



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



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Αντιμετώπισης
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ΠΑΝΕΠΙΣΤΗΜΙΟ
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ΕΘΝΙΚΟ ΚΕΝΤΡΟ
ΚΟΙΝΩΝΙΚΩΝ
ΕΡΕΥΝΩΝ



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 <i>10:30-10:45 Coffee Break</i> 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 <i>14:15-14:45 Lunch Break</i> 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 <i>14:00-14:30 Lunch Break</i> 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 18:00-19:00 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 <i>10:30-10:45 Coffee Break</i> 10:45-12:15 Panel discussion 8: Driving the Digital Transition in Cultural Heritage: The Role of Competence Centers in Advancing European Strategies 12:15-13:45 Panel discussion 9: Preserving compatibility, the materiality and integrity of structures and architectural authenticity <i>13:45-14:30 Lunch Break</i> 14:30-16:00 Panel discussion 10: Historic cities and centers: New Reuse and preservation strategies applying Circular Economy 16:00-17:30 Panel discussion 11: Culture - Based Climate Action (4COP FOR Conference of Parties of UN action) 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	09:00-10:30 Session 6: Memory Twin II: Semantic Platforms, Community Memory and Adaptive Reuse <i>10:30-10:45 Coffee Break</i> 10:45-12:15 Session 7: The Role of Generative AI in Cultural Heritage Documentation, Restoration and Augmented Reality 12:15-14:30 Session 8: The Green and Blue Deal for Cultural and Environmental Tourism Towards Sustainable Local Development and Energy Transition <i>14:30-15:15 Lunch Break</i> 15:15-17:15 Session 9: Preserving Compatibility, the Materiality and Integrity of Structures and Architectural Authenticity 17:15-18:45 Session 10: Historic Cities and Centers: New Reuse and Preservation Strategies Through Circular Economy and Social Cohesion



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 <i>10:30-10:45 Coffee Break</i> 10:45-12:15 Panel discussion 15: Earthquake protection and structural rehabilitation 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 <i>13:45-14:30 Lunch Break</i> 14:30-16:00 Panel discussion 17: From Digital Twin to Memory Twin: A New Horizon for Cultural Heritage 16:00-17:30 Panel discussion 18: Sustainable Preservation of Maritime Cultural Heritage <i>17:30-17:45 Coffee Break</i> 17:45-19:15 Panel discussion 19: Bridging Heritage Stakeholders, Art, Science, Industry and Society 19:15 Closure	<i>09:45-10:00 Coffee Break</i> 10:00-12:30 Session 11: Non-Destructive and Structural Techniques for Diagnosis, Redesign and Health Monitoring in the New Digital Era 12:30-14:00 Session 12: Reinventing Resilience: Natural Hazards, Earthquake and Structural Rehabilitation <i>14:00-14:30 Lunch Break</i> 14:30-16:00 Session 12 (continued): Reinventing Resilience: Natural Hazards, Earthquake and Structural Rehabilitation 16:00-18:30 Session 13: Memory Twin I: From 3D, HBIM and GIS Documentation to a Holistic Digital Framework 18:30-19:15 Session 14: Maritime Heritage Preservation

