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»

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National Technical University of Athens

Ορθόδοξος Ακαδημία Κρήτης (ΟΑΚ)

Πανεπιστήμιο Ιωαννίνων

ΠΑΝΕΠΙΣΤΗΜΙΟ ΠΕΛΟΠΟΝΝΗΣΟΥ

ΕΚΚΕ ΕΘΝΙΚΟ ΚΕΝΤΡΟ ΚΟΙΝΩΝΙΚΩΝ ΕΡΕΥΝΩΝ

ΤΕΕ Technical Chamber of Greece

Preliminary Program

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* **10:45-12:30** **Panel discussion 1**: Innovative Transdisciplinary Development and Transfer of Know-How and Multilateral Cooperation Addressing World Challenges for the Rehabilitation of Emblematic Monuments **12:30-14:15** **Panel discussion 2**: Religious monuments and the Christian values in dialogue with the Society *14:15-14:45 Lunch Break* **14:45-16:15** **Panel discussion 3**: Science Communication **16:15-17:45** **Panel discussion 4**: Novel Educational approach for the Sustainable Preservation and Revealing of Cultural Heritage **17:45-19:15** **Panel discussion 5**: Historical and Archaeological Documentation Endorsing the Values of Monuments' Rehabilitation with Respect **19:15-20:45** **Panel discussion 6**: 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 **12:30-14:00** **Session 2**: Emblematic Works as Source of Innovation: The Evlogon Model, Standardization of Diagnostic Studies and Quality Control of Works *14:00-14:30 Lunch Break* **14:30-16:15** **Session 3**: History and Archaeology: Modern Reconstruction Technologies for Landscapes, Sites, and Narratives **16:15-17:45** **Session 4**: Archaeometry and Archaeogenetics: High-Tech Heritage Investigation Revealing Materials and Techniques **18:00-19:15** **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

Preliminary Program

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	**09:00-10:30** **Session 6**: Memory Twin II: Semantic Platforms, Community Memory and Adaptive Reuse
10:30-10:45 Coffee Break	*10:30-10:45 Coffee Break*
10:45-12:15 **Panel discussion 8**: Driving the Digital Transition in Cultural Heritage: The Role of Competence Centers in Advancing European Strategies	**10:45-12:15** **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	**12:15-14:45** **Session 8**: The Green and Blue Deal for Cultural and Environmental Tourism Towards Sustainable Local Development and Energy Transition
13:45-14:30 Lunch Break	*14:45-15:15 Lunch Break*
14:30-16:00 **Panel discussion 10**: Historic cities and centers: New Reuse and preservation strategies applying Circular Economy	**15:15-17:15** **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)	**17:15-19:00** **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**: Green and blue deal for Tourism through the sustainable revival Cultural Heritage and Environmental Assets	

Preliminary Program

GENERAL PROGRAM

DAY 3 - 16.12.2026

Auditorium	Hall 1
09:00-10:30 **Panel discussion 14**: Resilience to Climate Change, Natural Hazards and Pandemic Risks - Biosafety	
10:30-10:45 Coffee Break	*09:45-10:00 Coffee Break*
10:45-12:15 **Panel discussion 15**: Earthquake protection and structural rehabilitation	**10:00-12:30** **Session 11**: Non-Destructive and Structural Techniques for Diagnosis, Redesign and Health Monitoring in the New Digital Era
12:15-13:45 **Panel discussion 16**: Advanced Non Destructive and Structural Techniques for Diagnosis, Redesign, Health Monitoring and Quality Assessment of Materials and Preservation Interventions	**12:30-14:00** **Session 12**: Reinventing Resilience: Natural Hazards, Earthquake and Structural Rehabilitation
13:45-14:30 Lunch Break	*14:00-14:30 Lunch Break*
14:30-16:00 **Panel discussion 17**: From Digital Twin to Memory Twin: A New Horizon for Cultural Heritage	**14:30-16:00** **Session 12 (continued)**: Reinventing Resilience: Natural Hazards, Earthquake and Structural Rehabilitation
16:00-17:30 **Panel discussion 18**: Sustainable Preservation of Maritime Cultural Heritage	**16:00-18:40** **Session 13**: Memory Twin I: From 3D, HBIM and GIS Documentation to a Holistic Digital Framework
17:30-17:45 Coffee Break	**18:40-19:20** **Session 14**: Maritime Heritage Preservation
17:45-19:15 **Panel discussion 19**: Bridging Heritage Stakeholders, Art, Science, Industry and Society	
19:20 **Closure**	

