



**1st International Conference TMM\_CH**  
**Transdisciplinary Multispectral Modelling and Cooperation for the**  
**Preservation of Cultural Heritage**  
**10-13 October, 2018 Eugenides Foundation Athens, Greece**

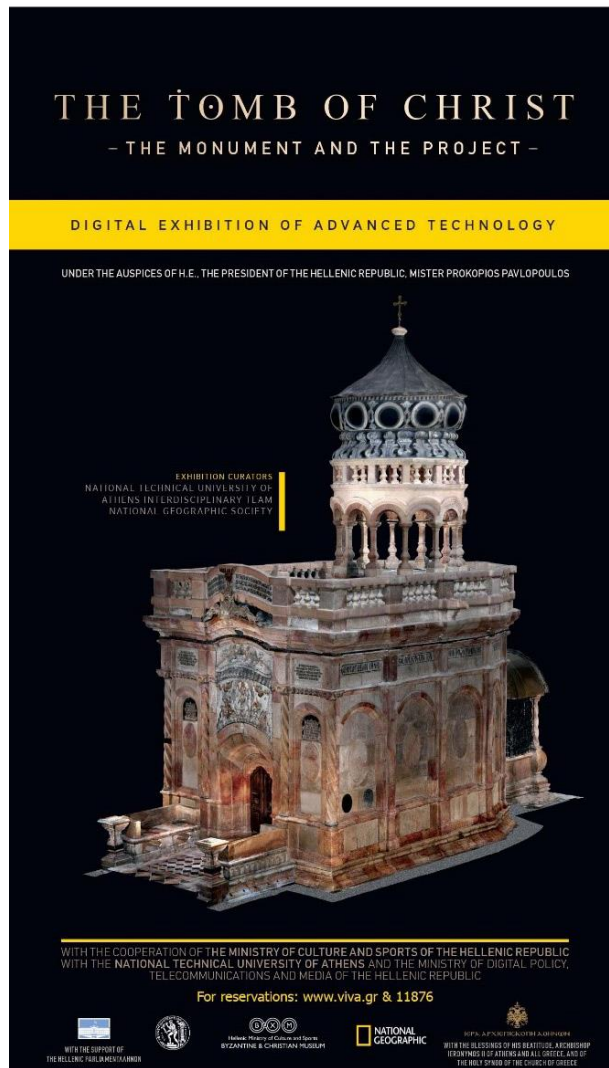
**GENERAL PROGRAM**

**10.10.2018**

**Byzantine & Christian Museum of Athens**

**10.10.18 | 17:00-20:00**

- **Visit to the Digital Exhibition of Advanced Technology «The Tomb of Christ: The monument and the project»**



- **Welcome Reception**

11.10.2018

Auditorium	Hall 1
<b>8:00-9:00 Registrations</b>	
<b>9:00-10:30 Opening Session</b>	
<b>10:30-10:45 Coffee Break</b>	
<p><b>10:45-12:30</b></p> <p><b>Session I.1: The Project of the Rehabilitation of Holy Sepulchre's Holy Aedicule as a pilot multispectral, multidimensional, novel approach through Transdisciplinarity and Cooperation in the Protection of Monuments</b></p> <p><b>12:30-14:00</b></p> <p><b>Panel discussion I.1</b></p>	
<b>14:00-15:00 Lunch Break</b>	
<p><b>15:00-17:30</b></p> <p><b>Session I.2: Digital Heritage</b></p>	<p><b>15:00-16:30</b></p> <p><b>Session II.1: Resilience to Climate Change and Natural Hazards</b></p>
<p><b>17:30-19:30</b></p> <p><b>Session I.3: Novel Educational Approach for the Preservation of Monuments</b></p> <p><b>19:30-21:00</b></p> <p><b>Panel discussion I.3</b></p>	<p><b>16:30-18:15</b></p> <p><b>Session II.2: Conserving sustainably the Materiality of Structures and Architectural Authenticity</b></p> <hr/> <p><b>18:15-20:45</b></p> <p><b>Session II.3: Interdisciplinary Preservation and Management of Cultural Heritage</b></p>

During the conference, Hall 2 will be at the disposal of the panelists and the session chairs, for preparatory meetings

12.10.2018

Auditorium	Hall 1
<p><b>9:00-12:00</b></p> <p><b>Session I.4: Sustainable Preservation and Management Lessons on Emblematic Monuments</b></p> <p><b>12:00-13:30</b></p> <p><b>Panel discussion I.4: Bringing together Heritage Stakeholders, Science and Industry</b></p>	
<b>13:30-14:30 Lunch Break</b>	
<p><b>14:30-17:30</b></p> <p><b>14:30-16:45 Session I.5: Cross-discipline Earthquake Protection and Structural Assessment of Monuments</b></p> <p><b>16:45-17:30 Session I.6: Cultural Heritage and Pilgrimage Tourism</b></p>	<p><b>14:30-16:00</b></p> <p><b>Session II.4: Inception – Inclusive Cultural Heritage in Europe through 3D Semantic Modelling</b></p> <hr/> <p><b>16:00-17:15</b></p> <p><b>Session II.5: Heritage at Risk</b></p>
<p><b>17:30-19:15</b></p> <p><b>Session I.7: Reuse, Circular Economy and Social Participation as a leverage for the Sustainable Preservation and Management of Historic Cities</b></p> <p><b>19:15-20:45</b></p> <p><b>Panel discussion I.7</b></p>	<p><b>17:15-20:00</b></p> <p><b>Session II.6: Advanced and non Destructive Techniques for Diagnosis, Design and Monitoring</b></p>
<p><b>20:45-21:00 Closure</b></p>	

