TMM 1426 CH

NATIONAL TECHNICAL UNIVERSITY OF ATHENS

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, Eugenides Foundation, Athens, Greece

Καινοτόμος, Διεπιστημονική, Ψηφιακή Διατήρηση της Πολιτιστικής Κληρονομιάς

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Το Εύλογον

«Model Interdisciplinary Development and Transfer of Know-how and Cooperation in the Restoration of Emblematic Monuments and Highlighting of Values of Christianity in Dialogue with Society»

The Evlogon, emblematic action, Project n. 5225310, funded by the National Program of Development through the General Secretariat for Research and Innovation, Ministry of Development

National Technical University of Athens

Ορθόδοξος Ακαδημία Κρήτης (ΟΑΚ)

Πανεπιστήμιο Ιωαννίνων

ΠΑΝΕΠΙΣΤΗΜΙΟ ΠΕΛΟΠΟΝΝΗΣΟΥ

ΕΚΚΕ ΕΘΝΙΚΟ ΚΕΝΤΡΟ ΚΟΙΝΩΝΙΚΩΝ ΕΡΕΥΝΩΝ

ΤΕΕ Technical Chamber of Greece

5th International Conference TMM-CH

Transdisciplinary Multispectral Modelling and Cooperation for the Preservation of Cultural Heritage

Cultural Heritage at the Forefront of Transformation

14-16 December 2026 Eugenides Foundation Athens, Greece

ABOUT

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 expertise from the scientific fields of architecture, civil engineering, surveying engineering, materials science and engineering, information technology and archaeology, alongside heritage professionals specializing in 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.

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.

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 know-how 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, are organizing 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, under the auspices of H.E. the President of the Hellenic Republic, Mr. Constantine An. Tassoulas, and with 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 Archbishop Nourhan Manougian, Armenian Apostolic Patriarch of Jerusalem; and the Custos of the Holy Land, Very Rev. Fr. Francesco Ielpo, 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 (CHiFA), the World Monuments Fund (WMF), the International Federation of Surveyors (FIG), the International Committee for Heritage Documentation (CIPA), Europa Nostra, the European Construction Technology Platform (ECTP), the European Commission (Interactive Technologies, Digital Policy for Culture and Education), 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, comprise the International Steering and Scientific Committees, building on the success of 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, 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, and transdisciplinary dialogue.

GENERAL PROGRAM

DAY 1 - 14.12.2026

Auditorium	Hall 1
08:30-09:00 **Registrations** **09:00-10:30** **Opening Session** *10:30-10:45 Coffee Break* **10:45-12:45** **Panel discussion 1**: Innovative Transdisciplinary Development and Transfer of Know-How and Multilateral Cooperation Addressing World Challenges for the Rehabilitation of Emblematic Monuments **12:45-14:30** **Panel discussion 2**: Religious monuments and the Christian values in dialogue with the Society *14:30-15:00 Lunch Break* **15:00-16:45** **Panel discussion 3**: Monuments Talk - Science Communication **16:45-18:30** **Panel discussion 4**: Novel Educational Approach and Outreach for the Sustainable Preservation and Revealing of Cultural Heritage *18:30-18:45 Coffee Break* **18:45-20:15** **Panel discussion 5 - 6**: Historical and Archaeological Documentation Endorsing the Values of Monuments' Rehabilitation with Respect - Archaeometry and Archaeogene Testimony of Monument History	**10:45-12:30** **Session 1**: Dialogue and Mutual Understanding for Peace: Heritage in Conflict - The Case of Religious Monuments and Society *12:30-12:45 Coffee Break* **12:45-14:15** **Session 2**: Emblematic Works as Source of Innovation: The Evlogon Model, Standardization of Diagnostic Studies and Quality Control of Works *14:15-14:45 Lunch Break* **14:45-16:45** **Session 3**: History and Archaeology: Modern Reconstruction Technologies for Landscapes, Sites, and Narratives **16:45-18:30** **Session 4**: Archaeometry and Archaeogenetics: High-Tech Heritage Investigation Revealing Materials and Techniques **18:30-19:30** **Session 5**: Education for Public Engagement Social Awareness and Science Communication by Bridging Heritage Stakeholders, the Arts, Science, and Industry Under the Belt and Road Initiative for Multimodal Cultural Heritage Preservation

GENERAL PROGRAM

DAY 2 - 15.12.2026

Auditorium	Hall 1
09:00-10:30 **Panel discussion 7**: Digital Heritage in AI Era: a Holistic Approach	**09:00-10:45** **Session 6**: Memory Twin II: Semantic Platforms, Community Memory and Adaptive Reuse
10:30-10:45 Coffee Break	*10:45-11:00 Coffee Break*
10:45-12:15 **Panel discussion 8**: Driving the Digital Transition in Cultural Heritage: Competence Centres and Cooperation among European Projects towards a Common Ecosystem	**11:00-12:30** **Session 7**: The Role of Generative AI in Cultural Heritage Documentation, Restoration and Augmented Reality
12:15-13:45 **Panel discussion 9**: Preserving compatibility, the materiality and integrity of structures and architectural authenticity	**12:30-14:30** **Session 8**: Non-Destructive and Structural Techniques for Diagnosis, Redesign and Health Monitoring in the New Digital Era
13:45-14:30 Lunch Break	*14:30-15:15 Lunch Break*
14:30-16:00 **Panel discussion 10**: Historic cities and centers: New Reuse and preservation strategies applying Circular Economy	**15:15-16:45** **Session 9**: Preserving Compatibility, the Materiality and Integrity of Structures and Architectural Authenticity
16:00-17:30 **Panel discussion 11**: Culture - Based Climate Action (4COP FOR Conference of Parties of UN action)	**16:45-18:30** **Session 10**: Historic Cities and Centers: New Reuse and Preservation Strategies Through Circular Economy and Social Cohesion
17:30-19:00 **Panel discussion 12**: The New European Bauhaus creative and interdisciplinary initiative addressing materials and energy challenges	
19:00-20:30 **Panel discussion 13**: Advanced Non Destructive and Structural Techniques for Diagnosis, Redesign, Health Monitoring and Quality Assessment of Materials and Preservation Interventions	

GENERAL PROGRAM

DAY 3 - 16.12.2026

Auditorium	Hall 1
09:00-10:30 **Panel discussion 14**: Demonstrating solutions to protect and preserve cultural heritage from the impacts of climate change and natural disasters	**09:00-10:45** **Session 11**: Memory Twin I: From 3D, HBIM and GIS Documentation to a Holistic Digital Framework
10:30-10:45 Coffee Break	*10:45-11:00 Coffee Break*
10:45-12:15 **Panel discussion 15**: Earthquake protection and structural rehabilitation	**11:00-12:15** **Session 11 (continued)**: Memory Twin I: From 3D, HBIM and GIS Documentation to a Holistic Digital Framework
12:15-13:45 **Panel discussion 16**: Green and blue deal for Tourism through the sustainable revival Cultural Heritage and Environmental Assets	**12:15-14:30** **Session 12**: Reinventing Resilience: Natural Hazards, Earthquake and Structural Rehabilitation
13:45-14:30 Lunch Break	*14:30-15:15 Lunch Break*
14:30-16:00 **Panel discussion 17**: MemoryTwin - Beyond Geometry and Materials: Towards the Holistic Documentation of Cultural Heritage, Values, Authenticity and Identity	**15:15-18:00** **Session 13**: The Green and Blue Deal for Cultural and Environmental Tourism Towards Sustainable Local Development and Energy Transition
16:00-18:00 **Panel discussion 18**: Sustainable Preservation of Maritime Cultural Heritage	**18:00-19:00** **Session 14**: Maritime and Water Heritage Preservation
18:00-19:45 **Panel discussion 19**: Bridging Heritage Stakeholders, Art, Science, Industry and Society	
19:45 **Closure**	

DAY 1 - 14.12.2026

14.12.26 | 09:00-10:30 Auditorium

Opening Session
Introductory speech
President of the International TMM_CH Conferences, Professor Emeritus **Moropoulou Antonia**, National Technical University of Athens - Head of the Interdisciplinary Team and Chief Scientific Supervisor of the Holy Sepulchre's Holy Aedicule's rehabilitation, Vice President Technical Chamber of Greece - Governing Council of the University of Ioannina
Welcome Address
Professor **Ioannis K. Chatjigeorgiou**, **Rector** of the **National Technical University of Athens**
President of **TCG** Technical Chamber of Greece, **Stasinos Giorgos**
Inaugural Speeches
Minister of Development of the Hellenic Republic, **Theodorikakos Takis**
Deputy Minister of Foreign Affairs of Hellenic Republic, **Loverdos Ioannis Michail**
Benedictions
His All-Holiness, Ecumenical Patriarch Bartholomew of Constantinople
His Beatitude, Archbishop Hieronymus II of Athens and All Greece
His Beatitude, Patriarch Theophilos III of Jerusalem
Custos of the Holy Land, Very Rev. Fr. Francesco Ielpo, O.F.M.
Armenian Apostolic Patriarch of Jerusalem, Archbishop Nourhan Manougian
Addresses
Ms. Rehana Schwinninger-Ladak, Head of Interactive Technologies, Digital for Culture and Education at the **European Commission - Deputy Director for Data, DG CONNECT**
Member of the International Board of **ICOMOS** International Council of Monuments and Sites, Emeritus Professor **Georgopoulos Andreas**, National Technical University of Athens, School of Rural, Surveying and Geoinformatics Engineering
Minaidis Lee, f. Deputy Secretary General of the Organization of World Heritage Cities OWHC
Vice-President of Cyprus Scientific and Technical Chamber (ETEK), **Platon Stylianou**
Vice President of the International Committee **CIPA** Heritage Documentation, Professor **Efstratios Stylianidis** -
Director of the Decision Support Systems Laboratory (DSSlab) and the Research University Institute of Communication and Computer Systems (ICCS), Emeritus Professor **Ioannis Psarras**, National Technical University of Athens
Director of **UNESCO Chair on "Digital Cultural Heritage"**, Dr **Marinos Ioannides** - Cyprus University of Technology

