

VIRTUAL ENVIRONMENTS AND PEDAGOGY

Chairs: Arne R. FLATEN – Alyson GILL

April 3, Thursday

- 9.00-9.30 Levy, R. M. & Kee, K.: Platforms for Virtual Environments (long paper)
- 9.30-9.50 Bruno, F., Bruno, S., De Sensi, G., Librandi, C., Luchi, M. L., Mancuso, S., Muzzupappa, M. & Pina, M.: MNEME: A transportable virtual exhibition system for Cultural Heritage (short paper)
- 9.50-10.10 Haimila, M.: Mobile guidance on Cultural Heritage sites – Application for alterable contents (short paper)
- 10.10-10.40 De Gloria, A., Belloti, F., Berta, R., Masa, M., Diori, I., Oosterbeek, L. & Leite Velho, G.: The Travel in Europe project: MMOG and Cultural Heritage promotion (long paper)
- 10.30-11.00 Coffee break
- 11.00-11.20 Bem, C., Bem, C., Simion, D. & Nicolae, C. I.: Interactive multimedia exhibition – A day in the life of an Eneolithic community (short paper)
- 11.20-11.50 Flaten, A.: Ashes2Art as pedagogical experiment (long paper)
- 11.50-12.10 Cothren, J., Limp, W. F., Fredrick, D., de Noble, T., Barnes, A., Goodmaster, C. & Stevens, C.: Visualizing the Roman City: Looking at the past through multidisciplinary eyes (short paper)
- 12.10-12.30 Rua, H.: Historical and territorial analysis: A contribution to the study of the defence of the city of Lisbon – The Peninsular Wars (short paper)
- 12.30-14.00 Lunch break
- 14.00-14.20 Hermon, S.: An epistemological approach to the representation of tangible Cultural Heritage objects in museum environments using ICT (short paper)
- 14.20-14.50 Vasáros, Zs.: Renaissance architecture in Hungary – A multilayered method for an exhibition project of the Hungarian National Museum in 2008 (long paper)
- 14.50-15.20 Walczak, K., Cellary, W. & Prinke, A.: Interactive presentation of archaeological objects using virtual and augmented reality (long paper)
- 15.30-16.00 Coffee break

3D DATA CAPTURE AND VISUALIZATION IN ARCHAEOLOGY AND CHM

Chair: Mark MUDGE

April 3, Thursday

- 9.00-9.20 Engström, A. & Roa, E.: Digital recording projects at the Vasa Museum (short paper)
- 9.20-9.40 Fábrián, Sz., Réti, Zs. & Serlegi, G.: 3D modelling of complex archaeological features: a case study from Abony, Hungary (short paper)
- 9.40-10.00 Réti, Zs., Langó, P. & Türk, A.: Reconstruction and 3D-modelling of a unique Hungarian Conquest Period (10th c. AD) horse burial (short paper)
- 10.00-10.30 Hörr, C., Lindinger, E. & Brunnett, G.: Considerations on technical sketch generation from 3D-scanned Cultural Heritage (long paper)
- 10.30-11.00 Coffee break
- 11.00-11.20 Kampel, M. & Zambanini, S.: Coin data acquisition for image recognition (short paper)
- 11.20-11.40 Kleber, F. & Sablatnig, R.: A skew detection technique suitable for degraded ancient manuscripts (short paper)
- 11.40-12.00 Koller, D.: Protected Sharing of 3D models of Cultural Heritage and archaeological artifacts (short paper)
- 12.00-12.20 Breuckmann, B. & Végvári, Zs.: High definition 3D-surface scanning and applications in arts and Cultural Heritage (short paper)
- 12.30-14.00 Lunch break
- 14.00-14.20 Végvári, Zs. & Breuckmann, B.: Revealing hidden structures and creating a DIGITAL FINGERPRINT of paintings by using advanced 3D-scanning techniques (short paper)
- 14.20-14.40 Kießling, H., Reuter, U. & Innerhofer, F.: 3D comparison and analysis of tiles, female and male mould (short paper)
- 14.40-15.00 Karasik, A., Smilansky, U., Sharon, I. & Gilboa, A.: Computerized typological classification of sherds based on 3D documentation and automatic drawing (short paper)
- 15.00-15.20 Mara, H., Kammerer, P. & Trinkl, E.: Documentation of Polychrome Ceramics using 3D-Acquisition and Multi-Spectral Readings (short paper)
- 15.30-16.00 Coffee break