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 <i>Orthodox Academy of Crete</i>
68	Cultural Values and Practices of Religious Heritage: Results of a Quantitative Survey on Three Iconic Religious Monuments	Hara Stratoudaki, Nikolaos Souliotis, Nikos Klironomos <i>EKKE</i>
115	Destruction, Memory, and Resistance: Documenting Palestinian Cultural Heritage Loss in Gaza	Rula Shahwan <i>Arab american University of Palestine</i>
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 <i>AlQuds Open University</i>
134	The Sacred Orthodox Temple as a Living Community: The Pastoral Role in the Sustainable Preservation of Religious Cultural Heritage	Christoforos Chronis <i>National and Kapodistrian University of Athens</i>
174	Society and Religious Monuments: Perceptions of Responsibility and Identity Frames in the Protection of Cultural Heritage	Vasiliki Georgiadou, Nikolaos Klironomos, Konstantinos Papagiannopoulos <i>National Center for Social Research (EKKE)</i>
180	War-Affected Cultural Heritage in Tigray: Transdisciplinary Documentation, Community Resilience, and Multispectral Approaches for Sustainable Heritage Management in Kolla Temben	Abreha Kiros <i>Aksum university</i>
185	Digitizing Ukrainian Mosaic Bus Stops of Poltava Region: 3D Documentation and Open-Access Preservation in Wartime	Anna Sinelnik <i>Independent Researcher, Project Lead, Specialist in Photogrammetry and Cultural Heritage Digitization</i>
305	When the past is captured and preserved forever through digitization: Digitization of cultural heritage of Famagusta province	Anastasia Fotiou <i>CYPRUS UNIVERSITY OF TECHNOLOGY</i>

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 <i>University of West Attica</i> ² <i>Onassis Library</i>
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 <i>Agile Vendors</i> ² <i>4Causes</i> ³ <i>National Technical University of Athens, School of Rural, Surveying and Geoinformatics Engineering</i> ⁴ <i>National Technical University of Athens, School of Chemical Engineering</i>
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 ³ , Stergios Roumeliotis ² ¹ <i>National Technical University of Athens, School of Chemical Engineering</i> ² <i>National Technical University of Athens</i> ³ <i>National Technical University of Athens, School of Chemical Engineering, Section of Materials Science and Engineering</i>
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 ⁴ , Emmanouil Alexakis ³ , Elisavet Tsilimantou ¹ , Stergios Roumeliotis ³ ¹ <i>National Technical University of Athens, School of Chemical Engineering</i> ² <i>National Technical University of Athens, School of Rural, Surveying and Geoinformatics Engineering</i> ³ <i>National Technical University of Athens</i> ⁴ <i>National Technical University of Athens, School of Chemical Engineering, Section of Materials Science and Engineering</i>

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

Id	Title	Authors
165	The Evlogon information platform: The case study of the Greek contribution in the protection of Hagia Sophia	Antonia Moropoulou¹, Eleni Aggelakopoulou², Ekaterini Delegou², Maria Apostolopoulou², Kyriakos Lampropoulos³ ¹ National Technical University of Athens, School of Chemical Engineering ² National Technical University of Athens ³ National Technical University of Athens, School of Chemical Engineering, Section of Materials Science and Engineering
166	Standardization and Specifications of the Methodology of Diagnostic Studies for the Protection of Monuments and Preservation of the Values	Antonia Moropoulou¹, Amalia Androulidaki², Konstantina Siountri², Andreas Georgopoulos³, Elisavet Tsilimantou⁴, Konstantinos Apostolopoulos⁴, Kyriakos Lampropoulos⁵, Ekaterini Delegou⁴, Eleni Aggelakopoulou⁴, Maria Apostolopoulou⁴, Pagona-Noni Maravelaki⁶, Stergios Roumeliotis⁴, Charalampos Mouzakis⁴, Lucia Karapita⁴, Theodoros Panou⁷ 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 National Technical University of Athens, School of Chemical Engineering, Section of Materials Science and Engineering ⁶ Technical University of Crete ⁷ ELOT
167	Standardization and Specifications for the Quality Control of Works for the Protection of Cultural Heritage Assets	Antonia Moropoulou¹, Eleni Aggelakopoulou², Ekaterini Delegou², Kyriakos Lampropoulos³, Maria Apostolopoulou², Theodoros Panou⁴ ¹ National Technical University of Athens, School of Chemical Engineering ² National Technical University of Athens ³ National Technical University of Athens, School of Chemical Engineering, Section of Materials Science and Engineering ⁴ ELOT