PROGRAM PART A

14.12.26 | 10:45-12:45 Auditorium

Panel discussion 1: Innovative Transdisciplinary Development and Transfer of Know-How and Multilateral Cooperation Addressing World Challenges for the Rehabilitation of Emblematic Monuments
Moropoulou Antonia, Emeritus Professor, National Technical University of Athens, School of Chemical Engineering - **Moderator - Rapporteur**
Kriari Ismini, Professor Emeritus, Panteion University of Social and Political Sciences, former Rector - European Research and Educational Centre of Bioethics and Legislation
Pappas Spyros, Dr European Lawyer - European Commission, Directorate General of Education and Culture, former Director General - Argo the Hellenic Network in Belgium, President
Georgopoulos Andreas, Professor, National Technical University of Athens, School of Rural, Surveying and Geoinformatics Engineering - International Council of Monuments and Sites ICOMOS, Member of the International Board
Korres Manolis, Emeritus Professor, National Technical University of Athens, School of Architecture- Academy of Athens
Katsafados Konstantinos, Deputy Minister of Climate Crisis and Civil Protection, responsible for Natural Disaster Recovery and State Aid
Hadjiyiannis Kyriacos*, Dr., Vice-President, OSCE Parliamentary Assembly and Special Representative on South East Europe
H.E. Mr Crispin Mbadu Phanzu, Minister Delegate for Francophonie and the Congolese Diaspora, Democratic Republic of the Congo
Delgado Rodrigues José, Stone Conservation Consultant - Former Principal Researcher, National Laboratory for Civil Engineering (LNEC)
Formisano Antonio, University of Naples “Federico II”, School of Polytechnic and Basic Sciences, Department of Structures for Engineering and Architecture
Terzis Dimitrios, Secretary General for Research and Innovation, Ministry of Development of the Hellenic Republic

*****_Invited_

14.12.26 | 12:45-14:30 Auditorium

Panel discussion 2: Religious monuments and the Christian values in dialogue with the Society
Zormpas Konstantinos, Dr. Sociologist-Theologian-Political Sciences, Archon Hieromnemon of the Ecumenical Patriarchate **-** General Director of the Orthodox Academy of Crete **- Rapporteur**
His Eminence Metropolitan Makarios of Nairobi, Exarch of Kenya, Greek Orthodox Patriarchate of Alexandria and All Africa
Giagkou Theodoros, Emeritus Professor of Canon Law, Aristotle University of Thessaloniki, Faculty of Theology, Department of Social Theology and Christian Culture
Panagiotopoulos Petros, Associate Professor of Pastoral Ethics of Scientific Applications, Aristotle University of Thessaloniki, Faculty of Theology, Department of Theology
Athanasopoulou-Kypriou Spyridoula, Lecturer in Social and Political Theology, University of Crete, Department of Primary Education

Panel discussion 2: Religious monuments and the Christian values in dialogue with the Society
Mihlig Gabriela, Dr., Post-doc-thesis in Systematic Catholic Theology and Ecclesiastical History, PLUS, Salzburg, Equole Biblique Jerusalem
Vesic Nenad, Dr. Archimandrite Ambrosios, NTUA PhD - ICOMOS International Scientific Committee for Places of Religion and Ritual PRERICO
His Excellency Bishop Mikel Garziandia of Palencia*, Roman Catholic Church, Spain

*****Invited*

14.12.26 | 15:00-16:45 Auditorium

Panel discussion 3: Monuments Talk - Science Communication
Moropoulou Antonia, Emeritus Professor, National Technical University of Athens, School of Chemical Engineering - **Introductory Keynote Speech**
Moutsios Yannis, Journalist - **Moderator**
Roilos Panagiotis*, Professor, Harvard University, Modern Greek Studies and of Comparative Literature - President, European Cultural Centre of Delphi
Caridakis Georgios, Professor, University of the Aegean Department of Cultural Technology and Communication, - Director, Hellenic Foundation for Research and Innovation (H.F.R.I.)
Georgiadou Vasiliki, Director and President of the Directors Board, National Centre for Social Research
Pefanis Dimitris, Journalist, Director, CNN Greece
Triantafyllou Sotiris, President, Panhellenic Federation of Journalists' Unions (PFJU)
Antoniadou Maria*, President, Journalists' Union of Athens Daily Newspapers (ESIEA)
Chatzitheofanous Anastasios, Founder and owner of BCI Media Inc
Laskaratos Kostas, Dr. Journalist, Hellenic Broadcasting Corporation (ERT) - **Rapporteur**

*****Invited*

14.12.26 | 16:45-18:30 Auditorium

Panel discussion 4: Novel Educational Approach and Outreach for the Sustainable Preservation and Revealing of Cultural Heritage
Papaioannou Nikolaos, Deputy Minister of Education, Religious Affairs and Sports - **Introductory Keynote Speech**
Varvarigos Emmanouil, Professor, National Technical University of Athens, School of Electrical and Computer Engineering - Vice Rector for Research, Innovation and Extroversion - **Moderator**
Favero Gabriele, Professor, Sapienza University of Rome, Master's Degree Programme, Science and Technologies for the Conservation of Cultural Heritage - EDICULA Erasmus+ Strategic Partnership, Steering Committee member
Kourkoulis Stavros, Professor**,** National Technical University of Athens, School of Applied Mathematicals and Physical Sciences
Klabatsea Rena*, Associate Professor, National Technical University of Athens, School of Architecture,
Tsakanika Eleftheria*, Associate Professor, National Technical University of Athens, School of Architecture
Cereti Carlo Giovanni, Professor, Sapienza University of Rome

Panel discussion 4: Novel Educational Approach and Outreach for the Sustainable Preservation and Revealing of Cultural Heritage
Lobovikov-Katz Anna, Senior Lecturer, University of Haifa, The NB School of Design, Department of Architecture - Senior Lecturer, "Technion" Israel Institute of Technology, Faculty of Architecture and Town Planning
Bakolas Asterios*, Professor, National Technical University of Athens, School of Chemical Engineering
De Vries Pieter*, Assistant Professor, Delft University of Technology - European Society for Engineering Education SEFI, Treasurer
Pirasmaki Christiana, MBA, Corporate Communication Consultant - Certified Adult Trainer - Vice President, ECOCITY
Labropoulou Antonia, National Technical University of Athens, International Relations Department - **Rapporteur**

**Invited*

14.12.26 | 18:45-20:15 Auditorium

Panel discussion 5- 6: Historical and Archaeological Documentation Endorsing the Values of Monuments' Rehabilitation with Respect - Archaeometry and Archaeogene Testimony of Monument History
Tsakoumaki Marilena Chrysoula, Dr. Archaeologist, Hellenic Ministry of Culture and Sports of the Hellenic Republic, Ephorate of Antiquities of Phocis, Archaeological Museum of Delphi - **Moderator**
Baruch Yuval, Dr Archaeologist, Israel Antiquities Authority, Directorate General representative
Tselikas Agamemnon, The Mediterranean Research Institute for Paleography, Bibliology and History of Texts-ARETHAS Institute, Athens
Aggelakopoulou Eleni, Acropolis Restoration Service, Technical Office and Surface Conservation Laboratory, Head - NTUA Interdisciplinary team for emblematic Monuments
Karapiperis Christos, DNASequence SRL
Mertzani Maria, Conservator of Antiquities and Works of Art, Hellenic Ministry of Culture, Directorate for the Conservation of Ancient and Modern Monuments
Kaparou Maria, President, Hellenic Society of Archaeometry
Kylafi Maria*, Archaeologist, MSc, Ephorate of Antiquities of Messinia
Zimi Eleni, Associated Professor, University of the Peloponnese - **Rapporteur**

**Invited*

15.12.26 | 09:00-10:30 Auditorium

Panel discussion 7: Digital Heritage in AI Era: a Holistic Approach
Anagnostopoulos Dimosthenis, Secretary General for Information Systems and Digital Governance, Ministry of Digital Governance, Hellenic Republic - Professor, Harokopio University, Department of Informatics and Telematics - **Introductory Keynote Speech**
Doulamis Anastasios, Associate Professor, National Technical University of Athens, School of Rural, Surveying and Geoinformatics Engineering - Program The Evlogon - PA Research Program RESPECT - **Moderator**

Panel discussion 7: Digital Heritage in AI Era: a Holistic Approach
Kollias Stefanos*, Emeritus Professor, National Technical University of Athens, School of Electrical and Computer Engineering - Chairman of the Board of Directors, National Infrastructures for Research and Technology (GRNET S.A.) - Coordinator, PHAROS AI Factory
Makedos Konstantinos, President, Fund of Engineers and Contractors of Public Works (TMDE)
Anagnostaki Liana, Chemical Engineer - TCG Directorate of Public Relations International and European Affairs, Head **-** Program The Evlogon
Sgouropoulou Kleio, Professor, University of West Attica, Department of Computer Engineering - Internal Member of Administrative Board
Tokmakidis Konstantinos, Emeritus Professor, Aristotle University of Thessaloniki, School of Rural and Surveying Engineering
Ronchi Alfredo, Associate Professor, Politecnico di Milano - European Commission-MEDICI Framework, General Secretary - European WG on "EU Directives and Cultural Heritage", Secretary - Coordinator of Artcast4D Project **- Rapporteur**

*****_Invited_

15.12.26 | 10:45-12:15 Auditorium

Panel discussion 8: Driving the Digital Transition in Cultural Heritage: Competence Centres and Cooperation among European Projects towards a Common Ecosystem
Sanmartin Fulgencio, DG CONNECT, European Commission, Project Officer of 3D-4CH - **Introductory Keynote Speech**
Di Giulio Roberto, University of Ferrara, Department of Architecture, Inception spin-off - 4CH Competence Centre for the Conservation of Cultural Heritage - **Moderator**
Verwayen Harry, General Director, Europeana Foundation
Rendina Marco, European Fashion Heritage Association, partner of 3D-4CH
Pezzati Luca, Director of Research, CNR-INO (National Institute of Optics), promoter and chair of the Working Group on Cooperation in Digital Cultural Heritage (WG CDCH)
Arnaoutoglou Fotis, ATHENA Research Centre - partner of 3D-4CH - ARGUS and ARTEMIS, delegate to the WG CDCH table on 3D quality standards
Medici Marco, CEO of the INCEPTION spin-off - Project Coordinator of 3D-4CH
Nomikos Vangelis, TALENT S.A. - partner of 3D-4CH - publishing and aggregation of 3D content, metadata and Share3D pipelines
Moropoulou Antonia, Emeritus Professor, National Technical University of Athens - Scientific Responsible of EYLOGON - **Rapporteur**

15.12.26 | 12:15-13:45 Auditorium

Panel discussion 9: Preserving compatibility, the materiality and integrity of structures and architectural authenticity
Patsavos Nikolas, Associate Professor, University of Ioannina, Department of Architecture, Chair - Vice President of the World Association of Architects - **Moderator**

Panel discussion 9: Preserving compatibility, the materiality and integrity of structures and architectural authenticity
Alexopoulou Athina - Georgia, Professor, University of West Attica, Department of Conservation of Works of Antiquities and Works of Art - Articon Lab - Internal Member of Administrative Board
Caradimas Costas, Professor, National Technical University of Athens, School of Architecture
Delegou Ekaterini, Associate Professor, University of Ioannina, School of Sciences, Department of Materials Science Engineering
Chatzidakis Aris, ECCE Immediate Past President, Member of the General Assembly - Technical Chamber of Greece
Maravelaki Pagona-Noni, Professor, Technical University of Crete, School of Architecture, Laboratory of Materials for Cultural Heritage and Modern Building, Head- **Rapporteur**