- 16.00-16.30 Hörr, C., Lindinger, E. & Brunnett, G.: New paradigms for automated classification of pottery (long paper)
- 16.30-16.50 Zhou, M., Geng, G., Wu, Zh. & Shui, W.: A system of pottery shape recovery and repairing (short paper)

DEALING WITH UNCERTAINTY IN ARCHAEOLOGY

Chair: Philip VERHAGEN

April 3, Thursday

- 9.00-9.20 Buccellati, F.: Constructing art historical definitions through a comparative database: The evidence of Old Assyrian glyptics (short paper)
- 9.20-9.40 Carver, G.: Stratigraphic uncertainty (short paper)
- 9.40-10.00 de Runz, C., Desjardin, E., Piantoni, F. & Herbin, M.: Toward handling uncertainty of excavation data into GIS (short paper)
- 10.00-10.20 Herzog, I.: A method for dealing with chronological uncertainty in stratigraphic datasets (short paper)
- 10.30-11.00 Coffee break
- 11.00-11.20 Green, C.: It's about time: temporality and intra-site GIS (short paper)
- 11.25-11.45 Crema, E. R.: Integrating temporal uncertainty in first and second order spatial analysis (short paper)
- 11.50-12.10 Whitley, T. G.: Uncertainty on the local scale: Defining households and task areas from complex spatial contexts (short paper)
- 12.30-14.00 Lunch break
- 14.00-14.20 Fischer, L.: eWilliamsburg: Mapping spatial and temporal uncertainty for an eighteenth-century town (long paper)
- 14.25-14.55 Van Leusen, M., Kamermans, H., Verhagen, P., Ducke, B. & Millard, A.: The bumpy road to incorporating uncertainty in predictive modelling (long paper)

LANDSCAPE ARCHAEOLOGY AND THE EMERGING NEW LANDSCAPE OF THE DIGITAL WORLD

Chairs: József LASZLOVSZKY – Péter SZABÓ

April 3, Thursday

- 9.00-9.20 Löwenborg, D.: GIS and the chronological classification of prehistorical burial grounds (short paper)
- 9.25-9.45 Pescarin, S.: Explicit theoretic pipeline: GIS analysis and data integration for archaeological landscape integration (short paper)
- 9.50-10.10 Szabó, P. & Müllerová, J.: Ancient woodland, landscape archaeology and GIS: Towards an integrated approach (short paper)
- 10.30-11.00 Coffee break
- 11.00-11.20 Roubis, D., Sogliani, F., Gabellone, F. & Gnesi, D.: Archaeological landscapes through GIS and Virtual Reality: A case study on the monastic site of Jure Vetere (Calabria - Italy) (short paper)
- 11.25-11.55 Lock, G. & Pouncett, J.: Modelling colluviation: land use and landscape change in the South Cadbury Environs (long paper)
- 12.00-12.20 Mantellini, S., Rondelli, B. & Stride, S.: Analytical approach for representing the ancient water landscape evolution in Samarkand Oasis (Uzbekistan) (short paper)
- 12.30-14.00 Lunch break
- 14.00-14.20 De Laet, V., Paulissen, E., Vanhaverbeke, H. & Waelkens, M.: Evolution of environmental settlement strategies in the territory of Sagalassos (SW Turkey) from Hellenistic to Early Byzantine times (short paper)
- 14.25-14.45 Fiz, I., Palet, J. M. & Orengo, H. A.: The making of the Roman landscape: Conceptual investigations into the genesis of centuriated field systems (short paper)
- 15.30-16.00 Coffee break

VISUALIZING ANCIENT SPACES: VIRTUAL RECONSTRUCTIONS OF ARCHAEOLOGICAL SITES

Chairs: Alyson GILL – Arne FLATEN

April 3, Thursday

- 16.00-16.30 Tímár, L.: A computer aided study of Late Iron Age buildings (long paper)
 16.35-17.05 Brizzi, M., D'Andrea, A., De Silva, M. & Sepio, D.: Towards the 3D GIS: The information system of the Insula Orientalis I at Herculaneum (long paper)
 17.10-17.30 Fantini, F. & Pini, S.: Optimized 3D models for knowledge and distribution of archaeological sites: *Villa Adriana's Serapeo* (short paper)

