



Ctrl+S Culture

AI and Heritage in a Digital World

19-21 November, 2025

Conference Programme

In Close Collaboration With:



[Register Here](#)

Day 1, 19 Nov 2025 (All Times in CET/Rome)

AI-Powered Innovation for Heritage

CET/Rome

13.30 - 13.40

Welcome and Introduction to the Conference

13.40 - 13.50

Inaugural Address

Aruna Francesca Maria Gujral, Director General, ICCROM

13.50 - 14.10

Keynote

The Future of Cultural Heritage: AI Technologies Between Protection, Restoration and Ethical Challenges

Anastasia Bondar, Deputy Minister for Digital Development, Digital Transformations and Digitalization

Parallel Breakout Sessions

AI-Enabled Climate, Disaster & Conflict Risk Management for Heritage

Session 01 (Room 01)

Soundcheck Social

Facilitator: Jui Ambani, Programme Officer, First Aid and Resilience for Cultural Heritage in Times of Crisis (FAR), ICCROM

Unlocking Spatial Memory: Deep Learning for Spatial Analysis of Historical Photography in Disaster Heritage Studies

Antonio Suazo, Chile

Heritage 2100: AI-Driven Climate-Time-Machine Games for Next-Generation Custodianship

Bruno Andrade, Brazil

Natural language Processing and the Mosul archives

Elah Cohen, United Kingdom

Mapping Flood Hazard Zones for Cultural Heritage Protection in Medan City Using Geo-AI Technology

Mayca Sita Nurdiana, Indonesia

Q and A - Unmute & Ask

Session 02 (Room 02)

Soundcheck Social

Facilitator: Aparna Tandon, Senior Programme Leader, First Aid and Resilience for Cultural Heritage in Times of Crisis (FAR), ICCROM

Assessing and Predicting Water Erosion Risks to Cultural Heritage Under Climate Change Using Explainable Machine Learning

Tianlian Wang, China

AI-Enhanced Digital Platform for Integrated Sustainable Cultural Heritage Management: Conceptual and Methodological Design

Hassan HajjAli, Lebanon

The Role of Artificial Intelligence in Heritage Emergency Situations: Crossed Perspectives on Post-Conflict Protection Challenges and Prospects of Saints' Mausoleums in Timbuktu, Northern Mali

Drissa Sinaly Coulibali, Mali

ChemiAI: Integrating AI into Cultural Heritage Monitoring

Noémie Gabay, Italy

Q and A - Unmute & Ask

14.10 - 14.55

14.55 - 15.05

10 Mins Break - Refresh and Reset

15.05 - 15.50

Panel Discussion

AI for Inclusive Heritage: Social Sensing and Community Engagement

Moderator:

Jui Ambani, Programme Officer, First Aid and Resilience for Cultural Heritage in Times of Crisis (FAR), ICCROM

Speakers:

Maleknaz Nayebi, York University

Ali Asgary, York University



15.50 - 16.10

Keynote

AI for Risk-Resilient Heritage: A Platform for Predictive Analysis, Prioritized Response & Global Coordination
 Natalia Makovetskaya - Sustainability and Heritage Advisor

16.10 - 16.20

10 Mins Break - Refresh and Reset

Parallel Breakout Sessions

Advanced Applications of AI in Conservation and Site Management

Session 01 (Room 01)

Soundcheck Social

Facilitator: Imene Khodja, Programme Intern, First Aid and Resilience for Cultural Heritage in Times of Crisis (FAR), ICCROM

Ring the Alarm – Harnessing AI in collection care
 Ayaka Ajiki, Singapore

The HERA Project: Holograms, annotations and AI for the biography of altered objects
 Muriel Verbeeck & Pierre Hallot, Belgium

FORSHelper: A Large Language Model (LLM) Assistant for using Fibre Optic Reflectance Spectroscopy (FORS) in pigment identification
 Naomi Rosenkranz, USA

Augmented Restoration with AI: making conservation visible. The case of the Buenos Aires Museum of Modern Art
 Rodrigo Alcon Quintanilha & Diamela Canosa, Argentina

ÇEKÜLGPT: AI-Driven Interpretation and Public Access to a Civil Society Organization's Archive
 Alper Can Kılıç, Turkey

Q and A - Unmute & Ask

Session 02 (Room 02)

Soundcheck Social

Facilitator: Mohona Chakraborty, Programme Officer, First Aid and Resilience for Cultural Heritage in Times of Crisis (FAR), ICCROM

CROMOARCHEOLOGY – Colorizing Memory: AI Approaches to Reconstruct Original Colours in an Ex-Clandestine Detention Center (ESIM El Faro – Mar del Plata, Argentina)
 Julio Cesar Maya Lozano, Argentina

