

2ND INTERNATIONAL LECTURES CYCLE DAY

VISUALISING AND DEFENDING VALUES IN ARCHITECTURAL HERITAGE CHANGES

JULY 18th, 2024



REGISTRATION
ZOOM LINK >>





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Project Action



Funded by
the European Union



Multi-eth-Built values' Ontologies to improve Built Heritage
Information Communication in Cultural Heritage
HORIZON Marie Skłodowska Curie Actions Fellowship
Project number: 101004433

Partnership



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On-cover Photocollage: Raffaella De Marco

Organized by: University of Pavia, Al-Quds University

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Collaborators and Facilities



DIPARTIMENTO
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DAda-LAB
DRAWING ARCHITECTURE OCCUPATION



PLAY
Photography and 3D Laser for virtual Architecture Laboratory



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Scientific Chairs



Dr. Raffaella De Marco [University of Pavia, Italy]

Ph.D., Engineer, Architect, Marie Skłodowska-Curie Fellow Researcher at the University of Pavia. Her research specialisation deals with digital documentation strategies and Information Systems on Cultural Heritage, for valorisation and promotion of Heritage and Endangered sites by Virtual Heritage means.



Prof. Dr. Francesca Picchio [University of Pavia, Italy]

Associate Professor, Ph.D., Architect, director of DAda-LAB. Research laboratory at the University of Pavia. Her research specialisation deals with systems of representation and digital survey of landscape and urban assets, experimenting 3D modelling and census methods for academic, didactic and professional uses.



2nd event International Lectures Cycle

“Visualizing and Defending Values in Architectural Heritage Changes”

Scientific Chairs: Dr. Raffaella De Marco, Prof. Dr. Francesca Picchio

Organizing Secretariat: Arch. Rola Abu-Hilal

The cycle of lectures intends to address issues on the cultural, social, economic, and archaeological values associated with Architectural Heritage, in particular highlighting the application of digital technologies, from documentation to 3D representation, and the opportunities for dissemination and interaction through narrative digital environments. The study theme defines a dynamic framework for in-depth studies and reflections on Cultural Heritage, where history and community contribute to writing a changing vision between memory and actuality. In this way, the value and significance of Architectural Heritage can be consciously directed towards its understanding, sharing and protection by the civil society.

The second event, organised and moderated by Dr. Raffaella De Marco and Prof. Francesca Picchio from the University of Pavia (Italy), is organised on 3 panels: “Landscape”, “(IM)Materiality”, “Legacy”, and features international professors and researchers from Italy, Poland, Romania, Cyprus, Palestine and United Arab Emirates. Among presented research, doctoral studies, international funded projects and humanitarian-academic collaborations for knowledge, preservation and social awareness of Architectural Heritage sites.

For more information about MOEBHIOS project and the lecture cycle:



moebhioshorizonmcs.wixsite.com/action



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The activities are funded by the European Union through the Horizon Europe project “MOEBHIOS - Multi-attribute values’ OntologiES to improve Built Heritage InformatiOn assessment in cluStered territories” (project n° 101064433)



Program

CEST Time (Rome zone)

Openings

09:00 Greetings and Introduction

Panel 1

LANDSCAPE_ Valorising Heritage towards Representation and Experience

09:30 **Documenting and representing to safeguard heritage in fragile contexts:
the use of digital technologies between architecture and archaeology**

Prof. Marianna Calia, Dr. Rossella Laera
University of Basilicata (Italy)

10:00 **Enhanced city experience through virtual tours**

Prof. Justyna Borucka
Gdańsk University of Technology (Poland)

10:30 Roundtable with Moderators

11:00 Break



Panel 2

(IM)MATERIALITY_ Heritage Perception through Time and Means

11:30 **Phygital Heritage: A Potential Medium for Heritage Communication through the Integration of Digital Technology into Physical Reality**

Dr. Eslam Nofal

University of Sharjah (United Arab Emirates)

12:00 **From archive to model: methodological processes for the reconstruction, verification and restitution of the intangible heritage of the Ponte Vecchio in Pavia.**

Dr. Silvia La Placa, Dr. Francesca Galasso

University of Pavia (Italy)

12:30 Roundtable with Moderators

13:00 Break



Panel 3
LEGACY_ Tracing and Reclaiming Heritage in Multiplicity

14:30 **Transmissible Identity Values in Rural Saxon Architecture from Transylvania, Romania**

Dr. Alina Elena Voinea
Technical University of Cluj-Napoca (Romania)

15:00 **From Chronicles to Virtuality: Digitally Preserving Aleppo's Architectural Legacy**

Dr. Rahaf Orabi
The Cyprus Institute (Cyprus)

