

Conference Programme

3rd CAA-GR Conference Limassol, Cyprus 2018

“Spreading Excellence in Computer Applications for Archaeology and Cultural Heritage”

Monday, 18 June 2018

Workshop on “3D data processing for built heritage and archaeology: laser scanner and other low-cost solutions”, *Luigi Barazzetti, Dr. Riccardo Valente, Branka Cuca*

Tuesday, 19 June 2018

Welcome and opening remarks

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| 09.00-09.30 | Registration |
| 09.30-10.30 | Opening Remarks |
| 10.30-11.00 | Digital applications in the context of the Palaepaphos Urban Landscape Project (PULP 2006-2018), <i>Prof. M. Iacovou</i> |
| 11.00-11.15 | Designing a Science and Technology Centre of Excellence for Archaeology and Cultural Heritage in the Eastern Mediterranean, <i>Prof. P. Kyriakidis et. al.</i> |
| 11.15-11.45 | Break |

Session 1: Field prospection and recording methods for excavation and laboratory work (Chair: Mark Altaweel)

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| 11.45-12.00 | Υπεδάφειες εικόνες από το πολιτισμικό τοπίο της Ειδομένης, Κιλκίς, Βόρεια Ελλάδα, <i>Apostolos Sarris, Nikos Papadopoulos, Nasos Argyriou, Jamieson Donati, Meropi Manataki, Pedro Trapero-Fernandez, Stamatis Chatzitoulousis, Eleni Kottzabopoulou, M. Parcharidou, M. Tsioumas</i> |
| 12.00-12.15 | <i>Remote sensing of ancient paths: a case study from the Middle East, Tuna Kalayci</i> |
| 12.15-12.30 | The quest of the grave of Andreas Vesalius in Zakynthos, <i>Apostolos Sarris, Nikos Papadopoulos, Sylviane Diedrix, Jan Driessen, Theo Dirix, Christina Merkouri</i> |
| 12.30-12.45 | Thessaloniki from aerial photographs of the Second World War: new insights and models for understanding ancient settlements and historical landscapes, <i>Jamieson C. Donati, Manolis Manoledakis</i> |
| 12.45-13.00 | Discussion |
| 13.00-14.15 | Break |

Session 2: Use of Geospatial technologies and remote sensing for mapping the cultural landscape (Chair: Phaedon Kyriakidis)

- 14.15-14.30 Recording and revealing ancient mining activities in Skouriotissa, Cyprus through the use of GIS, *Vasiliki Kassianidou, Athos Agapiou*
- 14.30-14.45 A GIS application for archaeological information based on orthophotos of the Mazotos shipwreck in Cyprus, *Panagiotis Theofanous, Andreas Georgopoulos, Dimitrios Skarlatos*
- 14.45-15.00 Ancient Neighborhoods: a geospatial approach for the study of urban fabric, *Tuna Kalayci, Dominique Langis-Barsetti, Scott Branting*
- 15.00-15.15 Monitoring Cultural Heritage Sites Affected By Geo-Hazards Using In-Situ and SAR Data: the Chirokoitia Case Study for the PROTHEGO Project, *Kyriakos Themistocleous*
- 15.15-15.30 Discussion
- 15.30-15.45 Break

Session 3: Modeling, management and semantics of cultural data (Chair: Apostolos Sarris)

- 15.45-16.00 Least-cost maritime routes in the ancient Eastern Mediterranean, *Elias Frentzos, Phaedon Kyriakidis, Georgios Leventis, Dimitrios Skarlatos, Dimitra Perissiou, Stella Demesticha, Evangeline Markou, Glafkos Cariolou*
- 16.00-16.15 Least cost pathway analysis of obsidian circulation in early Holocene Cyprus, *Theodora Moutsiou, Athos Agapiou*
- 16.15-16.30 Employing agent-based modeling to study the impact of the Theran eruption on Minoan society, *Angelos Chliaoutakis, Georgios Chalkiadakis, Apostolos Sarris*
- 16.30-16.45 The heritage of Brexit: How the past is used to construct political identities in social media, *Mark Altaweel, Chiara Bonacchi, Marta Krzyzanska*
- 16.45-17.00 Reconstructing context and meaning: a relational database for small finds, *Marianna Figuera*
- 17.00-17.15 SimpleX: simplifying complexity in recording, managing and transforming archaeological pottery field data, *Charalambos Paraskeva*
- 17.15-17.30 Digitization and gamification technologies in the design, development and evaluation of a cultural educational program for Greek art and culture, *Myrto Michala, Dimitrios Tsolis*
- 17.30-17.45 Discussion

End of Day 1

Wednesday, 20 June 2018

Session 4 : 3D reconstruction, modeling and visualization (Part I) (Chair: Luigi Bazzaretti)

