



**CALL FOR PAPERS**  
**2nd International Conference on**  
**TRANSDISCIPLINARY MULTISPECTRAL MODELLING AND**  
**COOPERATION FOR THE PRESERVATION OF CULTURAL**  
**HERITAGE**

**Rebranding the World in Crisis through Culture**

**ATHENS @ 12\_12\_21**

Dear Colleague,

We are pleased to announce the 2<sup>nd</sup> International TMM\_CH Conference on “Transdisciplinary Multispectral Modelling and Cooperation for the Preservation of Cultural Heritage. Rebranding the World in Crisis through Culture”, that will be held in Athens, Greece, on December 12<sup>th</sup>-15<sup>th</sup>, 2021, following the successful 1<sup>st</sup> International TMM\_CH Conference in 2018.

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

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

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**INTERNATIONAL STEERING COMMITTEE**

[https://www.tmm-ch.com/files/TMM\\_CH2021\\_Steering\\_Committee.pdf](https://www.tmm-ch.com/files/TMM_CH2021_Steering_Committee.pdf)

**INTERNATIONAL SCIENTIFIC COMMITTEE**

[https://www.tmm-ch.com/files/TMM\\_CH2021\\_Scientific\\_Committee.pdf](https://www.tmm-ch.com/files/TMM_CH2021_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, archaeometric and archaeogene methods, supports the creation of a transdisciplinary multispectral modeling 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 and communication.

The National Technical University of Athens interdisciplinary team “Protection of monuments” [Prof. A. Moropoulou, Prof. Emer. 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 international and Greek Authorities, organize the 2nd TMM\_CH International Conference on “Transdisciplinary Multispectral Modelling and Cooperation for the Preservation of Cultural Heritage: Rebranding the World in Crisis through Culture”, on 12-15 December 2021, in Athens, Greece, discussing modern trends 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, the National Geographic Society, the World Monuments Fund, the Cultural Heritage Finance Alliance, the International Council of Monuments and Sites ICOMOS, the Organization of World Heritage Cities OWHC, the European Society for Engineering Education SEFI, the European Construction Technology Platform ECTP, the International Federation of Surveyors FIG, the International Committee CIPA Heritage Documentation, and other major international and European organizations, associations and networks in the field of cultural heritage preservation, which had successfully organized the 1st TMM\_CH Conference.

The conference will be held at the Eugenides Foundation in a hybrid format, if needed. Scientific walk and talk visits on 12 December 2021 to Acropolis Monuments and Museum [in the footsteps of the Greek Peripatetic Philosophical School] and other visits planned upon demand.

At the 1st TMM\_CH Conference, which was held with great success in October 2018 at the Eugenides Foundation in Athens, with the presence of 350 delegates from 22 countries from all continents, the emblematic rehabilitation of the Holy Aedicule of the Holy Sepulchre in Jerusalem was presented as an exemplary application, in the field of monuments protection, of interdisciplinary and multispectral collaboration, as an outcome of innovation, not only on Research, but in the implementation process as well, with emphasis on technological advancements, not only intersecting all the scientific fields of engineers and natural scientists, but also initiating an ongoing dialogue with humanities, such as Archaeology, Theology, Sociology, Diplomacy and Tourism.

The scope of the 2nd TMM\_CH Conference is to present the latest developments in research and innovation that identify novel trends to build an interdisciplinary approach to conservation and holistic digital documentation of cultural heritage. The utilization and reuse of monuments, historic cities and sites, forms 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; with an informed society, able to participate effectively in the policies that will design and implement the new strategies required.



Sharing knowledge, experiences, and recommendations about sustainable cultural heritage approaches and practices at a moment of great risk and a time of renewed possibilities, will reorientate conversation to explore the current conditions and contours of the World in crisis rebranding itself through Culture, and relaunching development.

## TOPICS

- Multispectral, Multidimensional, Novel Approach through Transdisciplinarity and Cooperation in the Protection of Cultural Heritage: Exemplary Projects (The Project of the Rehabilitation of the Holy Sepulchre's Holy Aedicule, EDICULA Erasmus+ Strategic Partnership, et als)
- Digital Heritage
- Heritage at Risk
- Resilience to Climate Change, Natural Hazards and Pandemic Risks - Biosafety
- Advanced Non Destructive and Structural Techniques for Diagnosis, Redesign and Health Monitoring
- Archaeometry, Archaeogene
- Conserving Compatibility, the Materiality of Structures and Architectural Authenticity
- Cross-Discipline Earthquake Protection and Structural Assessment of Monuments
- Transdisciplinary Dialogue among Architecture, Engineering and Natural Sciences with Humanities and Diplomacy
- Bridging Heritage Stakeholders, Science and Industry
- Sustainable Preservation and Management of Cultural Heritage
- Historical / Architectural Sites, Monuments and Complexes as Open Labs of Innovation and Sustainable Socioeconomic Development
- Historic Cities and Centers: New Preservation Strategies by Reuse for Development
- The Reuse of Cultural Heritage through Circular Economy and Social Participation as Key Contribution to Local and Regional Development
- Cultural Heritage and Tourism
- Revealing and Protection of Cultural and Natural Assets within Green and Blue Deal for Integrated Sustainable Development of Isolated Areas (Islands, Mountain areas, et als)
- Novel Educational Approach for the Preservation of Cultural Heritage
- From Research and Innovation to Policy
- Rebranding the World in Crisis through Culture



## CALL FOR PAPERS

The International Steering Committee and the International Scientific Committee welcome research contributions for oral and poster presentations.

Submitted papers will be peer reviewed. Please check important dates for submission deadlines.

Accepted papers will be distributed into sessions. Plenary lectures [after invitation] will cover major accomplishments, innovations and challenges.

Accepted papers will be published, as in the case of the 1st TMM\_CH Conference, in Springer Computer Science Proceedings, available in 2022 following the Conference, and Scientific Journals in the field of Cultural Heritage Preservation, selectively.

Full papers should have an average size of 12 pages and should be written in English. You must submit papers via EasyChair, using the conference link:

<https://easychair.org/conferences/?conf=tmmch2021>

## IMPORTANT DATES

**Full Paper submission deadline: June 11<sup>th</sup>, 2021**

Notification of author's acceptance with paper corrections: July 21<sup>st</sup>, 2021

Final paper submission: September 11<sup>th</sup>, 2021

Completion of early bird registration: October 1<sup>st</sup>, 2021

Announcement of preliminary program: October 11<sup>th</sup>, 2021

Announcement of the final program: November 1<sup>st</sup>, 2021

Conference dates: December 12<sup>th</sup>-15<sup>th</sup>, 2021

The President of the International Steering Committee of the TMM\_CH Conference  
Prof. A. Moropoulou