From Data to Decisions: Using GeoAI to Protect Cultural and Natural Heritage under Climate Stress
 Ersun Varol, Turkiye

Metadata, Memory, and Machines: Rethinking Description with AI in Developing Contexts
 Muhammed Tehmash, Pakistan

AI-Based Visualization and Reinterpretation of Cultural Heritage: The Case Study of the 18th-Century Castle Interiors in Vojvodina
 Isidora Đurić, Serbia

Emergency preparedness and response in the age of Artificial Intelligence: An overview of the work of UNESCO in the field of culture
 Tural Mustafayev, Emergency Operations and Programmes Unit, UNESCO

Q and A - Unmute & Ask

16.20 - 17.20

17.20 - 18.30

Ctrl+S Café: Network and Reflect



Day 2, 20 Nov 2025

AI for Decoding Heritage

CET/Rome

13.30 - 13.40

Welcome and Introduction to the Conference

Panel Discussion

AI as a Tool to Understand Communities' Preferences in Heritage Sites

Moderator:

Xiaoxu LIANG, Politecnico di Torino, Italy

Speakers:

Nan BAI, Delft University of Technology

Yuting JIANG, College of Architecture & Urban Planning (CAUP), Tongji University, Shanghai, P.R.China; Department of Architecture and Design (DAD), Politecnico di Torino, Italy

Yan ZHOU, Delft University of Technology

Xinchen LI, Politecnico di Torino, Italy

13.40 - 14.25

Keynote

Uses and promises of AI solutions for Heritage Institutions

Frederik Truyen, Professor, KU Leuven

14.25 - 14.45

14.45 - 14.55

10 Mins Break - Refresh and Reset

Parallel Breakout Sessions

AI-Driven Documentation, Data Analysis & Pattern Recognition for Heritage

Session 01 (Room 01)

Soundcheck Social

Facilitator: Mohona Chakraborty, Programme Officer, First Aid and Resilience for Cultural Heritage in Times of Crisis (FAR), ICCROM

Digital Reconstruction and Spatial Application of Intangible Heritage Patterns Empowered by AI: A Case Study of Cloisonné

Fanghong Dang, China

Perspectives on Integrating an Ontology of Cultural Heritage and Values in Earthquake Damage Assessment and Documentation

Satwant Rihal & Hisham Assal, USA

Digitizing the Past, Building the Future: AI's Role in Africa's Cultural Heritage and Vision 2063

Mohammed Ali Mwenje, Kenya

Optimizing AI for Archaeological Site Detection: a generalizable analyst-ML workflow

Katherine Crawford, Spain

Q and A - Unmute & Ask

14.55 - 15.45

Session 02 (Room 02)

Soundcheck Social

Facilitator: Jui Ambani, Programme Officer, First Aid and Resilience for Cultural Heritage in Times of Crisis (FAR), ICCROM

AI-mediated interfaces for exploring cultural knowledge repositories

Nicola Carboni, USA

From Stones to Servers: Digital Heritage and the Future of AI/IA

Nailah Qazi, USA

Creating a Modern Digital Sanborn Map: AI Large Visual Model for Identifying Historic Properties: Pioneering Surveying and Building Identification Efforts in Denver

Todd Matuszewicz, USA

AI-Based Inference and Hypothetical Spatial Modelling of Historic Floor Plan Structures

Shiva Talaei Koochehbagh & Mahnoush Pourhosseini Akbarie, Italy

Q and A - Unmute & Ask



15.45 - 15.55

10 Mins Break - Refresh and Reset

Parallel Breakout Sessions
AI, Accessibility & Community Engagement for Inclusive Heritage Conservation

Session 01 (Room 01)

Soundcheck Social

Facilitator: Linda Neruba, Curator, Uganda Museum

Reclaiming Voice: Using AI to Restore Place Names and Cultural Contexts in Persian Botanical Archives
Shabnam Balouch, United Kingdom

Harnessing Artificial Intelligence to Document Oral Traditions and Indigenous Knowledge in Central Africa
Geneviève Sandrine Avoa Mebenga Belinga, Cameroon

Weaving African Women's Heritage Through AI Artistry
Portia Uwera, Uganda

Bluetooth Beacon and AI-Driven Personalized Museum Tour: A New Way to Preserve Cultural Heritage
Meiting Guo, China

Q and A - Unmute & Ask

Parallel Breakout Sessions
AI-Driven Storytelling, Creative Reuse & Generative Heritage Applications

Session 02 (Room 02)

Soundcheck Social

Facilitator: Hilke Arijis, Programme Consultant, Sustaining Digital Heritage (SDH), ICCROM

Integrating AI into Museum Work: Collections Care and Storytelling at Olusegun Obasanjo Presidential Library
Peter Jegede, Nigeria

Preserving Bedouin Oral Heritage in Petra through AI and Storytelling
Alia AlQawasmeh, Jordan