April 4, Friday

- 9.00-9.20 Rua, H. & Alvito, P.: Living the past: Rebuilding and understanding our history by use of virtual models. The case study of the Roman villa of Freiria (short paper)
 9.25-9.55 Gabellone, F.: Virtual Cerrate: A DVR-based knowledge platform for an archaeological complex of the Byzantine Age (long paper)
 10.00-10.20 Agapiou, A., Doulamis, N., Georgopoulos, A., Ioannides, M. & Ioannidis, Ch.: Three dimensional reconstruction for Cultural Heritage visualization - Application to the Byzantine churches of Cyprus (short paper)
 10.30-11.00 Coffee break
 11.00-11.20 Scafuri, M. P.: Surface topography and ship hulls: The use of white-light scanning technology to capture detailed archaeological data from the hull of the American Civil War submarine *H.L. Hunley* (short paper)
 11.25-11.45 Jacobsen, M.: Advantages and limitations of using white-light technology to analyze and interpret an archaeological site: A case study from the excavation of the American Civil War Submarine *H.L. Hunley* (short paper)
 12.30 Lunch break

INTRA-SITE ANALYSIS AND GIS IN ARCHAEOLOGY

Chair: Hans KAMERMANS

April 4, Friday

- 9.00-9.30 Sañudo Die, P.: Methods for the study of intrasite spatial patterning in Palaeolithic sites. A case study of level IV Bolomor Cave (Valencia, Spain) (long paper)
- 9.30-9.50 Pizziolo, G. & Viti, S.: A 3D perspective in the interpretation of living floor morphology: Intrasite analysis of prehistoric contexts (short paper)
- 9.50-10.10 Menozzi, O. & Fossataro, D.: GIS project in Cyrenaica: From a 'macro-GIS' of the survey to the intra-site analysis of the excavation: Problems and proposals (short paper)
- 10.10-10.30 Martinelle, K.: Predictive modelling in Swedish contract archaeology? (short paper)
- 10.30-11.00 Coffee break

GIS AND RASTER DEM BASED RESEARCH IN LANDSCAPE ARCHAEOLOGY

Chair: Gary LOCK

April 4, Friday

- 11.00-11.30 Andresen, J.: Least Cost Path – An incomplete model (long paper)
- 11.30-12.00 Posluschny, A. & Herzog, I.: Tilt – Slope-dependent Least Cost Path calculations revisited (long paper)
- 12.00-12.30 Herzog, I.: A comparison of slope-dependant cost functions (long paper)
- 12.30-14.00 Lunch break
- 14.00-14.20 Zamora, M.: Sound methods for viewshed studies in archaeology: The vertical angle (short paper)
- 14.20-14.40 Megarry, W. P.: Pastoralism and peak: A GIS study into the origins of Minoan peak sanctuaries in Eastern Crete (short paper)
- 14.40-15.10 Sarris, A., Kakoulaki, G. & Panagiotakis, N.: Reconstructing the Minoan communication network in Central Crete (long paper)
- 15.10-15.30 Korobov, D.: The investigation of the Early Medieval system of signalisation in the Kislovodsk basin (Southern Russia) with the help of GIS (short paper)
- 15.30-16.00 Coffee break
- 16.00-16.20 Bődöcs, A.: r.calc.ItinerariumAntonini – Raster based GIS survey on the Pannonian data of the Itinerarium Antonini (short paper)
- 16.20-16.40 Soro, L.: Experimental Land Evaluation in Archaeology: an application to model the accessibility of Nuragic sites with Mycenaean material in Sardinia (short paper)
- 16.40-17.00 Sauerbier, M., Fasler, D. & Della Casa, P.: GIS-based investigation of influencing factors for Alpine Bronze Age landuse (short paper)
- 17.00-17.20 Kondo, Y., Ako, T., Heshiki, I., Matsumoto, G., Seino, Y., Takeda, M. & Yamaguchi, H.: FIELDWALK@KOZU: A preliminary report of the GPS/GIS-aided walking experiments for re-modeling prehistoric pathways at Kozushima Island (East Japan) (short paper)

