

# H-BI(M)ON – Heritage Building Information Modeling/MONitoring

## From Reality to Model and back



### About

The conference focuses on fostering interdisciplinary discussions on the complex topic of reality modeling and abstraction to create a digital information model. This process becomes particularly challenging when applied to heterogeneous and non-standardizable contexts, such as the architectural and structural elements specific to Cultural Heritage.

The main objective is to showcase cutting-edge research in this area, by facilitating exchanges between different research groups, allowing for a comparison of approaches, expertise, and goals. Throughout the technical sessions, the concept of a "digital twin" for historic buildings will be explored, with special attention to its potential applications for heritage conservation and management. Key topics of discussion will include semantics, structural analysis, damage monitoring, model validation, and data management, with the goal of enhancing current processes and fostering new, shared methodologies and approaches.

### Thursday, 30<sup>th</sup> January 2025

9.00 | **Opening**

10.00 – 13.00 | **Semantics and OPEN BIM**

Chair: *Nazarena Bruno, Fulvio Rinaudo*

Presentations: *Donatella Fiorani, Marta Acierno, Silvia Cutarelli, Antonella Di Luggo, Simona Scandurra, Emanuela Lanzara, Filippo Diara, Alessandra Pili*

14.30 – 17.30 | **Information management for Planned preventive conservation**

Chair: *Chiara Vernizzi, Renata Picone*

Presentations: *Renata Picone, Marcello Balzani, Federica Maietti, Andrea Adami, Olga Rosignoli, Daniele Treccani, Barbara Scala, Luigi Fregonese, Nazarena Bruno, Francesco Fassi*

### Friday, 31<sup>st</sup> January 2025

9.00 – 11.00 | **BIM to DT – Structural analysis**

Chair: *Federica Ottoni, Gianni Bartoli*

Presentations: *Maria Rosa Valluzzi, Luca Sbrogiò, Grazia Tucci, Michele Betti, Silvia Monchetti, Giovanni Castellazzi*

11.30 – 12.30 | **BI(M)ON - Monitoring**

Presentations: *Mattia Previtali, Luigi Barazzetti, Carlo Biagini, Gianni Bartoli, Michele Betti, Rosario Ceravolo*

12.30 – 13.30 | **Round table**

Chair: *Donatella Fiorani, Grazia Tucci*

**Scientific committee:** *Marcello Balzani, Gianni Bartoli, Michele Betti, Nazarena Bruno, Donatella Fiorani, Federica Ottoni, Renata Picone, Fulvio Rinaudo, Riccardo Roncella, Grazia Tucci, Chiara Vernizzi*

**Conference proceedings:** By 1<sup>st</sup> March 2025, registered participants will have the opportunity to submit a brief abstract (300-500 words), which will be reviewed by the Scientific Committee for the publication of papers (20,000-30,000 characters, Italian language) in the conference proceedings (**Collana MADLab** – Edizioni Quasar). Simultaneously, a special issue of **MDPI - Heritage**, international Open Access journal indexed within Scopus, will be open for submissions, in accordance with the journal's editorial guidelines and peer-review standards.

**Venue:** Centro Santa Elisabetta – Parco Area delle Scienze 95, CAMPUS Universitario – PARMA  
During the technical sessions, remote access will also be available at the following [link](#).

**Registration:** e-mail to [madlab@unipr.it](mailto:madlab@unipr.it) with the subject: REGISTRATION H-BIMON\_Surname Name, within 15<sup>th</sup> January.

The event is organized by MADLab (Monitoring, Analysis, and Diagnostics Laboratory of the University of Parma), with the patronage of SIRA, CIPA and UID and with the participation of ingenio and of the Professional Orders of Architects and Engineers of the Province of Parma. For more information and updates on the program, please visit [www.madlab.unipr.it](http://www.madlab.unipr.it)