

EUROPA-CENTER Suhr BIM Prize

Call for entries for the 2024 study prize

Under the patronage of

Ms. Senator Karen Pein

Senator for Urban Development and Housing of the Free and Hanseatic City of Hamburg
the professorship for

Digital Integrated Process Management - Planning (Building Information Modeling - BIM)

at the HafenCity University Hamburg,

in cooperation with the

EUROPA-CENTER Uwe Heinrich Suhr Foundation,

awards for the 3rd time the

"EUROPA-CENTER Suhr BIM Prize".

The focus this year:

Concepts for the implementation of BIM use cases in the life cycle of buildings using open-source software, provision of data for external, non-IFC-based processes

Building Information Modeling is based on the integrated collaboration of various stakeholders who collaboratively plan and design buildings of all kinds using different tools. Interoperability is a prerequisite if this collaboration is to take place beyond the boundaries of software ecosystems. In our view, the use of open standards (open BIM) is essential. The use of proprietary tools and formats is being supplemented more and more by an increasingly dynamic open-source scene in specialist circles. Entries can therefore also be submitted that not only use proprietary tools, but also open-source tools.

In addition, information management with BIM should no longer be viewed solely in relation to a geometric context. Rather, information requirements in the life cycle of buildings should be prepared in such a way that different information queries can be linked to different processes (linked data). This can be done via various forms of databases or interfaces and thus allows the data linked to a model to be processed independently of standard BIM-programs. At the same time, it enables a much more differentiated approach to data management and allows the involvement of stakeholders who could previously hardly be involved in data management using "classic" BIM.

Against this background, this year's EUROPA-CENTER Suhr BIM Prize is specifically aimed at outstanding student research projects that focus on the use of open-source tools or the connection of BIM with external processes. **However, thesis with a different thematic focus in the field of BIM can also be submitted.**

The following aspects can be addressed (**Suggested topics - not mandatory!**):

- **Digital building models for external processes**
 - Connection and use of external databases for information management, data streaming from/into the model
 - Linked data
 - Import/Export of Data out of and into the model in other formats
 - Access and/or editing of BIM data without classic authoring programs.
- **BIM and AI**
 - AI-based evaluations of building information models (e.g. for LCA, costs, circularity)

- Use of AI to develop models using existing or self-developed programs/algorithms (e.g. for design, parametric, analysis)

1. About the professorship:

The Suhr Endowed Professorship for Digital Integrated Process Management focuses on the scientific examination of digital planning tools and information management in the planning, construction and operation of buildings. The consideration of processes and procedures in an interdisciplinary context plays an important role here, as does the change in job profiles associated with digitalization. Of central importance here is the practice-oriented teaching of the cooperative working method of Building Information Modeling (BIM) in research and teaching.

2. Conditions of participation:

- Theses written in German or English and not older than 2 years (submission or defence date from winter semester 22-23) will be considered.
- Bachelor's and master's students from European universities¹ in the fields of architecture, civil engineering, urban planning or related disciplines are eligible to participate.

3. Documents to be submitted

- Exposé (max. 3 DIN A4 pages, printed on one side), in which the qualification of the thesis is presented in accordance with the award criteria (EN/DE)
- The complete thesis (EN/DE), including proof of grades (if available)
- contact details

4. Submission:

Please submit your competition entry as a .zip archive with the following title: "BIM-Price_2024_surname_title of the thesis_MA (or BA)" via the HCU Cloud: <https://cloud.hcu-hamburg.de/nextcloud/s/pSftM9YApJsrf>

5. Prizes

Three prizes will be awarded in each of the categories "master's thesis" and "bachelor's thesis" with the following prize amounts

Master:		Bachelor:	
1. Price	3.000 €	1. Price	2.000 €
2. Price	2.000 €	2. Price	1.250 €
3. Price	1.000 €	3. Price	750 €

6. Jury members:

The jury consists of 5 experts from business, associations, the public sector, research and the awarding institutions. The members will be announced shortly.

7. Dates

- Call for entries: July 2024
- Submission of entries: by 27.09.2024
- Jury Meeting: October 2024
- Award ceremony: November/December 2024

7. Evaluation criteria:

- Innovative approach of the work in connection with this year's thematic focus
- Scientific competence and potential for further research projects
- Methodological approach and depth of elaboration
- Consideration of the linking of individual work processes based on BIM
- Practical relevance

¹ European universities from the following countries: EU member states, Switzerland, Norway, Great Britain, the Western Balkan states, Turkey, Ukraine and Moldova

8. Contact for questions:

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