DATA MANAGEMENT SYSTEMS FOR ARCHAEOLOGICAL EXCAVATIONS

Chair: Stuart EVE

April 4, Friday

- 9.00-9.20 Bru Castro, M. Á., López Quiroga, J., Farjas Abadía, M., Zancajo Jimeno, J. J. & Martínez Tejera, A. M.: Cultural Resource Management Medieval Team: Projects and applications in the Iberian Peninsula (short paper)
- 9.25-9.45 Domboróczy, L. & Ritz, H.: Computerised method for storing, analysing and presenting archaeological data: Case studies from Heves County (NE Hungary) (short paper)
- 9.50-10.10 Füköb, D.: Complex analysis of digital archaeological data: A digital documentation system for spatial and stratigraphical analysis on a multi-layer Bronze Age settlement (short paper)
- 10.30-11.00 Coffee break
- 11.00-11.20 Holl, B. & Szentpéteri, P.: Creation of the GIS for the archaeological investigation of a major administrative centre in the Carpathian Basin: Solt–Tételhegy (County Bács-Kiskun, Hungary) (short paper)
- 11.25-11.45 Tari, E., Kulcsár, V., Mérai, D., Patay, R., Bodnár, K., Horváth, E., Kalmár, J., Kőrösi, A., Molnár, F., Nagy B., Pánczél, Sz., Péterdi, B. & Szilágyi, V.: Pressed towards new approaches: A Late Sarmatian pottery centre at Üllő (MO) (short paper)
- 11.50-12.10 Veszprémi, L., Istvánovits, E. & Almássy, K.: On the cooperation of GIS and archaeology in the Szabolcs-Szatmár-Bereg County section of Motorway M3 (NE Hungary) (short paper)
- 12.10-12.30 Hunt, G.: It's not all academic: The Prescott Street excavation – a case study from the commercial sector (short paper)
- 12.30-14.00 Lunch break
- 14.00-14.30 Laurent, A.: Evaluating the archaeological potential of soil in urban context (long paper)
- 14.35-14.55 Uotila, K.: The outer yard of the medieval nunnery – Naantali Churchyard excavations in 2005-2007 (short paper)
- 15.00-15.20 Virágos, G.: The giant standing on soft clay legs: data-capturing, data-management, excavations and the protection of archaeological sites in Hungarian archaeology in the first decade of the third millennium (short paper)

- 15.30-16.00 Coffee break
- 16.00-16.20 Ziegler, S. & Bruhn, K.-C.: Mapping 38 years of excavation: The dissemination of vector-data from Elephantine, Egypt (short paper)
- 16.25-16.45 Battini, C.: Mobile devices: manage, organize and share information from anywhere. The example of the Great Thermal Baths of Villa Adriana (short paper)
- 16.50-17.10 Merico, D. & Mantegari, G.: Mobile data collection on the field: the RDArcheo application (short paper)
- 17.15-17.35 Rains, M.: Digital Pens and Paper – a high tech development of a familiar low tech recording tool (short paper)

April 5, Saturday

- 9.00-9.20 Kocsis, L.: Unresolved problems of the large-surface excavations preceding linear track and green-field investments (short paper)
- 9.20-9.40 Husi, P. & Rodier, X.: ARSOL: an archaeological data processing system (short paper)
- 9.40-10.00 Isaksen, L. Martinez, K. & Earl, G.: The use of network analysis and the semantic web in archaeology: current practice and future trends (short paper)
- 10.00-10.20 Holmen, J. & Ore, C.-E.: Digitization of archaeology – Is it worth while? (short paper)
- 10.30-11.00 Coffee break

TOWARDS A TOTAL ARCHAEOLOGICAL RECORD: HIGH PRECISION SURVEY AND INTEGRATED ARCHAEOLOGICAL RECORDING

Chair: Graeme CAVERS

April 4, Friday

- 9.00-9.20 Cavers, G.: Towards a total archaeological record: Terrestrial laser scanning and archaeological recording at Keiss, Caithness, Scotland (short paper)
- 9.25-9.45 Carver, G.: Digging deeper: Moving beyond the surface paradigm in stratigraphic recording (short paper)
- 9.45-10.15 Corns, A. & Shaw, R.: Terrestrial laser scanning is an expensive technology with some serious limitations. Does balloon-based digital photogrammetry offer a low cost alternative in recording excavations? (long paper)
- 10.30-11.00 Coffee break
- 11.00-11.20 Verdiani, G. & Tioli, F.: Villa Adriana in Tivoli: Four years of digital surveys and research growth (short paper)
- 11.25-11.45 Farjas, M., Rejas, J. G., Burillo, F., López, R., Cano, M. A., Sáiz, M. E., Mostaza, T. & Zancajo, J. J.: Short range photogrammetry and remote sensing application in the Celtiberian city of Segeda (short paper)
- 11.50-12.10 Cothren, J., Goodmaster, C., Barnes, A., Ernenwein, E., Vranich, A., Limp, W. F. & Payne, A.: Fusion of 3D data at Tiwanaku: An approach to spatial data integration (short paper)
- 12.10-12.30 Barton, J. & Wordsworth, P.: Multi-Scalar GIS at Merv, Turkmenistan: bringing it all together (short paper)
- 12.30-14.00 Lunch break
- 14.00-14.20 Corns, A. & Shaw, R.: High resolution airborne LiDAR for the recording of archaeological monuments (short paper)
- 14.25-14.45 Bruhn, K.-C.: Digital epigraphy and autopsy at the Tomb of Menna (TT69), Egypt (short paper)
- 14.50-15.10 Kersten, T., Lindstaedt, M., Mechelke, K., Götting, M. & Heiden, R.: Virtual 3D model of the antique temple construction in Sirwah (Republic of Yemen) for archaeological object documentation by terrestrial laser scanning and digital photogrammetry (short paper)