15.12.26 | 14:30-16:00 Auditorium

Panel discussion 10: Historic cities and centers: New Reuse and preservation strategies applying Circular Economy
Minaidis Lee, f. Deputy Secretary General of the Organization of World Heritage Cities OWHC - **Moderator**
Maistrou Eleni, Emeritus Professor, National Technical University of Athens - Society for the Environmental and Cultural Heritage, Council of Architectural Heritage, President
Avgerinou-Kolonias Sofia, Emeritus Professor, National Technical University of Athens, School of Architecture, (NTUA) - President, ICOMOS Hellenic
Della Torre Stefano, Professor, Polytechnic University of Milan, Department of Architecture, Built Environment and Construction Engineering
Ishac Hanna*, Architect and Urban Planner, ICOMOS Representative to the Habitat Professionals Forum (UN-Habitat) - Vice-President, ICOMOS International Scientific Committee on Historic Cities, Towns and Villages (CIVVIH)
Turner Mike, Professor, Bezalel Academy of Arts and Design Jerusalem - UNESCO Chair in Urban Design and Conservation Studies
Christodoulopoulos Christos, Mayor of Ilida
Moropoulou Antonia, Emeritus Professor, National Technical University of Athens, School of Chemical Engineering
Tetradis Christina, President, Research Institute for Tourism (ITEP)
Coccossis Harry, Professor Emeritus, University of Thessaly, Department of Planning and Regional Development - EC consultant on spatial planning and environment, tourism, sustainable development, insular development - **Rapporteur**

**Invited*

15.12.26 | 16:00-17:30 Auditorium

Panel discussion 11: Culture - Based Climate Action (4COP FOR Conference of Parties of UN action)	
Kremlis George, European Commission, Honorary Director - Ambassador of the EPLO to Bulgaria - **Moderator**	**Moropoulou Antonia**, Emeritus Professor, National Technical University of Athens, School of Chemical Engineering - **Moderator**

Panel discussion 11: Culture - Based Climate Action (4COP FOR Conference of Parties of UN action)
Quaedvlieg-Mihailović Sneška, General Secretary, Europa Nostra
Potts Andrew, Heritage and Climate Action Advisor, Europa Nostra - European Heritage Hub
De Chaves-Chronopoulos Lila, Heritage & Museums International, President
Siountri Konstantina, Architect-Engineer, Ministry of Culture, Hellenic Republic, Director of the Service of Modern Monuments and Technical Works of Attica, Eastern Central Greece and the Cyclades
Amditis Angelos, National Technical University of Athens, Institute of Communication and Computer Systems, Research Director
Carras Lydia*, Co-Founder and President, ELLINIKI ETAIRIA - Society for the Environment and Cultural Heritage (ELLET)
Koundouri Phoebe*, Professor, Athens University of Economics and Business- Technical University of Denmark - President, World Council of Environmental and Natural Resource Economists Associations - Chair, SDSN Global Climate Hub - Director, AE4RIA - Director, Sustainable Development Unit ATHENA Research Center - **Rapporteur**

**Invited*

15.12.26 | 17:30-19:00 Auditorium

Panel discussion 12: The New European Bauhaus creative and interdisciplinary initiative addressing materials and energy challenges
Aravossis Konstantinos, UNESCO Chair on Green Innovation and Circular Economy - **Introductory Keynote Speech**
Lagaros Nikolaos, Professor, School of Civil Engineering, National Technical University of Athens - Vice Rector of Finance, Infrastructure and Development - **Moderator**
Karoglou Maria, Laboratory Teaching Staff, National Technical University of Athens, School of Chemical Engineering
Jugyasu Rohit*, International Centre for the Study of the Preservation and Restoration of Cultural Heritage in Rome ICCROM, heritage conservation professional
Tsakanikas Aggelos, Professor, National Technical University of Athens, School of Chemical Engineering - Dean
Pantazis George, Professor, National Technical University of Athens, School of Rural, Surveying and Geoinformatics Engineering
Xynomilakis Dimitris*, President, Panhellenic Union of Architects (SADAS–PEA)
Papageorgiou Angelos, Associate Professor, University of Ioannina, Department of Architectural Engineering, President– **Rapporteur**

**Invited*

15.12.26 | 19:00-20:30 Auditorium

Panel discussion 13: Advanced Non Destructive and Structural Techniques for Diagnosis, Redesign, Health Monitoring and Quality Assessment of Materials and Preservation Interventions
Osman Ahmad, Professor, University of Applied Sciences in Saarbrücken - Fraunhofer Institute for Nondestructive Testing IZFP **-** **Moderator**

Panel discussion 13: Advanced Non Destructive and Structural Techniques for Diagnosis, Redesign, Health Monitoring and Quality Assessment of Materials and Preservation Interventions
Lampropoulos Kyriakos, Assistant Professor, National Technical University of Athens, School of Chemical Engineering
Zhang Hai*, Professor, Harbin Institute of Technology
Karagiannis Georgios, Dr., "ORMYLIA" Foundation, Scientific Director
Loutas Theodoros, Professor, University of Patras, Department of Mechanical Engineering
Xanthos Stelios, Professor, International Hellenic University, School of Engineering, Department of Industrial Engineering and Management
Pnevmatikos Nikolaos, Professor, University of West Attica, Department of Civil Engineering
Matikas Theodoros, Professor, University of Ioannina, Department of Materials Science and Engineering, Laboratory of Mechanics, Smart Sensors and Nondestructive Evaluation - Vice Rector for Research, Innovation and Development
Hristoforou Evangelos, Professor, National Technical University of Athens, School of Electrical and Computer Engineering - Hellenic Society of Non-Destructive Testing HSNT, representative - **Rapporteur**

**Invited*

16.12.26 | 09:00-10:30 Auditorium

Panel discussion 14: Demonstrating solutions to protect and preserve cultural heritage from the impacts of climate change and natural disasters
H.E. Mrs Yolande Elebe Ma Ndembo, Minister of Culture, Arts and Heritage of the Democratic Republic of the Congo - **Introductory Keynote Speech**
Charalampopoulou Betty, CEO & President, Geosystems Hellas S.A - **Moderator - Rapporteur**
Kolokousis Pol, Dr, Senior Earth Observation Engineer, Geosystems Hellas S.A. - The ESA Project SAT4GAIA, Land use – land change vs cultural heritage
Parastatidis David, Senior GIS Analyst, Foundation for Research and Technology - Hellas (FORTH) - The ESA Project SAT4GAIA, The urban heat effect to monuments
Chrysoulakis Nektarios, Dr, Director of Research at FORTH / IACM - The ESA Project SAT4GAIA, The urban heat effect to monuments
Di Orio Alessio, Dr., CEO ALMA Sistemi - The project ERA4CH
Themistocleous Kyriakos, Dr., Director of External Affairs and Business Development of the Eratosthenes Center of Excellence - The Cypriot use case of the new proposal TUTELA
Georgiades Panagiotis, Head of Business Development, Alpes Lasers S.A. - The Swiss use case of the new proposal TUTELA
Topouzelis Konstantinos, Professor, University of the Aegean - he underwater cultural heritage use case in Lesvos Island
Tsakoumis Georgios*, Founder & CEO Consortis

**Invited*

16.12.26 | 10:45-12:15 Auditorium

Panel discussion 15: Earthquake protection and structural rehabilitation
Saisi Antonella, Associate Professor, Politecnico di Milano, Department of Architecture, Construction and Built Environment Engineering - **Moderator**
Spyrakos Constantine, Professor, National Technical University of Athens - member of the NTUA Interdisciplinary Team scientific responsible for the Holy Aedicule's rehabilitation of the Holy Sepulchre in Jerusalem - **Moderator**
Penelis Georgios*, Emeritus Professor, Aristotle University of Thessaloniki, School of Civil Engineering
Psycharis Ioannis, f. Professor, National Technical University of Athens, School of Civil Engineering
Mouzakis Charis, Associate Professor, National Technical University of Athens, School of Civil Engineering, Laboratory for Earthquake Engineering, Director - member of the NTUA Interdisciplinary Team scientific responsible for the Holy Aedicule's rehabilitation of the Holy Sepulchre in Jerusalem
Dritsos Stefanos*, Professor Emeritus, University of Patras, Department of Civil Engineering, Seismic Assessment and Redesign of Existing Structures
Papanicolaou Corina, Associate Professor, University of Patras, Department of Civil Engineering, Structural Materials Laboratory
Sextos Anastasios*, Professor, University of Bristol, School of Civil, Aerospace and Design Engineering - Associate Professor, National Technical University of Athens, School of Civil Engineering
Longobardi Giovanna*, University of Naples "Federico II", School of Polytechnic and Basic Sciences, Department of Structures for Engineering and Architecture
Stavroulakis Georgios, Professor, Technical University of Crete, School of Production Engineering and Management, Institute of Computational Mechanics and Optimization - **Rapporteur**

**Invited*

16.12.26 | 12:15-13:45 Auditorium

Panel discussion 16: Green and blue deal for Tourism through the sustainable revival Cultural Heritage and Environmental Assets
Papathanasis Nikolaos, Alternate Minister of Economy and Finance of the Hellenic Republic - **Introductory Keynote Speech**
Moropoulou Antonia, Emeritus Professor, National Technical University of Athens, School of Chemical Engineering - **Moderator - Rapporteur**
Chatzipetrou Athina, Former CEO, Hellenic Development Bank (HDB)
Petrakos George, Research Institute for Tourism (RIT), Director General - Professor
Kampanis Nikolaos, Foundation for Research and Technology Hellas FORTH, Institute of Applied and Computational Mathematics, Coastal and Marine Research Laboratory, Research Director
Rakhal Mina Shingh, Member of the National Assembly, Federal Parliament of Nepal
Konstantinidou Elena, Associate Professor, National Technical University of Athens, School of Architecture - NTUA Post-Graduate MSc Program "Protection of Monuments" representative
Filippis Antonios*, Secretary General of Agricultural Policy and International Relations, Ministry of Rural Development and Food

Panel discussion 16: Green and blue deal for Tourism through the sustainable revival Cultural Heritage and Environmental Assets
Erotokritos Michalis*, Mayor of the Heroic Island of Kasos
Varelidis Petros*, General Secretary, Ministry of Environment, General Secretariat for Natural Environment and Water

**Invited*

16.12.26 | 14:30-16:00 Auditorium

Panel discussion 17: **MemoryTwin - Beyond Geometry and Materials: Towards the Holistic Documentation of Cultural Heritage, Values, Authenticity and Identity**
Ioannides Marinos, UNESCO Chair on "Digital Cultural Heritage", Director - Cyprus University of Technology - **Moderator - Rapporteur**
Huvila Isto, Upsala University, Sweden
Haynes Ronald, IIIF and University of Cambridge, UK
Cassar Anthony, Heritage Malta
Mendikute Alberto, Researcher, Fundación Tekniker, Metrology Unit - Head of Digital Heritage, EU HERITALISE Project, TBC
Roumeliotis Stergios, Research Associate, National Technical University of Athens, School of Chemical Engineering - MSC School of Electrical Engineering
Doulamis Nikos, Professor, National Technical University of Athens, School of Rural, Surveying and Geoinformatics Engineering

