Workshop
Digitalization of Cultural Heritage
GI Informatik Festival 2024

Sep. 26th 2024, Preliminary Program

The workshop is a hybrid workshop. Presentations without any further information will take place on site. The other papers will be presented online.

Student papers are in italic.

9:00 Opening

- Greeting Messages
- Introduction to the workshop — Workshop Chairs

9:30–10:15 Paper Session 1

- Recommendations for student excursions for digitalization of cultural heritage — P. Grimm
- *Sustainable Automated 3D Scanning: Energy-Efficient Drone Photogrammetry for Large Scale Archaeological Sites* — B. Mahmood (Iraq)
- Real-time collection and archiving of related posts to cultural heritage on the cloud — S. Rashid (Iraq)
- Discussion

10:15-11:00 Paper Session 2

- *Reviving Hercules - A Photogrammetry Case Study* — L. Schwarze
- *Virtual Reconstruction of Al-Baroud Khana Building: A VR Model for the Cultural Heritage of Mosul* — B. Mahmood (Iraq)
- *Photogrammetric Analysis for Accurate Three-Dimensional Reconstruction of the Mudhafaria Minaret in Erbil, Kurdistan Region of Iraq* — S. Mustafa (Iraq)
- Discussion

11:00 Coffee Break

11:30-12:30 Paper Session 3

- Photogrammetry and iPhone LiDAR in Remote Places for Preparation of 3D-Objects in a Virtual Museum — U. Plank
- Using Digitization of the architectural heritage of old Mosul in promoting sustainable tourism/ideas and proposals for application — A. Taha (Iraq)
- Bridging Generations: Exploring Virtual Reality Tourism and Universal Design in an Intergenerational Civic Centre — M. Botrous (Sudan)
- Cultural Continuity in Crisis — G. Tahir (Sudan)
- Discussion

12:30 Lunch Break

14:00–14:45 Paper Session 4

- Digitization of Cultural Heritage: On Reduction, Construction and Ethical Concerns — C. B. Class
- Concise Analysis of Intangible Cultural Heritage Practices in Connection with Sustainable Development Goals — B. Mahmood (Iraq)
- Cloud-Based Data Classification Framework for Cultural Heritage Conservation — S. Rashid (Iraq)
- Discussion

14:45–15:30 Paper Session 5

- Integrating the Technologies of Image Processing and Virtual Reality for the Digital Preservation of Disappeared Archaeological Sites — Z. Al-Ameen (Iraq)
- *A Snapshot in Time and Space: Smart Digitalization of the Umayyad Palace* — J.T. Schrem
- Digital transformation of cultural Heritage in Sudan: An attempt to save a nation history, the case study of old Dongola and Al-Khandag, Sudan — A. Khalifa, L. Alhaj (Sudan)
- Discussion

15:30 Coffee break

16:30–17:30 Paper Session 6

- An Overview of Various 3D Scanning Methods in the Context of Cultural Heritage Documentation — A. Qader (Iraq)
- Capturing the Past: Photogrammetry for Safeguarding Sudanese Cultural Heritage Digitally — D. Abdalhaleem (Sudan)
- *Exploring the Boundaries of Digitalization of Cultural Heritage: Opportunities, Challenges and Future Directions* — S. Reckers
- Digitization of cultural heritage using photogrammetry: The case of Al Bidya Mosque — Z. Ahmed (Sudan)
- Discussion

17:30 Closing of Workshop

- Summary and Closing — Workshop Chairs