During the conference, Hall 2 will be at the disposal of the panelists and the session chairs, for preparatory meetings



**1st International Conference TMM\_CH**  
**Transdisciplinary Multispectral Modelling and Cooperation for the**  
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**10-13 October, 2018 Eugenides Foundation Athens, Greece**

**DETAILED PROGRAM**

**11.10.2018**

**11.10.18 | 09:00-10:30 Auditorium**

<b>Opening Session</b>	
<b>Address</b>	
NTUA Rector <b>Prof. Ioannis Golias</b>	World Monuments Fund <b>Yiannis Avramides</b>
TCG (Technical Chamber of Greece) President <b>Mr. Giorgos Stasinou</b>	European Commission D.G. Connect <b>Dr. Albert Gauthier</b>
National Geographic Society <b>Dr. Fredrik Hierbert</b> , Archaeologist	ICOMOS <b>Dr. Elena Korka</b> , Member of the Board
Address of the President of the Hellenic Parliament <b>Mr. Nikos Voutsis</b> by the President of the Standing Committee of the Cultural and Educational Affairs of the Hellenic Parliament NTUA <b>Prof. Dimitris Sevastakis</b>	
Deputy Minister of Foreign Affairs of the Hellenic Republic <b>Mr. Markos Bolaris</b>	
Presence of the Deputy Minister of Culture and Sports of the Hellenic Republic <b>Mr. Costas Stratis</b>	
<b>Opening Lecture</b>	
The Project of the Rehabilitation of Holy Sepulchre's Holy Aedicule as a pilot multispectral, multidimensional, novel approach through Transdisciplinarity and Cooperation in the Protection of Monuments <b>Prof. Antonia Moropoulou</b> , NTUA, Chief Scientific Supervisor of the Project, President of the TCG General Assembly	
<b>Opening of the Conference</b>	
Minister of Digital Policy, Telecommunications and Media of the Hellenic Republic <b>Mr. Nikos Pappas</b>	
<b>Benediction</b>	
His Beatitude <b>Archbishop Hieronymus II</b> of Athens and All Greece	
Representatives of the <b>three Christian Communities, Guardians of the Holy Tomb</b>	

**11.10.18 | 10:45-12:30 Auditorium**

<b>Session I.1 The Project of the Rehabilitation of Holy Sepulchre's Holy Aedicule as a pilot multispectral, multidimensional, novel approach through Transdisciplinarity and Cooperation in the Protection of Monuments</b>		
<b>Id</b>	<b>Title</b>	<b>Authors</b>
8	The Holy Sepulchre as a religious building	<b>Stefanos Athanasiou</b> Univ. of Bern / Faculty of Theology
52	A transdisciplinary approach to reveal the structural evolution of the Holy Aedicule in the Church of the Holy Sepulchre	<b>Kyriakos Lampropoulos</b> , Aikaterini Kolaiti, Manolis Korres, Antonia Moropoulou NTUA
174	Preliminary Assessment of the Structural Response of the Holy Tomb of Christ under Static and Seismic Loading	<b>Charilaos A. Maniatakis</b> , Constantine Spyarakos, Antonia Moropoulou NTUA
42	Corrosion Protection study of metallic structural elements for the Holy Aedicule in Jerusalem	<b>Eleni Ntaflou</b> , Eleni Rakanta, Angeliki Zacharopoulou, George Batis, Antonia Moropoulou NTUA
55	Holy Sepulchre Monitoring System	<b>Maria Karoglou, Charalambos Mouzakis, George Pantazis</b> , Simos Asimakopoulos, Evangelia Lambrou, Antonia Moropoulou NTUA
64	Innovative Methodology for Personalized 3D Representation and Big Data Management in Cultural Heritage	<b>Emmanouil Alexakis</b> , Evgenia Kapassa, Marios Touboupou, Dimosthenis Kyriazis, Andreas Georgopoulos, Antonia Moropoulou NTUA
169	Governance and Management of the Holy Edicule Rehabilitation Project	<b>Nikolaos Moropoulos</b> , Antonia Moropoulou NTUA

**11.10.18 | 12:30-14:00 Auditorium**

<b>Panel discussion I.1 The Project of the Rehabilitation of Holy Sepulchre's Holy Aedicule as a pilot multispectral, multidimensional, novel approach through Transdisciplinarity and Cooperation in the Protection of Monuments</b>
<b>The NTUA Interdisciplinary Team</b>
<b>Prof. Antonia Moropoulou</b> , NTUA School of Chemical Engineering
<b>Prof. Manolis Korres</b> , Emeritus, Academy of Athens
<b>Prof. Andreas Georgopoulos</b> , School of Rural & Surveying Engineering
<b>Prof. Constantine Spyarakos</b> , NTUA School of Civil Engineering
<b>Charis Mouzakis Assistant Professor</b> , NTUA School of Civil Engineering Members
<b>National Geographic Society</b>
<b>Fredrik Hiebert</b> , Archaeologist
<b>World Monuments Fund</b>
<b>Yiannis Avramides</b> , Civil Engineer
<b>European Commission D.G. Connect</b>
<b>Albert Gauthier</b>
<b>Invited</b>
Representatives of the three Christian Communities, Guardians of the Holy Tomb