16.12.26 | 16:00-18:00 Auditorium

Panel discussion 18: Sustainable Preservation of Maritime Cultural Heritage
Gkikas Stefanos*, Deputy Minister of Maritime Affairs and Insular Policy - **Introductory Keynote Speech**
Lyridis Dimitrios, Professor, National Technical University of Athens, School of Naval Architecture and Marine Engineering- **Moderator**
Grigoropoulos Grigoris, Professor, National Technical University of Athens, School of Naval Architecture and Marine Engineering
Koutoulakis Emmanouil, Secretary General of Maritime Affairs and Ports, Ministry of Maritime Affairs and Insular Policy
Katradis Konstantinos, CEO, Katradis Marine Ropes Industry S.A.
Pappas Dimitrios-Charalampos, MSc Naval Architect - Marine Engineer & Mechanical Engineer NTUA - INTERMARINCO, Founder
Vasileiadis Vasileios, President, Pan-Hellenic Association of Shipyards - Arsenals
Chatzinikolaou Elias, Nireus Traditional Shipyard, Rhodes
Berbili Ioanna, Archaeologist, Curator of the Collections at the Hellenic Maritime Museum **representing Anastasia Anagnostopoulou-Paloumpi,** President of the Hellenic Maritime Museum
Ioannidis Charalambos, Professor, National Technical University of Athens, School of Rural, Surveying and Geoinformatics Engineering - Director, Laboratory of Photogrammetry

Panel discussion 18: Sustainable Preservation of Maritime Cultural Heritage
Mazarakos Thomas, Assistant Professor, University of West Attica, School of Engineering, Department of Naval Architectute - **Rapporteur**

*****_Invited_

16.12.26 | 18:00-19:45 Auditorium

Panel discussion 19: Bridging Heritage Stakeholders, Art, Science, Industry and Society
Androulidaki Amalia, Dr., Ministry of Culture and Sports of the Hellenic Republic, General Directorate for the Restoration, Museums and Technical Works, General Director - **Moderator**
Sapountzakis Evangelos*, Professor, National Technical University of Athens, School of Civil Engineering
Souretis Petros, Managing Director, GEK TERNA Group
Zafeiris Vasilis, Civil Engineer, Sons P. Zafiri Techniki Ltd, Director of Field Applications
Katsiotis Marios, PhD, Group Head of R&D, TITAN Cement Group,
Dalkafouki Maria, Dalkafouki House Ltd, Chief Executive Officer
Stergiou Georgios, Chairman of the Board of Directors, Athens Water Supply and Sewerage Company (EYDAP S.A.)
Chatzisava Erato*, Associate Professor, Athens School of Fine Arts (ASFA) - Rector of the Athens School of Fine Arts
Kaliampakos Dimitrios, Professor, National Technical University of Athens, School of Mining and Metallurgical Engineering - Internal Member of Administrative Board
Rodríguez-Maribona Isabel*, Dr., Chair, ECTP Heritage & Regeneration Committee - Vice-President, ECTP Presidium - Technology Director, TECNALIA
Tritopoulou Efi, President, Greek Women's Engineering Association (EDEM) - **Rapporteur**

*****_Invited_

PROGRAM PART B

14.12.26 | 10:45-12:30 Hall 1

Session 1: Dialogue and Mutual Understanding for Peace: Heritage in Conflict - The Case of Religious Monuments and Society

Id	Title	Authors
2	The Sensory Audience of the Liturgy	Zoe Tsiami *Orthodox Academy of Crete*
68	Cultural Values and Practices of Religious Heritage: Results of a Quantitative Survey on Three Iconic Religious Monuments	Hara Stratoudaki, Nikolaos Souliotis, Nikos Klironomos *EKKE*
115	Destruction, Memory, and Resistance: Documenting Palestinian Cultural Heritage Loss in Gaza	Rula Shahwan *Arab american University of Palestine*
120	The Roles of the Bayt Mal Al-Quds Al-Sharif Agency in Supporting the Resilience of Jerusalemites and Enhancing the Civilizational Identity of the City:	Ibrahim Ramadan *AlQuds Open University*
134	The Sacred Orthodox Temple as a Living Community: The Pastoral Role in the Sustainable Preservation of Religious Cultural Heritage	Christoforos Chronis *National and Kapodistrian University of Athens*
174	Society and Religious Monuments: Perceptions of Responsibility and Identity Frames in the Protection of Cultural Heritage	Vasiliki Georgiadou, Nikolaos Klironomos, Konstantinos Papagiannopoulos *National Center for Social Research (EKKE)*
180	War-Affected Cultural Heritage in Tigray: Transdisciplinary Documentation, Community Resilience, and Multispectral Approaches for Sustainable Heritage Management in Kolla Temben	Abreha Kiros *Aksum University*
305	When the past is captured and preserved forever through digitization: Digitization of cultural heritage of Famagusta province	Anastasia Fotiou *Cyprus University of Technology*
337	THE HOLY TOMB OF CHRIST - vol. 1 of post-doctoral thesis on an international academic inter- and transdisciplinary approach	Gabriela Mihlig *Vienna Archdiocese*
360	Project of the first international academic conference on “The Holy Tomb of Christ – The Church of Jerusalem and Her Ability to Dialogue”, 25 - 26 October 2024 in Vienna, Austria	Gabriela Mihlig *Vienna Archdiocese*

14.12.26 | 12:45-14:15 Hall 1

Session 2: Emblematic Works as Source of Innovation: The Evlogon Model, Standardization of Diagnostic Studies and Quality Control of Works

Id	Title	Authors
65	Transdisciplinary Physicochemical Investigation and Conservation of the Rigas Charta of the Onassis Library: From Multispectral Documentation to a Sustainable Treatment Approach	Penelope Banou[1], Euthimia Kiskira[1], Agathi Athoula Kaminari[1], Georgios Tsairis[1], Vassiliki Gerontopoulou[2], Athina Georgia Alexopoulou[1] [1] *University of West Attica* [2] *Onassis Library*
160	The Repository of Evlogon: Content Structuring and Formatting to Enable and Facilitate Learning	Konstantinos Athanasakos[1], Nikolaos Moropoulos[2], Anastasios Doulamis[3], Antonia Moropoulou[4] [1] *Agile Vendors* [2] *4Causes* [3] *National Technical University of Athens, School of Rural, Surveying and Geoinformatics Engineering* [4] *National Technical University of Athens, School of Chemical Engineering,*
163	The Evlogon Information Platform: The case study of the rehabilitation of the Varnakova Monastery	Antonia Moropoulou[1], Charalampos Mouzakis[2], Nikolaos Moropoulos[2], Maria Apostolopoulou[2], Ekaterini Delegou[2], Kyriakos Lampropoulos[1], Stergios Roumeliotis[2] [1] *National Technical University of Athens, School of Chemical Engineering* [2] *National Technical University of Athens*
164	The Evlogon Information Platform: The case study of the rehabilitation of the Holy Aedicule of the Holy Sepulchre	Antonia Moropoulou[1], Andreas Georgopoulos[2], Charalampos Mouzakis[3], Nikolaos Moropoulos[3], Maria Apostolopoulou[3], Ekaterini Delegou[3], Kyriakos Lampropoulos[1], Emmanouil Alexakis[3], Elisavet Tsilimantou[3], Stergios Roumeliotis[3] [1] *National Technical University of Athens, School of Chemical Engineering* [2] *National Technical University of Athens, School of Rural, Surveying and Geoinformatics Engineering* [3] *National Technical University of Athens*
165	The Evlogon information platform: The case study of the Greek contribution in the protection of Hagia Sophia	Antonia Moropoulou, Eleni Aggelakopoulou, Ekaterini Delegou, Maria Apostolopoulou, Kyriakos Lampropoulos *National Technical University of Athens School of Chemical Engineering*

Session 2: Emblematic Works as Source of Innovation: The Evlogon Model, Standardization of Diagnostic Studies and Quality Control of Works

Id	Title	Authors
166	Standardization and Specifications of the Methodology of Diagnostic Studies for the Protection of Monuments and Preservation of the Values	Antonia Moropoulou[1], Amalia Androulidaki[2], Konstantina Siountri[2], Andreas Georgopoulos[3], Elisavet Tsilimantou[4], Konstantinos Apostolopoulos[4], Kyriakos Lampropoulos[1], Ekaterini Delegou[4], Eleni Aggelakopoulou[4], Maria Apostolopoulou[4], Pagona-Noni Maravelaki[5], Stergios Roumeliotis[4], Charalampos Mouzakis[4], Lucia Karapita[4], Theodoros Panou[6] *[1] National Technical University of Athens, School of Chemical Engineering* *[2] Ministry of Culture* *[3] National Technical University of Athens, School of Rural, Surveying and Geoinformatics Engineering* *[4] National Technical University of Athens* *[5] Technical University of Crete* *[6] ELOT*
167	Standardization and Specifications for the Quality Control of Works for the Protection of Cultural Heritage Assets	Antonia Moropoulou[1], Eleni Aggelakopoulou[2], Ekaterini Delegou[2], Kyriakos Lampropoulos[1], Maria Apostolopoulou[2], Theodoros Panou[3] *[1] National Technical University of Athens, School of Chemical Engineering* *[2] National Technical University of Athens* *[3] ELOT*
176	Interdisciplinary diagnostic study of the Museum of the Greek-Orthodox Patriarchate of Alexandria, Egypt: Architectural, geometric and materials documentation.	Ekaterini Delegou[1], Stergios Roumeliotis[1], Anastasia Vythoulka[2], Maria Apostolopoulou[1], Charalampos Mouzakis[1], Andreas Georgopoulos[3], Antonia Moropoulou[4] *[1] National Technical University of Athens* *[2] School of Architecture, National Technical University of Athens, (NTUA)* *[3] National Technical University of Athens, School of Rural, Surveying and Geoinformatics Engineering* *[4]National Technical University of Athens, School of Chemical Engineering*

14.12.26 | 14:45-16:45 Hall 1

Session 3: History and Archaeology: Modern Reconstruction Technologies for Landscapes, Sites, and Narratives

Id	Title	Authors
15	Integrated GIS and Interdisciplinary Framework for the Spatial Reconstruction and Sustainable Management of the Ancient Municipality of Kymissala (Rhodes)	Zoi Stamati[1], Andreas Georgopoulos[2] *[1] University of the Aegean* *[2] National Technical University of Athens*

Session 3: History and Archaeology: Modern Reconstruction Technologies for Landscapes, Sites, and Narratives

