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## 4<sup>th</sup> CAA-GR Conference 2020

*Computer Applications and Quantitative Methods in Archaeology, Greece*

**'Big Data in Archaeology'**

N.C.S.R. "Demokritos", 1<sup>st</sup> and 2<sup>nd</sup> October 2020

**2<sup>nd</sup> CIRCULAR**

**CALL FOR ABSTRACTS**

Dear Colleagues,

The 4<sup>th</sup> CAA-GR conference 'Computer Applications and Quantitative Methods in Archaeology, Greece' will be held at N.C.S.R. "Demokritos" on 1<sup>st</sup> and 2<sup>nd</sup> October 2020.

The CAA-GR is the Greek Chapter of the CAA ([caa-international.org](http://caa-international.org)). The general scope of CAA conferences is to bring together archaeologists, mathematicians and computer scientists in order to encourage communication between these disciplines, to provide a survey of current projects and to stimulate discussion and future progress in the field.

The CAA-GR conference is a biennial meeting with focus on research in the Eastern Mediterranean Region. Former meetings have been organized in Rethymno (2014), Athens (2016) and Limassol (2018). The proceedings are published in digital form and can be accessed via the CAA-GR web page ([gr.caa-international.org](http://gr.caa-international.org)).

The CAA-GR 2020 will be jointly organized by the Institute of Nanoscience and Nanotechnology and the Institute of Informatics and Telecommunications at N.C.S.R. "Demokritos". **The focus of this year's conference will be on 'Big Data in Archaeology'**. In the framework of the conference a one-day workshop on 'Management and evaluation of Big Data' will be organized the day before the conference.

We would like to invite you for the submission of abstracts for papers related to all aspects of computer applications, quantitative methods and digital applications in archaeology and cultural heritage of the Eastern Mediterranean. The papers will be presented either as talks or posters. A template for abstracts can be found on the conference webpage [caa-gr2020.net](http://caa-gr2020.net).

The abstracts should be submitted until **15<sup>th</sup> April 2020** at [abstract@caa-gr2020.net](mailto:abstract@caa-gr2020.net). A selection of suggested topics can be found below but it is not mandatory. The abstracts will be reviewed by the Scientific Committee, who will decide about acceptance.

The registration fees for the conference will be 120 € (regular) and 60 € (students), respectively. Details about the registration will be announced on the conference webpage during the next weeks.

For the one-day workshop on 'Management and evaluation of Big Data' at 30<sup>th</sup> September the number of participants will be limited. For this, an additional registration will be necessary.

For more information and updates please visit our web page:

[caa-gr2020.net](http://caa-gr2020.net)

or contact us at: [info@caa-gr2020.net](mailto:info@caa-gr2020.net)

Looking forward to welcoming you in October 2020

The Organizing Committee

### **Organizing Committee**

Anno Hein, *Institute of Nanoscience and Nanotechnology, N.C.S.R. „Demokritos“*  
Vassilis Kilikoglou, *Institute of Nanoscience and Nanotechnology, N.C.S.R. „Demokritos“*  
Ioannis Karatasios, *Institute of Nanoscience and Nanotechnology, N.C.S.R. „Demokritos“*  
Vangelis Karkaletsis, *Institute of Informatics and Telecommunications, N.C.S.R. „Demokritos“*  
George Petasis, *Institute of Informatics and Telecommunications, N.C.S.R. „Demokritos“*  
Lida Arnellou, *Institute of Informatics and Telecommunications, N.C.S.R. „Demokritos“*

### **Scientific Committee**

Athos Agapiou, *Department of Civil Engineering and Geomatics, Cyprus University of Technology*  
Andreas Angourakis, *McDonald Institute for Archaeological Research, University of Cambridge*  
Jacopo Bonetto, *Department of Cultural Heritage, University of Padova*  
Despina Catapoti, *Department of Cultural Technology and Communication, University of the Aegean*  
Panos Constantopoulos, *Department of Informatics, Athens University of Economics and Business*  
Sylviane Déderix, *French School at Athens / AEGIS, UC Louvain*  
Basilis Gatos, *Institute of Informatics and Telecommunications, N.C.S.R. "Demokritos"*  
Dimitris Grigoropoulos, *German Archaeological Institute, Athens*  
Avshalom Karasik, *The Institute of Archaeology, Hebrew University*  
Markos Katsianis, *Department of Cultural Heritage Management & New Technologies, University of Patras*  
Dimitrios Makris, *Faculty of Interior Architecture, Decorative Arts, and Industrial Design, University of West Attica*  
Maria Mertzani, *Directorate of Conservation of Ancient & Modern Monuments, General Directorate of Antiquities & Cultural Heritage*  
Yiannis Papadatos, *Department of History and Archaeology, National and Kapodistrian University of Athens*  
George Pavlidis, *Institute for Language and Speech Processing, 'Athena' Research Centre*  
Maria Roussou, *Department of Informatics & Telecommunications, National and Kapodistrian University of Athens*

### **Topics of the Conference 1<sup>st</sup> and 2<sup>nd</sup> October 2020**

- *Databases and Statistics*
  - *Data management, data mining*
  - *Semantics*
  - *Statistical methods*
  - *Pattern recognition*
- *Geographic Information Systems (GIS) and Prospection Methods*
  - *3D reconstruction and visualization of sites and landscapes*
  - *Aerial photography and remote sensing*
  - *Geophysical prospection*
  - *Mapping of excavations and archaeological sites*
- *3-D Modeling of archaeological objects and infrastructure*
  - *Reconstruction and digital engineering*
  - *Visualization and automatic recognition*
  - *Simulation of function: FEM, CFD etc.*
- *Sensing techniques in Cultural Heritage*
  - *Monitoring microclimate*
  - *Monitoring CH objects and sites*
- *Evaluation and Modeling of socio-ecological systems*
  - *Investigation of trade and technology transfer*
  - *Agent based models and simulations*
- *Multimedia and virtual reality*
  - *Education*
  - *Museums*
  - *Gaming*

### **One Day Workshop, 30<sup>th</sup> September 2020**

- *Management and evaluation of Big Data*
  - *Databases*
  - *Pattern recognition*