

Virtual Workshop Invitation

Innovative Technologies for Surveying Activities in Heritage Contexts | 14-15 January 2025

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This workshop explores the synergy between cutting-edge digital technologies and heritage preservation focusing on advanced surveying techniques for historic buildings. Participants will engage with innovative tools, including image-based techniques such as photogrammetry and range-based techniques like terrestrial laser scanning.

At the end of the workshop, participants will receive material in the form of a folder containing video lectures, software (30-day trial) and exercises to confront the issues firsthand and try to replicate the methodology with a selected case study historic building in a location of their choice based on the equipment available locally.

Registration now!

The workshop is designed for Architecture Engineering and Archaeology students and their faculty members across all Iraqi Universities.


To register and receive the full workshop program and ZOOM link please email Eng. Farah Ahmed on farah.ahmed@uobasrah.edu.iq

Workshop time: 11.00 am - 2.30 pm Iraq local time
9.00 am - 12.30 pm Italy & 8.00 am - 11.30 am UK

Organizers

Dr Sura Al-Maiyah, Loughborough University, UK 

Professor Luigi Petti, University of Salerno, Italy 

Dr Hamed Samir, University of Basra, Iraq 

Eng. Farah Ahmed, University of Basra, Iraq

Speakers (University of Salerno)



Dr Carla Ferreyra



Dr Marco Limongiello



Dr Sara Antinozzi



Basra Heritage - Climate change, Old Basra traditional architecture

We are pleased to invite you to attend this forthcoming virtual workshop on **Innovative Technologies for Surveying Activities in Heritage Contexts** to be held 14-15 January 2025. This event is part of the Nahrein Network/UCL-funded project '**Climate Change and Old Basra Traditional Architecture**' Project activities.

[Basra Heritage - Climate change, Old Basra traditional architecture](#)

Workshop Description:

This workshop explores the synergy between cutting-edge digital technologies and heritage preservation focusing on advanced surveying techniques for historic buildings. Participants will engage with innovative tools, including image-based techniques such as photogrammetry and range-based techniques like terrestrial laser scanning. The program highlights the seamless integration of these approaches to enhance documentation, analysis, and preservation strategies, equipping attendees with practical expertise to achieve more precise and effective heritage management.

At the end of the workshop, participants will receive material in the form of a folder containing video lectures, software (30-day trial) and exercises to confront the issues firsthand and try to replicate the methodology with a selected case study historic building in a location of their choice based on the equipment available locally.

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Workshop program

Workshop Welcome and Introduction (11.00-11.15 Iraq local time)

- Dr. Sura Al-Maiyah, Loughborough University, United Kingdom
- Prof. Luigi Petti, University of Salerno, Italy
- Dr. Hamed Samir, University of Basra, Iraq

List of lessons and activities

Day One: Range-Based Techniques (Dr Carla Ferreyra & Dr Marco Limongiello)

- Digitization to promote and valorize Cultural Heritage (11.15-12.15)
- Historic architecture survey integration: a case study (12.15-1.15)
- Introduction to Terrestrial Laser Scanning (1.30-2.30)

Day Two: Image-Based Techniques (Dr Marco Limongiello & Dr Sara Antinozzi)

- Introduction to modern Photogrammetry (11.00-12.00)
- Close-range photogrammetry for historic architecture: a case study (12.00-1.00)
- Immersive photography and virtual tour for expeditious documentation of heritage (1.15-2.15)

Workshop closing remarks (2.15-2.30)

- Prof. Luigi Petti, University of Salerno, Italy
- Dr. Sura Al-Maiyah, Loughborough University, United Kingdom
- Dr. Hamed Samir, University of Basra, Iraq

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Workshop Speakers

Carla Ferreyra (Ph.D.) is a Researcher (RTDA) at the Department of Civil Engineering, University of Salerno. She obtained a double Master's degree in Building Engineering-Architecture at the Universidad Nacional de Córdoba and the University of Salerno. Her research activity focuses on the Digital Conservation of Cultural Heritage through the implementation of innovative projects for its transmission to future generations.



Marco Limongiello (Ph.D.) is a European PhD in 'Risk and Sustainability in Civil Engineering, Architecture, and Environmental Engineering Systems'. Adjunct Professor of Drawing at the Department of Civil Engineering, University of Salerno. His research activity focuses on infographic technologies for the survey and representation of architectural, archaeological and environmental heritage.



Sara Antinozzi (Ph.D.) is a Researcher (RTDA) at the Department of Civil Engineering, University of Salerno, where she previously graduated in Building Engineering-Architecture. Her research activity focuses on the implementation and integration of multi-scalar survey processes - with a focus on digitisation at sub-millimetre resolutions - infographic models and immersive technologies for heritage representation and dissemination.



Event Feedback:

An information questionnaire will be sent to the participants to assess which of the topics covered can be further explored in follow-up workshops and activities.

We are looking forward to your participation in the workshop

