

Report for the CAA National Chapter of Greece

Reporting Period*: July 2021 – June 2022

Submitted by*: Emeri Farinetti

Date Submitted*: 26/07/2022

Update on the National Chapter Activities*: (Please insert additional pages, if needed)

The 4th CAA-Gr (Greek chapter) conference was held in Athens, October 21-22, 2021.

25 papers were presented, organised into 5 thematic sessions (databases and statistics, evaluation and modelling of socio-ecological systems, 3D modelling, multimedia and virtual reality, GIS and prospection methods).

Here below is the detailed program of the two days conference.

4th CAA-GR 2020/2021, N.C.S.R. "Demokritos", Conference Programme & abstracts

4th CAA-GR Conference 2020/2021
Computer Applications and Quantitative Methods in Archaeology, Greece
 'Big Data in Archaeology'
 N.C.S.R. "Demokritos", 21st and 22nd October 2021
GOING VIRTUAL AFTER ALL

CONFERENCE PROGRAMME

THURSDAY 21st October 2021

14:00 **Welcome**

14:15 – 15:45 Session 1 (Databases and Statistics)

M. Katsiamis and D. Tsiafaki
 Open Science approaches to archaeological digital production
C. Bouras, L. Mulot, A. Perrier, J. Bennet and M. Loy
 Chronique des fouilles en ligne / Archaeology in Greece Online in the era of archaeological Big Data
E. Nikita and P. Nikitas
 Measures of population divergence for binary data: limitations and improvements via simulations
P. Hadjittofi, Ch. Paraskeva, E. Rizopoulou-Egoimenidou and A. Vionis
 Rural Economy and Society in Early Modern Cyprus (RURAL-CY): An Introduction to Project Objectives and Technological Infrastructures

16:00 – 17:00 Session 2 (Databases and Statistics)

V. Sevettidis, C. Kionti, C. Tzovvara, G. Tasztoglou and G. Pavlidis
 Augmenting existing food image datasets with Greek dishes
A. Hein
 Categorization of archaeological ceramics based on their elemental composition using self organizing maps (SOM)

Webpage: caa-gr/2020.net Email: info@caa-gr/2020.net

4th CAA-GR 2020/2021, N.C.S.R. "Demokritos", Conference Programme & abstracts

G. Ktouselaki, K. Prevezanou, P. Konstantinidis, E. Tsoutsoumanos(2), G. S. Polymeris, V. Pagonis and G. Kitis
 Fitting of simulated luminescence dose response curves using the Lambert-W function: implementation with Python

17:05 – 17:45 Session 3 (Evaluation and Modeling of socio-ecological systems)

K. EfMeidou
 Exploring territoriality during the Second Venetian period in the Peloponnese
H. Bartlett Balicki
 Considering social network analysis: A Black Sea case study investigating trade dynamics in the ancient Greek world.

FRIDAY 22nd October 2021

10:30 – 12:00 Session 4 (3D Modeling)

S. Lighovanlis, A. Aidonis, N. Galanidou and C. Papageorgiou
 Exploring Neanderthal handedness. The contribution of digital applications
V. Valantou, V. V. Panagiotidis and N. Zacharias
 Sherdn in the box: Bringing life back to ancient ceramic fragments
D. Makris, S. Chlouveraki and S. Alpek
 Using digital approaches to reveal the historical states of portable mosaic icon
C. Kontopoulos, V. Charalampopoulos, K. Fotiou, K. Sporn and S. Biernath
 LIDAR and RGB airborne orthophotos coverage and visualization and automatic recognition of archeological findings in Kephissos (Phokis and Algeria)

12:15 – 13:30 Session 5 (Multimedia and virtual reality)

A. Politopoulos, A.A.A. Mol and S. Lammes
 The Past-at-Play Lab: Research in and as Play
M. Averkiou, G. Artopoulos, E. Kalogerakis, G. Patow, M. Igarievna Maslioukova, M. Deligiorgi and Y. Chrysanthou
 ANNFASS: A Neural Network Framework for understanding historical monuments Architectural Structure and Style.
P. Polymenopoulou, A. Kameus, I. Papadatos, A. Kalara, F. Sogljani, D. Roubis, P. Tioh and J. Malibova
 Digital applications in archaeological education and excavation training: the case of project DELTA