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

Id	Title	Authors
176	Interdisciplinary diagnostic study of the Museum of the Greek-Orthodox Patriarchate of Alexandria, Egypt: Ar-chitectural, geometric and materials documentation.	Ekaterini Delegou ¹ , Stergios Roumeliotis ² , Anastasia Vythoulka ³ , Maria Apostolopoulou ² , Charalampos Mouzakis ² , Andreas Georgopoulos ⁴ , Antonia Moropoulou ⁵ <i>¹ National Technical University of Athens, NTUA</i> <i>² National Technical University of Athens</i> <i>³ School of Architecture, National Technical University of Athens, (NTUA)</i> <i>⁴ National Technical University of Athens, School of Rural, Surveying and Geoinformatics Engineering</i> <i>⁵ National Technical University of Athens, School of Chemical Engineering</i>

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 <i>¹ University of the Aegean</i> <i>² National Technical University of Athens</i>
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-Stylianios Megalooikonomou ² <i>¹ Hellenic Ministry of Education, Religious Affairs and Sports, National Technical University of Athens</i> <i>² National Technical University of Athens</i>
23	Ancient Theatre of Sparti: Archaeological Research, 3D Representation and Cultural Heritage Proposals	Lydia Eles Vlachou ¹ , Vayia Panagiotidis ² <i>¹ University of Peloponnese</i> <i>² University of the Peloponnese</i>
69	Water Cisterns and Water Fountains as a Joint Effort for Life in Jerusalem	Naama Ringel <i>Architect</i>
73	The Eurialo Fortress at Syracuse and Paolo Orsi's excavations: restoring meaning to the ruins	Valentina Macca <i>University of Catania</i>
187	Ancient Theatre of Sparti: Archaeological Research, 3D Reconstruction and Cultural Heritage Proposals	Lydia Eles Vlachou <i>University of Peloponnese</i>

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

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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 <i>¹ Department of Mediterranean Studies, University of the Aegean</i> <i>² National Technical University of Athens</i>
190	Ancient Elis: A Brief Journey into the Past and a Vision for the Future	Christos Papageorgiou <i>Chemical Engineer, DProf, Europeologist, PhD</i>
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 <i>Hellenic Open University</i>

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 Athanasiadou¹, Kostas Hatzigiannakis², Kristalia Melessanaki², Vassilios Panagiotopoulos³, Alexandros Petrou¹, Argyro Tsigkri¹, Demetrios Anglos⁴ ¹<i>Ephorate of Antiquities of the City of Athens (EACA), Makriyianni 2-4, GR-11742</i> ²<i>Institute of Electronic Structure and Laser (IESL), Foundation for Research and Technology-Hellas (FORTH), GR-70013</i> ³<i>Ephorate of Modern Monuments and Technical Works of Attika, Eastern Stereas Elladas and Cyclades GR-10555</i> ⁴<i>IESL-FORTH and Department of Chemistry, University of Crete, GR-70013</i>
62	Multimodal analysis of Inks and Polychromy in a 19th-Century Ecclesiastical Music Manuscript Using the TriENA Hybrid Spectroscopic System	Eirini Ampatzoglou¹, Martha Athanasiadou¹, Kostas Hatzigiannakis², Vassileios Kitkas³, Kristalia Melessanaki², Evangelia Stamouli¹, Argyro Tsigkri¹, Demetrios Anglos⁴ ¹<i>Ephorate of Antiquities of the City of Athens (EACA), Makriyianni 2-4, GR-11742</i> ²<i>Institute of Electronic Structure and Laser (IESL), Foundation for Research and Technology-Hellas (FORTH), GR-70013</i> ³<i>IESL-FORTH, and Department of Physics, University of Crete, GR-70013</i> ⁴<i>IESL-FORTH and Department of Chemistry, University of Crete, GR-70013</i>
111	Illuminating the Invisible: A Multispectral Study of the Zerbitsa Evangelistarium (1067)	Myrto Vlachou <i>University of the Peloponnese</i>
116	On two Cu-based pigment recipes in Dionysius of Fourni "Hermeneia"	Larissa Tivikeli¹, Eleni Rakanta¹, Stamatios Boyatzis², Konstantinos G. Beltsios¹, Georgios P. Mastrotheodoros² ¹<i>School of Chemical Engineering, National Technical University of Athens, Zographou, Greece</i> ²<i>Department of Antiquities & Works of Art Conservation, West Attica University, Egaleo, Greece</i>
124	Measuring radioactivity in Orchomenos archaeological area of interest	Konstantinos Kamoutsis, Stelios Xanthos <i>Department of Industrial Engineering and Management, International Hellenic University</i>