15:30 **Virtual Reconnection: Reclaiming awareness towards Palestinian Heritage through digital tools**

Arch. Ehab M. Alafandi, Arch. Abdel Rahman Kaloti
Al-Quds University (Palestine)

16:00 Roundtable with Moderators

16:30 **Closing Remarks**

PANEL 1

LANDSCAPE_Valorising Heitage towards Representation and Experiiece





Prof. Marianna Calia

Dr. Rossella Laera

University of Basilicata (Italy)

Documenting and representing to safeguard heritage in fragile contexts: the use of digital technologies between architecture and archaeology

In an era considered to be in crisis, tangible and intangible cultural heritage is exposed to phenomena that accelerate its degradation and very often cause its disappearance. Natural disasters and their causes, which are often anthropogenic, make it difficult to protect architectural and urban heritage and to arrange contemporary projects in fragile contexts. It would be desirable to consider at the same time the relationship between building and context, between unforeseen events and environmental fragility, to ensure a useful margin of time to develop a “culture of protection”.

This is the case of the archaeological sites, custodians of fragments of our history that are constantly being revealed thanks to the daily work of archaeologists, architects, historians, and restorers. Intervention in contexts with a high historical value and environmental risk, entails changes in spatial relations in the urban structure and in the relationship with the context, thus requiring a cognitive and representative response capable of confronting the community and the contemporary city.

The research investigates the theme of Augmented Reality as an explorative strategy applied to the design of Architecture in fragile contexts with a case study in the archaeological site of Metaponto (Matera). The interaction between architecture and archaeology through AR makes it possible to document the testimonies of the past innovatively, enriching the methodological and fruition processes of heritage linked to accessibility, also virtual, in contexts not yet included in active cultural networks.



Prof. Justyna Borucka

Gdańsk University of Technology (Poland)

Enhanced city experience through virtual tours

As Rebeca Solnit once noted: *"Cities have always offered anonymity, variety, and conjunction, qualities best basked in by walking.... A city always contains more than any inhabitant can know, and a great city always makes the unknown and the possible spurs to the imagination."* Urban walks, guided by professionals or residents, reveal the intricate design and diverse narratives of a city. Digital tools now enhance this exploration, offering new ways to perceive and experience urban spaces. This presentation examines how digital methods reshape public space experiences and influence city development from fresh perspectives. It delves into urban planning, social engagement, and digitization, using Gdańsk as a case study. Gdańsk, a city with a rich history spanning over a millennium, is now a symbol of the digital age through its innovative use of virtual tours. Highlighting various walking activities, including virtual ones, this presentation showcases their potential as powerful urban planning tools. The digital walking experiments within the Prometheus research project summer school workshops along with the elective courses at the Gdańsk University of Technology, involving international researchers and students, will be featured. These activities offer unique routes to explore the city's distinctive architecture and celebrated history, demonstrating the transformative impact of digital tools on urban exploration.

PANEL 2

MEMORY _Mapping and Communicating Heritage in the Contemporary Society





Dr. Eslam Nofal

University of Sharjah (United Arab Emirates)

Documentation, preservation and dissemination strategies for academic related heritage

Heritage forms a unique asset by expressing the richness and diversity of our history, possessing vast amounts of information that varies from factual and explicit, to more tacit and embedded. Tacit knowledge of heritage is typically more challenging to communicate to visitors in understandable and engaging ways due to its implicit and abstract character. Therefore, this lecture presents how heritage information can be communicated to visitors in more engaging, educational and meaningful ways. Thus, the approach of "Phygital Heritage" will be presented, which entails how heritage information can be disclosed via simultaneous and integrated physical and digital means. We hypothesize that this approach forms a potential medium for more engaging and meaningful communication of heritage information to a broader public.

The lecture will also present a set of in- the-wild studies, in which interactive prototypes were designed and deployed in real-world heritage and museum environments to explore how the 'Phygital' approach facilitates the communication of built heritage information to museum visitors and how it affects user engagement.



Dr. Silvia La Placa
Dr. Francesca Galasso
University of Pavia (Italy)

From archive to model: methodological processes for the reconstruction, verification and restitution of the intangible heritage of the Ponte Vecchio in Pavia

The presentation intends to briefly illustrate part of a broader research project, whose ambition is the dissemination and valorisation, through interactive modes of representation, of the architectural phases that characterised the no longer existing Ponte Vecchio bridge over the Ticino, in Pavia. In 2021, the city of Pavia celebrated the 70th anniversary of the new Ponte Coperto, built following the demolition of the 14th-century one. Despite the long-standing and fierce opposition to the demolition and the proposals to restore the ancient piers, damaged by World War II bombings, only a few ruins remain of the fortified bridge. From these premises comes the need to study, analyse and return the ancient symbol to the city, in virtual form, making use of the possibilities offered today by digital technology.

