

RE:GENERATIVE

XI MEDIA ART HISTORY
XXI Foro Académico

X X I V

FESTIVAL
INTERNACIONAL DE LA
IMAGEN



VICERRECTORÍA
DE PROYECCIÓN
UNIVERSITARIA

FACULTAD DE
ARTES Y
HUMANIDADES

DEPARTAMENTO DE
DISEÑO VISUAL



UTADEO
UNIVERSIDAD DE BOGOTÁ JORGE ELIECER GAITÁN

Fundación
Instituto Imagen
de investigaciones de la Imagen

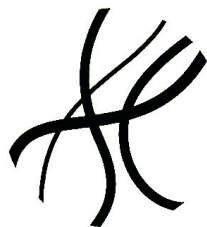


GLOBALLY CONNECTING NEW MEDIA ART ARCHIVES: Developing new tools for research and creative inspiration

Bonnie Mitchell - ACM SIGGRAPH History Archive

Paula Perissinotto - FILE Festival Archive

Violeta Vojvodic Balaz - MEMODUCT posthuman.archive



Workshop on New Media Art Archiving

2025

CONNECTING ARCHIVES



INTRODUCTION

History & Goal: Connect New Media Art Archives

- The New Media Art Archiving initiative began with initial discussions in 2018 and took shape in a series of four summits in Montreal, Barcelona, Paris, and Brisbane over the following 5 years.

The current network includes both independent researchers and representatives from international archives, such as the ACM SIGGRAPH History Archive, Archive of Digital Art (ADA), Ars Electronica, FILE (Electronic Language International Festival), ISEA Symposium Archives, MEMODUCT, and ZKM | Center for Art and Media Karlsruhe.

INTRODUCTION

History & Goal: Connect New Media Art Archives

- Despite ongoing efforts to preserve and disseminate information, the lack of interconnectivity between NMAA archives presents a significant challenge.
- The goal of the **Workshop on New Media Art Archiving (WNMAA)**, held at ZKM, was to establish a comprehensive knowledge-base and foster a network of experts dedicated to advancing New Media Art archiving; aiming to develop solutions that will lead to the creation of a framework for a globally connected network of archives.

X X I V FESTIVAL INTERNACIONAL DE LA IMAGEN



Connecting Archives Workshop

- **Group A: Technical Architecture**
 - Technological architecture for connecting archives and work-flows
 - Identifying technical requirements and interoperability challenges
- **Group B: Metadata and Vocabularies**
 - Common vocabularies, terms, and metadata standards
 - Methods for metadata harmonization and mapping
 - Common data model / ontology
- **Group C: Use Cases and User Experience**
 - Use cases for archivists, curators, scholars, and the general public
 - Requirements and expectations from different user perspectives
 - Concepts for the website that will showcase the common data pool

METHODOLOGY

Connecting Archives Workshop

- **Group A: Technical Architecture**

Technological architecture for connecting archives and work-flows
Identifying technical requirements and interoperability challenges

3 options were considered:

- Aggregator Architecture: central aggregator service [REST API]
- Contributor Architecture [Wikibase]: Mapping and validation
- Publisher architecture, Mapping and validation publisher registry and database needs a publisher tool considering NMAAN is responsible

The Group A was led by Dalton Martins (FILE) and Andreas Kohlbecker (ZKM), with Fabiana Krepel (FILE) as facilitator, to engage the group in discussions related to Architecture Design and Solution Development – Prototype Design; Metadata and Vocabularies and Use Cases and User Experience.



METHODOLOGY

Connecting Archives Workshop



- **Group B: Metadata and Vocabularies**

Common vocabularies, terms, and metadata standards

Methods for metadata harmonization and mapping

Common data model / ontology

- **Group C: Use Cases and User Experience**

Use cases for archivists, curators, scholars, and the general public

Requirements and expectations from different user perspectives

Concepts for the website that will showcase the common data pool, if required

The Group B was led by Felix Mittelberger (ZKM), Margit Rosen (ZKM)

The Group C was led by Anita Halbartschlager (Ars Electronica), Anika Wilcox (ZKM)

RESULTS

Connecting Archives Workshop

01

Goals and Objectives for the System

Semantic/Graph-Based Approach ; Ontology Mapping; Flexibility; Open Endpoints; Key Features

02

Challenges and Starting Points

Hosting and Funding; User Requirements; Data Provenance and Ontology Mapping; Harmonization of Processes; Media Handling Scenarios

03

Next Steps

Create a final project a looking for funding

Who?

