



CHALLENGES IN DIGITAL ARCHAEOLOGY

RESEARCH DATA MANAGEMENT - DIGITAL DOCUMENTATION METHODS - INNOVATION AND TECHNOLOGY

ARCHAEO- INFORMATICS 23. - 25. NOVEMBER 2022

PROGRAMME

23.11.2022/ Day 1

16:00 - 17:20 **Registration** (*for those in Istanbul*)
(Istanbul Time/ Berlin Time UTC +2)

17:30 - 18:20 **Welcome Addresses by**
Felix Pirson (*1. Director, German Archaeological Institut Istanbul*)
D. Burcu Erciyas (*Head of the Graduate Program in Settlement Archaeology, Middle East Technical University*)
Organisation Committee

18:30 - 20:00 **Keynote Lectures: Archaeo-Informatics/ Digital Humanities**
Hakan Melih Aygün (*Ministry of Culture and Tourism of the Republic Turkey*)
Izabella Anna Romanowska (*Aarhus Institute of Advanced Studies, Aarhus University, Denmark*)

24.11.2022/ Day 2

Section 1: Digital Documentation and Documentation Standards in Archaeology

General Overview (Chair: Lee Clare)

10:00 - 10:20 **SEADDA COST Action and Digital Archaeological Repositories Around in the World** (Nurdan Atalan Çayırmez, Deniz Çit, Holly Wright)

10:20 - 10:40 **Digital Documentation and Reuse of Data in Archaeology** (Kourosh Mohammadkhani, Tara A. Dehnavi)

10:40 - 11:00 **Data Science in Archaeology: A Bona Fide Attempt** (Tutku Tuncalı Yaman)

11:00 - 11:20 **The Relevance of (Digital) Archaeology Beyond Academia** (Ezgi Sevimli)

11:20 - 11:30 **Coffee Break**

Platforms and Initiatives (Chair: D. Burcu Erciyas)

11:30 - 11:50 **Dijital Kültürel Miras Ağı in Türkiye (Digital Cultural Heritage Network)** (Nurdan Atalan Çayırmez, Deniz Çit, Nimet Pınar Özgüner Gülhan, Ertan Özcan, Aslı Batırbaygil)



- 11:50 - 12:10 **Field Recording and Standards: Between Mandatory and Nice to Have** (*Simon Hohl, Thomas Kleinke, Fabian Riebschläger, Juliane Watson*)
- 12:10 - 12:30 **Implementing LandMan – Approaching Social and Technical Challenges in an Archaeology-Driven Collaborative Research Environment**
(*Steffen Strohm, Hartwig Bünning, Matthias Renz*)
- 12:30 - 12:50 **Modular Database of the Austrian Archaeological Institute: A Challenging Work in Progress** (*Helmut Schwaiger, Karl Burkhart, Micheline Welte*)
- 12:50 - 13:50 **Lunch Break**
- Standards and Methodologies** (*Chair: Dries Daems*)
- 13:50 - 14:10 **Open access and FAIR principles for archaeological data: A Case Study: The British Institute at Ankara's (BIAA) Digital Repository**
(*Nurdan Atalan Çayırmezmez, Gonca Özger, Orhun Uğur*)
- 14:10 - 14:30 **Game-Changing Technologies for Overall Documentation of Archaeological Sites** (*Selin Küçük*)
- 14:30 - 14:50 **Controlled Vocabulary of the Austrian Institute's Modular Database** (*Micheline Welte*)
- 14:50 - 15:00 **Coffee Break**
- Section 2 (Part 1): Archiving and Analysis of Digital Data** (*Chair: Nurdan Atalan Çayırmezmez*)
- 15:00 - 15:20 **Getting History into Shape(files): Digitizing 130 Years of Maps** (*Christof Berns, Julien Zurbach, Michael Breuer, Lisa Steinmann, Paula Cardona Villamil*)
- 15:20 - 15:40 **Possibilities and Challenges of QGIS in the Context of Excavation Illustrated by the Example of Boğazköy-Hattuša** (*Dominique Krüger*)
- 15:40 - 16:00 **Artificial Intelligence in Archaeology: An Overview and Challenges in Turkey** (*Nusret Demir, Cem Sönmez Boyoğlu, Deniz Kayıkçı*)
- 16:00 - 16:20 **Can Artificial Intelligence Help Archaeologists with Remote Sensing Data? A Preliminary Response** (*Jürgen Landauer*)
- 16:20 - 16:30 **Coffee Break**
- Section 2 (Part 2): Archiving and Analysis of Digital Data** (*Chair: Alkiviadis Ginalis*)
- 16:30 - 16:50 **Challenge Accepted! Managing 30 Years of Data in 3 Years - Preservation of Göbekli Tepe Research Data at DAI** (*Shabnam Moshfegh Nia*)
- 16:50 - 17:10 **Enriching Current Knowledge About the Roman Roads System in Anatolia. Network Graph Analysis of Two Provinces and What it Can Tell Us**
(*Jędrzej Hordecki, Marta Perlińska*)
- 17:10 - 17:30 **Digital Techniques and Tools in Archaeological Practice — Case Studies from Pergamon** (*Léa Geisler, Berslan Korkut, Bernhard Ludwig, Nicole Neuenfeld, İhsan Yeneroğlu*)
- 17:30 - 17:40 **Discussion**

18:00 - 20:00 **DAI Istanbul Evening Lecture**
What Does it Mean to Be 'Critical' When it Comes to Digital Data and Documentation in Archaeology and Heritage Studies? (Piraye Hacıgüzeller)

20:00 - 20:30 Drinks and Refreshments

From 20:45 Dinner for Conference Lecturers

25.11.2022/ Day 3

Section 3 (Part 1): Publication Methods of Digital Data (Chair: Onur Oezbalaban)

10:00 - 10:20 AR-chaology. Augmented Reality as an Archaeological Visualisation and Presentation Method (Fabian Stroth, Diana Miznazi)

10:20 - 10:40 Higher Education and Application of Digital Archaeology in Turkey (N. Pınar Özgüner Gülhan)

10:40 - 11:00 Hatch: House at Çatalhöyük. An Innovative Multidimensional Interactive Open Digital Educational Collection For Presenting Archaeological Assets (Patrycja Filipowicz, Arkadiusz Marciniak)

11:00 - 11:10 Coffee Break

Section 3 (Part 2): Publication Methods of Digital Data (Chair: Mareke Ubben)

11:10 - 11:30 From Artefact to Algorithm (Stephan Nicolaij, Silke Lange, Jelte van der Laan)

11:30 - 11:50 Dashur 4-D Reconstructions Between Speculation and Solid Data (Matthieu Götz)

11:50 - 12:10 Virtual Reality for Archaeological Data Production and Presentation (M. Hamdi Kan)

12:10 - 13:00 Discussion

13:00 - 14:00 Lunch Break

14:00 - 16:00 **Closing Section: The Challenge of Digital Archaeology**
Panel Discussion: Digital Humanities State-of-the-Art and Outlook

Panel Participants **Benjamin Ducke** (IT Department, DAI), **Izabella Anna Romanowska** (Aarhus Institute of Advanced Studies, Denmark and Barcelona Super computing Center, Spain), **Piraye Hacıgüzeller** (University of Antwerpen), **Nurdan Atalan Çayırmez** (British Institute at Ankara), **D. Burcu Erciyas** (METU), and **Lee Clare** (DAI Istanbul)

Moderation **Dries Daems** (METU)