



CALL FOR PAPERS

**5th International Conference on
TRANSDISCIPLINARY MULTISPECTRAL MODELLING AND
COOPERATION FOR THE PRESERVATION OF CULTURAL HERITAGE**

Cultural heritage at the forefront of transformation

14-16 December 2026 Athens, Greece

Dear Colleague,

We are pleased to announce the 5th International TMM_CH Conference on “Transdisciplinary Multispectral Modelling and Cooperation for the Preservation of Cultural Heritage, Cultural heritage at the forefront of transformation”, to be held in Athens, Greece, on 14–16 December 2026, following the successful TMM_CH Conferences in 2018, 2021, 2023 and 2025.

This **5th International Conference holds a landmark anniversary significance**, as it coincides with **ten years since the historic opening of the Holy Tomb in the Church of the Holy Sepulchre in Jerusalem**, underscoring the lasting impact of emblematic heritage interventions and international cooperation in advancing research, innovation, and sustainable preservation.

You are invited to submit your research contributions for **oral presentations**.

For more information about the Conference: <https://www.tmm-ch.com/>

INTERNATIONAL STEERING COMMITTEE

https://www.tmm-ch.com/files/TMM_CH2026_Steering_Committee.pdf

INTERNATIONAL SCIENTIFIC COMMITTEE

https://www.tmm-ch.com/files/TMM_CH2026_Scientific_Committee.pdf

ABOUT THE CONFERENCE

Innovative scientific methodologies and challenging projects marking future trends in the protection of cultural heritage have initiated a universal conversation within a holistic approach, merging competence from the scientific fields of architecture, civil engineering, surveying engineering, materials science and engineering, information technology and archaeology, as well as heritage professionals on restoration and conservation, stakeholders, industry representatives and policy makers. The combined utilization of digital documentation technologies with innovative analytical and non-destructive techniques, numerical, computational and 3D techniques, and advanced interpretative methods supports the creation of a transdisciplinary multispectral modelling towards the sustainable preservation of cultural heritage. Innovation is enhancing and revealing a critical dimension of the preservation of cultural heritage along with social participation, communication, and capacity building.

The National Technical University of Athens interdisciplinary team “Protection of monuments” [Prof. A. Moropoulou, Prof. M. Korres, Prof. A. Georgopoulos, Prof. C. Spyrakos, Ass. Prof. C. Mouzakis], scientific responsible for the Holy Aedicule’s rehabilitation of the Holy Sepulchre in Jerusalem, and the Technical Chamber of Greece, in collaboration with the Hellenic network transferring the advanced and interdisciplinary knowhow for sustainable preservation of Cultural Heritage responding to great technical



and societal challenges, established at the Technical Chamber of Greece, in collaboration with international and Greek Organisations and Universities, organize the **5th TMM_CH International Conference on “Transdisciplinary Multispectral Modelling and Cooperation for the Preservation of Cultural Heritage, Cultural heritage at the forefront of transformation”**, on **14-16 December 2026** in Athens, Greece, opening future opportunities in the original agora of our technological and democratic roots.

The Conference is organized by the National Technical University of Athens in cooperation with the Technical Chamber of Greece, counting the auspices of H.E. the President of the Hellenic Republic, Mr. Konstantinos Tasoulas, and the benedictions bestowed by His All-Holiness Ecumenical Patriarch Bartholomew I of Constantinople, His Beatitude Archbishop Ieronymos II of Athens and All Greece, and the three Christian leaders of the Status Quo of the Holy Sepulchre in Jerusalem and the Holy Land: His Beatitude Patriarch Theophilos III of Jerusalem, His Beatitude the Armenian Apostolic Patriarch of Jerusalem, Archbishop Nourhan Manougian, and the Custos of the Holy Land, Very Rev. Fr. Francesco Patton, O.F.M.

Distinguished scientists and representatives of the International Council on Monuments and Sites (ICOMOS), the Organization of World Heritage Cities (OWHC), the Cultural Heritage Finance Alliance (CHFA), the World Monuments Fund (WMF), the International Federation of Surveyors (FIG), the International Committee for Heritage Documentation (CIPA), Europa Nostra, Global Media Organizations, the European Construction Technology Platform (ECTP), the European Society for Engineering Education (SEFI), AHEPA Hellas 10 and other major International and European Organizations, Associations, networks Universities and Research Centers in the field of cultural heritage preservation, participate in the International Steering and Scientific Committees which had successfully organized the 1st, 2nd, 3rd and 4th TMM_CH Conferences in 2018, 2021, 2023 and 2025. The conference will be held at the Eugenides Foundation in hybrid format. On-site attendance and oral presentation is required.