Id	Title	Authors
19	"IASIS for the urban web: urban planning and cultural heritage assets harmonization" to "IASIS for the urban web: urban planning and cultural heritage assets harmonization – The Kahal Kadosh Hadash Yanina Synagogue Case Study	Athina Chroni[1], Andreas Georgopoulos[2], Pavlos-Stylianos Megalooikonomou[2] *[1] Hellenic Ministry of Education, Religious Affairs and Sports, National Technical University of Athens* *[2] National Technical University of Athens*
23	Ancient Theatre of Sparti: Archaeological Research, 3D Representation and Cultural Heritage Proposals	Lydia Elesa Vlachou[1], Vayia Panagiotidis[2] *[1] University of Peloponnese* *[2] University of the Peloponnese*
69	Water Cisterns and Water Fountains as a Joint Effort for Life in Jerusalem	Naama Ringel *Architect*
73	The Eurialo Fortress at Syracuse and Paolo Orsi's excavations: restoring meaning to the ruins	Valentina Macca *University of Catania*
122	New findings and discoveries informing resilience-base conservation. The case of the church of Ayia Marina in Frenaros	Nasso Chrysochou[1], Platonas Stylianou[2] *[1] Frederick Univeristy* *[2] Director of P. Stylianou Civil Engineers*
187	Ancient Theatre of Sparti: Archaeological Research, 3D Reconstruction and Cultural Heritage Proposals	Lydia Elesa Vlachou *University of Peloponnese*
188	Integrated GIS and Interdisciplinary Framework for the Spatial Reconstruction and Sustainable Management of the Ancient Municipality of Kymissala (Rhodes)	Zoi Stamati[1], Andreas Georgopoulos[2] *[1] Department of Mediterranean Studies, University of the Aegean* *[2] National Technical University of Athens*
190	Ancient Elis: A Brief Journey into the Past and a Vision for the Future	Christos Papageorgiou *Chemical Engineer, DProf, Europeologist, PhD*
197	Integrating GIS and Geoarchaeological Data for the Palaeoenvironmental and Palaeogeographical Reconstruction of the Neolithic Settlement of Dispilio, Kastoria	Vasiliki Samara, Aikaterini Theodorakopoulou, Elisavet Tsilimantou *Hellenic Open University*
335	Archaeological Sites of Thyamis River in Thesprotia, Geographic Information, Heritage Route and Promotion	Aristotelis Kotsias *Hellenic Open University*
356	From Athens and Nicopolis	Vasiliki Chrysakopoulou *University of Ioannina*

14.12.26 | 16:45-18:30 Hall 1

Session 4: Archaeometry and Archaeogenetics: High-Tech Heritage Investigation Revealing Materials and Techniques

Id	Title	Authors
61	Illuminating heritage through conservation-driven analysis: spectroscopic investigation of a 19th-century post-Byzantine icon	Martha Athanasiadou[1], Kostas Hatzigiannakis[2], Kristalia Melessanaki[2], Vassilios Panagiotopoulos[3], Alexandros Petrou[1], Argyro Tsigkri[1], Demetrios Anglos[4] *[1] Ephorate of Antiquities of the City of Athens (EACA), Makriyianni 2-4, GR-11742* *[2] Institute of Electronic Structure and Laser (IESL), Foundation for Research and Technology-Hellas (FORTH), GR-70013* *[3] Ephorate of Modern Monuments and Technical Works of Attika, Eastern Stereas Elladas and Cyclades GR-10555* *[4] IESL-FORTH and Department of Chemistry, University of Crete, GR-70013*
62	Multimodal analysis of Inks and Polychromy in a 19th-Century Ecclesiastical Music Manuscript Using the TriENA Hybrid Spectroscopic System	Eirini Ampatzioglou[1], Martha Athanasiadou[1], Kostas Hatzigiannakis[2], Vassileios Kitkas[3], Kristalia Melessanaki[2], Evangelia Stamouli[1], Argyro Tsigkri[1], Demetrios Anglos[4] *[1] Ephorate of Antiquities of the City of Athens (EACA), Makriyianni 2-4, GR-11742* *[2] Institute of Electronic Structure and Laser (IESL), Foundation for Research and Technology-Hellas (FORTH), GR-70013* *[3] IESL-FORTH, and Department of Physics, University of Crete, GR-70013* *[4] IESL-FORTH and Department of Chemistry, University of Crete, GR-70013*
64	Enabling Machine Learning for Monitoring Laser Cleaning Processes in Heritage Conservation based on Inherent Acoustic Signal Generation	Paraskevi Pouli[1], Georgios D. Barmparis[1], George J. Tserevelakis[2] *[1] IESL-FORTH* *[2] IESL-FORTH and University of Crete, Department of Biology*
111	Illuminating the Invisible: A Multispectral Study of the Zerbitsa Evangelistarium (1067)	Myrto Vlachou[1], Vagia Panagiotidis[2], Dimitris Mitsos[2], Dimitrios Vachaviolos[3] *[1]University of the Peloponnese, Management and New Technologies in Cultural Heritage MSc Program "Mantech"* *[2]University of the Peloponnese, Department of History, Archaeology and Cultural Management, Laboratory of Archaeometry* *[3]University of the Peloponnese, Department of History, Archaeology and Cultural Resources Management*
116	On two Cu-based pigment recipes in Dionysius of Fourna "Hermeneia"	Larissa Tivikeli[1], Eleni Rakanta[1], Stamatios Boyatzis[2], Konstantinos G. Beltsios[1], Georgios P. Mastrotheodoros[2] *[1] School of Chemical Engineering, National Technical University of Athens, Zographou, Greece* *[2] Department of Antiquities & Works of Art Conservation, West Attica University, Egaleo, Greece*

Session 4: Archaeometry and Archaeogenetics: High-Tech Heritage Investigation Revealing Materials and Techniques

Id	Title	Authors
124	Measuring radioactivity in Orchomenos archaeological area of interest	Konstantinos Kamoutsis, Stelios Xanthos *Department of Industrial Engineering and Management, International Hellenic University*
138	Applications of Egyptian Blue in Early Roman Judea: Evolution of Color Manipulations	Abraham Leviant[1], Naama Lena Sharabi[2], Roi Porat[2], Uzi Ad[3], Peter Gendelman[3], Silvia Rozenberg[4], Yotam Asscher[1] *[1] Department of Culture Heritage, School of Archaeology and Maritime Cultures University of Haifa, Israel* *[2] Department of Archaeology, The Hebrew University of Jerusalem, Israel* *[3] Department of Archaeology Research, Israel Antiquities Authority, Jerusalem, Israel* *[4] Israel Museum, Jerusalem, Israel*
139	GIS-based spatial analysis of resource exchange networks between metals production sites and ancient urban centres in northeastern Greece	Nerantzis Nerantzis[1], Vayia V. Panagiotidis[2] *[1] University of the Peloponnese* *[2] Laboratory of Archaeometry, University of the Peloponnese*
146	Archaeometric investigation of the composite materials of the museum of the Greek-Orthodox Patriarchate of Alexandria, Egypt	Eleni Zimi *Laboratory of Archaeometry, University of the Peloponnese, Greece*
361	OSL dating of historical building materials from the Museum of the Greek Orthodox Patriarchate in Alexandria, Egypt	K. Stamoulis[1], D. Mitsos[2], E. Palamara[2], Maria Kylafi[3], Eleni Aggelakopoulou[4], Eleni Zimi[2] *[1]University of Ioannina* *[2]Laboratory of Archaeometry, University of the Peloponnese* *[3]Ephorate of Antiquities of Messenia* *[4]National Technical University of Athens, School of Chemical Engineering, Laboratory of Materials Science & Engineering*

14.12.26 | 18:30-19:30 Hall 1

Session 5: Education for Public Engagement Social Awareness and Science Communication by Bridging Heritage Stakeholders, the Arts, Science, and Industry Under the Belt and Road Initiative for Multimodal Cultural Heritage Preservation

Id	Title	Authors
18	Innovative teaching approaches for the promotion of Tangible and Intangible Cultural Heritage by students in Formal Education using 2D, 3D, Stop Motion animation	Anastasia Labropoulou[1], Spyridon Siakas[2] *[1] Postdoctoral Researcher UniWA* *[2] UniWA*
114	A Holistic and Interdisciplinary Approach to Cultural Heritage Education: Designing a Digital Game for Teaching History in Greek Primary School	Elpida Gaitani[1], George Malaperdas[2] *[1] University of Peloponnese, MSc in Cultural Heritage Management and Technologies* *[2] Department of Environment, Ionian University*

Session 5: Education for Public Engagement Social Awareness and Science Communication by Bridging Heritage Stakeholders, the Arts, Science, and Industry Under the Belt and Road Initiative for Multimodal Cultural Heritage Preservation

Id	Title	Authors
307	Virtual restoration as a mean to engage the public. One more experience in Vimercate historic center.	Stefano Della Torre[1], Rossella Moioli[2] [1] *Politecnico di Milano* [2] *Politecncico di Milano, Gradduate School of Management*
339	Digital Transformation and Public Participation in the Sustainable Preservation of Cultural Heritage: Perspectives from Pakistan	Hussain Adnan *Pakistan Academy of Letters, Ministry of National Heritage & Culture*
357	Revisiting “ELAICH Methodology” for Heritage Conservation Education: Human contribution in the Era of Artificial Intelligence	Anna Lobovikov-Katz[1], Kyriakos Lampropoulos[2], Antonia Moropoulou[2] [1]*University of Haifa* [2] *National Technical University of Athens, School of Chemical Engineering*
358	Building Climate Resilience in Cultural Heritage: Skills Development, Educational Innovation and a European Training Framework	Inês Flores-Colen[1], Maria Karoglou[2], Agoritsa Konstanti[2], Epameinondia Aggelou[2], Rose Nangah Mankaa[3], Monu Varghese[3], Michail Delagrammatikas[4], Suzana Georgieva[5], Pande Antoska[5], Alejandro Pedreño-Rojas[6], Paola Paola Villoria-Sáez[6], César Porras-Amores[6], Emmanuel Manos Vakondios[4], Vasiliki Tsiouri[2], Sotirios Karelas[2], Giovanna Bartels[7], Marzia Traverso[1] and Maria Mendes[8] [1]*CERIS, Instituto Superior Técnico, Universidade de Lisboa, Portugal* [2]*National Technical University of Athens* [3]*Institute of Sustainability (InaB) in Civil Engineering, RWTH Aachen University, Germany* [4]*Creative Thinking Development (CRETHIDEV), Greece* [5]*IECE, Institute for Research in Environment, Civil Engineering and Energy (IECE), North Macedonia* [6]*TEMA Research Group, ETS Edificación, Universidad Politécnica de Madrid (UPM), Spain* [7]*PhD Canditate* [8]*CERENA, Instituto Superior Técnico, Universidade de Lisboa, Portugal*

15.12.26 | 09:00-10:45 Hall 1

Session 6: Memory Twin II: Semantic Platforms, Community Memory and Adaptive Reuse