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 Leviant¹, Naama Lena Sharabi², Roi Porat², Uzi Ad³, Peter Gendelman³, Silvia Rozenberg⁴, Yotam Asscher¹ ¹Department of Culture Heritage, School of Archaeology and Maritime Cultures University of Haifa, Israel ²Department of Archaeology, The Hebrew University of Jerusalem, Israel ³Department of Archaeology Research, Israel Antiquities Authority, Jerusalem, Israel ⁴Israel Museum, Jerusalem, Israel
139	GIS-based spatial analysis of resource exchange networks between metals production sites and ancient urban centres in northeastern Greece	Nerantzis Nerantzis¹, Vayia V. Panagiotidis² ¹University of the Peloponnese ²Laboratory 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 | 18:00-19:00 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 Labropoulou¹, Spyridon Siakas² ¹Postdoctoral Researcher UniWA ²UniWA
60	China-Greece Belt and Road Joint Laboratory on Cultural Heritage Conservation Technology	Paraskevi Pouli¹, Kostas Hatzigiannakis¹, Demetrios Anglos², Costantinos Vasiliadis³, Amalia Siatou⁴, Hanwen Liu⁵, Qu Liang⁵ ¹IESL-FORTH ²IESL-FORTH and University of Crete, Department of Chemistry ³The Acropolis Museum ⁴revive-art.works ⁵Department 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 Gaitani¹, George Malaperdas² ¹University of Peloponnese, MSc in Cultural Heritage Management and Technologies ²Department 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 <i>China Cultural Heritage Information and Consulting Center (Data Center of the State Administration of Cultural Heritage)</i>
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 <i>Politecnico di Milano</i> ² <i>Politecnico di Milano, Graduate School of Management</i>

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 <i>Inception srl</i> ² <i>ARIADNE Infrastructure AISBL</i>
6	The Passage of Time – Constructing a Narrative between an Item and the Screen	Inbal Dr. Rivlin, Sorin Dr. Heller, Shunit Marmelstein <i>Hecht Museum, University of Haifa</i>
129	“From Memory to Experience: A Memory Twin Framework for Interpreting the 1947 Akko Prison Break under the British Mandate”	Shelley-Anne Peleg <i>University of Haifa</i>
131	PhilokaliaPlus: Developing a Memory Twin for Theological Heritage through Artificial Intelligence and Google Cloud Platform	Ioannis Panagiotopoulos <i>NKUA</i>
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 <i>Department of Geoscience and Engineering, Delft University of Technology, Stevinweg 1, 2628 CN, Delft, The Netherlands</i> ² <i>CERIS, Instituto Superior Técnico, University of Lisbon, Av. Rovisco Pais 1, 1049-001 Lisboa, Portugal</i>
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 ¹ , Antonia Moropoulou ² ¹ <i>National Technical University of Athens</i> ² <i>National Technical University of Athens, School of Chemical Engineering</i>

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

Id	Title	Authors
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 ¹ , Antonia Moropoulou ³ <i>¹ National Technical University of Athens</i> <i>² University of Piraeus</i> <i>³ National Technical University of Athens, School of Chemical Engineering</i>
186	Memory Twin for Igoumenitsa: coastal heritage change and urban rehabilitation	Christina Gogolou <i>University of Ioannina</i>
301	From Local Memory to Digital Cultural Heritage: Documenting and Preserving the History of Chandria Village, Cyprus	Evanthia Itsa <i>Cyprus University of Technology</i>