From Open Access to AI Assets: How AI Training Data Challenges Heritage Collections and the Democratic Promise of Cultural Access
Sami Itavuori, United Kingdom

From Disconnection to Reconnection: Cross-Cultural Communication in Cultural Heritage Studies Through AI-Based Digital Storytelling
Suwen Wang, China

Digitizing Culture: How AI and VR Are Preserving Uganda's Heritage
Eugene Tukei, Uganda

Q and A - Unmute & Ask

15.55 - 16.55

Panel Discussion
AI, Heritage, and Us: Co-Creating Digital Futures

Moderators:

Selin Nugent, Oxford Brookes University
 Tatenda Tavingeyi, An AI of Our Own (AAOO)

Speakers:

Mutanu Kyanya, African Digital Heritage
 Kristen Hopper, EAMENA, Durham University

16.55 - 17.40

Keynote
Can Machines Dream About Art? Refik Anadol on Art and Technology
Refik Anadol, Artist, Refik Anadol Studio and Dataland

17.40 - 18.00

18.00 - 18.30

Ctrl+S Café: Network and Reflect



Day 3, 21 Nov 2025

AI-Enabled Creative Access and Use of Heritage

CET/Rome

13.30 - 13.40

Welcome and Introduction to the Conference

Parallel Breakout Sessions
AI-Driven Storytelling, Creative Reuse & Generative Heritage Applications

Session 01 (Room 01)

Soundcheck Social

Facilitator: Linda Neruba, Curator, Uganda Museum

Hearing Double: AI-Enhanced Retrieval of Personal Audio Archives and the Reshaping of Cultural Narratives

José Velázquez, United Kingdom

From Mining Memory to Digital Ethics: Applying AI to the Regenerative Reuse of Trozza's Industrial Heritage

Héla Oueslati, Tunisia

From Margins to meaning: Using ABM, GIS and AI to Reimagine Transitional Urban Spaces

Marjan Alikhanzadeh, Cyprus

Archives, Algorithms, and Afterlives: AI, Black Data, and the Future of Cultural Heritage

Angela Tate, USA

Q and A - Unmute & Ask

Parallel Breakout Sessions
AI, Accessibility & Community Engagement for Inclusive Heritage Conservation

Session 02 (Room 02)

Soundcheck Social

Facilitator: Dr. Lisa Hilde

Decolonising Heritage Artificial Intelligence (AI): Whose Intelligence Counts?

Munyika Sibanda, Zimbabwe

Current Situation and New Opportunities: An Analysis of the Application of Artificial Intelligence in the Preservation and Restoration of Paper-based Cultural Heritage

Mengling Cai, China

Collecting in Code: Rethinking Representation and Knowledge in Digital Museums

Khushi Kesari & Shivani Singh, India

Making Data Speak: Addressing Metadata Debt for Ethical Media Generation

Ignacio Garnham, Denmark

Q and A - Unmute & Ask

13.40 - 14.30

14.30 - 14.40

10 Mins Break - Refresh and Reset

14.40 - 15.00

Keynote

Neck-deep in digital oil? Public broadcasting archives as AI training data sets

Brecht Declercq, Head of Archives RSI

15.00 - 15.50

Panel Discussion

Resurrecting Memory: AI for Film, Photo, and Sound Archives

Moderator:

Kara Van Malssen, Partner and Managing Director at AVP

Speakers:

Jim Joel, Page 4 Project

Fabio Bedoya Huerta, Duplitech

Anna Yanenko, National Preserve "Kyiv-Pechersk Lavra"

15.50 - 16.00

10 Mins Break - Refresh and Reset



AI, Accessibility & Community Engagement for Inclusive Heritage Conservation

Session 01 (Room 01)

Soundcheck Social

Facilitator: Hilke Arijs, Programme Consultant, Sustaining Digital Heritage (SDH), ICCROM

Decolonizing the Algorithm: The Imperative for Inclusive AI in Preserving African Heritage

Eric Takukam, Cameroon

AI-Assisted Contingency Planning for Cultural Heritage under the EU AI Act: Legal and Ethical Dilemmas

Yasmina Esther Ramada Lahoz, Spain

From Strings to Signals: AI, Southeast Asian Puppetry, and the Ethics of Digital Heritage

Alex Wen Jie Lew, Thailand

AI and digital cultural heritage at Meemoo - Flemish Institute for Archives: Ethics, Collaboration and Shared Data Governance

Bart Magnus, Belgium

Algorithmic Authenticity: AI, Commercialization, and the Future of Urban Heritage Governance at Shanghai Xintiandi

Yun Tan, China

Q and A - Unmute & Ask

16.00 - 17.00

17.00 - 18.30

Ctrl+Alt+Conclude & Ctrl+S Café: Network and Reflect