Session I.2 Digital Heritage		
<b>Id</b>	<b>Title</b>	<b>Authors</b>
19	Branding Strategies for Cultural Landscape promotion: Organizing real and virtual place networks	<b>Konstantinos Moraitis</b> NTUA
70	3D Survey of a neoclassical building using a handheld laser scanner a basic for the development of a bim - ready model	<b>Antonios Antonopoulos</b> , Katerina Kalentzi AI3D, LANDMARK
7	Virtual reconstruction of an archaic column using Immersive Reality	<b>Panagiotis Parthenios</b> , Theano Androulaki Tech. Univ. of Crete
154	Reconstruction and Visualization of Cultural Heritage Artwork Objects	<b>Anastasia Moutafidou</b> , George Adamopoulos, Anastasios Drosou, Dimitrios Tzovaras, Ioannis Fudos Univ. of Ioannina, CERTH
16	Vandalised frescoes' virtual retouching	<b>Melina Aikaterini Vlachou</b> , Dimitrios Makris, Leonidas Karampinis Univ. of West Attica
54	Travelling Exhibition: Idea - Ancient greek science and technology	<b>Panagiotis Ioannidis</b> , Angeliki Malakasioti, Maria Mavrokostidou Tetragon S.A.
178	Cross-sector Collaboration for Organisational Transformation: The Case of the National Library of Greece Transition Programme to the Stavros Niarchos Foundation Cultural Center 2015-2018	<b>Julia Elmaloglou</b> , Georgia Angelaki, Stephania Xydia Managerial Team NLG Transition Programme
27	Vols in the Middle Ages: A proposal for the rescue of a cultural heritage	<b>Konstantia Triantafyllopoulou</b> Univ. of Thessaly
175	Information Technology, Smart devices and Augmented Reality Applications for Cultural Heritage Enhancement: The Kalamata 1821 Project	<b>Vayia Panagiotidis</b> , George Malaperdas, Eleni Palamara, Vassiliki Valantou, Nikolaos Zacharias Univ. of the Peloponnese
28	DiscoVRCoolTour: Discovering capturing and experiencing cultural heritage and events using innovative 3D digitisation technologies and affordable consumer electronics	<b>Constantin Makropoulos</b> , Dimitra Pappa, Vassilis Pitsilis, Alexander Karapidis, Stephan Wilhelm, René Hellmuth, Florian Florian Wehner NCSR Demokritos, Fraunhofer, Univ. of Stuttgart, Univ. of Schmalkalden
26	The digitization of the tangible cultural heritage and the related policy framework	<b>Konstantina Siountri</b> , Evangelia Vagena, Dimitrios D. Vergados, Joseph Stefanou, Christos-Nikolaos Anagnostopoulos Univ. of the Aegean, Univ. of Piraeus, NTUA

**11.10.18 | 17:30-19:30 Auditorium**

<b>Session I.3 Novel Educational Approach for the Preservation of Monuments</b>		
<b>Id</b>	<b>Title</b>	<b>Authors</b>
20	Authentic learning to better prepare for preservation work	<b>Pieter de Vries</b> , Antonia Moropolou Delft Univ. of Technology, NTUA / European Society for Engineering Education SEFI
62	20 years N.T.U.A. Interdisciplinary Postgraduate Program «Protection of Monuments»	<b>Irene Efessiou</b> , Antonia Moropoulou, Eleni Maistrou, Antonia Lampropoulou, Maria Balodimou NTUA
80	Education and training for the preservation of cultural heritage, as a strategic aim of the Department of Architecture, Frederick University Cyprus	<b>Marios Pelekanos</b> , Byron Ioannou Frederick Univ. Cyprus
151	Cultural Heritage and Education/Training/Occupational Activity	<b>Stamatia Gkavela</b> , Anastasia Sotiropoulou ASPETE
60	The historic centre of Vimercate: investigation, education, community involvement	<b>Stefano Della Torre</b> , Rossella Moiola, Lorenzo Cantini Politecnico di Milano
45	Connections with the cultural heritage in formal and informal education: The case of an interactive game of School Life Museum of Chania	<b>Maria Drakaki</b> Friends association of school life museum
182	A Knowledge Json-based Database for Integrating Multiple Disciplines in Cultural Heritage	<b>Anastasios Doulamis</b> , Christodoulos Fragkoudakis, Konstantinos Makantasis, Eftychios Protopapadakis, Anastasia Kioussi, Aikaterini Delegkou, Emmanouel Alexakis, Antonia Moropoulou NTUA
33	From Discovery to Exhibition - Recomposing History	<b>Maria Xipnitou</b> , Sofia Soile, Michail Skourtis, Alcestis Papadimitriou, Ioannis Tziranis, Athanasios Voulodimos, Georgios Miaoulis, Charalabos Ioannidis NTUA