Id	Title	Authors
3	Reactive Heritage Digital Twins	Roberto Di Giulio[1], Franco Niccolucci[2] [1] *Inception srl* [2] *ARIADNE Infrastructure AISBL*
6	The Passage of Time – Constructing a Narrative between an Item and the Screen	Inbal Dr. Rivlin, Sorin Dr. Heller, Shunit Marmelstein *Hecht Museum, University of Haifa*
129	"From Memory to Experience: A Memory Twin Framework for Interpreting the 1947 Akko Prison Break under the British Mandate"	Shelley-Anne Peleg *University of Haifa*
131	PhilokaliaPlus: Developing a Memory Twin for Theological Heritage through Artificial Intelligence and Google Cloud Platform	Ioannis Panagiotopoulos *NKUA*
133	From community narratives and everyday objects to digital heritage: a case study in the Aldeia da Luz, Portugal	Rafael Ramírez Eudave[1], Tiago Miguel Ferreira[2], Giorgia Giardina[1] [1] *Department of Geoscience and Engineering, Delft University of Technology, Stevinweg 1, 2628 CN, Delft, The Netherlands* [2] *CERIS, Instituto Superior Técnico, University of Lisbon, Av. Rovisco Pais 1, 1049-001 Lisboa, Portugal*
171	A Hybrid Memory Twin Platform for the Holy Aedicule: Workflow Orchestration, Spatial Persistence and Semantic Interoperability for Multidisciplinary Heritage Documentation	Emmanouil Alexakis[1], Dimosthenis Kyriazis[1], Andreas Georgopoulos[2], Antonia Moropoulou[3] [1] *National Technical University of Athens* [2] *National Technical University of Athens, School of Rural, Surveying and Geoinformatics Engineering* [3] *National Technical University of Athens, School of Chemical Engineering*
172	From Ontological Framework to Operational Semantic-Spatial Memory Twin: Extending Semantic Heritage Integration Workflows for the Holy Aedicule	Emmanouil Alexakis[1], Dimosthenis Kyriazis[2], Andreas Georgopoulos[3], Antonia Moropoulou[4] [1] *National Technical University of Athens* [2] *University of Piraeus* [3] *National Technical University of Athens, School of Rural, Surveying and Geoinformatics Engineering* [4] *National Technical University of Athens, School of Chemical Engineering*
186	Memory Twin for Igoumenitsa: coastal heritage change and urban rehabilitation	Christina Gogolou *University of Ioannina*
301	From Local Memory to Digital Cultural Heritage: Documenting and Preserving the History of Chandria Village, Cyprus	Evanthia Itsa *Cyprus University of Technology*

Session 6: Memory Twin II: Semantic Platforms, Community Memory and Adaptive Reuse

Id	Title	Authors
355	Towards a Digital Twin for Paper Artworks: A Risk Monitoring and Decision-Support Framework for Preventive Conservation	Stavroula Kissa, Vasiliki Kokla, Georgios Bardis, Dimitrios Makris *University of West Attica*

15.12.26 | 11:00-12:30 Hall 1

Session 7: The Role of Generative AI in Cultural Heritage Documentation, Restoration and Augmented Reality

Id	Title	Authors
13	Generative AI and the Authenticity Crisis in Visual and Literary Production: Responsibility, Originality, and Artistic Value	Ioannis Peros, Eugenia Giannini *National Technical University of Athens*
22	Smart Cultural Heritage: Design and Development of an AI-Powered Mobile Application for Personalized Museum Exploration	Dimitrios Gousopoulos, George Petrakos *Panteion University, Greece*
117	Reshaping Greek Trousseau textiles into wearable heritage through designer-artificial intelligence co-creation	Maria Zoumaki[1], Kerasia Chloridou[2], Venetia Koutsou[2], Eleftheria Stoikou[2], Apostolos Korlos[3] *[1] International Hellenic University, School of Design, Department of Interior Architecture* *[2] International Hellenic University, School of Design, Department of Creative Design and Clothing* *[3] International Hellenic University, School of Engineering, Department of Production Engineering and Management*
145	Will AI and GenAI benefit creativity and culture?	Alfredo Ronchi *Engineering Faculty Politecnico di Milano Milano, Italy*
182	Extended Reality Research for Cultural Heritage in Europe: Insights from a Bibliometric Analysis	Junwen Lu, Guillermo García-Badell, Joan B. Rodriguez *Universidad Politécnica de Madrid*
242	Beyond the Beach: A 3-Hourly HCI:Beach/Urban Decision-Support Framework with an Inverse Comfort Index (iHCI) for Sheltered Heritage Visitation in Heraklion, Crete	Antonios Parasyris[1], George Alexandrakis[2], Vassiliki Metheniti[2], Georgios V. Kozyrakis[2], Nikolaos Kampanis[2] *[1] IACM FORTH* *[2] Institute of Applied and Computational Mathematics, Foundation for Research and Technology - Hellas*
300	The Influence of Training and Agentic Architecture on AI-Assisted Diagnosis of Stone Deterioration Patterns	José Delgado Rodrigues[1], Daniele Corradetti[2] *[1] Consultant* *[2] Instituto Superior Técnico, University of Lisbon, Portugal*
302	From Visitor Data to Personas: Towards Personalized Digital Mediation in Archaeological Heritage Sites	Elissavet Kosta, Markos Konstantakis, Konstantinos Michalakis, George Caridakis *University of the Aegean*

Session 7: The Role of Generative AI in Cultural Heritage Documentation, Restoration and Augmented Reality

Id	Title	Authors
350	After the Witness: AI, Historical Truth and the Transmission of Cultural Memory	Marianna Mavroudi *Independent Researcher*

15.12.26 | 12:30-14:30 Hall 1

Session 8: Non-Destructive and Structural Techniques for Diagnosis, Redesign and Health Monitoring in the New Digital Era

Id	Title	Authors
10	Cooling-Phase Remote Active Infrared Thermography for Condition Documentation of the Elevated Zaojing at Baoguo Temple	Yinuo Ding[1], Ahmad Osman[2], Stefano Sfarra[3], Hai Zhang[1], Minghao Zhu[4], Elena Marini[3] *[1] Centre for Composite Materials and Structures (CCMS), Harbin Institute of Technology, Harbin 150001, China.* *[2] Hochschule für Technik und Wirtschaft des Saarlandes - University of Applied Sciences* *[3] Department ndustrial anof Id Information Engineering and Economics, University of L'Aquila, I-67100 L'Aquila, Italy* *[4] National Key Laboratory of Laser Spatial Information, Harbin Institute of Technology, Harbin, 150001, China*
12	Real-Time Digital Mapping and Structural Health Monitoring of the Acropolis Circuit Wall	Elena Kapogianni *National Technical University of Athens*
14	PCA-Based Local Thermographic Mosaicking for Non-Contact Inspection of a Yuan-Dynasty Stone Stele	Zhiyang Zhang[1], Hai Zhang[1], Ahmad Osman[2], Minghao Zhu[3], Stefano Sfarra[4], Elena Marini[4] *[1] Centre for Composite Materials and Structures (CCMS), Harbin Institute of Technology, Harbin 150001, China.* *[2] Hochschule für Technik und Wirtschaft des Saarlandes (htw saar), Saarbrücken, Germany* *[3] National Key Laboratory of Laser Spatial Information, Harbin Institute of Technology, Harbin, 150001, China* *[4] Department of Industrial and Information Engineering and Economics, University of L'Aquila, I-67100 L'Aquila, Italy*
16	Video-Based Sliding Window Operational Modal Analysis for the Dynamic Assesssment of Historical Stone Masonry Structures	Constantinos Providakis, Maria Stavroulaki, Georgia Providaki *Technical University of Crete*
70	Low granulometry lime-based mortars for the conservation of wall painting and plasters	Dimitrios Chatzigiannis, Maria Eleni Kontaxaki, Agathi Patsioura, Nikolaos-Alexis Stefanis, Styliani Papatzani, Maria Chatzidakis *University of West Attica - Department of Conservation of Antiquities and Works of Art*
144	The role of geotechnical engineering within a holistic evaluation of the interrelation between a monument and its environment	Konstantinos Vasileiadis[1], Charalambos Mouzakis[2] *[1] EYLOGON - TEE* *[2] NTUA - EYLOGON -TEE*

Session 8: Non-Destructive and Structural Techniques for Diagnosis, Redesign and Health Monitoring in the New Digital Era

Id	Title	Authors
157	Advanced Infrared Thermography for Structural Diagnostics of Cultural Heritage: Application at the Patriarchate of Alexandria	Dimitrios Exarchos, Spyridoula Farmaki, Panagiota Aikaterini Dalla, Alexandros Tiktapanidis, Christos Metaxas, Theodore Matikas *University of Ioannina*
168	Challenges and Future Trends for the Design and Assessment of Conservation and Restoration Materials for Cultural Heritage Protection	Antonia Moropoulou[1], Maria Apostolopoulou[1], Ekaterini Delegou[1], Eleni Aggelakopoulou[1], Pagona-Noni Maravelaki[2], Kyriakos Lampropoulos[1] *[1] National Technical University of Athens, School of Chemical Engineering* *[2] Technical University of Crete*
179	Investigating the combined effect of carbon based nanomaterials and superplasticizer on piezoresistivity properties of cement-based restoration pastes	Maria-Evangelia Stogia[1], George Maistros[2], Zoi S. Metaxa[3], Stavros Kourkoulis[4], Nikolaos Alexopoulos[5] *[1] University of the Aegean, School of Engineering, Department of Financial Engineering, Chios* *[2] ADVISE DETA S.A.* *[3] Democritus University, School of Science, Dept of Chemistry, Kavala* *[4] National Technical University of Athens, School of Applied Mathematical and Physical Sciences* *[5] University of the Aegean*
319	Integrating ER-FTIR Spectroscopy and Artificial Intelligence for the Characterization and Conservation of Wall Paintings	Carla Rea[1], Laura Medeghini[1], Simone Scardapane[2], Gabriele Favero[3], Alessandro Ciccola[3] *[1] Department of Earth Sciences, Sapienza University of Rome* *[2] Department of Information Engineering, Electronics and Telecommunications, Sapienza University of Rome* *[3] Department of Environmental Biology, Sapienza University of Rome*
338	Digital Twinning for the Health Monitoring and Life-Extension of a Heritage Structure: Reflecting on the lessons from the Clifton Suspension Bridge, Bristol (UK)	Theo Tryfonas *University of Bristol*

15.12.26 | 15:15-16:45 Hall 1

Session 9: Preserving Compatibility, the Materiality and Integrity of Structures and Architectural Authenticity

Id	Title	Authors
112	Ti – based materials for the protection of built cultural heritage: Theoretical insight into Ti-Ca interaction.	A Papadimitriou, D.A. Exarchos, E Delegou, T.E. Matikas, Ch.E. Lekka *University of Ioannina*

Session 9: Preserving Compatibility, the Materiality and Integrity of Structures and Architectural Authenticity