Terry - Contact 5 American
Summit - Asian Community
Promote art Summit

Erica - Electronic Literature group
in Slovenia

Alex - new archiving
of digital art community

Sophie - connect with educational institutions & libraries

Victor - connection w/ Spanish
websites - artists can use

Maria - help w/ funding in Spain

Sandra - preservation of
Polish archives - artists can use

Mona - Connect Slovenia - can connect to publishers - because available art
can be digital art

Jolanta - archive can offer technical
to help writer curators - artists can use

Natalia - Poland - will discuss w/ digital art group that interested in digital art
to help writer curators - artists can use

Federica - Wants to help writer curators - artists can use

Alex - Poland - will discuss w/ digital art group that interested in digital art
to help writer curators - artists can use

Oriana - Poland - will discuss w/ digital art group that interested in digital art
to help writer curators - artists can use

Melania - Poland - will discuss w/ digital art group that interested in digital art
to help writer curators - artists can use

Victoria - Poland - will discuss w/ digital art group that interested in digital art
to help writer curators - artists can use

Bonnie - Poland - will discuss w/ digital art group that interested in digital art
to help writer curators - artists can use

Felix - Poland - will discuss w/ digital art group that interested in digital art
to help writer curators - artists can use

Ways to Connect People

Objects to create

- invitation list of other Archiving need a social media Platform

Setup website

- alex@vaupotic.com
- Alex
- Violeta

What are we called?

Monthly meeting

Wim van der Plas (ISEA)
Terry Wong (ISEA)



Connecting People Workshop

Presentations:

- **Building Bridges in New Media Art Archiving- Fostering Community, Collaboration, and Connectivity in a Multi-Tiered Model:** Terry Chun Wong
- **Connecting Archives: Connecting People, Building an Effective People's Network:** Myrto Aristidou
- **From Archives to Society:** Luis D. Rivero-Moreno.
- **Archival Pedagogy:** Victor Fancelli Capdevila

METHODOLOGY

Work in group

Ways to Connect People (brainstorming)

- INVITE New Media Art Archives, Preservation & Restoration Communities
- CONNECT with Educational Institutions
- CREATE Discussion series, Create Maps
- HELP with Funding

RESULTS

CONNECTING PEOPLE WORKSHOP

01

Goals and Objectives

Emphasise the non-technical and social aspects of engaging community members in collective efforts to preserve new media artworks

02

Challenges and Starting Points

Expanding the network and increasing social engagement among archivists

03

Next Steps

Keeping people in contact with each other

> Establishment of an international consortium

Graph Databases and Ontologies

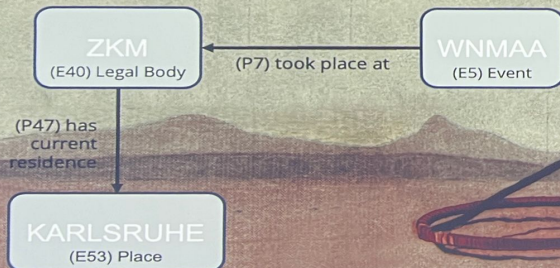
GRAPHS

Graph is a mathematical structure used to represent relationships between objects.

It consists of:

Nodes – The entities in the graph (e.g., people, places, or concepts).

Edges – The connections between nodes, which can be directed (one-way) or undirected (two-way).



WNMAA – Workshop on New Media Art Archiving, February 7, 2025
Felix Mittelberger /// Wissen | Collection, Archives & Research

ZKM 
Karlsruhe

Why we make Graphs?

We make Graphs to connect knowledge and to understand relations easier, quicker, better

Participants:

Narvika Bovcon
Christian Sievers
Asheesh Gulati

Facilitators:

Felix Mittelberger (ZKM)
Violeta Vojvodic Balaz (Memoduct)

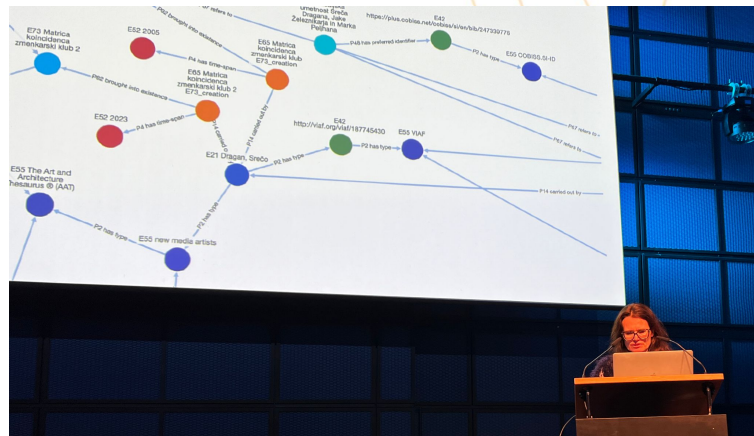
Graph Databases and Ontologies Workshop

SHOWCASE 1: Christian Sievers

SHOWCASE 2: Narvika Bovcon

SHOWCASE 3: Asheesh Gulati

Visualization showcase (hands-on demonstration)