**11.10.18 | 19:30-21:00 Auditorium**

<b>Panel discussion I.3 Novel Educational Approach for the Preservation of Monuments</b>
<b>Prof. Pieter De Vries</b> , Delft, European Society for Engineering Education (SEFI)
<b>Prof. Irene Efessiou</b> , NTUA, Post-Graduate MSc Program "Protection of Monuments"
<b>Prof. Maria Arkadaki</b> , AUTH, Protection, Conservation and Restoration of Cultural Monuments Interdepartmental Program of Post Graduate Studies
<b>Prof. Antonia Moropoulou</b> , NTUA, Post-Graduate MSc Program "Protection of Monuments", President of the TCG General Assembly
<b>Prof. Nikos Zacharias</b> , University of Peloponnese, Department of History, Archaeology and Cultural Resources Management, President
<b>Prof. Eleni Maistrou</b> , President of the Council of Architectural Heritage of the Society for the Environmental and Cultural Heritage (ELLINIKI ETAIRIA -ELLET)
<b>Prof. Sotiropoulou Anastasia</b> , ASPETE, Department of Civil Engineering Educators
<b>Prof. Marios Pelekanos</b> , Frederick University of Cyprus
<b>Marcie Goodale</b> , National Geographic Learning, Product Director
<b>J.J.Kelley</b> , Emmy-nominated Film Maker of National Geographic

**11.10.18 | 15:00-16:30 Hall 1**

Session II.1 Resilience to Climate Change and Natural Hazards		
<b>Id</b>	<b>Title</b>	<b>Authors</b>
138	Climate information for the Preservation of Cultural Heritage : needs and challenges	<b>Lola Kotova</b> , Johanna Leissner, Uwe Mikolajewicz, Daniela Jacob GERICS, Fraunhofer, Max Planck Institute for Meteorology
137	Heritage Resilience Against Climate Events on Site - HERACLES Project: Mission and Vision	<b>Guseppina Padeletti</b> CNR
183	Resilient Eco-smart Strategies & Innovative Technologies to Protect Cultural heritage	<b>Anastasios Doulamis</b> , Kyriakos Lampropoulos, Dimosthenis Kyriazis, Antonia Moropoulou NTUA
31	Interventions on coastal monuments against climatic change	<b>George Alexandrakis</b> , Georgios V. Kozyrakis, Nikolaos Kampanis FORTH Coastal Research Lab
157	Increasing Cultural Heritage Resilience using a Learning Strategy	<b>Elena Sesana</b> , Chiara Bertolin, Arian Loli, Alexandre Gagnon, John Hughes, Johanna Leissner Univ. of the West of Scotland, NTNU, Fraunhofer
32	Natural hazards socio-economic impact on cultural heritage sites	<b>George Alexandrakis</b> , Constantine Manasakis, Nikolaos Kampanis Univ. of Crete, FORTH Coastal Research Lab

**11.10.18 | 16:30-18:15 Hall 1**

Session II.2 Conserving sustainably the Materiality of Structures and Architectural Authenticity		
<b>Id</b>	<b>Title</b>	<b>Authors</b>
30	Taxonomy of Architectural Styles and Movements worldwide since 8500 BC	<b>Christos Floros</b> Architect
150	Monastery of Kimisis Theotokou, Valtessiniko, Arcadia, Greece - Restoration of the Temple and integration of new structures	<b>Julia Vobiri</b> NTUA MSc Program "Protection of Monuments"
78	Study on the translucent sky-green ware of the Five dynasty Yaozhou kiln	<b>Jianfeng Zhu</b> , Fen Wang Shaanxi Univ. of Science and Technology
57	Deterioration of Monument Building Materials: Mechanistic Models as Guides for Conservation Strategies	<b>Petros Koutsoukos</b> , Aikaterini Vavouraki, Dimitra Kanellopoulou University of Patras, FORTH- ICEHT
58	Investigation of Microstructural Changes in Maastricht Limestone after Consolidation Treatment with Nanolime Suspension	<b>Radek Sevcik</b> , Alberto Viani, Lucia Mancini, Marie-Sousai Appavou, Dita Machova Czech Academy of Sciences, Forschungszentrum Jülich, Elettra-Sincrotrone Trieste S.C.P.A.
13	Synthesis and properties of composite coatings for the protection of calcite marble against weathering using fumed silica nanoparticles	<b>Panagiotis Spathis</b> , Konstantinos Triantafyllidis, Chara Prohaska, Ioannis Karapanagiotis, Maria Stefanidou Aristotle Univ. of Thessaloniki
158	The unbuilt monument and the perpetual quest of centrality	<b>Angelos Papageorgiou</b> Univ. of Ioannina