- 15.10-15.30 Fossataro, D. & Bombardieri, L.: Kouris Valley Survey Project (Cyprus): Modelling methodologies, GIS and database on the bases of the local rules (short paper)
- 15.30-16.00 Coffee break
- 16.00-16.20 Jang, J. & Fan, I.: GIS Technology and CMS Application in Archaeology site management and research (short paper)
- 16.25-16.45 Susca, F., Piras, F. & Guccini, G.: The stone of the elephant, from the survey to the modelling (short paper)
- 16.50-17.10 Czajlik, Z. & Holl, B.: The GIS background of archaeological field walkings in less known areas (short paper)

April 5, Saturday

- 9.00-9.20 Eke, I. & Kvassay, J.: Primary experiences of using mobile GIS applications in field survey, and integration into an archaeological GIS in Zala County, Hungary (short paper)
- 9.25-9.45 Kamarási, A. & Türk, A.: Archaeological survey and GIS in Csongrád County, SE Hungary (short paper)
- 9.50-10.10 Koshlenko, G., Gaibov, V. & Trebeleva, G.: Creation and application of archaeological geoinformational system of Margiana (short paper)
- 10.30 Coffee break

APPLICATION OF ACCEPTED STANDARDS IN DATA MANAGEMENT

Chair: Guus LANGE

April 4, Friday

- 14.00-14.20 Martínez-Carrillo, A.: Computer applications in archaeological pottery: A review and new perspectives (short paper)
- 14.20-14.40 Mitcham, J.: Digital archiving at the archaeology Data Service: a quest for OAIS compliance (short paper)
- 14.40-15.00 Miu, C. & Sandric, B.: From paper to online database: Access and long-term preservation of archaeological information (short paper)
- 15.00-15.20 Olsen, H. R. & Eve, S.: Cross-border data sharing: A case study in interoperability and Web services (short paper)
- 15.30-16.00 Coffee break
- 16.00-16.20 Rabinowitz, A. & Sedikova, L.: On whose authority? Interpretation, narrative, and fragmentation in digital publishing (short paper)
- 16.20-16.40 Sueur, C., Wansleben, M. & Verhagen, P.: Setting a standard for the exchange of archaeological data in the Netherlands (short paper)
- 16.40-17.00 Toubekis, G., Spaniol, M., Cao, Y., Klamma, R., Jansen, M. & Jarke, M.: ACIS: A collaborative hypermedia geospatial community information system of Afghan monuments and sites (short paper)
- 17.00-17.20 Wagner, S., Hörr, C., Brunner, D. & Brunnett, G.: What you give is what you get: Multitype querying for pottery (short paper)

BIOARCHAEOLOGY AND TECHNOLOGY

Chair: László BARTOSIEWICZ

April 5, Saturday

- 9.00-9.20 Rovner, I.: Eliminating typology and its myths in bioarchaeology: Computer methods for achieving a true Darwinian science (short paper)
- 9.20-9.40 Csippán, P.: TOOLACE 1.0, a Microsoft Access based multidisciplinary application in bone tool researches (short paper)
- 9.40-10.00 Benazzi, S., Fantini, M., De Crescenzo, F., Mallegni, F., Persiani, F. & Gruppioni, G.: A new method for human evolutionary systematics based on virtual 3D analysis of first molars (short paper)
- 10.00-10.20 Benazzi, S., Orlandi, M., Bonetti, C. & Gruppioni, G.: Evaluating humeral bilateral asymmetry by means of a virtual 3D approach (short paper)
- 10.30-11.00 Coffee break