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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 <i>National Technical University of Athens</i>
22	Smart Cultural Heritage: Design and Development of an AI-Powered Mobile Application for Personalized Museum Exploration	Dimitrios Gousopoulos, George Petrakos <i>Panteion University, Greece</i>
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 <i>¹ International Hellenic University, School of Design, Department of Interior Architecture</i> <i>² International Hellenic University, School of Design, Department of Creative Design and Clothing</i> <i>³ International Hellenic University, School of Engineering, Department of Production Engineering and Management</i>
145	Will AI and GenAI benefit creativity and culture?	Alfredo Ronchi <i>Engineering Faculty Politecnico di Milano Milano, Italy</i>
182	Extended Reality Research for Cultural Heritage in Europe: Insights from a Bibliometric Analysis	Junwen Lu, Guillermo García-Badell, Joan B. Rodriguez <i>Universidad Politécnica de Madrid</i>

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

Id	Title	Authors
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 <i>¹IACM FORTH</i> <i>²Institute of Applied and Computational Mathematics, Foundation for Research and Technology - Hellas</i>
300	The Influence of Training and Agentic Architecture on AI-Assisted Diagnosis of Stone Deterioration Patterns	José Delgado Rodrigues ¹ , Daniele Corradetti ² <i>¹Consultant</i> <i>²Instituto Superior Técnico, University of Lisbon, Portugal</i>
302	From Visitor Data to Personas: Towards Personalized Digital Mediation in Archaeological Heritage Sites	Elissavet Kosta, Markos Konstantakis, Konstantinos Michalakis, George Caridakis <i>University of the Aegean</i>
322	Immersive Legends of Lake Pamvotis: Virtual Reality for the Interpretation of Intangible Cultural Heritage	Aikaterini Papachristopoulou, Anastasia Varoucha, Vasiliki Stamati, Ioannis Fudos

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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 <i>¹Department of Architecture, University of Naples Federico II, Naples</i> <i>²Department of Civil Engineering and Architecture, University of Catania, Siracusa</i>
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 <i>¹Hellenic Ministry of Education, Religious Affairs and Sports, National Technical University of Athens</i> <i>²National Technical University of Athens</i>
21	Adaptive Reuse of Cultural Heritage Buildings: Integrating Energy Performance and Bioclimatic Design for Sustainable Transformation-A Literature Review	Lamprini Kitsouli <i>Architect, MSc University of Edinburgh, Phd University of Ioannina</i>
24	Renewable Energy transition in Mediterranean Historic Urban Landscapes: a Renovation Action Plan for coastal cities	Francesca Ciampa, Giuseppe Cataldi, Maria Rita Pinto <i>Department of Architecture, University of Naples Federico II</i>

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Id	Title	Authors
118	Managing Waste in the Hospitality Sector: A Sustainability Perspective	Stavroula Athanasakopoulou ¹ , Theodora V. Nikou ¹ , Sofia Panousi ² , George Petrakos ¹ , George Soklis ¹ , Iakovos Stoubos ² <i>¹ 1. Panteion University, Athens, Greece, 2. Research Institute for Tourism, Athens, Greece</i> <i>² Research Institute for Tourism, Athens, Greece</i>
127	The Economic Viability of Digital Marketing in Sustaining Cultural Heritage Sites: A Strategic Framework for Palestinian Landmarks	Nisreen Hamdan <i>al quds open university</i>
142	The potential of agritourism to support climate resilience in rural Albania	Anila Sulaj <i>Agriculture University of Tirana</i>
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 ³ , Anastasios Doulamis ⁴ , Emanouil Ellinas ⁵ , Anastasia Vythoulka ⁶ , Stergios Roumeliotis ³ <i>¹ National Technical University of Athens, School of Chemical Engineering</i> <i>² Naval Engineer, President of Panhellenic Association of Traditional Shipyards, Energy Project</i> <i>³ School of Chemical Engineering, NTUA</i> <i>⁴ School of Rural, Surveying and Geoinformatics Engineering, NTUA</i> <i>⁵ Energy Project</i> <i>⁶ School of Architecture, NTUA</i>
169	Transdisciplinary Energy Transition Planning for Small Island Systems: The Case of Kasos	Emmanouil Ellinas ¹ , Vasilios Vasiliadis ² , Antonia Moropoulou ³ <i>¹ National Technical University of Athens</i> <i>² Energy Project</i> <i>³ National Technical University of Athens, School of Chemical Engineering</i>
175	Strategic Prioritization of Sustainable Resource Management Measures in Decentralized Communities: The Case of Kasos under the GRECO Islands Initiative	Ilias Chatzimpalis, Simos Malamis <i>Sanitary Engineering Laboratory, School of Civil Engineering, National Technical University of Athens</i>
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 <i>ICOMOS</i>
303	REVEILING THE INDUSTRIAL AND PREINDUSTRIAL HERITAGE OF THE ISLAND OF SYMI	Anastasia Papaioannou <i>ARCHITECT</i>