Session II.3 Interdisciplinary Preservation and Management of Cultural Heritage		
<b>Id</b>	<b>Title</b>	<b>Authors</b>
24	Technological Innovations in <b>Architecture during Antiquity</b> . The case of <b>Cyprus</b>	<b>Maria Philokyprou</b> Univ. of Cyprus
39	LS survey and FE modelling of the Vasari's Cupola of the Basilica dell'Umiltà (Italy). An interdisciplinary approach for preservation of CH.	<b>Grazia Tucci</b> , Gianni Bartoli, Michele Betti Univ. of Florence
119	Structural engineers vs. Conservators, Safety vs. Preservation: problems, doubts and proposals	<b>Antonio Borri</b> , Marco Corradi Univ. of Perugia
149	Interdisciplinary approaches in cultural heritage documentation: the case of Rodakis house in Aegina	<b>Zoe Georgiadou</b> , Panagiotis Ilias, Athina - Georgia Alexopoulou Univ. of West Attica
172	Documentation of the Historical Building Materials and Decay Patterns of the Kaisariani Monastery	<b>Georgia Mourgí</b> , Elisavet Tsilimantou, Ekaterini T Delegou, Charalambos Ioannidis, Antonia Moropoulou NTUA
164	Assessment of Masonry Structures Based on Analytical Damage Indices	<b>Athanasia Skentou</b> , Maria Douvika, Ioannis Argyropoulos, Maria Apostolopoulou, Antonia Moropoulou, Panagiotis Asteris NTUA, ASPETE
139	Investigating the fracture properties of structural stones of historical monuments	<b>Nikolaos Stylianos Chanakoulas</b> , Stavros Kourkoulis, Antonia Moropoulou NTUA
46	A Historical Mortars Study assisted by GIS Technologies	<b>Panagiotis Vryonis</b> , George Malaperdas, Eleni Palamara, Nikos Zacharias Univ. of the Peloponnese
10	Narrative Trails of Pelion	<b>Maria Vrontissi</b> Univ. of Thessaly
148	Towards a Blockchain Architecture for Cultural Heritage Tokens	<b>Aristidis Anagnostakis</b> Technological Educational Institute of Epirus
77	"Greek Paths of Culture" Programme - Bringing together cultural heritage preservation and social engagement for sustainable development	<b>Katerina Stebili</b> ELLINIKI ETAIRIA - Society for the Environment and Cultural Heritage
61	* Protection and highlighting of a waterfront zone disposing strong cultural characteristics (to be presented at Session II.6)	<b>Dimitris Psychogios</b> , Eleni Maistrou NTUA, Univ. of Thessaly

12.10.18

12.10.18 | 09:00-12:00 Auditorium

Session I.4 Sustainable Preservation and Management Lessons on Emblematic Monuments		
Id	Title	Authors
17	Improving the Geometric Documentation of Cultural Heritage : Combined Methods for the Creation of an Integrated Management Information System in Greece	<b>Eleftheria Mavromati</b> , Eleni Stamatiou, Leonidas Chrysaedis, Konstantinos Astaras <i>The Greek Ombudsman, Hellenic Cadastre, Geodetiki</i>
159	The <b>Temple of Apollo</b> at <b>Corinth</b> . Observations on the Architectural Design	<b>Dimitra Andrikou</b> <i>Archaeologist</i>
153	Anastylosis of Roman Temples in the West End of the Roman Forum, as Part of a Management Plan of the <b>Archaeological Site of Ancient Corinth</b>	<b>Evangelos Kontogiannis</b> <i>Architect engineer</i>
65	Multidisciplinary Documentation, combination of NDTs with geometric documentation for the diagnostic study of Ancient Temples: The case of the <b>Temple of Pythian Apollo</b> in <b>Rhodes</b>	<b>Sofia Soile</b> , Elsavet Tsilimantou, Vasilios Keramidas, Maria Karoglou, Fotios Bourexis, Efstathios Adamopoulos, Ekaterini T. Delegou, Kyriakos Lampropoulos, Charalambos Ioannidis, Antonia Moropoulou <i>NTUA</i> , Maria Pikoula, Maria Michailidou <i>Dodecanese Ephorate of Antiquities</i>
67	A study regarding the historical materials of the <b>Pythian Apollo Temple</b> in <b>Rhodes</b> for the design and selection of appropriate restoration materials	<b>Ekaterini T. Delegou</b> , <b>Vasileios Keramidas</b> , Maria Apostolopoulou, Niki Galanaki, Myrto Kalfonou, Chariklia Skoula, Maria Karoglou, Antonia Moropoulou <i>NTUA</i> , Maria Pikoula, Maria Michailidou <i>Dodecanese Ephorate of Antiquities</i>
35	Seismic response of the <b>Temple of Pythian Apollo</b> in <b>Rhodes</b> Island and recommendations for its restoration	<b>Ioannis Psycharis</b> , Evangelos Avgenakis, Ioannis Taflampas and Maria Kroustalaki <i>NTUA</i> , Maria Pikoula, Maria Michailidou <i>Dodecanese Ephorate of Antiquities</i>
179	The Restoration of the Katholikon of <b>Daphni Monastery</b> : a challenging project of holistic transdisciplinary approach, novel methodologies and techniques and digital modelling.	<b>Androniki Miltiadou-Fezans</b> , Nikolaos Delinikolas <i>NTUA, Hellenic Ministry of Culture and Sports</i>
181	Restoration and Consolidation of the <b>Byzantine Church of Palaia Episkopi</b> in <b>Tegea, Arcadia</b>	<b>Konstantina Siountri</b> <i>Univ. of Pireaus</i>
79	Decryption, through the collaboration of historical accounts and technology, of the hidden phases of construction of the Church of the <b>Holy Monastery of Kykko</b> in <b>Cyprus</b> . A preliminary report.	<b>Nasso Chrysochou</b> <i>Frederick Univ. Cyprus</i>
73	The <b>Plaka Bridge</b> in <b>Epirus</b> : Ground penetrating radar prospection of surviving parts of the collapsed bridge, to provide structural information for its reconstruction	<b>Kyriakos Lampropoulos</b> , Antonia Moropoulou, Pavlos Sotiropoulos, Christoforos Papageorgiou <i>NTUA, Terra Marine</i>
66	The <b>Plaka Bridge</b> in <b>Epirus</b> : A combination of non destructive and analytical techniques to design and select compatible and performing materials for its reconstruction	<b>Ekaterini T. Delegou</b> , Maria Apostolopoulou, Iakovos Gryllakis, Ioannis Nikolaidis, Sophia Mermiggi, Vasilis Keramidas, Maria Karoglou, Asterios Bakolas, Antonia Moropoulou <i>NTUA</i>
23	The <b>Oslo Opera House</b> - Condition analysis and Proposal for cleaning, protection and maintenance of exterior marble	<b>Noni Maravelaki</b> , Chrysi Kapridaki, Lucia Toniolo, Francesca Gheraldi, Ioannis Arabatzis <i>Tech. Univ. of Crete, Politecnico di Milano, NanoPhos SA</i>
44	<b>Modern architecture</b> and cultural heritage	<b>Agnes Couvelas</b> <i>Architect, ICOM</i>

