croatia2024.hgd1952.hr/>

Welcome

The COBGI 2024 workshop explores the use, analysis, and integration of 2D/3D digital modelling for the effective and scalable management of built environments. More specifically, the workshop will focus on the challenges and opportunities when integrating Building Information Modeling (BIM) and Geographic Information Systems (GIS) for the above.

The integration of BIM and GIS presents both challenges and promising opportunities in the field of spatial data management and infrastructure development. The fusion of BIM and GIS technologies has the potential to revolutionize the way we plan, design, and manage built environments. However, challenges arise in reconciling disparate data formats, standards, and methodologies between BIM and GIS systems. Bridging these gaps requires interdisciplinary collaboration, standardized protocols, and seamless interoperability.

The opportunities presented by BIM-GIS integration are substantial. This convergence enhances the accuracy and completeness of spatial information, enabling more informed decision-making in construction, urban planning, and facility management. It facilitates a holistic understanding of the built environment by combining geometric and non-geometric data, improving project coordination, and optimizing resource utilization. As industries increasingly recognize the advantages of this integration, the COBGI 2024 workshop will provide a forum for knowledge exchange, fostering innovation, and addressing the challenges inherent in this transformative process.

About the workshop

COBGI 2024 workshop is organized by University North, Croatia, and The Croatian Geodetic Society, under the umbrella of FIG (International Federation of Surveyors) Commission 3 and BIRGIT Project. FIG Commission 3 promotes academic and professional practice and standards in the field of Spatial Information Management, whereas BIRGIT, an Erasmus+ funded project with support from the European Commission, aims to develop interdisciplinary training courses that will provide students with competences for successful BIM-GIS integration. The workshop will serve as a forum for presenting and discussing the most interesting use cases and cutting-edge technologies related to BIM-GIS integration. The workshop will host participants and delegates from academia, industry, and national organizations from all over the world, with renowned keynote speakers, exhibitions and state-of-the-art research and development presentations and demos. COBGI24 will provide a fruitful meeting place for advancing technology, practice, and education, providing the setting for new cooperations.

The workshop will take place at the University North, Varaždin, Croatia, June 18-21, 2024.

For more information, please visit the conference website at <https://figcom3-ws-croatia2024.hgd1952.hr/>



Call for papers

COBGI24 will serve as a forum to present the latest challenges and opportunities in BIM-GIS integration for various applications and services. The workshop will provide an excellent opportunity to demonstrate recent research, developments, technologies, and policies, and to identify emerging tools, trends, and services.

Suggested topics - not limited to - for submissions are:

- Geospatial data and geo-analytics
- Smart cities, digital twins, GIS, BIM, and SIM
- Indoor and outdoor mapping and navigation
- 3D modeling, analysis, and visualization, VR and AR
- Geospatial planning, policies, and standards
- 3D data formats, standards, and interoperability
- BIM-GIS integration for construction, urban planning, and facility management and informed decision-making

Authors are invited to submit their **extended abstract** (in English) for oral presentation. The extended abstracts will be peer-reviewed by experts in the field according to their scientific value, impact, and originality of work. Authors of original and innovative extended abstracts will be invited to submit their work as a full paper to be published in a special issue of Technical Journal, free of charge, after the conference.

Oral presentation guidelines will be sent to authors upon acceptance.

Submitting your extended abstract

Please submit a *.pdf document no later than **April 15, 2024**, at <https://easychair.org/conferences/?conf=cobgi24>. Please make sure you fill all required details and submit your file without author details. All extended abstracts should be at least 1000 words and no longer than 1500 words in font size 12 and line-spacing 1.5. Extended abstracts must include a clear title, keywords, and a summary of your contribution (i.e., scientific field, research question and objectives, solution, and experimental evaluation). Integrating illustrations, tables, preliminary results, and references is encouraged. Please make sure submissions do not include authors names (in the submitted file). Late submissions will be rejected.

Planned dates

1. Extended abstract submission due date – *April 15, 2024*
2. Decision notification – *April 29, 2024*
3. Revised extended abstract submission due date – *May 12, 2024*
4. Complete workshop registration – *May 27, 2024*

Should you have any question please email us at cobgi24@unin.hr

Scientific committee

Prof. Vlado Cetl, University North, Croatia, Chair

Dr. Sagi Dalyot, Technion, Israel, Co-chair

Prof. Bashkim Idrizi, University of Mother Teresa, Skopje, North Macedonia

Dr. Ana Shnaidman, Survey of Israel, Israel

Prof. Gábor Timár, Eötvös Loránd University, Hungary

Prof. Yerach Doytsher, Israel Licensed Surveyors Association, Israel

Prof. Anka Lisec, University of Ljubljana, Slovenia

Prof. Hartmut Muller, Hochschule Mainz, Germany



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International Federation of Surveyors
Fédération Internationale des Géomètres
Internationale Vereinigung der Vermessungsingenieure
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Spatial Information Management

Prof. Sanja Tucikešić, University of Banja Luka, Bosnia and Hercegovina

Prof. Mladen Kustura, University of Mostar, Bosnia and Hercegovina

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