

Workshop Digitalization of Cultural Heritage GI Informatik Festival 2025

Sep. 19th 2025, Workshop Program

9:00 Workshop Opening

- **Greeting Messages**
 - Prof. Dr. Ulrike Lucke, General Chair INFORMATiK 2025
 - Christine Regitz, President Gesellschaft für Informatik
 - Dr. Hassan Al-Haidari, Counselor, Head of Culture Department at the Embassy of the Republic of Iraq in Berlin
 - Dr. Moafaq S. Samir, Director of International Organisations Department, Ministry of Higher Education and Scientific Research, Iraq
- **Keynote:** Ayoob Thanoon, President of the Mosul Heritage Foundation:
The Role of Youth in Post-Conflict Heritage Preservation: The Case of Mosul

10:00–10:30 Paper Session 1

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| • Integrating cultural heritage and ancient antiquities with the digital age:
Evidence from the city of Mosul | Omar Khalel |
| • Designing an Interactive Database for Preserving the Heritage of Mosul City | Mohammad Aldabbagh |
| • Discussion | |

10:30 Coffe Break

11:00–11:45 Paper Session 2

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| • GAN-Based Digital Restoration of Abbasid Coin Inscriptions: A CycleGAN Approach to Numismatic Enhancement | Akram T. Zeyad |
| • Sharpness Enhancement of Archaeological Images Using Grünwald-Letnikov Weights with Unsharp Masking | Basim Mahmood |
| • Computer Vision in Archaeology: Automated Cuneiform Recognition and Pronunciation | Elaf A. Saeed |
| • Discussion | |

11:45–12:30 Paper Session 3

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| • Digital Technologies and Their Role in Cultural Heritage Preservation: The Case of Jassan Hill | Hussein Ismael Ahmed |
| • Photogrammetry based digital twin for Mar Mattai Monastery | Areej Mohammed |
| • Hosh Al-Bay'ah Collection: An Immersive Multiplayer Virtual Museum | Adil Al Qaba |
| • Discussion | |

12:30 Lunch Break

14:00–14:35 Paper Session 4

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| • Resilient Digital Preservation Strategies for Conflict-Affected Cultural Sites: A Case Study of Sudan's Endangered Heritage | Gabass Mohammadali |
| • Preserving Heritage Using Photogrammetry and Virtual Reality: A Virtual Museum for Jebel Al-Barkal | Lina Alhaj |
| • Discussion | |
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14:35–15:10 Poster Session Pitch Talks

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| • <i>Global Historical Routes as a Tool for Disseminating and Preserving Cultural Heritage</i> | Sumaya Alsaffar |
| • Mapping Global Efforts in Cultural Heritage Preservation Through Network Analysis of Digitalization Technologies | Basim Mahmood |
| • <i>Applying Photogrammetric Methods to digitalize Key Elements of the Erbil Citadel</i> | Dina Allan |
| • <i>Digital Reconstruction of Mosul's Heritage Houses: A Network-Based Approach Using Gephi for Sustainable Development</i> | Abdula Alsarraf |
| • <i>Mosul: Preserving the After-effects of War</i> | Adil Al Qaba |
| • <i>Digitizing Cultural Heritage: Creating the Digital Twin of Mosul's Clock Church</i> | Abdalmhman Ammar Younis |
| • Global Fermentation Heritage: Interweaving Traditions and Networks in Beverage Craftsmanship | Basim Mahmood |
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15:10 Poster Session

15:30 Poster Session (cont) and Coffee Break

16:30–17:15 Paper Session 5

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| • <i>Photogrammetric Modeling and Evaluation for the Documentation of Cultural Heritage in the Erbil Citadel</i> | Aland Ameer |
| • <i>Music Maze: A VR Approach to Exploring Cultural Music Heritage</i> | Lilian Drabinski |
| • Adapted 2D QR- code for cuneiform tablets digitization | Ann A. Jarjes Alkazzaz |
| • Discussion | |
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17:15 – 18:00 Discussion and Closing of Workshop

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| • Discussion session: Working Areas, Cooperation etc | Workshop Chairs |
| • Closing | |

The workshop is a hybrid workshop. Student papers are in italic.

Workshop Chairs:

- Prof. Dr. Christina B. Class, EAH Jena
- Prof Julia Schnitzer, TH Brandenburg
- Prof. Dr. Paul Grimm, HS Darmstadt