Id	Title	Authors
113	Assessing Urban Materiality: Using Impact Assessment in Urban Heritage Conservation	Adi Sela Wiener[1], Laura Medeghini[2], Gabriele Favero[2] *[1] Bezalel Academy of Arts and Design, Jerusalem* *[2] Sapienza University of Rome*
121	Designing a mixed-use dormitory at Tokyo University	Aikaterini Kyrmizoglou, Venetia Tsakalidou *Aristotle University of Thessaloniki*
128	Quantum Mechanics: Contributions to Innovation, High Technology, and Cultural Heritage	Evangelos Gazis[1], Nick Gazis[2] *[1] National TechnicalUniversity of Athens* *[2] European Spallation Source ERIC*
132	The Corner as Urban Palimpsest: Reading a Micro-Heritage Node on Fokionos Negri, Athens	Georgina Eleftheraki *PhD(c) School of Architecture, National Technical University of Athens*
136	Rethinking the Preservation of Reinforced Concrete Heritage: The Case of the Patras Port Authority Building	Apostolos Apostolopoulos, Alkiviadis Apostolopoulos, Prof. Charis Apostolopoulos *Prothesis Office - Architecture and Civil Engineering firm*
184	Two Ottoman konaks in Northern Greece: architectural analysis, construction technology, and heritage viability	Damiani Karageorgiadou[1], Katerina Ritzouli[2] *[1] PhD Canditate, Democritus University of Thrace, Department of Architecture* *[2] Ast. Profesor, Democritus University of Thrace, Department of Architecture*
243	New Evidence for the Old Monastery of St. John the Baptist at Desfina, Phocis	Marilena Tsakoumaki, Anthoula Tsaroucha *Ephorate of Antiquities of Phocis*

15.12.26 | 16:45-18:30 Hall 1

Session 10: Historic Cities and Centers: New Reuse and Preservation Strategies Through Circular Economy and Social Cohesion

Id	Title	Authors
67	Towards a Master Plan for the Restoration and Adaptive Reuse of the Vamvakas Mansion in Kozani, Greece: A Framework for Heritage-Led Urban Regeneration	Sofia Tsanaktsidou *Municipality of Kozani*
143	Historic Urban Landscapes and Geoinformatics Methods and Technologies: A Bibliometric Perspective	Evangelos Brachos[1], Dimitris Psychogyios[2], Nikolaos Patsavos[1] *[1] Department of Architecture University of Ioannina* *[2] Department of Architecture University of Thessaly*

Session 10: Historic Cities and Centers: New Reuse and Preservation Strategies Through Circular Economy and Social Cohesion

Id	Title	Authors
173	The Cisterna delle Vignacce: A Multiscalar Approach to Urban Regeneration and Heritage Conservation via Digital Twin	Veronika Karadzhova *Independent Researcher*
181	Spatial Configuration and Public Space Ambience Qualities: Exploring the Interactions between Urban Morphology, Soundscape, and Social Behavior (a comparative study of place du 1er novembre and place de la liberté in Blida -Algeria)	Amina Radji *SAAD DAHLEB BLIDA 1*
196	revised Fifteen minutes “Architecture” The continuous reuse of Papazogleios Weaving School in Ioannina	Angelos Papageorgiou[1], Georgios Smyris[1], Anastasios Mpalaskas[2] *[1] University of Ioannina, Department of Architecture* *[2] Democritus University of Thrace, Department of Civil Engineering*
239	A Web-Based Digital Platform as a Transferable Methodology for Integrated Heritage Management of Living Historic Cities	Fatmanur Gökşin, Elif Mihcioglu, Işıl Ruhi-Sipahioğlu, Mehmet Burak Akgün, Sabha Okur, Afra Temiz *TOBB University of Economics and Technology*
306	Temporary Reuse as Ecological Transition Strategy for the Conservation of Abandoned Built Cultural Heritage	Mehrnaz Rajabi[1], Arian Heidari Afshari[2] *[1] Politecnico di Milano* *[2] DAStU, Politecnico di Milano*
321	From Preservation to Transformation: Mapping the Capacity for Adaptive Reuse and Sustainable Change in the Historic Centre of Rethymno	Despina Dimelli *School of Architecture Technical University of Crete*
336	Paname influence le monde: An analysis of Paris's cultural identity through its songs	Olga-Christina Kyrmizoglou, Konstantinos Katsapis *Panteion University of Social and Political Sciences*

16.12.26 | 09:00-12:15 Hall 1

Session 11: Memory Twin I: From 3D, HBIM and GIS Documentation to a Holistic Digital Framework

Id	Title	Authors
1	Geomatics Based Documentation of Stone Bridges Using GIS: A Comprehensive Review and a Case Study from Pelion, Greece	Rania Kokkori, Dimitris Psychogyios, Sofia Margoni, Eirini Tsiakou *Department of Architecture University of Thessaly*
4	3D Documentation of paintings using Integrated Geodetic and Photogrammetric Techniques	Stefania Ioannidou *School of Rural, Surveying & Geoinformatics Engineering, National Technical University of Athens*

Session 11: Memory Twin I: From 3D, HBIM and GIS Documentation to a Holistic Digital Framework

Id	Title	Authors
5	From 3D Documentation to GIS: An Interactive Information System for Paintings	Stefania Ioannidou[1], George Pantazis[1], Elena Konstantinidou[2], Asterios Bakolas[3] [1] *School of Rural, Surveying & Geoinformatics Engineering, National Technical University of Athens* [2] *School of Architecture, National Technical University of Athens* [3] *School of Chemical Engineering, National Technical University of Athens*
71	Documentation and digitization of the Church of Hagioi Asomatoi – Methodology and challenges	Athanasios Iliodromitis[1], Styliani Papatzani[1], Konstantinos Dimitroulias[2], Eleni Spentza[3] [1] *University of West Attica* [2] *Hellenic Ministry of Culture* [3] *Surveying & Geoinformatics Engineer*
72	Preserving details of the Horologion of Andronikos Kyrrhistos through digitization	Styliani Papatzani[1], Athanasios Iliodromitis[1], Konstantinos Dimitroulias[2], Nikolaos Tsoniotis[3] [1] *University of West Attica* [2] *Hellenic Ministry of Culture* [3] *Ephorate of the Antiquities of Athens*
102	Integrated HBIM and Interdisciplinary Framework for the Digital Reconstruction of the Byzantine Castle of Moglena (Chrisi Pellas)	Sofia Zarkada[1], Efrosyni Psourouki[2], Sevasti Tapeinaki[2], Andreas Georgopoulos[2] [1] *University of the Aegean, Dept. of Mediterranean Studies* [2] *Laboratory of Photogrammetry, NTUA*
119	Deformation of Liquid Fuel Storage Tanks Using Modern Measurement and Imaging Methods	Athanasios Magkaniaris[1], George Pantazis[1], Vasilis Zafeiris[1], Nikolaos Darras[2] [1] *National Technical University of Athens* [2] *ASPROFOS SA*
130	Digital Representation of Architectural Heritage: Dar Lasram as a Field of Application for Photogrammetry	Dimitris Psychogyios[1], Evangelos Brachos[2], Mohsen Ben Hadj Salem[3], Anastasia Valsamaki[1], Christina Tsartsaraki[1], Sophia Briza[1], Nikolas Makrygiannis[1], Ioannis Manis[1] [1] *Department of Architecture University of Thessaly* [2] *Department of Architecture University of Ioannina* [3] *Department of Architecture and Urban Design, University of Carthage*
140	3D Digital Recording as the Basis for the Historical Documentation and Conservation of Seven Historic Bridges along the Pavla River, Albania: Challenges and Results	Markos Nikolaou[1], Andreas Deligiannis[1], Athanasios Iliodromitis[1], Anastasia Katsoulou[1], Panagoula Kopelou[1], Georgios Papaioannou[2], Vassilis Pagounis[1] [1] *Laboratoty of Geodesy, Surveying & GNSS, Department of Surveying & Geoinformatics Engineering, University of West Attica* [2] *Museology Research Laboratory, Department of Archives, Library Science and Museology, Ionian University*

Session 11: Memory Twin I: From 3D, HBIM and GIS Documentation to a Holistic Digital Framework

Id	Title	Authors
158	Innovative technologies for geometric documentation: The transition from 3D digital documentation towards a holistic digital heritage environment	Andreas Georgopoulos[1], Elisavet Tsilimantou[2], Konstantinos Apostolopoulos[3], Antonia Moropoulou[2] *[1] Lab of Photogrammetry, School of Rural, Surveying and Geoinformatics Enfineering, NTUA* *[2] National Technical University of Athens, School of Chemical Engineering* *[3] School of Rural, Surveying and Geoinformatics Enfineering*
170	Investigation of Digital Methods for Monument Documentation through 3D, GIS and HBIM technologies. Application to the monuments: Tomb of Atreus, Temple of Epicurean Apollo and Hagia Sophia of Thessaloniki	Kyriaki Lafi, Elisavet Tsilimantou *School of Applied arts and Sustainable Design, Hellenic Open University, Parodos Aristotelous 18, 26335 Patras, Greece*
177	Combined use of NDT technologies and 3D documentation for the assessment of the preservation state of historical stone bridges	Elisavet Tsilimantou[1], Dimitrios Exarchos[2], Dimitrios Kirikos[2], Ekaterini Delegou[2], Theodore Matikas[2], Vassilis Pagounis[1] *[1] University of West Attica, Department of Surveying and Geoinformatics Engineering, Athens, Greece* *[2] University of Ioannina, Department of Materials Science and Engineering*
198	Investigation of Methods for Three–Dimensional Documentation and Modeling of Monuments: Case Study of Alatza Imaret, Thessaloniki	Athanasios Mamoutopoulos, Elisavet Tsilimantou *SCHOOL OF APPLIED ARTS AND SUSTAINABLE DESIGN*
244	Gaussian Splatting in Cultural Heritage Documentation: Risks, Challenges and Implications for the Authenticity of the Past	Anthony Cassar[1], Marinos Ioannides[2] *[1] Technology and Experience Development Unit, Heritage Malta* *[2] UNESCO Chair on Digital Cultural Heritage, Digital Heritage Research Lab, Cyprus University of Technology*
322	Immersive Legends of Lake Pamvotis: Virtual Reality for the Interpretation of Intangible Cultural Heritage	Aikaterini Papachristopoulou, Anastasia Varoucha, Vasiliki Stamati, Ioannis Fudos *University of Ioannina*
351	Digital documentation of architectural heritage using HBIM technologies: the Sharabia School portal as a model	Sabeeh Lafta Farhan and Ali Majeed Khairullah *Wasit University*

Session 11: Memory Twin I: From 3D, HBIM and GIS Documentation to a Holistic Digital Framework