Theme B: Graph-Database & Ontologies



Workshop on
New Media
Art Archiving | 2025

Authority Data

Semantic Web

Graph

Ontology (CIDOC-CRM)

SHOW CASE 1

Standards / Opportunities and Challenges

Software made to edit the information about digital cultural heritage following the existing standards:

Spectrum collection management standard

CIDOC CRM ontology

Share the data using the RDF graph

SHOW CASE 2

Data Model / Possibilities and Challenges

Aggregator of data (Arts Universities)

All art genres

All types of digital media

Data modelling [Events / CIDOC CRM]

SHOW CASE 3

Data Visualisation / Available Models

LIVE

What are the tools to enrich and visualise data?

Example & demonstration

<https://neo4j.com>

RESULTS

GRAPH DATABASES & ONTOLOGIES WORKSHOP

01

Goals and Objectives

Open minded experience that produce knowledge

> Discuss a common model, one that can grow and be developed further

02

Challenges and Starting Points

Different standards, Instability of media, Interaction between different data sources

> Identify available tools to enrich and visualise data

03

Next Steps

Define relationships between data

> Produce Knowledge Graph on WNMAA participants

AI as an Archiving Tool

Presentations:

- **Critical Issues: Jill Scott & Andreas Schiffler**
 - Cost, Security & Privacy Risks, Misinformation & Hallucinations, Bias & Fairness in AI, Copyright & Intellectual Property Issues, Legal & Compliance Challenges, Ethical & Societal Implications, Tracking & Data Exploitation, Explainability & Transparency, Energy Consumption & Sustainability, Malicious Use Cases
- **Using AI for Archiving: Dominik Bönisch & Sanda Alvaro**
 - Documentation and Preservation: Data Collection, Cooperation, Integration
 - Research: Data Processing, Analysis, Open Knowledge Frameworks
 - Risk Assessment: Traceability, Recognition of Encoded Bias
 - Data Access and Retrieval: Interfaces - Discovery and Knowledge Tools

AI as an Archiving Tool

Presentations:

- **The State of AI Today: María Cuevas**
 - Artificial Intelligence, Machine Learning, Deep Learning, Generative Art
 - The Artist's Perspective: Metadata as Narrative Structure, Automation, Art Generator, Interaction, Algorithmic Aesthetics
- **Envisioning the Future: Bonnie Mitchell**
 - Information Storage & Retrieval
 - Data Visualization
 - Input/Output
 - Connecting Archives
 - Predicting the Future - Quantum Computing, Immersion, Brain Computer Interfaces

METHODOLOGY

AI as an Archiving Tool Table Discussions

- Table 1: How can artists and archive managers use AI
Maria Cuevas & Sandra Alvaro (Spain)
- Table 2: Sharing experiences and possibilities of AI
Dominik Bönisch (Germany)
- Table 3: Critical Analysis and Tools from the user's point of view
Jill Scott & Andreas Schiffler (Switzerland & USA)
- Table 4: Envisioning the future, storage, retrieval and connections
Bonnie Mitchell (USA)



RESULTS

AI as an Archiving Tool: Envision the Future

01

Goals and Objectives

Envision the future in 5, 10 and 20 years. How will information storage, retrieval, and dissemination of historical materials and data change?

02

Challenges

What are some possible ways to connect new media archives today that will be able to withstand radical change in the future?