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

Id	Title	Authors
318	Uneven Development in Mountainous Greece: Cultural Heritage in a Place-Based Perspective	Dimitra Fofri <i>Laboratory Teaching Staff (EDIP)</i>

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

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

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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 Tsanaksidou <i>Municipality of Kozani</i>
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 <i>International Hellenic University, Civil Engineering Department</i> ² <i>International Hellenic University, Business Administration Department</i>
143	Historic Urban Landscapes and Geoinformatics Methods and Technologies: A Bibliometric Perspective	Evangelos Brachos ¹ , Dimitris Psychogios ² , Nikolaos Patsavos ¹ ¹ <i>Department of Architecture University of Ioannina</i> ² <i>Department of Architecture University of Thessaly</i>
173	The Cisterna delle Vignacce: A Multiscalar Approach to Urban Regeneration and Heritage Conservation via Digital Twin	Veronika Karadzhova <i>indipenent researcher</i>
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 <i>SAAD DAHLEB BLIDA 1</i>
196	revised Fifteen minutes “Architecture” The continuous reuse of Papazogleios Weaving School in Ioannina	Angelos Papageorgiou ¹ , Georgios Smyris ¹ , Anastasios Mpalaskas ² ¹ <i>University of Ioannina, Department of Architecture</i> ² <i>Democritus University of Thrace, Department of Civil Engineering</i>
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 <i>TOBB University of Economics and Technology</i>
306	Temporary Reuse as Ecological Transition Strategy for the Conservation of Abandoned Built Cultural Heritage	Mehrnaz Rajabi ¹ , Arian Heidari Afshari ² ¹ <i>Politecnico di Milano</i> ² <i>DASTU, Politecnico di Milano</i>
321	From Preservation to Transformation: Mapping the Capacity for Adaptive Reuse and Sustainable Change in the Historic Centre of Rethymno	Despina Dimelli <i>School of Architecture Technical University of Crete</i>

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 Ding¹, Ahmad Osman², Stefano Sfarra³, Hai Zhang¹, Minghao Zhu⁴, Elena Marini³ ¹Centre for Composite Materials and Structures (CCMS), Harbin Institute of Technology, Harbin 150001, China. ²Hochschule für Technik und Wirtschaft des Saarlandes - University of Applied Sciences ³Department Industrial and Information Engineering and Economics, University of L'Aquila, I-67100 L'Aquila, Italy ⁴National 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 Zhang¹, Hai Zhang¹, Ahmad Osman², Minghao Zhu³, Stefano Sfarra⁴, Elena Marini⁴ ¹Centre for Composite Materials and Structures (CCMS), Harbin Institute of Technology, Harbin 150001, China. ²Hochschule für Technik und Wirtschaft des Saarlandes (htw saar), Saarbrücken, Germany ³National Key Laboratory of Laser Spatial Information, Harbin Institute of Technology, Harbin, 150001, China ⁴Department 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 Assessment 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 Pouli¹, Georgios D. Barmparis¹, George J. Tserevelakis² ¹IESL-FORTH ²IESL-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 Vasileiadis¹, Charalambos Mouzakis² ¹EYLOGON - TEE ²NTUA - EYLOGON - TEE

