

1st International Conference on
**“TRANSDISCIPLINARY MULTISPECTRAL MODELLING AND COOPERATION
 FOR THE PRESERVATION OF CULTURAL HERITAGE”**

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 capabilities and know-how 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 and policy makers in cultural heritage. The combined utilization of digital documentation technologies with innovative analytical and non-destructive techniques, computational and digital techniques and archaeometric 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 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. Spyarakos, Ass. Prof. C. Mouzakis*], scientific responsible for the Holy Aedicule’s rehabilitation of the Holy Sepulchre in Jerusalem, with the Ministry of Culture and Sports of Greece, the Ministry of Digital Policy, Telecommunications and Media of Greece and the Technical Chamber of Greece organize the **1st International Conference on “TRANSDISCIPLINARY MULTISPECTRAL MODELLING AND COOPERATION FOR THE PRESERVATION OF CULTURAL HERITAGE” [TMM_CH]** on October 18th -21st, 2018, in Athens, Greece, discussing modern trends in the original agora of our technological and democratic roots.

The conference will be held at the Stavros Niarchos Foundation Cultural Center, with reference to the “interactive digital exhibition of advanced technology for the monument and the restoration work of the Holy Aedicule of the Holy Sepulchre in Jerusalem”, that will be held at the Byzantine and Christian Museum of Athens [*opening on May 21st, 2018 until spring 2019*]. Parallel sessions will be held at the National Technical University of Athens, Averof Building of Patission historic complex [*Europa Nostra Award for its conservation and rehabilitation in 2012*]. Scientific walk and talk visits to Acropolis and Ancient Agora [*in the footsteps of the Greek Peripatetic Philosophical School*] and other major archaeological sites are planned on Sunday, October 21st, 2018.

The international Conference is organized under the auspices of the Presidency of the Hellenic Republic and the Hellenic Parliament, in cooperation with international organizations and associations [*NGS, WMF, ICOMOS, CIPA, OWHC, et al*], as well as international and Greek networks and associations in the field of cultural heritage preservation.

The international scientific committee welcomes research contributions for oral and poster presentations in English. The submitted abstracts and papers will be peer reviewed. Accepted papers will be divided into sessions. Plenary lectures [*after invitation*] will cover major accomplishments, trends and technical challenges. Please check important dates for submission deadlines. The Proceedings of the conference with full papers will be published in a special edition of Springer LNBIP series and will be available during the Conference.

For more information about the conference, please visit: <http://www.tmm-ch2018.com/>



TOPICS

- Cultural heritage identity
- Cultural heritage revealing of values and historic representation
- Cultural heritage management towards sustainable development (tourism et al)
- Education and training for the preservation of cultural heritage
- History of architecture, historic materials and structures of cultural heritage
- Geometric documentation
- Digital, augmented (AR) and virtual (VR) documentation of cultural heritage
- 3D reconstruction of cultural heritage
- Interdisciplinary risk assessment and preservation of cultural heritage: design, materials and interventions / documentation, diagnosis, conservation, preservation, rehabilitation, reconstruction, restoration
- In situ advanced diagnostics and inspection by non-destructive techniques, robotics and unmanned aerial vehicles
- Laboratory testing and methods for characterization and validation of historic materials and structures
- Compatible and performing, repair and strengthening materials and techniques
- Criteria, methodologies and techniques to assess sustainable and compatible materials and interventions techniques
- Numerical modeling and structural analysis
- Seismic analysis and retrofit
- Standards, metadata, ontologies and semantic processing in cultural heritage
- Tools for multidimensional and multidisciplinary modeling
- Monitoring of monuments' response to environmental stresses and of structural health
- Enhancing resilience of cultural heritage against climate change and natural hazards
- Interdisciplinary knowledge based decision making
- Management of cultural heritage preservation projects and strategies
- Interdisciplinary projects and methodologies
- Historic architectural sites and preserved monuments as open labs of innovation and sustainable socioeconomic development
- Transdisciplinary cooperation and innovation for the preservation of cultural heritage
- Stakeholders' requirements for cultural heritage preservation
- Socio-economic and cultural impact of cultural heritage preservation
- Historic cities and centers: new strategies for protection by development and reuse
- Circular economy and innovative strategies for sustainable preservation of cultural heritage
- From research and innovation to policy for cultural heritage preservation
- Education and training for the preservation of cultural heritage
- Cultural heritage preservation with social accessibility and engagement



KEY DATES

First announcement

 March 15th, 2018

Abstract submission deadline

 May 5th, 2018

Abstract review deadline

 May 20th, 2018

Announcement of accepted abstracts

 May 21st, 2018

Early bird registration

 June 15th, 2018

Paper submission deadline

 June 15th, 2018

Paper review deadline

 June 30th, 2018

Final paper submission deadline

 July 16th, 2018

Notification of author's acceptance
Announcement of preliminary program

 July 25th, 2018

Registration for inclusion in proceedings

 July 31st, 2018

Conference dates

 October 18th-21st, 2018

General registration

 October 18th-21st, 2018

REGISTRATION

	<i>Deadline for early bird registration</i>	<i>Deadline for late registration for inclusion in the proceedings¹</i>	<i>Deadline for general registration^{2,3}</i>
Date	June 15th, 2018	July 31st, 2018	Conference dates
Full registration⁴	120 €	150 €	150 €
Student registration⁵	50 €	75 €	75 €

¹ At least one author must pay registration before the indicated deadline in order to include the submitted paper in the proceedings.

² For each paper to be presented in the Conference, at least one author should cover full/student registration fee.

³ Anyone planning on attending the conference must register on-line. The online registration form will be available soon. On-line registration will remain open during the conference. On-site registration will not be available. Registration fee can only be paid (i) via bank transfer until October 12th, 2018 or (ii) via credit or debit cards via Eventora platform before and during the conference. Please make sure all bank fees are covered by the submitting account and that the payment is free of charge (bank fees) for the receiver account.

⁴ Full registration is applicable for all participants of the Conference, including members of the extended Scientific Committee, apart from invited keynote speakers. Full registration includes: access to all sessions, coffee and lunch breaks and conference material. Full registration fee does not cover Conference Proceedings.

⁵ Student registration is applicable for undergraduate students, postgraduate students and PhD candidates and includes: access to all sessions, coffee and lunch breaks and conference material. Student registration fee does not cover Conference Proceedings. A proof of the student status must be presented to the Conference Secretariat during the conference.