Id	Title	Authors
353	A novel approach for a 3D Holistic Documentation and Quality Assessment in Cultural Heritage: The HERITALISE Project	Alberto Mendikute[1], Bidane Asua[1], Marinos Ioannides[2], Filiberto Chiabrando[3], Andrea Lingua[4], Anthony Cassar[5] and Catherine Anne Cassidy[6] *[1]Fundación Tekniker, C/ Iñaki Goenaga 5, 20600 Eibar, Gipuzkoa, Spain* *[2]Research Centre Mnemosyne, Faculty of Engineering and Technology, Cyprus University of Technology* *[3]Dipartimento di Architettura e Design, Politecnico di Torino* *[4]Dipartimento Ingegneria dell'Ambiente del Territorio e delle Infrastrutture, Politecnico di Torino* *[5]Heritage Malta Digitisation Unit, 35, Heritage Malta Head Office Ex Royal Naval Hospital Dawret Fra Giovanni Bich* *[6]Open Virtual Worlds, School of Computer Science, St Andrews, Fife*

16.12.26 | 12:15-14:30 Hall 1

Session 12: Reinventing Resilience: Natural Hazards, Earthquake and Structural Rehabilitation

Id	Title	Authors
8	Greek Cultural Heritage Under Pressure: Navigating Crises and Shaping Resilience	Theodora Chatzi Rodopoulou *Dr. Architect Engineer TUDelft-NTUA*
11	The Church of San Pietro Maggiore in Tuscania: transformation of structural Behavior as a result of Conservation Interventions	Caterina F. Carocci[1], Luciano Antonino Scuderi[2] *[1] Università di Catania* *[2] Ministero della Cultura*
63	Post-earthquake conservation and reconstruction. The case of Villa Sant'Angelo (AQ), 17 years after the 2009 L'Aquila earthquake	Caterina Carocci[1], Margherita Giuffrè[2] *[1] Dipartimento di Ingegneria Civile e Architettura, Università di Catania* *[2] Istituto di Geologia Ambientale e Geoingegneria – Consiglio Nazionale delle Ricerche, Montelibretti (RM)*
66	From Mitigation to Transformation: Systemic Resilience and Transdisciplinary Risk Governance in Cultural Heritage Conservation	Athina Georgia Alexopoulou[1], Christiana Papapostolou[2], Agathi Athoula Kaminari[3], Stamatina Theochari[4], Aimilia Kondili[2], Penelope Banou[1], Euthimia Kiskira[3], Aggelos Kaldellis[2], Evangelia Panou[5] *[1] University of West Attica, ARTICON Laboratory, Faculty of Applied Arts and Culture* *[2] University of West Attica, Department of Mechanical Engineers* *[3] University of West Attica, Department of Conservation of Antiquities and Artworks* *[4] University of West Attica, Department of Graphic Design* *[5] University of West Attica, ARTICON Laboratory, Faculty of Applied Arts and Culture, University of West Attica*

Session 12: Reinventing Resilience: Natural Hazards, Earthquake and Structural Rehabilitation

Id	Title	Authors
103	Morphology-Based Assessment of Energy Performance and Seismic Vulnerability in Historic Urban Heritage: The Case of Xanthi Old Town, Greece	Dimitra Tsirigoti, Stylianos Pardalopoulos *Democritus University of Thrace*
141	From Investigation to Intervention: Strategies for Diffuse Architectural Heritage in Seismic Areas	Antonella Saisi *Politecnico di Milano*
161	Key challenges for structural assessment of Unreinforced Masonry historic structures	Harris Mouzakis, Lucia Karapitta, Maria Apostolopoulou *National Technical University of Athens*
162	Ground motion selection for structural assessment of Unreinforced Masonry historic structures	Harris Mouzakis, Lucia Karapitta *National Technical University of Athens*
178	Seismic performance assessment and strengthening evaluation for earthquake-damaged masonry churches	Georgios Stavroulakis, Maria Stavroulaki, Barbara Charalambidi, Maria-Styliani Daraki, Nikos Kaminakis *Technical University of Crete*
189	Dynamic behavior of colonnades with dowelled multi-drum columns under varying architrave heights	Olympia Panagouli *University of Thessaly*
240	Architectural and Cultural Heritage in Seismic Areas in Italy: Balancing Safety, Conservation and Uncertainty	Marco Corradi[1], Antonio Borri[2] [1] *Huddersfield University* [2] *Department of Engineering, University of Perugia, Perugia, Italy*
304	City Information Modeling in Post Emergency Scenarios: From Post-Disaster Data Acquisition to Decision-Support Information Infrastructures	Lucia Antognozzi[1], Antonino Libro[2], Dario Rizzi[1], Marcello Balzani[1] [1] *UNIFE* [2] *Regione Emilia Romagna*
334	Demonstrating solutions to protect and preserve cultural heritage from the impacts of climate change	Vasiliki Charalampopoulou *GEOSYSTEMS HELLAS SA CEO*

16.12.26 | 15:15-18:00 Hall 1

Session 13: The Green and Blue Deal for Cultural and Environmental Tourism Towards Sustainable Local Development and Energy Transition

Id	Title	Authors
17	Rural Heritage as a Driver of Circular Development: Reuse Scenarios from Agricultural Waste in a Sicilian Case Study	Carla Di Giorgio[1], Stefania De Medici[2] [1] *Department of Architecture, University of Naples Federico II, Naples* [2] *Department of Civil Engineering and Architecture, University of Catania, Siracusa*

Session 13: The Green and Blue Deal for Cultural and Environmental Tourism Towards Sustainable Local Development and Energy Transition

Id	Title	Authors
20	Aegean Sea and mainland Greece trade routes in antiquity: people and cultures in motion - Cultural heritage, landscape and urban web crossroads	Athina Chroni[1], Vassilia Karathanassi[2] *[1] Hellenic Ministry of Education, Religious Affairs and Sports, National Technical University of Athens* *[2] National Technical University of Athens*
21	Adaptive Reuse of Cultural Heritage Buildings: Integrating Energy Performance and Bioclimatic Design for Sustainable Transformation-A Literature Review	Lamprini Kitsouli *Architect, MSc University of Edinburgh, Phd University of Ioannina*
24	Renewable Energy transition in Mediterranean Historic Urban Landscapes: a Renovation Action Plan for coastal cities	Francesca Ciampa, Giuseppe Cataldi, Maria Rita Pinto *Department of Architecture, University of Naples Federico II*
118	Managing Waste in the Hospitality Sector: A Sustainability Perspective	Stavroula Athanasakopoulou[1,2], Theodora V. Nikou[1,2], Sofia Panousi[2], George Petrakos[1,2], George Soklis[1,2], Iakovos Stoubos[2] *[1] Panteion University, Athens, Greece* *[2] Research Institute for Tourism, Athens, Greece*
127	The Economic Viability of Digital Marketing in Sustaining Cultural Heritage Sites: A Strategic Framework for Palestinian Landmarks	Nisreen Hamdan *al quds open university*
142	The potential of agritourism to support climate resilience in rural Albania	Anila Sulaj *Agriculture University of Tirana*
159	Stakeholder Engagement and Participatory Planning in Small Island Contexts: The Case of Kasos under the GReco Islands Initiative	Antonia Moropoulou[1], Vasileios Vasileiadis[2], Simos Malamis[1], Anastasios Doulamis[3], Emanouil Ellinas[4], Anastasia Vythoulka[5], Ioanna Mikrou[1] Stergios Roumeliotis[1] *[1]National Technical University of Athens, School of Chemical Engineering* *[2] Naval Engineer, President of Panhellenic Association of Traditional Shipyards, Energy Project* *[3] School of Rural, Surveying and Geoinformatics Engineering, NTUA* *[4] Energy Project* *[5] National Technical University of Athens, School of Architecture, NTUA*
169	Transdisciplinary Energy Transition Planning for Small Island Systems: The Case of Kasos	Emmanouil Ellinas[1], Vasilios Vasiliadis[2], Antonia Moropoulou[3] *[1] National Technical University of Athens* *[2] Energy Project* *[3] National Technical University of Athens, School of Chemical Engineering*

Session 13: The Green and Blue Deal for Cultural and Environmental Tourism Towards Sustainable Local Development and Energy Transition

Id	Title	Authors
175	Strategic Prioritization of Sustainable Resource Management Measures in Decentralized Communities: The Case of Kasos under the GRecoIslands Initiative	Ilias Chatzimpalis, Simos Malamis *Sanitary Engineering Laboratory, School of Civil Engineering, National Technical University of Athens*
241	Tourism Potential and Conservation Challenges of the St. Petersburg World Heritage Site on the Southern Coast of the Gulf of Finland (Peterhof Road)	Sergey Gorbatenko *ICOMOS*
303	Revealing the Industrial and Pre-Industrial Heritage of the Island of Symi	Anastasia Papaioannou *Architect*
318	Uneven Development in Mountainous Greece: Cultural Heritage in a Place-Based Perspective	Dimitra Foufri *Laboratory Teaching Stuff (EDIP)*
352	Measuring Sustainable Practices and Infrastructures concerning Energy Consumption in the Hotel Industry	Stavroula Athanasakopoulou[12], George Petrakos[12] and Iakovos Stoubos[2] *[1]Panteion University, Athens, Greece* *[2]Research Institute for Tourism, Athens, Greece*
354	Solar Retrofit for Historic Buildings: A Transdisciplinary Approach to Heritage Compatibility, Energy Performance and Public Acceptance	Qian Phoebe Xu and Theo Tryfonas *University of Bristol*

16.12.26 | 18:00-19:00 Hall 1

Session 14: Maritime and Water Heritage Preservation

Id	Title	Authors
125	Preservation of cultural heritage in traditional shipbuilding. Hydrodynamic analysis of a karavoskaro vessel.	Thomas Mazarakos[1], Sotiria Dimitrellou[2], Sarantos Sarantidis[2], Lambros Alexandris[2] *[1] Associate Professor, School of Engineering, Department of Naval Architecture, University of West Attica* *[2] School of Engineering, Department of Naval Architecture, University of West Attica*
126	Preservation of cultural heritage in traditional shipbuilding. Additive manufacturing of a trechandiri vessel.	Sotiria Dimitrellou[1], Thomas Mazarakos[2], Antonios Zeibekoglou[1], Sarantos Sarantidis[1] *[1] School of Engineering, Department of Naval Architecture, University of West Attica* *[2] Assistant Professor, School of Engineering, Department of Naval Architecture, University of West Attica*

Session 14: Maritime and Water Heritage Preservation

Id	Title	Authors
320	Sustainable preservation of the Greek shipbuilding heritage	Gregory Grigoropoulos *National Technical University of Athens NTUA*
323	Preservation of water-related cultural heritage: The case of the Church of Agios Nikolaos in Alassa	Georgia Frangoudi[1], Maria Philokyprou[2] [1] *Department of Antiquities* [2] *University of Cyprus*
359	The Watermill of Koutsourou Monastery (Dalakas Mill) in Dorida GREECE :Historical Documentation ,Technical Assessment and Priorities of Conservation	Dimitrios Yfantis *Prof.NTUA, Dr rer.nat TUM member of EUROPEAN ASSOCIATION OF PROFESSORS EMERITI (EAPE)*

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