The reconstruction of this now intangible heritage, and of the material forms it has taken over more than six centuries of modifications and stratifications, becomes possible starting from a critical in-depth study of surveys and drawings preserved in numerous archives. The different architectural components, which over time have qualified the monument on an aesthetic and functional level, are reproduced through the application of virtualisation and 3D modelling strategies. The experimentation, aimed at the narration of the historical macro-phases and their possible verification methods, also through integrated documentation procedures of the underwater remains, is configured as an attempt to systematise a replicable methodology 'from the archive to the digital model' for the narration of an invisible heritage.

PANEL 3

LEGACY_ Tracing and Reclaiming Heritage in Multiplicity





Dr. Alina Elena Voinea

Technical University of Cluj-Napoca (Romania)

Transmissible Identity Values in Rural Saxon Architecture from Transylvania, Romania

Is the intergenerational transmission of values considered in the decision-making spectrum of architects in creating new values? The space for inherited values and the one that allows the generation of new values meet in a place continuity and cultural palimpsest. The presentation is an invitation to discover the rural landscape under architectural and human aspects without leaving out the unseen and intangible values of the archaic world. With attachment to the traditional values, the objective of the study is to explore and allow visions of healthy rural organism development given the complexity of material and immaterial heritage. The study explored the situation of the Saxon heritage from Transylvania, Romania as an example of transmission of values. The Saxon legacy is threatened while the descendants of the Saxons, the Romanians and the Roma are affirming themselves. Architecture expresses the change. In this space-time context, what is the transmissible identity value apparatus? Research brings a new perspective in the identity negotiation of architectural values. The architecture of the Saxons of southern Transylvania is a story of becoming, transformation and metamorphosis. The cultural changes in the Saxon village make their mark on the instinctively developing rural landscape. Rural Saxon architecture is in transition from growth and intuitive modelling through the collective intelligence of the archaic man to a cult form shaped by a new instance of the village, the architect.



Dr. Rahaf Orabi

The Cyprus Institute (Cyprus)

Digital survey for the restoration of Al Raabyia Mosque From Chronicles to Virtuality: Digitally Preserving Aleppo's Architectural Legacy

Digital technology provides the tools to preserve, in time, anchor points of the history of cities. With 3D documentation, we are able not only to record the present but also to predict the future and reconstruct the past. 3D workflows have become a valuable tool for heritage experts. They enable historians, architects, and urban planners to understand the city's evolution over time, especially in the face of natural disasters and war. Digitization of heritage is an established practice that proved to be an indispensable first step for a wide variety of projects, from virtual to physical reconstruction and the creation of digital twins. This contribution will present the digital pipeline for the 3D documentation of a section of the Old City of Aleppo and discuss its role in the analysis, preservation, and restoration of the city's cultural heritage. Reality capture models created for Aleppo not only serve as a record of the present state of conservation but also guide decisions related to strategies of safeguard cultural heritage while also ensuring its sustainable development.



Arch. Ehab M. Alafandi

Arch. Abdel Rahman Kaloti

Al Quds University (Palestine)

Virtual Reconnection: Reclaiming Awareness towards Palestinian Heritage through Digital Tools

The cultural heritage of Jerusalem has become largely inaccessible to many Palestinians due to the Israeli occupation separation and closure policies in addition to the apartheid segregation wall. This lecture explores the role of digital documentation techniques and tools as a means to raise awareness about the rich heritage of Jerusalem. The study aims to document and disseminate the untold stories of significant historical buildings by using different digital tools and techniques like virtual tours, digital modeling and others. By mapping these sites and narrating their original stories in a radio program on a Jerusalemite radio channel (Yaboos FM), prominent heritage buildings in Jerusalem were explored in a narrative and nostalgic social approach. As a result, nostalgia was evoked and a connection with the past among the community was fostered.

The second step included the development of 360 virtual tours, in combination with the narratives broadcasted. Architecture students from Al-Quds University were engaged in creating 3D digital models, enabling virtual exploration of these heritage buildings for the community prohibited from entering Jerusalem. This approach not only attempts to preserve the cultural legacy but also serves as a form of resistance and resilience against the occupation practices to forge history and obliterate cultural heritage. Attendees will gain insights into the process and the role of digital tools in fostering heritage awareness, maintaining cultural identity and historical continuity, in addition to bridging physical divides to ensure that the stories of Jerusalem's heritage continue to be told and experienced, despite the Israeli occupation practices.