

National and Kapodistrian
University of Athens



2nd CAA-GR conference

20-21 December 2016



National and Kapodistrian
University of Athens

Main Building, 30 Panepistimiou St.
Amphitheatre "Alkis Argyriadis"

2nd CAA-GR Conference

With a history going back to 1972, CAA (Computer Applications and Quantitative Methods in Archaeology) is the premier international conference for all aspects of computing, quantitative methods and digital applications in Archaeology. The Greek chapter of CAA International (CAA-GR) (<http://www.caa-gr.org/>) was established in 2012, in order to develop a forum to discuss the various practical, theoretical and methodological issues involved in the increasing number of computer applications in Greek archaeological and cultural heritage contexts, and to share the results of related research.

The First CAA-GR conference was carried out at Rethymno by the GeoSat ReSeArch Lab of F.O.R.T.H. in 2014. The Second CAA-GR conference features 31 presentations and 10 posters on field prospection and recording methods for excavation and laboratory work, data modeling, management and integration, linked data and the semantic web, 3D modeling, virtual reality and simulations, Geomatics, GIS applications, aerial photography and remote sensing, Users and interfaces in education, museums and multimedia, Digital Cities, cultural heritage management and protection.

Dr. Jari Pakkanen, Director of the Finnish Institute of Athens, will deliver a keynote paper on the use of computer applications from almost as many different angles as possible in a single field project, the Kyllene Harbour Project.

The Organizing Committee

Giorgos Vavouranakis - Assistant Prof., National & Kapodistrian University of Athens

Markos Katsianis - PhD Archaeology, Member of the CAA-GR board

Yiannis Papadatos - Assistant Prof., National & Kapodistrian University of Athens

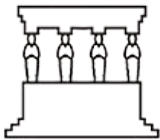
Marlen Mouliou - Lecturer, National & Kapodistrian University of Athens

Platon Petridis - Associate Prof., National & Kapodistrian University of Athens

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Precision and Reliability

Coffee breaks are organised by Mitos, a non-profit organisation for the promotion of solidarity towards communities at risk within the framework of the action “Coffee for a good cause” (<https://mitos.org.gr/>)



Conference Programme

Tuesday, 20 December 2016

09.30-09.45 Opening Remarks

09.45-11.30 Session 1: Field prospection and recording methods for excavation and laboratory work (chair: G. Vavouranakis)

09.45-10.00 Late Roman and Byzantine urbanism at a glance: results from remote sensing and geophysical prospection at Amorium - *J.C. Donati, T. Kalayci, N. Tsivikis & A. Sarris*

10.00-10.15 Ποσοτικές μέθοδοι στη Διερεύνηση των επιδράσεων των περιβαλλοντικών παραγόντων στα οργανικά υλικά τεκμήρια φυσικής και πολιτιστικής κληρονομιάς - Η περίπτωση του οστού - *E. Παπαγεωργίου, Δ. Καρλής, Σ. Μπογοσιάν, E. Καραντώνη, A. Χριστόπουλος, E. Φώτου, K. Βόσου & Γ. Παναγιάρης*

10.15-10.30 Geophysical Imaging of the interior of tumuli to save their integrity - *G.N. Tsokas, P.I. Tsourlos & G. Vargemezis*

10.30-10.45 Satellite based investigation for detection of ancient tombs' looting in Cyprus - *A. Agapiou & V. Lysandrou*

10.45-11.10 Q&A

11.10-11.30 Coffee break

11.30-12.55 Session 2: Geomatics, GIS, aerial photography and remote sensing (chair: J. Donati)

11.30-11.45 Species distribution models for the investigation of Neolithic sites in the Tavoliere plain (Southern Italy) - *M. Noviello, B. Cafarelli, C. Calculli, A. Sarris & P. Mairota*

11.45-12.00 Towards a GIS-based reconstruction of a coastal landscape, integrating geomorphological and archaeological evidence - *G. Alexandrakis, K. Athanasaki & A. Kampanis*

12.00-12.15 Modelling the topography of the ancient Lavrion: epigraphical sources, mental maps and GIS - *E. Farinetti & A. Kapetanios*

12.15-12.30 Geoinformatic approaches to assess the landform characteristics of Minoan settlements and characterise the water management planning in Bronze Age Crete - *A. Argyriou & A. Sarris*

12.30-12.55 Q&A

12.55-15.00 Lunch break

15.00-16.00 Session 3: Data modeling, management and integration, Linked data and the semantic web (chair: M. Katsianis)

15.00-15.15 Μεθοδολογία μοντελοποίησης ανασκαφικής διαδικασίας με σωζόμενα αρχιτεκτονικά λείψανα - *E. Χρηστάκη, M. Doerr & X. Μπεκιάρη*

15.15-15.30 Μοντελοποίηση των ανασκαφικών συγκειμένων: εννοιολογική αρχιτεκτονική και συμβατότητα στην τεκμηρίωση προϊστορικών θέσεων - *Θ. Αγγελούδου & Γ. Βαβουρανάκης*

