

# **DIGITAL TECHNOLOGY AND HERITAGE - CHALLENGES AND ISSUES**

**12 and 13 mars 2020**

**Centre de Recherches Interdisciplinaires**

**8bis rue Charles V, 75004 Paris**

Digital applied to heritage represents an important field of digital humanities, and also of what is now known as “Heritage Science”. It encompasses all aspects of heritage, from cultural to natural, tangible to intangible, physical to digital. It brings together heterogeneous scientific competence in a dialogue that stimulates creativity and opens new perspectives for the understanding, transmission and sharing of heritage elements. This significant progress, in a field with a high social impact, will be touched upon through the presentation of the aims and results of recent or ongoing research, and of the challenges and issues researchers are confronted with, may they be ethical, technical, methodological or conceptual.

The objective of this event is to create the conditions for a scientific exchange on the current challenges of the digitization of heritage and the exploration of new possibilities offered by digital tools for the production and dissemination of knowledge.

It will bring together leading researchers in the field as well as project leaders who are currently financed by the *Agence Nationale de la Recherche* (ANR) and its funding partner agencies in the context of national and international projects, in particular the “Digital Heritage” call, which was launched in 2017 by the Joint Programming Initiative on Cultural Heritage and Global Change (JPI CH).

The conference, organized by the ANR and the JPI CH in collaboration with the French Ministry of Culture, will mainly be open to specialists of computer science and Heritage science in the field of digital applied to Heritage.

It will take place in Paris, at the Centre de Recherches Interdisciplinaires (CRI), from 1.30 pm on Thursday 12 March to 1.00 pm on Friday 13 March 2020.

## Thursday 12 March 2020

### 1.30pm Opening

- Pascal Liévaux, Chair of the JPI Cultural Heritage
- Philippe Barbat, Director General of Heritage, Ministry of Culture, France

### 2.00pm - 15.30pm

#### Topic I. Digitization and Patrimonialization: A critical approach

*Moderated by Paulina Florjanowicz - Director of the Departments of Cultural Heritage, Ministry of Culture and National Heritage, MKiDN, Poland*

Digitization is a means more and more often used to conserve and protect all or parts of a heritage asset. Nevertheless, this operation is carried out according to how the asset is socially, economically or politically perceived. It is also performed in the context of technical constraints that do not always allow for a full account of all the elements of the heritage asset to be conserved and protected. Therefore, digitization may lead to creating or reinforcing stereotypes that could hinder the comprehension of the heritage asset, or, subsequently, the progress of knowledge. This session will examine the critical approaches which are applied to the patrimonialization of Heritage via digital technology in order to reduce interpretation biases.

- 1) **Dream (DH):** The Dictionary / Grammar Reading Machine: Computational tools for accessing the World's Linguistic Heritage.
- 2) **Material (CE38):** Micro-geometry Approach of Texture Reproduction of Artistic Legacy.
- 3) **DigiCONFLICT (DH):** Digital in Cultural Conflict Heritage.
- 4) **Memo-mines (CE38):** Converting Memorial Traces into Numerical Mediations: The case of mining memory.

### 3.30pm Break

### 4.00pm-5.30pm

#### Topic II. Digital Technology as a New Means to Articulate Conservation and Dissemination

*Moderated by Isabelle Chave, Deputy-Director, Department for Research and Scientific Policy,, Ministry of Culture, France*

The digital tool can make elements of local, national or international Heritage available to the public, without any restriction of access, or any temporal or geographical constraint. In particular, it offers the possibility of making available Heritage assets that require drastic conservation measures for their protection. The digital tool has also the advantage of increasing opportunities in terms of cultural mediation, and of proposing interactive tools that involve the public in discovery courses, thus making them actors of their own knowledge acquisition process. Research presented during this session will centre on the use of public-friendly digital tools, with a particular emphasis on initiatives aimed at arousing public's awareness of Heritage issues.

- 1) **CADEAH (DH):** European History Reloaded: Curation and Appropriation of Digital Audiovisual Heritage.
- 2) **Home (DH):** History Of Medieval Europe
- 3) **Schedar (DH):** Safeguarding the Cultural Heritage of Dance Through Augmented Reality
- 4) **ARCH (DH):** Ancient Coinage as Related Cultural Heritage

**5.30pm Break**

**6.pm. European Commission : Mihai Cristian Brasoveanu - *DG Connect, Interactive technologies, Digital for Culture and Education***

**6.15pm A few words from the supporting funding agency: Thierry Damerval (*ANR, CEO, France*)**

**6.30pm Poster session**

<b>ALEGORIA</b>	Advanced Linking and Exploitation of diGitized geOgRaphic Iconographic heritAge
<b>ANTRACT</b>	Transdisciplinary Analysis of French Newsreels (1945-1969)
<b>APPI</b>	Digitalized atlas of the entire Picard dialect
<b>DAPHNE</b>	Discovering knowledge in historical prosopographical databases
<b>ECLATS</b>	Automatic Extraction of Geolinguistic Atlas Content and Spatial Analysis: application to Dialectology
<b>E-ROMA</b>	Expressive restoration of Gallo-Romanian statues by virtual sculpture and animation
<b>FFL</b>	Foucault's Reading Notes
<b>HDBEX</b>	Exploitation of Historical Big Data for the Digital Social Sciences: application to financial data
<b>HORAE</b>	Hours - Recognition, Analysis, Edit(ion)s
<b>HYPEROTLET</b>	Documenting documentation: European and French-speaking tradition
<b>INTROSPECT</b>	Introspection of the archaeological material culture in the digital era
<b>PROFITEROLE</b>	PRocessing Old French Instrumented TExts for the Representation Of Language Evolution
<b>RESTAURE</b>	Computational Resources and Processing for Regional Languages
<b>SCHOPPER</b>	Simulating prehistoric humans behaviors in their palaeo-environments for investigation
<b>SUMUM</b>	A Multiscale and Multimodal Strategy of documentation of Tangible CH objects: acquisition, processing, study and diffusion
<b>URBANIA</b>	Digital valorising of historical scale models of cities for adaptative and innovative uses

**7.30pm Buffet dinner**

## **Friday 13 March 2020**

**9.00am - 10.30am**

**Topic III. From one technology to another: Deploying the possibilities of digital technology**

***Moderated by Katherine Warren - Head of History, Heritage, Languages and Literature at the Arts and Humanities Research Council, United Kingdom***

Since the first attempts to digitalize heritage, the possibilities offered by digital technology have considerably increased. It is now possible to link several media to a same object. Now does arise the question of migrating data to new systems.

- 1) Kamoulox (CE38):** On-line Unmixing for Large Historical Archives
- 2) Read it (DH):** Reading Europe: Advanced data investigation tool
- 3) Reseed (CE38):** Semantic Reverse-Engineering of Digital Heritage Objects
- 4) Epique (CE38):** Towards a Quantitative Epistemology - Reconstructing the Long-term Evolution of Sciences through Large Scale analysis of science production.

**10.30am Break**

**11.00am Project valorization experience: Aïoli collaborative platform**

**12.30pm Concluding words: Etienne Anheim – Senior researcher EHESS, deputy chairman at the Fondation des Sciences du Patrimoine, FRANCE**

**1.00pm End**