**12.10.18 | 12:00-13:30 Auditorium**

<b>Panel discussion I.4 Bringing together Heritage Stakeholders, Science and Industry</b>	
<b>Amalia Androulidaki</b> , Dir.Gen. of Anastylis, Hellenic Ministry of Culture & Sports	
<b>Yuval Baruch</b> , Israeli Antiquity Authorities	
<b>Michalis Daktyides</b> , PEDMEDE, European Construction Industry Federation (FIEC)	
<b>Kyriakos Themistokleus</b> , Scientific and Technical Chamber of Cyprus (ETEK), Member of the Executive Committee	
<b>Prof. Panagiotis Toulaitos</b> , Frederick University of Cyprus	
<b>Elena Korka</b> , ICOMOS, Member of the International Board	
<b>Stefano Dellatore</b> , Politecnico di Milano	
<b>Dr. Evgenia Tzannini</b> , Lawlecturer NTUA - T.C.G	
<b>Özgür Turan Aksan</b> , Architect Instabul	
Representative of the Hellenic Construction Technology Platform	

**12.10.18 | 14:30-17:30 Auditorium**

<b>Session I.5 Cross-discipline Earthquake Protection and Structural Assessment of Monuments</b>		
<b>Id</b>	<b>Title</b>	<b>Authors</b>
47	Post-seismic restoration project of Basilica Churches in Kefallonia Island	<b>Themistoklis Vlahoulis</b> , Apostolia Oikonomopoulou, Niki Salemi and Mariliza Giarleri Hellenic Ministry of Culture and Sports
76	Experimental attempt to substitute a lost antiseismic timber reinforcement in a Venetian Monument in Kefalonia	<b>Panos Toulaitos</b> , Harris Mouzakis Frederick Univ. Cyprus, NTUA
53	Investigation of the structural response of masonry structures	<b>Georgios Drossopoulos</b> , Jan Phakwago, Maria Stavroulaki, Georgios Stavroulakis Univ. of KwaZulu-Natal, Tech. Univ. of Crete
49	The Timber-Roofed Basilicas of Troodos, Cyprus (15th-19th cent.) Constructional System, Anti-Seismic Behaviour and Adaptability	<b>Marios Pelekanos</b> Frederick Univ. Cyprus
82	Alternative Dome Reconstruction Method for Masonry Structures	<b>Argyris Fellas</b> Frederick Univ. Cyprus
120	Cultural Heritage rc structures strengthened by ties under seismic sequences and uncertain input parameters: a computational approach	<b>A. Liolios</b> Democritus Univ. of Thrace
171	Masonry Compressive Strength Prediction using Artificial Neural Network	<b>Panagiotis Asteris</b> , Ioannis Argyropoulos, Liborio Cavaleri, Hugo Rodrigues, Humberto Varum, Job Thomas, Paulo Lourenço ASPETE, Univ. of Palermo, Polytechnic Institute of Leiria, Univ. of Porto, Cochin Univ. India, Univ. of Minho
165	Prediction of Compressive Strength of Mortars using Artificial Neural Networks	<b>Maria Apostolopoulou</b> , Maria G. Douvika, Ioannis N. Kanellopoulos, Antonia Moropoulou, Panagiotis G. Asteris NTUA, ASPETE
173	Nominal Life of Interventions for Monuments and Historic Structures	<b>Constantine Spyarakos</b> . Charilaos Maniatakis NTUA
<b>Session I.6 Cultural Heritage and Pilgrimage Tourism</b>		
<b>Id</b>	<b>Title</b>	<b>Authors</b>
152	Restoration and Management of World Heritage Christian Cultural Sites: Problems of Religious Tourism – Challenges - Perspectives	<b>Alkiviadis Prepis</b> Democritus Univ. of Thrace
156	On the greatest challenge in the management of living religious heritage: linking the authenticity of heritage and the authenticity of tourist experiences to the authenticity of religious Tradition	<b>Ioannis Poullos</b> Hellenic Open Univ.
180	An integrated cross-cultural approach for the promotion of common religious heritage: Planning pilgrimage routes through the comparative study of medieval monasteries in Greece and Serbia	<b>Eleni Oikonomopoulou</b> , Ekaterini Delegou, Nenad Vesic, Antonia Moropoulou NTUA, Serbian Orthodox Church