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S. C. A. Thomopoulos, P. Tsimpiridis, E.-I. Theodorou, C. Maroglou, E. Georgiou and C. Christopoulou

COSMOS, Cultural Osmosis - Mythology & Art

BREAK

14:30 – 16:00 Session 6 (GIS and Prospection Methods)

K. Efkleidou, M. Karantoni, S. Triantaphyllou and S. Andreou

UNLOCKING BUILDING BIOGRAPHIES DURING THE LATE BRONZE AGE IN CENTRAL MACEDONIA: THE CASE OF THE THESSALONIKI TOUMBA TELL SETTLEMENT

A. Agapiou

Satellite Remote Sensing and Heritage applications 2010-2020: A Decade of Change

E. Farinetti and C. Piccoli

Reconstructing a past built environment: from low altitude aerial images to the application of a rule-based modelling approach for the archaeological visualization of the city-scape of ancient Halartos

T. Valehev and A. Sobotkova

Archaeological map of the Bolyarovo municipality, Bulgaria

16:15 – 17:45 Session 7 (GIS and Prospection Methods)

A. Chroni and A. Georgopoulos

GIS and 3D digital modelling for tracing and figuring out urban cultural components: Ioannina city

M. Teichmann

Roman Settlement Patterns and the Distribution of Luxury Indicators in Roman Central Italy

J. C. Donati, N. Argyriou, E. Alevizos, A. Chliaoutakis, T. Kalayci and A. Sarris

The CORONA Digital Atlas of Greece: A New Open-Access Platform for Assessing Historical Landscapes

M. Manataki, A. Vafidis, A. Sarris and N. Papadopoulos

Training AlexNet to classify Ground Penetrating Radar images featuring buried structures

18:00 – 19:00 Open Discussion

- CAA-GR News
- Conference Proceedings
- Next CAA-GR conference
- ...

Webpage: caa-gr2020.net

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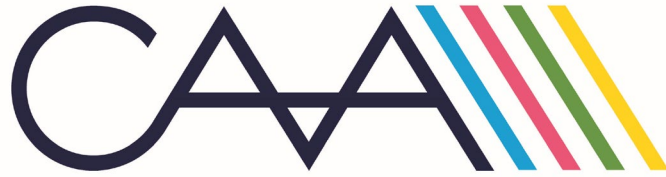
Email: info@caa-gr2020.net

In that occasion, we also carried out our Annual general meeting.

The publication of the 4th CAA-Gr conference proceedings is in process. Contributions have all been collected and the peer-review process is ongoing. Dr. Anno Hein, of the N.C.S.R. Democritus research centre, is in charge of the resulting edited book.

In the meanwhile, we are organizing a new seminar series scheduled for November-December 2022, after the positive experience of the on-line seminar series organized in autumn 2020 and spring 2021, presented in our last annual reported (signed by the former chair, Athos Agapiou).

The new seminar series will have as topic: *The role of digital archaeology in modelling and detecting the risks and effects of climate change*. A special section will be devoted to A.I. applications on Cultural Heritage and detection of the effects of climate change, with a special focus on issues pertaining to the monitoring, protection and preservation of material culture. A growing number of threats to cultures and ecosystems worldwide, including climate change, habitat loss, pollution, rapid human development and conflicts, highlights the need for scientists to combine their efforts and expertise to fruitfully address the impact of such phenomena on society at large and the material expression of our cultural identities. By bringing together scientists working at the intersection between



Humanities and Physical Sciences, we hope to inspire discussions that will expand our future efforts, energy, and resources in the creation of new knowledge to counteract the threats to our Cultural Heritage.

Furthermore, in collaboration with the network MSCA ITN (<https://place-itn.cyi.ac.cy/>), and in particular with the partner Institute of Nanoscience and Nanotechnology N.C.S.R. "Demokritos" (Attica-Greece), we plan to co-organize a workshop on 'Data Management in Cultural Heritage' by the end of the year.