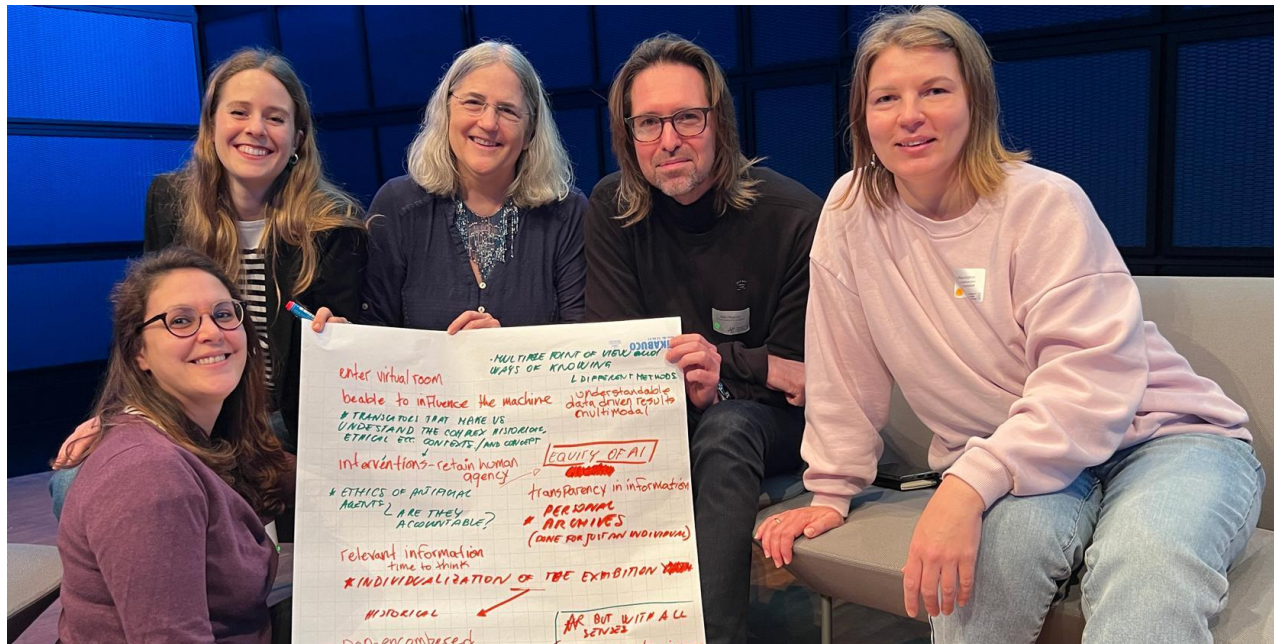
03

Next Steps

What would you like to see in the future in regards to access to archives and information?

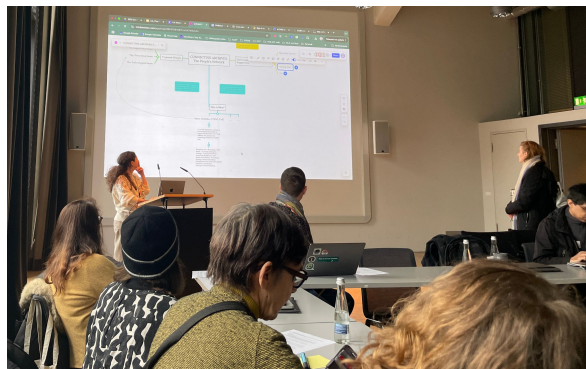
RESULTS

AI as an Archiving Tool Workshop



Multiple ways of knowing; Retain human agency; Preserve interpretations; Translators that enhance understanding
Time Machine - Time Travel; Speak with artist; Brain Computer Interfaces; Free access to information; ***Ethical Issues of AI

Wrap Up Sessions and Roundtable Discussion



OPEN FORUM: Ideas and Next Steps



BIBLIOGRAFÍA

FESTIVAL INTERNACIONAL DE LINGUAGEM ELETRÔNICA (FILE). Disponível em:

<https://file.org.br/>. Acesso em: 30 mar. 2025.

ARS ELECTRONICA ARCHIVE. Disponível em: <https://ars.electronica.art/archive/>. Acesso em: 30 mar. 2025.

ISEA SYMPOSIUM ARCHIVES. Disponível em: <https://isea-archives.siggraph.org/>. Acesso em: 30 mar. 2025.

ZKM | CENTER FOR ART AND MEDIA KARLSRUHE. Disponível em: <https://zkm.de/>. Acesso em: 30 mar. 2025.

NEW MEDIA ART ARCHIVES NETWORK. Disponível em: [inserir URL se disponível]. Acesso em: 30 mar. 2025.

NEW MEDIA ART ARCHIVING. Disponível em: [inserir URL se disponível]. Acesso em: 30 mar. 2025.

ACM SIGGRAPH HISTORY ARCHIVE. Disponível em: <https://history.siggraph.org/>. Acesso em: 30 mar. 2025.

ARCHIVE OF DIGITAL ART (ADA). Disponível em: <https://www.digitalartarchive.at/>. Acesso em: 30 mar. 2025.

MEMODUCT – MEMORY AND DOCUMENTATION OF MEDIA ART. Disponível em: <https://memoduct.net/>. Acesso em: 30 mar. 2025.

M A Y
2 7 9 • 2025

RE:GENERATIVE

Manizales (World Cultural Heritage Site)
Bogotá (Capital City)
COLOMBIA

X X I V

FESTIVAL
INTERNACIONAL DE LA
IMAGEN



<http://festivaldelaimagen.com/>

<http://instagram.com/imagenfest>