



FINAL 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 **final call for papers** at the 2nd 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 12th-15th 2021, following the successful 1st International TMM_CH Conference in 2018.

You are invited to submit your research contributions for oral and poster presentations, before the **new and extended full paper deadline at July 11th 2021**. Please look at the **new roadmap**: https://www.tmm-ch.com/#key_dates

For more information about the publications, the fees and the topics of the Conference: <https://www.tmm-ch.com/>

INTERNATIONAL STEERING COMMITTEE

https://tmm-ch.com/files/TMM_CH2021_Steering_Committee.pdf

INTERNATIONAL SCIENTIFIC COMMITTEE

https://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. M. Korres, Prof. A. Georgopoulos, Prof. C. Spyarakos, 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 under the patronage of H.E. the President of the Hellenic Republic, Ms Katerina Sakellariopoulou, by the National Technical University of Athens in cooperation with the Technical Chamber of Greece and the organization AHEPA Hellas.

Distinguished scientists and representatives of the National Geographic Society, 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, the World Monuments Fund 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 TMM_CH Conference as well.

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. Innovative knowledge transfer through practice and education is continuing the venture for the rehabilitation projects in the Holy Sepulchre Church, adjoining the National Technical University of Athens and La Sapienza University of



Rome with Bezalel Academy of Science and Arts in Jerusalem, in cooperation with Israeli Antiquities Authority, through the Erasmus+ Strategic Alliance EDICULA "Educational Digital Innovative Cultural Heritage related Learning Alliance".

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

PUBLICATIONS

Accepted papers will be published, as in the case of the 1st TMM_CH Conference, in Proceedings and Scientific Journals in the field of Cultural Heritage Preservation, selectively, available in early 2022 following the Conference.

Proceedings

- Springer Proceedings in Communications in Computer and Information Science - Transdisciplinary Multispectral Modeling and Cooperation for the Preservation of Cultural Heritage
- Springer Proceedings in Materials - Advanced Non Destructive and Structural Techniques for Diagnosis, Redesign and Health Monitoring for the Preservation of Cultural Heritage

Journals

- Developments in the Built Environment - Special Issue on Monitoring and Assessment for the Sustainable Preservation of the Built Environment
- Heritage - Special issue on Transdisciplinary Multispectral Modelling and Cooperation for the Preservation of Cultural Heritage
- European Journal of Engineering Education
- International Journal of Architectural Heritage



PAPER SUBMISSION

Abstracts can be submitted, but only full papers will be peer reviewed.

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

All papers should be written in English. Full papers should be up to 10 pages and short papers up to 6 pages. You must submit papers via EasyChair, using the conference link: <https://easychair.org/conferences/?conf=tmmch2021>

For the preparation of all papers, please follow [Guidelines for Proceedings Authors](#)
Templates, sample files & useful links

- [Detailed Guidelines](#)
- [LaTeX2e Proceedings Templates \(zip\)](#)
- [Microsoft Word Proceedings Templates \(zip\)](#)
- [Microsoft Word 2003 Proceedings Templates \(zip, 229kb\)](#)
- [Your ORCID identifier](#)
- [Bookmetrix](#)

Copyright Form, as well as the final paper in DOC file to be published, will be requested from authors upon final acceptance after the review process is completed.

IMPORTANT DATES

Full Paper submission deadline: *July 11th, 2021*

Notification of author's acceptance with paper corrections: *August 31st, 2021*

Final paper submission: *October 11th, 2021*

Completion of early bird registration: *October 15th, 2021*

Announcement of preliminary program: *October 20th, 2021*

Announcement of the program: *November 12th, 2021*

Conference dates: *December 12th-15th, 2021*

The President of the International Steering Committee of the TMM_CH Conference

Prof. A. Moropoulou