15.30-15.45 Creating the National Archive of Monuments: an on-going adventure towards the documentation, the digitalization and the promotion of cultural heritage - *X. Τσέλιος*

15.45-16.00 Q&A

16.00-16.20 Coffee break

16.20-17.30 Session 4: Users and interfaces: education, museums and multimedia (chair: M. Moulou)

16.20-16.35 Brescia-Brixia (Italy). Travel across the ancient landscapes: Museum of the City and its archaeological area between research and enhancement - *F. Morandini*

16.35-16.50 Design and development of the video game Secrets of the Past: Excavating the City of Zeus - *L. Mantzourani & A. Giannakidis*

16.50-17.05 Εικονικό Μουσείο Μέγας Αλέξανδρος: από τις Αιγές στην οικουμένη - *Y. Aspiotis, B. Mitsiopoulos & H. Sidiropoulos*

17.05-17.20 Διαδικτυακές εφαρμογές για το νεανικό κοινό. Ένα παράδειγμα του e-Βυζαντινού και Χριστιανικού Μουσείου - *Π. Βοσνίδης*

17.20-17.40 Q&A

17.40-18.00 Coffee break

18.00-19.00 Keynote: Kyllene Harbour Project: from survey to analysis - J. Pakannen

Wednesday, 21 December 2016

09.30-11.10 Session 5: 3D modeling, virtual reality and simulations -Part I (chair: C. Papadopoulos)

- 09.30-09.45 Reconstructing ancient theatres based on their original acoustics - *M. C. Manzetti*
- 09.45-10.00 Ψηφιακή ανακατασκευή αγγείων άβαφης κεραμικής με φωτογραμμετρία και τη μέθοδο διατομής πάχους - *M.I. Σταματόπουλος & X.N. Αναγνωστόπουλος*
- 10.00-10.15 Living in the gloom - *D. Moullou, L.T. Doulos & F.V. Topalis*
- 10.15-10.30 In and out: fluent modeling of the temperature distribution inside an ancient updraft pottery kiln - *A. Hein, N.S. Müller & V. Kilikoglou*
- 10.30-10.45 Hagia Sophia: 1500 years of history, a digital reconstruction - *A. Antonakakis, D. Christopoulos & I.N. Arvanitis*
- 10.45-11.10 Q&A
- 11.10-11.30 Coffee break

11.30-12.45 Session 6: 3D modeling, virtual reality and simulations - Part II (chair: E. Paliou)

- 11.30-11.45 Digital engagements with clay: computational imaging and 3D printing for the study, interpretation and Dissemination of the Neolithic figurines from Koutroulou Magoula, Greece - *C. Papadopoulos, Y. Hamilakis, N. Kyparissi-Apostolika & M. Diaz-Guardamino*
- 11.45-12.00 Εφαρμογή σύγχρονων μεθόδων αποτύπωσης στην τεκμηρίωση της βορειοδυτικής γωνίας του Παρθενώνα - *B. Ελευθερίου, Η. Καλησπεράκης, Δ. Μαυρομάτη & Ρ. Χριστοδουλοπούλου*
- 12.00-12.15 The use of computed tomography for creating virtual archives of conservation condition reports. The case study of a 17th century casket - *E. Kartaki*
- 12.15-12.30 Performing archaeological research with 3D technologies. Digitisation, visualisation and reconstruction - *D. Tsiafaki & N. Michailidou*
- 12.30-12.50 Q&A
- 12.50-14.00 Lunch break
- 14.00-15.30 Poster session

15.30-16.45 Session 7: Linked data and the semantic web (chair: Y. Papadatos)

- 15.30-15.45 Democritising the Digital: exploring a technological path towards the establishment of Cultural Heritage as a Common - *S. Lekakis*
- 15.45-16.00 The collection management system and open link data from the British School at Athens - *J.-S. Gros*
- 16.00-16.15 Towards modern Greek linked data in the domain of cultural heritage - *S. Markantonatou, M. Katsianis, P. Kamatsos, E. Lempidaki, D. Tsiafaki, A. Theocharaki & N. Michailidou*
- 16.15-16.30 OMEKA vs HEURIST: An historian's perspective - *K. Gardikas*
- 16.30-16.50 Q&A
- 16.50-17.10 Coffee break

17.10-17.45 Session 8: Digital Cities, cultural heritage management and protection (chair: P. Petridis)

- 17.10-17.25 Project Digital Enhancement of Peloponnese Castles: assessment, impact, perspectives and challenges - *D. Athanasoulis, X. Simou, V. Klotsa, A. Sfika, E.O. Deligianni, A. Georgiou, T. Ziropianni & C. Theodoropoulos*
- 17.25-17.40 "Invisible monuments... digital memory." Seven hidden archaeological sites of Thessaloniki becoming accessible through digital applications - *E. Theodoroudi, K. Kotsakis & K. Kasvikis*
- 17.40-17.55 Is user participation feasible in digital cultural heritage environments? - *Z. Koukopoulos & D. Koukopoulos*
- 17.55-18.10 Q&A
- 18.10-18.30 Coffee break
- 18.30-19.30 Closing Remarks & CAA-GR members general meeting