The Conference will showcase research results, methodologies, and emblematic applications will be presented, demonstrating how the utilization and reuse of monuments, historic cities and sites form the framework of a sustainable preservation of cultural heritage, in accordance with the principles of circular economy; in terms of respect and protection of values, materials, structures, architecture and landscape; and with an informed society able to participate effectively in the policies that will design and implement the new strategies required.

By sharing knowledge, experiences, and recommendations on sustainable cultural heritage approaches and practices at a time of major global challenges, new dynamics are established towards future transformations through the adoption of novel interdisciplinary protocols and requirements within a holistic framework encompassing digital heritage, advanced documentation, and innovative conservation strategies, as well as the integration of Memory Twins, Artificial Intelligence, Extended Reality (XR), transverse data analysis as well as transdisciplinary dialogue.

Conference Topics

- Crosscutting topic: Emblematic works as source of innovation and transdisciplinarity
- Reinventing Resilience
 - Culture based climate actions
 - Heritage vulnerability during natural hazards, conflicts and manmade destructions, and pandemic risks - Biosafety
 - Earthquake and structural rehabilitation
- Memory Twin as a holistic framework for Cultural Heritage documentation, interpretation, and adaptive reuse



- The role of AI and generative AI in supporting Cultural Heritage documentation, restoration and Augmented Reality
- Multipercceptions and narrative modelling and collaboration for mutual understanding and peacemaking
- Effective science communication through interconnection of science, technology with Cultural Heritage values
- Public involvement (policy makers) and social awareness (media) for Cultural Heritage sustainable preservation, reuse and local development
- Bridging Heritage Stakeholders, Art, Science and Industry
- Standardization of processes and requirements to implement novel interdisciplinary methodologies
 - in diagnostic and rehabilitation studies
 - in quality control of works in progress
- Transdisciplinary dialogue - Networking for the implementation of a novel interdisciplinary digital methodology and capacity building
- Upskilling trainers through learning from existing emblematic works
- Promoting the need for a holistic interdisciplinary education for the Preservation of Cultural Heritage
- Belt and Road initiative in multimodel cultural heritage preservation
- Historic cities and centers: New reuse and preservation strategies applying Circular Economy
- Tourism, sustainable revival through Cultural Heritage and environmental assets
- Preserving Compatibility, the Materiality and Integrity of Structures and Architectural Authenticity
- Non-Destructive and Structural Techniques for Diagnosis, Redesign and Health Monitoring in the new digital era and AI interpretation
- History - Archaeology - Archaeometry - Archaeogene
- Dialogue between religious monuments, preservation works and values
- Green and blue deal for local and regional Sustainable Development
- Cultural heritage preservation addressing energy challenges
- Rebranding the World in conflict through transdisciplinary dialogue, culture, mutual understanding and Peace

CALL FOR PAPERS

The International Steering Committee and the International Scientific Committee welcome research contributions for oral presentations. Submitted papers will be **peer reviewed**. Accepted papers will be distributed into sessions. Plenary lectures [after invitation] will cover major accomplishments, innovations and challenges.

Full papers need to be a minimum of 12 pages and no more than 20 pages and written in English. You can submit papers via EasyChair, using the conference link: <https://easychair.org/conferences/?conf=tmm-ch2026>

Please check important dates for submission deadlines.

PUBLICATIONS

Accepted papers will be published following the precedent set by the previous TMM_CH conferences. These publications will be made available in 2027, following the conference, in esteemed international journals and proceedings such as: **Springer Proceedings in Materials SPM**, **SCIENTIFIC CULTURE**, **Communications in Computer and Information Science CCIS**, *Land an Open Access Journal by MDPI*, **Buildings**, **Technical Annals TA**, **Intrecci**, **JOCCH - ACM Journal of Computing and Cultural Heritage**, among others.



IMPORTANT DATES

First announcement and Call for Participation: November 3rd, 2025

Extended First announcement and Call for Participation: January 15th, 2026

Abstract Submission Deadline: March 3rd, 2026

Notification of Acceptance/Rejection: March 13th, 2026

Full paper submission deadline: June 13th, 2026

Notification of author's acceptance: September 13th, 2026

Announcement of preliminary program: September 23rd, 2026

Revised paper submission: October 23rd, 2026

Further revisions may be required to achieve full compliance with the publication's specific requirements

Early Bird Registration Closing: October 30th, 2026

Announcement of the final program: November 10th, 2026

Conference dates: December 14th–16th, 2026

Publications of papers: 2027 - 2028

The President of the International TMM_CH Conference

Emer. Prof. A. Moropoulou