Session 11: 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 <i>University of Ioannina</i>
168	Challenges and Future Trends for the Design and Assessment of Conservation and Restoration Materials for Cultural Heritage Protection	Antonia Moropoulou ¹ , Maria Apostolopoulou ² , Ekaterini Delegou ² , Eleni Aggelakopoulou ² , Pagona-Noni Maravelaki ³ , Kyriakos Lampropoulos ⁴ <i>¹ National Technical University of Athens, School of Chemical Engineering</i> <i>² National Technical University of Athens</i> <i>³ Technical University of Crete</i> <i>⁴ National Technical University of Athens, School of Chemical Engineering, Section of Materials Science and Engineering</i>
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 <i>¹ University of the Aegean, School of Engineering, Department of Financial Engineering, Chios</i> <i>² ADVISE DETA S.A.</i> <i>³ Democritus University, School of Science, Dept of Chemistry, Kavala</i> <i>⁴ National Technical University of Athens, School of Applied Mathematical and Physical Sciences</i> <i>⁵ University of the Aegean</i>
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 <i>¹ Department of Earth Sciences, Sapienza University of Rome</i> <i>² Department of Information Engineering, Electronics and Telecommunications, Sapienza University of Rome</i> <i>³ Department of Environmental Biology, Sapienza University of Rome</i>

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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 <i>Dr. Architect Engineer TUDelft-NTUA</i>
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 <i>¹ Università di Catania</i> <i>² Ministero della Cultura</i>

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

Id	Title	Authors
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 <i>¹Dipartimento di Ingegneria Civile e Architettura, Università di Catania</i> <i>²Istituto di Geologia Ambientale e Geoingegneria – Consiglio Nazionale delle Ricerche, Montelibretti (RM)</i>
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 <i>¹University of West Attica, ARTICON Laboratory, Faculty of Applied Arts and Culture</i> <i>²University of West Attica, Department of Mechanical Engineers</i> <i>³University of West Attica, Department of Conservation of Antiquities and Artworks</i> <i>⁴University of West Attica, Department of Graphic Design</i> <i>⁵University of West Attica, ARTICON Laboratory, Faculty of Applied Arts and Culture, University of West Attica</i>
103	Morphology-Based Assessment of Energy Performance and Seismic Vulnerability in Historic Urban Heritage: The Case of Xanthi Old Town, Greece	Dimitra Tsigigoti, Stylianos Pardalopoulos <i>Democritus University of Thrace</i>
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 <i>¹Frederick Univeristy</i> <i>²director of P. Stylianou Civil Engineers</i>
137	Dynamic behavior of colonnades with doweled multi-drum columns under varying architrave heights	Olympia Panagouli <i>University of Thessaly</i>
141	From Investigation to Intervention: Strategies for Diffuse Architectural Heritage in Seismic Areas	Antonella Saisi <i>Politecnico di Milano</i>
161	Key challenges for structural assessment of Unreinforced Masonry historic structures	Harris Mouzakis, Lucia Karapitta, Maria Apostolopoulou <i>National Technical University of Athens</i>
162	Ground motion selection for structural assessment of Unreinforced Masonry historic structures	Harris Mouzakis, Lucia Karapitta <i>National Technical University of Athens</i>
178	Seismic performance assessment and strengthening evaluation for earthquake-damaged masonry churches	Georgios Stavroulakis, Maria Stavroulaki, Barbara Charalambidi, Maria-Styliani Daraki, Nikos Kaminakis <i>Technical University of Crete</i>
189	Dynamic behavior of colonnades with dowelled multi-drum columns under varying architrave heights	Olympia Panagouli <i>University of Thessaly</i>