PROGRAM PART A

14.12.26 | 10:45-12:30 Auditorium

Panel discussion 1: Innovative Transdisciplinary Development and Transfer of Know-How and Multilateral Cooperation Addressing World Challenges for the Rehabilitation of Emblematic Monuments

Moderator, Rapporteur and panellists to be announced

14.12.26 | 12:30-14:15 Auditorium

Panel discussion 2: Religious monuments and the Christian values in dialogue with the Society

Moderator, Rapporteur and panellists to be announced

14.12.26 | 14:45-16:15 Auditorium

Panel discussion 3: Science Communication

Moderator, Rapporteur and panellists to be announced

14.12.26 | 16:15-17:45 Auditorium

Panel discussion 4: Novel Educational approach for the Sustainable Preservation and Revealing of Cultural Heritage

Moderator, Rapporteur and panellists to be announced

14.12.26 | 17:45-19:15 Auditorium

Panel discussion 5: Historical and Archaeological Documentation Endorsing the Values of Monuments' Rehabilitation with Respect

Moderator, Rapporteur and panellists to be announced

14.12.26 | 19:15-20:45 Auditorium

Panel discussion 6: Archaeometry and Archaeogene Testimony of Monument History

Honorary Session in memoriam Nikos Zacharias

Moderator, Rapporteur and panellists to be announced

15.12.26 | 09:00-10:30 Auditorium

Panel discussion 7: Digital Heritage in AI Era: a Holistic Approach

Moderator, Rapporteur and panellists to be announced

15.12.26 | 10:45-12:15 Auditorium

Panel discussion 8: Driving the Digital Transition in Cultural Heritage: The Role of Competence Centers in Advancing European Strategies

Moderator, Rapporteur and panellists to be announced

15.12.26 | 12:15-13:45 Auditorium

Panel discussion 9: Preserving compatibility, the materiality and integrity of structures and architectural authenticity

Moderator, Rapporteur and panellists to be announced

15.12.26 | 14:30-16:00 Auditorium

Panel discussion 10: Historic cities and centers: New Reuse and preservation strategies applying Circular Economy

Moderator, Rapporteur and panellists to be announced

15.12.26 | 16:00-17:30 Auditorium

Panel discussion 11: Culture - Based Climate Action (4COP FOR Conference of Parties of UN action)

Moderator, Rapporteur and panellists to be announced

15.12.26 | 17:30-19:00 Auditorium

Panel discussion 12: The New European Bauhaus creative and interdisciplinary initiative addressing materials and energy challenges

Moderator, Rapporteur and panellists to be announced

15.12.26 | 19:00-20:30 Auditorium

Panel discussion 13: Green and blue deal for Tourism through the sustainable revival Cultural Heritage and Environmental Assets

Moderator, Rapporteur and panellists to be announced

16.12.26 | 09:00-10:30 Auditorium

Panel discussion 14: Resilience to Climate Change, Natural Hazards and Pandemic Risks – Biosafety

Project TRIQUETRA, EU HE research and innovation programme under GA No. 101094818: Toolbox for assessing and mitigating climate change risks and natural hazards threatening Cultural Heritage.

Moderator, Rapporteur and panellists to be announced

16.12.26 | 10:45-12:15 Auditorium

Panel discussion 15: Earthquake protection and structural rehabilitation

Moderator, Rapporteur and panellists to be announced

16.12.26 | 12:15-13:45 Auditorium

Panel discussion 16: Advanced Non Destructive and Structural Techniques for Diagnosis, Redesign, Health Monitoring and Quality Assessment of Materials and Preservation Interventions

Moderator, Rapporteur and panellists to be announced

16.12.26 | 14:30-16:00 Auditorium

Panel discussion 17: From Digital Twin to Memory Twin: A New Horizon for Cultural Heritage