FEEDING THE BEAST: INTEGRATION AND ANALYSIS OF NEW DATA TYPES INTO GIS

Chairs: Ignacio FIZ – Hector A. ORENGO

April 5, Saturday

- 9.00-9.30 De Silva, M.: Synergy and interaction: The value of using historical sources in archaeological landscape studies (long paper)
- 9.30-9.50 Paveggio, A., Cresci Marrone, G., Traviglia, A. & Tirelli, M.: GIS and epigraphy: A new approach to the study of sepulchral inscriptions. The Altino case (short paper)
- 9.50-10.10 Smejda, L.: Archaeological spaces and their exploration in GIS: A case-study of intra-site cemetery analysis (short paper)
- 10.10-10.30 Orengo, H. & Fiz, I.: Integrating artistic representations into a GIS-managed environment (short paper)
- 10.30-11.00 Coffee break
- 11.00-11.30 Mantegari, G., Mosca, A., Rondelli, B. & Vizzari, G.: A semantic based approach to GIS: the PO-BASyN Project (long paper)
- 11.30-11.50 Bonzano, S.: Complex social landscape's data in GIS: A cognitive-processual methodology (short paper)
- 11.50-12.10 Hiebel, G. & Hanke, K.: Concept for an ontology based WebGIS information system for HiMAT (short paper)
- 12.30-14.00 Lunch break

FREE GIS AND ARCHAEOLOGY

Chair: Agustin DIEZ-CASTILLO

April 5, Saturday

- 11.00-11.20 Bordonì, L. & Colagrossi, A.: Exploiting the cultural assets by open-source webGIS technologies: the case of the Roman aqueducts (short paper)
- 11.25-11.45 Bronk-Zaborowska, K.: You got what you've paid for? Free GIS in Cultural Heritage Management (short paper)
- 11.50-12.10 Larsson, N.: Open source GIS in practical use – experiments and experiences from Hungary (short paper)
- 12.30-14.00 Lunch break
- 14.00-14.30 Mantegari, G. & De Salvo, M.: Free and open source webGIS solutions for the PO-BASyN Project (long paper)
- 14.35-14.55 Diez-Castillo, A.: Can FOSS4G (Free and Open Source Software for Geospatial Data) and INSPIRE help out archaeology? (short paper)

STATISTICS AND MATHEMATICAL MODELLING IN ARCHAEOLOGY

Chair: Irmela HERZOG

April 5, Saturday

- 11.00-11.20 Adi, B. & Valdes, M.: Retrieving the Past from Stones: An application of non-parametric statistics to the study of Jomon stone assemblages in prehistoric Japan (short paper)
- 11.25-11.45 Crandell, O.: A statistical algorithm for use in provenancing silicate artefacts based on chemical analysis data. Examples of application using XRF and INAA (short paper)
- 11.50-12.10 Di Ludovico, A.: Experimental approaches to glyptic art by the use of Artificial Neural Nets. Investigation on the Ur III iconological context (short paper)
- 12.30-14.00 Lunch break
- 14.00-14.20 Eliuk, S. & Boulanger, P.: Algorithmic Reconstruction of Broken Fragments (short paper)
- 14.25-14.55 Siklósi, Zs.: The potentials and limits of different quantitative approaches to mortuary analysis: a case study from the Late Neolithic Carpathian Basin (long paper)
- 15.30-16.00 Coffee break

SPATIAL ANALYSIS IN PAST BUILT SPACES

Chairs: Eleftheria PALIOU – Hans KAMERMANS

April 5, Saturday

- 11.00-11.20 Hacigüzeller, P.: Visibility analysis at Protopalatia Malia (short paper)
- 11.20-11.50 Monti, A.: Space, functions and human behavioural strategies: the “analisi funzionale tattica” as tool for the understanding and explanation of the ancient and medieval fortifications (long paper)
- 11.50-12.10 Gill, A.: Chattering in the baths: The urban greek bathing establishment and social discourse in Classical Antiquity (short paper)
- 12.10-12.30 Alamouri, A. & Gruendig, L.: Generation of a 3D-model of Baalbek to analyse the historical development of the city using non-calibration, historical photos (short paper)
- 12.30-14.00 Lunch break
- 14.00-14.20 Dawson, P. C., Levy, R. M., Arnold, C., Oetelaar, G. & Lacroix, D.: Documenting Mackenzie Inuit architecture using 3D laser scanning (short paper)
- 14.25-14.45 Levy, R. M. & Dawson, P. C.: Using 3D finite element analysis techniques for testing the structural stability of the Thule whalebone houses (short paper)
- 14.50-15.10 Pafort, C.: Building castles on the cheap: A critical evaluation of low-cost 3D-modelling (short paper)
- 15.30-16.00 Coffee break

