

## Workshop Digitalization of Cultural Heritage GI Informatik Festival 2025

Sep. 19<sup>th</sup> 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 | Shaymaa M. Alnaqeeb |
| • Designing an Interactive Database for Preserving the Heritage of Mosul City                                 | Mohammad Aldabbagh  |
| • Discussion                                                                                                  |                     |

### 10:30 Coffee 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       | Zohair Al Ameen |
| • 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

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**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 Mohmmadali |
| • 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**

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**15:30 Poster Session (cont) and Coffee Break**

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**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