**12.10.18 | 17:30-19:15 Auditorium**

<b>Session I.7 Reuse, Circular Economy and Social Participation as a leverage for the Sustainable Preservation and Management of Historic Cities</b>		
<b>Id</b>	<b>Title</b>	<b>Authors</b>
163	Towards a New Heritage Financing Tool for <b>Sustainable Development</b>	<b>Bonnie Burnham</b> President Emerita, WMF
68	Public built cultural heritage management: the <b>public-private partnership (P3)</b>	<b>Cristina Boniotti</b> Politecnico di Milano
43	The historic centres modern conservation principles and their application to <b>Mediterranean historic centers</b>	<b>Despina Dimelli</b> Tech. Univ. of Crete
168	Estimation of Recreation Value and Factors Affecting Visitors' Decision to Visit Cultural Heritage Sites in the <b>Northeast of Jordan</b>	<b>Ismail Abuamoud</b> , Amal Ibrahim Univ. of Jordan
29	Architectural culture protection of <b>Northern Greece</b> : Review of designation actions in <b>Thessaloniki</b>	<b>Maria Margarita Vyzantiadou</b> , Melissa Selevista Hellenic Ministry of Interior (region of Macedonia-Trace)
34	Preservation of Architectural Heritage Civil Servants Joint Stock Fund Historical Buildings: the <b>Deligiorgi Residence Case in Athens</b>	<b>Maria Margarita Vyzantiadou</b> , Panagiotis Gkiokas Hellenic Ministry of Interior (region of Macedonia-Trace) Hellenic Ministry of Labour and Social Security
170	A programme for sustainable preservation of the <b>Medieval City of Rhodes</b> in the Circular Economy based on the renovation and reuse of listed buildings	<b>Antonia Moropoulou</b> , Nikolaos Moropoulos, George Andriotakis, Dimitrios Giannakopoulos NTUA, Univ. of Minnesota

**12.10.18 | 19:15-20:45 Auditorium**

<b>Panel discussion I.7 Reuse, Circular Economy and Social Participation as a leverage for the Sustainable Preservation and Management of Historic Cities</b>
<b>Lee Minaidis</b> , Secr. Gen.OWhc (Org. of World Heritage Cities)
<b>George Kremlis</b> , E.C.D.G. Environment, Responsible for the Circular Economy
<b>Bonnie Burnham</b> , President Emeritus of World Monument Fund (WMF)
<b>Prof. Michael Turner</b> , Unesco Chair in Urban Design, Conservation Studies / Bezalel Academy of Arts and Design, Jerusalem
<b>Prof. Sophia Avgerinou-Kolonia</b> , NTUA, ICOMOS Greece
<b>Eleni Maistrou</b> , NTUA Prof Emeritus, President of the Council of Architectural Heritage of the Society for the Environmental and Cultural Heritage ( ELLINIKI ETAIRIA -ELLET)
<b>Prof. Antonia Moropoulou</b> , NTUA, TCG President of the General Assembly
<b>Ismeni Kriari</b> , Rector at the Panteion University of Social and Political Sciences
<b>Invited Mayors</b> : Rhodes, Venice, Istanbul

### Session II.4 Inception – Inclusive Cultural Heritage in Europe through 3D Semantic Modelling

Id	Title	Authors
72	Advanced 3D survey and modelling for enhancement and conservation of Cultural Heritage: the INCEPTION project	<b>Roberto di Giulio</b> , Federica Maietti, Emmanuele Piaia Univ. of Ferrara
160	INCEPTION: web cutting-edge technologies meet cultural heritage	<b>Ernesto Iadanza</b> , Peter Bonsma, Iveta Bonsma, Anna Elisabetta Ziri, Federica Maietti, Marco Medici, Federico Ferrari, Pedro Martín Leronés Univ. of Ferrara, Consorzio Futuro in Ricerca, Nemoris srl, RDF Ltd, Fundación CARTIF
69	Cultural Heritage sites holistic documentation through Semantic Web technologies	<b>Anna Elisabetta Ziri</b> , Peter Bonsma, Ernesto Iadanza, Federica Maietti, Marco Medici, Federico Ferrari, Pedro Martín Leronés Univ. of Ferrara, Consorzio Futuro in Ricerca, Nemoris srl, RDF Ltd, Fundación CARTIF
59	In situ advanced diagnostics and inspection by non-destructive techniques and unmanned vehicles as input to numerical model and structural analysis- case study Technical museum Nikola Tesla in Zagreb	<b>Vlatka Rajcic</b> , Mislav Stepinac, Jure Barbalic Univ. of Zagreb
121	Current and potential applications of AR/VR technologies in Cultural Heritage. "INCEPTION Virtual Museum HAMH: A use case on BIM and AR/VR modelling for the Historical Archive Museum of Hydra, Greece"	<b>Leonidas Somakos</b> , Dimitrios Karadimas, Dimitrios Bakalbasis, Alexandros Prassas, George Karadimas, Konstantina Adamopoulou VBC, Hydra Museum Historical Archives (IAMY)
63	Process and Methodology towards INCEPTION HBIM Creation through Multi-sensor Documentation	<b>Elisavet Tsilimantou</b> , Ekaterini T. Delegou, Maria Teresa Ioannou, Ioannis Athineos Nikitakos, Charalabos Ioannidis, Antonia Moropoulou NTUA

