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Progress in Cultural Heritage: Documentation, Preservation, and Protection

5th International Conference, EuroMed 2014
Limassol, Cyprus, November 3-8, 2014
Proceedings
Preface

Welcome to the proceedings of the 5th EuroMed Conference, the traditional biennial scientific event, which was held in the ancient city of Amathus, located in Limassol, Cyprus. The island has always been a bridge to three continents in the world going back to the origins of civilization. It is a place where the fingerprints of several ancient cultures and civilizations on earth can be found, with a wealth of historical sites recognized and protected by UNESCO.

Several organizations and current EU projects (such as the Marie-Curie Fellowship project on Digital Heritage ITN-DCH, the IAPP 4D-CH-WORLD, the LoCloud, the EuropeanaSpace, the DARIAH-EU ERIC and DARIAH-CY projects) decided to join EuroMed2014 and continue their cooperation together in order to create an optimal environment for the discussion and explanation of new technologies, exchange of modern innovative ideas, and in general to allow the transfer of knowledge between a large number of professionals and academics during one common event and time period.

The main goal of the event is to illustrate the programs underway, whether organized by public bodies (e.g., UNESCO, European Union, National States, etc.) or by private foundations (e.g., Getty Foundation, World Heritage Foundation, etc.) in order to promote a common approach to the tasks of recording, documenting, protecting, and managing World Cultural Heritage. The 5th EuroMed Conference was definitely a forum for sharing views and experiences and discussing proposals for the optimum attitude as well as the best practice and the ideal technical tools to preserve, document, manage, present/visualizes, and disseminate the rich and diverse cultural heritage of mankind.

This conference was held during the first year of the new Framework Programme, Horizon 2020, which is the largest in the world in terms of financial support for research, innovation, technological development, and demonstration activities. The awareness of the value and importance of heritage assets has been reflected in the financing of projects since the first Framework Programme for Research & Technological Development (FP1, 1984-87) and continues into the current HORIZON 2020 that follows FP7 (2007-13). In the past 30 years, a large community of researchers, experts, and specialists have had a chance to learn and develop the transferable knowledge and skills needed to inform stakeholders, scholars, and students. Europe has become a leader in heritage documentation, preservation, and protection science, with COST Actions adding value to projects financed within the FP and EUREKA program and transferring knowledge to practice and supporting the development of SMEs.

The EuroMed2014 agenda focused on the enhancement and strengthening of international and regional cooperation and promoting awareness and tools for future innovative research, development, and applications to protect, preserve, and document the European and World Cultural Heritage. Our ambition was
to host an exceptional conference by also mobilizing policy makers from different EU countries, institutions (European Commission, European Parliament, Council of Europe, UNESCO, International Committee for Monuments and Sites ICOMOS, the International Committee for Documentation of Cultural Heritage CIPA, the International Society for Photogrammetry and Remote Sensing ISPRS, the International Centre for the study of the Preservation and Restoration of Cultural Property ICCROM, and the International Committee for Museums ICOM), professionals, as well as participants from all over the world and from different scientific areas of cultural heritage.

Protecting, preserving, and presenting our cultural heritage are actions that are frequently interpreted as change management and/or change of the behavior of society. Joint European and international research projects provide the scientific background and support for such a change. We are living in a period characterized by rapid and remarkable changes in the environment, in society, and in technology. Natural changes, war conflicts, and man-made changes, including climate, as well as technological and societal changes, form an ever-moving and colorful stage and pose a challenge for society. Close cooperation between professionals, policy makers, and authorities internationally is necessary for research, development, and technology in the field of cultural heritage.

Scientific projects in the area of cultural heritage have received national, European Union, or UNESCO funding for more than 30 years. Through financial support and cooperation, major results have been achieved and published in peer-reviewed journals and conference proceedings with the support of professionals from many countries. The European Conferences on Cultural Heritage research and development and in particular the biennial EuroMed conference have become regular milestones in the never-ending journey in search for new knowledge of our common history and its protection and preservation for the generations to come. EuroMed also provides a unique opportunity to present and review results as well as to draw new inspiration.

To reach this ambitious goal, the topics covered include experiences in the use of innovative technologies and methods and how to take best advantage to integrate the results obtained to build up new tools and/or experiences as well as to improve methodologies for documenting, managing, preserving, and communicating cultural heritage.