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

Id	Title	Authors
240	Architectural and Cultural Heritage in Seismic Areas in Italy: Balancing Safety, Conservation and Uncertainty	Marco Corradi ¹ , Antonio Borri ² ¹ <i>Huddersfield University</i> ² <i>Department of Engineering, University of Perugia, Perugia, Italy</i>
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 <i>UNIFE</i> ² <i>Regione Emilia Romagna</i>

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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 Psychogios, Sofia Margoni, Eirini Tsiakou <i>Department of Architecture University of Thessaly</i>
4	3D Documentation of paintings using Integrated Geodetic and Photogrammetric Techniques	Stefania Ioannidou <i>School of Rural, Surveying & Geoinformatics Engineering, National Technical University of Athens</i>
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 <i>School of Rural, Surveying & Geoinformatics Engineering, National Technical University of Athens</i> ² <i>School of Architecture, National Technical University of Athens</i> ³ <i>School of Chemical Engineering, National Technical University of Athens</i>
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 <i>University of West Attica</i> ² <i>Hellenic Ministry of Culture</i> ³ <i>Surveying & Geoinformatics Engineer</i>
72	PRESERVING DETAILS OF THE HOROLOGION OF ANDRONIKOS KYRRHISTOS THROUGH DIGITIZATION	Styliani Papatzani ¹ , Athanasios Iliodromitis ¹ , Konstantinos Dimitroulias ² , Nikolaos Tsoniotis ³ ¹ <i>University of West Attica</i> ² <i>Hellenic Ministry of Culture</i> ³ <i>Ephorate of the Antiquities of Athens</i>
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 <i>University of the Aegean, Dept. of Mediterranean Studies</i> ² <i>Laboratory of Photogrammetry, NTUA</i>

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

Id	Title	Authors
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 <i>¹ National Technical University of Athens</i> <i>² ASPROFOS SA</i>
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 <i>¹ Department of Architecture University of Thessaly</i> <i>² Department of Architecture University of Ioannina</i> <i>³ Department of Architecture and Urban Design, University of Carthage</i>
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 <i>¹ Laboratoty of Geodesy, Surveying & GNSS, Department of Surveying & Geoinformatics Engineering, University of West Attica</i> <i>² Museology Research Laboratory, Department of Archives, Library Science and Museology, Ionian University</i>
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 <i>¹ Lab of Photogrammetry, School of Rural, Surveying and Geoinformatics Engineering, NTUA</i> <i>² National Technical University of Athens, School of Chemical Engineering</i> <i>³ School of Rural, Surveying and Geoinformatics Engineering</i>
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 <i>School of Applied arts and Sustainable Design, Hellenic Open University, Parodos Aristotelous 18, 26335 Patras, Greece</i>
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 <i>¹ University of West Attica, Department of Surveying and Geoinformatics Engineering, Athens, Greece</i> <i>² University of Ioannina, Department of Materials Science and Engineering</i>
198	Investigation of Methods for Three–Dimensional Documentation and Modeling of Monuments: Case Study of Alatza Imaret, Thessaloniki	Athanasios Mamoutopoulos, Elisavet Tsilimantou <i>SCHOOL OF APPLIED ARTS AND SUSTAINABLE DESIGN</i>

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

Id	Title	Authors
244	Gaussian Splatting in Cultural Heritage Documentation: Risks, Challenges and Implications for the Authenticity of the Past	Anthony Cassar ¹ , Marinos Ioannides ² <i>¹ Technology and Experience Development Unit, Heritage Malta</i> <i>² UNESCO Chair on Digital Cultural Heritage, Digital Heritage Research Lab, Cyprus University of Technology</i>

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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 <i>¹ Associate Professor, School of Engineering, Department of Naval Architecture, University of West Attica</i> <i>² School of Engineering, Department of Naval Architecture, University of West Attica</i>
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 <i>¹ School of Engineering, Department of Naval Architecture, University of West Attica</i> <i>² Assistant Professor, School of Engineering, Department of Naval Architecture, University of West Attica</i>
320	Sustainable preservation of the Greek shipbuilding heritage	Gregory Grigoropoulos <i>National Technical University of Athens NTUA</i>