### Session II.5 Heritage at Risk

Id	Title	Authors
166	The Hellenistic Heritage: chemical processes, devices and products from illustrated Greek Manuscripts - an inte	<b>Dimitrios Yfantis</b> NTUA
5	Stakes and challenges for Underwater Cultural Heritage in the era of blue growth: the role of spatial planning	<b>Marilena Papageorgiou</b> Univ. of Thessaly
36	In depth diagnosis and investigation of salt damage on stone building elements of the Venetian coastal fortress of Rocca a Mare (Koules).	<b>Ioannis Grammatikakis</b> , Constantinos Demadis, Eirini Armakola Univ. of Crete
74	The effect of fire on building materials: the case-study of the Varnakova monastery cells in Central Greece	<b>Ioanna Ntoutsis</b> , Marina Thoma, Maria Apostolopoulou, Ekaterini T. Delegou, Antonia Moropoulou NTUA
147	Preservation and restoration of films and paper documents after their exposure to extreme environmental conditions (Case study of the historical archive of the Communist Party of Greece)	<b>Panagiotis Mavrantonis</b> , Loukas Zoumpoulakis NTUA

Session II.6 Advanced and non Destructive Techniques for Diagnosis, Design and Monitoring		
Id	Title	Authors
21	Kinematic analysis of rock instability in the archaeological site of Delphi, using innovative techniques	<b>Kyriaki Devlioti</b> , Basile Christaras, Vasilios Marinos, Konstantinos Vouvalidis, Nikolaos Giannakopoulos Aristotle Univ. of Thessaloniki
22	Monitoring and mapping of deterioration products on cultural heritage monuments using imaging and laser spectroscopy	<b>Kostas Hatzigiannakis</b> , Kristallia Melessanaki, Aggelos Philippidis, Olga Kokkinaki, Eleni Kabokairinou, Panayiotis Siozos, Paraskevi Pouli, Elpida Politaki, Aggeliki Psaroudaki, Aristides Dokoumetzidis, Elissavet Katsaveli, Elissavet Kavoulaki, Vassiliki Sithiakaki IESL-FORTH, Ephorate of Antiquities of Heraklion
83	The role of dynamic tests in operational conditions to complement historic and architectural research for the structural assessment of ancient towers	<b>Carmelo Gentile</b> , Antonella Saisi Politecnico di Milano
155	Microtremor measurements: A proactive tool to support civil protection authorities in terms of historical and monumental structures - the database of Crete	<b>Margarita Moisidi</b> , Filippos Vallianatos Technological Educational Institute of Crete
81	Radar interferometer application for remote deflection measurements of a slender masonry chimney	<b>Georgios Livitsanos</b> , Antonella Saisi, Dimitrios G. Aggelis, Carmelo Gentile Vrije Univ. Brussel, Politecnico di Milano
1	Hyperspectral and Multispectral Imaging Studies on Greek Monuments, Archaeological objects and Paintings on Different Substrates. Achievements and limitations	<b>Athina Alexopoulou</b> , Agathi Anthoula Kaminari, Anna Moutsatsou University of West Attica, National Gallery - Alexandros Soutzos Museum
11	Infrared hyperspectral spectroscopic mapping imaging from 800 to 5000 nm. A step forward in the field of infrared "imaging"	<b>Stamatios Amanatiadis</b> , Georgios Apostolidis, Georgios Karagiannis Ormylia Foundation
12	Fusion of the infrared imaging and the ultrasound techniques to enhance the sub-surface characterization	<b>Stamatios Amanatiadis</b> , Georgios Apostolidis, Georgios Karagiannis Ormylia Foundation
25	Non-destructive analysis of byzantine gold-leaf glass tesserae using Ion Beam analysis	<b>Polytimi Loukopoulou</b> , Antonia Moropoulou Hellenic Ministry of Culture and Sports, NTUA
2	Techniques for Recording the Healing Mechanism of Lime Mortars Through Conventional Ways and Ultrasound $\mu$ Tomography	<b>Maria Stefanidou</b> , Evaggella Tsampali, Eirini-Chrysanthi Tsardaka, Georgios Karagiannis Aristotle Univ. of Thessaloniki, Ormylia Foundation
161	Moisture climate monitoring in confined spaces using percolation sensors	<b>Helge Pfeiffer</b> , Charlotte Van Steen, Els Verstrynge, Martine Wevers KU Leuven