Here, we present 84 papers, selected from 438 submissions that focus on interdisciplinary and multidisciplinary research concerning cutting-edge cultural heritage informatics, physics, chemistry, and engineering and the use of technology for the representation, documentation, archiving, protection, preservation, and communication of cultural heritage knowledge.

Our keynote speakers, Mr. Gustavo Araoz (ICOMOS President), Mr. Roberto Scopignio (Director at ISTI, CNR), Mr. Timothy Whalen (Getty Director), Mr. France Desmarais (ICOM), Mrs. Maria P. Kouroupas, US Department of State, Mr. Fabrizio Panone (INTERPOL) and Mr. Laurent Pinot (WCO) are not only experts in their fields but also visionaries for the future of cultural heritage.
protection and preservation. They promote the e-documentation and protection of the past in such a way for its preservation for the generations to come.

We extend our thanks to all authors, speakers, and those persons whose labor, financial support, and encouragement made EuroMed2014 event possible. The international Program Committee, whose members represent a cross-section of archaeology, physics, chemistry, civil engineering, computer science, graphics and design, library, archive, and information science, architecture, surveying, history, and museology, worked tenaciously and finished their work on time. The staff of the IT Department at the Cyprus University of Technology helped with their local ICT and audio-visual support, especially Mr. Filippou, Mr. Costas Christodoulou, and Mr. Stephanos Mallouris. We would also like to express our gratitude to all the organizations supporting this event and our co-organizers, the European Commission scientific and policy officers of the H2020 Marie Skłodowska-Curie Programme, the director general of Europeana Mrs. Jill Cousins, the Getty Conservation Institute and World Monuments Fund, the Cyprus University of Technology, the Ministry of Energy, Commerce, Industry, and Tourism, especially the permanent secretary, and Digital Champion Dr. Stelios Himonas and Mr. Nikos Argyris, the Ministry of Education and Culture and particularly Minister Dr. Costas Kadis, the director of the Cultural Services Mr. Pavlos Paraskevas, the Department of Antiquities in Cyprus, all the members of the Cypriot National Committee for e-documentation and e-preservation in cultural heritage, and finally our corporate sponsors, CableNet Ltd., the Cyprus Tourism Organization, the Cyprus Postal Services, the Cyprus Handicraft Center, and Dr. Kyriakos Themistokleous from the Cyprus Remote Sensing Society, who provided services and ‘gifts of kind’ that made the conference possible.

We express our thanks and appreciation to Dr. Nikos Grammalides from CERTH in Greece, Prof. Milena Dobreva from the University of Malta, Dr. Sander Münster, from the Dresden University of Technology, Germany, Mr. Giuseppe Laquidara, Mrs. M. Mazzi Boém from X23 Ltd. in Italy, and Dr. Athos Agapiou and Dr. Branka Cuca from the CUT Civil Engineering and Geomatics Department for their enthusiasm, commitment, and support for the success of this event. Most of all we would like to thank the organizations UNESCO, European Commission, CIPA, ISPRS, and ICOMOS that entrusted us with the task of organizing and undertaking this unique event and wish all participants an interesting and fruitful experience.

October 2014

Marinos Ioannides
Nadia Magnenat-Thalmann
Eleanor Fink
Roko Žarnić
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Acknowledgment and Disclaimer

The EuroMed2014 Conference has been partly supported by the Republic of Cyprus, by the Cyprus University of Technology, by the Cyprus Tourism Organisation, by Getty Foundation USA, the CableNet Ltd, by CIPA (http://cipa.icomos.org/), ISPRS, ICOMOS, the EU projects FP7 PEOPLE ITN2013 ITN-DCH and IAPP2012 4D-CH-WORLD, the DARIAH-EU ERIC and DARIAH-CY, the FP7-ICT-2011 i-Treasures, the CIP ICT-PSP EuropeanaSpace and CIP ICT-PSP LoCloud.

However, the content of this publication reflects only the authors' views and the European Commission, the Republic of Cyprus, the CIPA, ISPRS, ICOMOS, Cyprus University of Technology and the EU projects FP7 PEOPLE ITN2013 ITN-DCH and IAPP2012 4D-CH-WORLD, the DARIAH-EU ERIC and DARIAH-CY, the FP7-ICT-2011 i-Treasures, the CIP ICT-PSP EuropeanaSpace and CIP ICT-PSP LoCloud are not liable for any use that may be made of the information contained herein.
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