Moderator, Rapporteur and panellists to be announced

16.12.26 | 16:00-17:30 Auditorium

Panel discussion 18: Sustainable Preservation of Maritime Cultural Heritage

Moderator, Rapporteur and panellists to be announced

16.12.26 | 17:45-19:15 Auditorium

Panel discussion 19: Bridging Heritage Stakeholders, Art, Science, Industry and Society

Moderator, Rapporteur and panellists to be announced

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*
185	Digitizing Ukrainian Mosaic Bus Stops of Poltava Region: 3D Documentation and Open-Access Preservation in Wartime	Anna Sinelnik *Independent Researcher, Project Lead, Specialist in Photogrammetry and Cultural Heritage Digitization*
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*

14.12.26 | 12:30-14:00 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 | 14:30-16:15 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*
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*

14.12.26 | 16:15-17:45 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*
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*
124	Measuring radioactivity in Orchomenos archaeological area of interest	Konstantinos Kamoutsis, Stelios Xanthos *Department of Industrial Engineering and Management, International Hellenic University*

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

Id	Title	Authors
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*

14.12.26 | 18:00-19:15 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*
60	China-Greece Belt and Road Joint Laboratory on Cultural Heritage Conservation Technology	Paraskevi Pouli[1], Kostas Hatzigiannakis[1], Demetrios Anglos[2], Costantinos Vasiliadis[3], Amalia Siatou[4], Hanwen Liu[5], Qu Liang[5] [1] *IESL-FORTH* [2] *IESL-FORTH and University of Crete, Department of Chemistry* [3] *The Acropolis Museum* [4] *revive-art.works* [5] *Department of Conservation Standards, The Palace Museum*
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
183	Innovative Practices of the Tanyuan Program in Promoting Digital Preservation and Utilization of Cultural Heritage	Yongqiang Wang, Wei Li, Yaoti Chang *China Cultural Heritage Information and Consulting Center (Data Center of the State Administration of Cultural Heritage)*
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*
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*
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*

15.12.26 | 09:00-10:30 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*

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

Id	Title	Authors
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*

15.12.26 | 10:45-12:15 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*

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

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

15.12.26 | 12:15-14:45 Hall 1

Session 8: 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*
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*

Session 8: The Green and Blue Deal for Cultural and Environmental Tourism Towards Sustainable Local Development and Energy Transition

Id	Title	Authors
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*
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*

Session 8: The Green and Blue Deal for Cultural and Environmental Tourism Towards Sustainable Local Development and Energy Transition

Id	Title	Authors
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*

15.12.26 | 15:15-17:15 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*
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*

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

Id	Title	Authors
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 | 17:15-19:00 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*
74	The historic houses of the Greek War of Independence as components of cultural heritage preservation and levers for local development.	Foteini Mikiki[1], Marios Theleritis[2] [1] *International Hellenic University, Civil Engineering Department* [2] *International Hellenic University, Business Administration Department*
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*
173	The Cisterna delle Vignacce: A Multiscalar Approach to Urban Regeneration and Heritage Conservation via Digital Twin	Veronika Karadzhova *indipenent 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*

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

Id	Title	Authors
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 | 10:00-12:30 Hall 1

Session 11: 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*

Session 11: Non-Destructive and Structural Techniques for Diagnosis, Redesign and Health Monitoring in the New Digital Era

Id	Title	Authors
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*
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*
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*
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*

Session 11: Non-Destructive and Structural Techniques for Diagnosis, Redesign and Health Monitoring in the New Digital Era

Id	Title	Authors
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*

16.12.26 | 12:30-14:00 & 14:30-16:00 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*
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*
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 | 16:00-18:40 Hall 1

Session 13: 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*

Session 13: Memory Twin I: From 3D, HBIM and GIS Documentation to a Holistic Digital Framework

Id	Title	Authors
4	3D Documentation of paintings using Integrated Geodetic and Photogrammetric Techniques	Stefania Ioannidou *School of Rural, Surveying & Geoinformatics Engineering, National Technical University of Athens*
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*

Session 13: Memory Twin I: From 3D, HBIM and GIS Documentation to a Holistic Digital Framework

Id	Title	Authors
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*
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*
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 13: 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 | 18:30-19:20 Hall 1

Session 14: Maritime 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*
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*