- 09.00-09.15 The cave of the Nympholept at Vari - fast creation of a 3D simulation model of an important cult cave in Attica, Greece, *Alexandra Mari, Vassilios D. Andritsanos, Theodoros Hatzitheodorou, George Hatzitheodorou*
- 09.15-09.30 Digital 3D reconstruction of the roman temple of Évora, Portugal, *Yigit Z. Helvaci, Manolis Achladianakis, Isabel Valle Herrero, Jose Mirao, Antonio Candeias*
- 09.30-09.45 A multi-disciplinary approach in studying nymphaea: a 3D modelling documentation of the Roman nymphaeum complex at Kourion, Cyprus, *Skevi Christodoulou, Panayiotis Panayides, Marina Faka, Charalambos Ioannou*
- 09.45-10.00 3D documentation and reconstruction for preservation purposes in archaeological sites, *Elisavet Tsilimantou, Charalabos Ioannidis, Sevasti Tapeinaki, Antonia Moropoulou*

10:00-10:15 Comprehensive Documentation of Historical Graffiti: the challenge of the KARAVOI project, *Andonis Neophytou*
10.15-10.30 Discussion

10.30-11.30 Break – Poster Session

Poster: Παρουσίαση & ανάλυση της ηλεκτρονικής παρουσίας των εργαστήριων συντήρησης έργων τέχνης & αρχαιοτήτων των μουσείων, *Χρήστος Καρύδης, Αθανάσιος Μποτόνης, Αικατερίνη Καμπάση,*
Poster: 3D reconstruction of church walls (St. Martin, Ponikva, Slovenia), *Jernej Umek, Iva Ciglar, Jasna Vinder*
Poster: Mapping Pausanias' Athens, *Emeri Farinetti, Fabio Cavallero*
Poster: From virtual to real: the restoration of a Neolithic figurine with the use of 3D scanning, rapid prototyping and 3D printing, *Dimitrios Karolidis, Chrisanthi Fotiadou, Dimitris Kaimaris, Charalampos Georgiadis, Petros Patias, George Hourmouziadis, Konstantinos Kotsakis*
Poster: Evaluation of Ground Penetrating Radar as a monitoring method for historical buildings conservation, *Meropi Manataki, Apostolos Sarris*
Poster: Implementation of Geoinformatics for reconstructing the cultural dynamics of littoral archaeological sites, *Nikos Papadopoulos*
Poster: Pseira revisited: a digital preservation study of the archaeological remains from a Minoan site in Eastern Crete, *Yigit Zafer Helvaci, Alexis Stefanis, Panagiotis Theoulakis, Lisa Sardegna, Klio Zervaki, Antonio Candeias, Stefania Chlouveraki*
Poster: Monitoring burial mounds in Yambol district: deploying mobile technology to improve cultural heritage protection, *Todor Valchev, Adela Sobotkova*

Session 5 : 3D reconstruction, modeling and visualization (Part II) (Chair: George Pavlidis)

11.30-11.45 Historic building information modeling on site, *Luigi Barazzetti*
11.45-12.00 Re-assembling the funerary cartonnage from Kellis (Ismant El-Kharab, Dakhleh Oasis) using 3D applications and photographic techniques, *Carlo Rindi Nuzzolo*
12.00-12.15 A sketch and image-based 3D representation of the Derveni board game using the CHER-ish software, *Eleni Kotoula, Despina Ignatiadou*
12.15-12.30 First year update on iMARECULTURE project technological progress, *Dimitrios Skarlatos, Panagiotis Agraftotis, Tibor Balogh, Fabio Bruno, Filipe Castro, Iraklis Christofi, Barbara Davidde Petriaggi, Stella Demesticha, Pierre Drap, Elias Frentzos, Fotos Kikillos, Phaedon Kyriakidis, Fotis Liarokapis, Charis Poullis, Selma Rizvic, Marinos Vlachos*
12.30-12.45 Using real-time engines & physically based rendering for interactive archaeological virtual reconstructions, *Georgios Thanos*
12.45-13.00 ViMM - Virtual Multimodal Museum: An Action for Virtual Museums and a roadmap for Europe's Digital Cultural Heritage, *Marinos Ioannides*
13.00 -13.15 Discussion
13.15-14.15 Break

Session 6: Application of non-destructive techniques within Cultural Heritage (Chair: Vasiliki Kassianidou)

14.15-14.30 Hierarchical classification for improved compound identification in Raman spectroscopy, *Vasileios Sevetlidis, George Pavlidis*
14.30-14.45 Hot stuff - structural modeling of pyrotechnical ceramics in view of their function and use in ancient metallurgy, *Anno Hein, Vassilis Kilikoglou*
14.45-15.00 Using pXRF Spectrometry and statistical methods to analyse ancient cypriot silver coins from Larnaca and Voumi hoards (6th-4th century BC), *Andreas Charalambous*

15.00-15.15	Enkomi: A pXRF application on metallurgical ceramics, <i>Demetrios Ioannides, Vasiliki Kassianidou</i>
15.15-15.30	Discussion
15:30-15:40	Info for CAA-GR 2020, <i>Anno Hein</i>
15.40-16.00	Closing Remarks & CAA-GR Members meeting
End of Day 2	

Co-organizers



Cyprus University of Technology
Department of Civil Engineering and Geomatics



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