



People's Democratic Republic of Algeria

Ministry of Higher Education and Scientific Research

University of BATNA I

Faculty of Human and Social Sciences

Laboratory on the Dialogue of Civilizations and Globalization



## Introduction

The digitization of cultural and natural heritage, along with the reconstruction and restoration of ancient and contemporary environments, represents a transformative approach to preserving and understanding our past. All nations and international organizations, including UNESCO, are working to establish a comprehensive digital system that encompasses all aspects of cultural heritage, both tangible and intangible, as well as the natural heritage of humanity, through virtual reconstruction processes.

With the help of the advanced technologies such as 3D scanning, virtual reality, and geographic information systems, it is now possible to digitally preserve monuments, artifacts, and landscapes that are at risk of deterioration or loss. Thus, and to responds to the demands of the digital age we live in, the present conference primarily aims to strengthen the existent liaisons amid researchers from various fields as well as create a database in order to protect cultural and natural heritage for future generations.

## Conference Objectives:

This international, multidisciplinary event aims to:

1. Use digitization to ensure the conservation of digital copies of cultural heritage elements at risk of disappearance.
2. Contribute to the creation of digital databases to facilitate the management of cultural and natural heritage.
3. Understand environmental and climatic interactions and their impact on archaeological sites.
4. Analyze the functioning of ecological systems to facilitate intervention in case of malfunction.
5. Encourage the creation of Start-up in the field of archaeological heritage.
6. Stimulate international research projects to meet technological needs and contemporary globalization.
7. Attempt to reconstruct and visualize ancient environments using technology and applying 3D modeling and virtual reality techniques.
8. Promote tourism development by offering virtual tours of cultural, historical, and natural sites.
9. Encourage interdisciplinary collaboration among archaeology, tourism, environment, and technology for a comprehensive study of cultural and natural heritage.

Organize in collaboration with the OGEBC, the incubator, LAM laboratory, the Directorate of Tourism, and the Rias El-Djazair fondation.

The second International Conference on:

# Digitization of cultural and natural heritage and reconstruction of the ancient environment

Honorary Chairman:

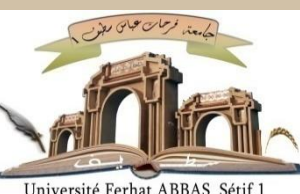
- Pr. DIF Abdessalam, Director of Batna I University
- Pr. Annes ARRAR : Dean of the Faculty of Human and Social Sciences, Batna I University

Conference Coordinator:

- Dr. Cherrof Mohamed, Director of Research Laboratory DBCG, Batna I University
- Benmekhlouf Imane, incubator director, Batna I University, ,Algeria

Conference Chair Dr. BENBERKANE Saadia, Batna I University,Algeria

February 19/20, 2025 in the auditorium, Hybrid System: Online- Onsite



## Conference Tracks :

Our international scientific event addresses fundamental topics related to the digitalization process using advanced technologies:

### **1. Digitization and reconstruction of cultural heritage: a new horizon**

- Integration of 3D models of artifacts into virtual and augmented reality.
- High-resolution 3D scanning and large-scale photogrammetry to digitize large structures (buildings, archaeological sites).
- Analysis of the impact of climate on the conservation of archaeological heritage.
- Use of digital technologies for the tourist promotion of historical and cultural heritage.

### **2. Digitization and restoration of natural heritage : towards a sustainable conservation**

- 3D for Conservation: Digital Tools for Enhanced Ecosystem Understanding and Management.
- Ecological Engineering and Ecosystem Restoration: Challenges and Prospects for a Sustainable Future.
- Past and Future Ecosystems: The Potential of Digital Models to Understand Landscape Evolution and Anticipate Global Change Impacts.

### **3. Digitalization Challenges:**

- Ethical and legal challenges of using digitization.
- The challenge of virtual restitution of degraded or partially preserved environments.
- The digitization process and its impact in the era of globalization.

## Scientific committee chair :

**Pr. DJABALLAH Yassine, Batna I University, Algeria**

### Members:

- Pr. Hamza ZEGHLACHE, international expert, Setif I university, , Algeria
- Pr HAMZA Mohamed Chérif, Directeur de l'ENSCRBC, Algeria
- Pr. HOSTEIN Antony, Directeur d'études à L'école Pratique Des Hautes Études "PSL", France.
- Pr. HANAFI Aicha, Algiers 2 university
- Pr. TAMLIKECHT Hadjira, Algiers 2 university
- Dr. Stella FALZONE, director of the National Archaeological Museum of Taranto, Roma university, Italy
- Dr. AISSI A. Djallil, Batna I University, Algeria
- Dr ALIKHOUDJA Nadir, Setif I university, Algeria
- Dr. BOUSNINA Monia, Director of the LAM laboratory, Setif I university Algeria
- Dr. Ali Ben Abdellah Merzouq, King Khalid University, the Kingdom of Saudi Arabia
- Dr. Yasmin Abdulkareem Mohammed Ali, Dean of the College of Archeology, Mosul University, Irak
- Dr. Cherrof Mohamed , Batna I University, Algeria
- Dr. Mostapha SALEM, Batna I University ,Algeria
- Dr. RAHMOUNI Nouredine, Batna I University ,Algeria
- Dr. MEZOUAD Noussaiba , Batna I University ,Algeria
- Dr. HACHANI Mohamed Redha, Batna I University ,Algeria
- Dr. MELGANI Haroun, Oum El Bouaghi University ,Algeria
- Dr. BACHI Zineddine, Batna I University ,Algeria
- Dr. BOUKHENOUN Miloud, Oran University, Algeria
- Dr. IRMOULI Bilal , Higher School of Fine Arts Algiers (ERBA), Algeria
- Dr. CHAOUCH KHOUANE Hind , Batna I University ,Algeria
- Dr. Ismail El-Nour, Birmingham university, London.
- Dr. Sinan Al-Naimi, international expert in archaeological sites, Qatar university.

## Organization committee chair:

**BACHI Zineddine, Batna I University, Algeria**

### Members:

- BENMEKHOUL Imane, Batna I University, ,Algeria
- BOUGHERARA Chafik, OGEBC BATNA
- MEDIAZA Souria, Batna I University, Algeria
- MENFOUKH Souria, Batna I University, Algeria
- MOUKHETACHE Abdelaali, Directorate of Tourism
- BENAZIZ Bilal, OGEBC BATNA
- KHALDI Adel , Batna I University, Algeria
- BENFIFI Takeddine, Batna I University, Algeria
- HAMOUTA Sami, Batna I University, Algeria

### Important Dates:

- **Submission Deadline: January 25, 2025**
- **Notification of Acceptance: February 08, 2025**
- **Conference Date: February 19/20, 2025**

**Presentation should be sent to the following address:**

<https://forms.gle/XaXwo3RY9G3f7wTj7>



### Contact us:



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**<https://seminaires.univ-batna.dz/DCNHR/>**