AUTHENTICITY AND ACCURACY OF VIRTUAL RECONSTRUCTIONS – A CRITICAL APPROACH

Chair: Zsolt VASÁROS

April 5, Saturday

- 9.00-9.20 Zarmakoupi, M.: The digital model of the Villa of Papyri: Issues of reconstruction (short paper)
- 9.20-9.40 Beale, G.: An Archaeology of the Mundane: Interpretation and reconstruction of the Grandi Magazzini di Settimio Severo at Portus, Italy (short paper)
- 9.40-10.00 Beusing, R.: Managing the uncertain in archaeological virtual environments for educational purpose: the Glauberg VE (short paper)
- 10.00-10.20 Hill, D.: Surfaces as a medium to project excavation generated plans onto 3D Space (short paper)
- 10.30-11.00 Coffee break
- 11.00-11.20 Kayalar, C., Kavlak, A. E. & Balcisoy, S.: Augmented reality based user interfaces to assist fieldwork on excavation sites (short paper)
- 11.20-11.40 Hermon, S.: Standards, scientific reliability, uncertainty and 3D visualization for Cultural Heritage (short paper)
- 11.40-12.00 Johnson, D.: Standards, methods and criteria for testing the dimensional accuracy and completeness of computer-modeled archaeological reconstructions (short paper)

ARCHAEOLOGICAL RESULTS OF REMOTE SENSING METHODS

Chair: Zoltán CZAJLIK

April 5, Saturday

- 9.00-9.20 T. Láng, O.: Pointclouds and radar-waves: Applying new technologies in preventive excavations of Roman sites in Aquincum, Budapest (short paper)
- 9.20-9.40 Kurri, I.: Use of imaging total station and photogrammetry in wall documentation, case: Suomenlinna Sea Fortress (short paper)
- 9.40-10.00 Anders, A., Czajlik, Z., Csányi, M., Kalicz, N., Nagy, E. Gy., Raczky, P. & Tárnoki, J.: Cadastre of tell settlements in Hungary (short paper)
- 10.00-10.20 Czajlik, Z. & Tímár, L.: The role of photomaps in archaeological survey (short paper)
- 10.30-11.00 Coffee break
- 11.00-11.20 Siart, C., Eitel, B., Hecht, S. & Schukraft, G.: Reconstruction of the geoarchaeological landscape of Zominthos (central Crete) using geophysical prospection, geomorphological investigations and GIS (short paper)
- 11.20-11.40 Salvini, R., Salvi, M. C., Bonaccini, F., Kozciak, S., Gruppioni, G., Gallotti, R. & Piperno, M.: Safeguard of archaeological heritage in Ethiopia: Satellite photogrammetry for the archaeological map of Melka Kunture Palaeolithic site (short paper)
- 11.40-12.00 Alexakis, D., Sarris, A., Astaras, Th. & Oikonomidis, D.: Detection of Neolithic settlements in Thessaly, Greece through multispectral and hyperspectral satellite imagery (short paper)
- 12.00-12.20 Verdonck, L.: Using the three-dimensional capabilities of GPR to reinterpret the Roman town of *Mariana* (Corsica) (short paper)
- 12.30-14.00 Lunch break
- 14.00-14.20 Kaimaris, D., Georgoula, O., Karadedos, G. & Patias, P.: Locating an unknown archaeological site in the valley of Filippoi, East Macedonia, Greece (short paper)
- 14.20-14.40 Orengo, H. & Palet, J. M.: Multispectral satellite imagery and the detection of subsurface Roman field systems (short paper)
- 15.30-16.00 Coffee break

ALTERNATIVE ONTOLOGIES AND APPROACHES TO DATA MANAGEMENT AND DATA SHARING

Chair: Bernard FRISCHER

April 5, Saturday

- 9.00-9.30 Jeffrey, S., Richards, J., Ciravegna, F., Waller, S., Chapman, S., Zhang, Z. & Austin, T.: When ontology and reality collide: The Archaeotools project, faceted classification and natural language processing in an archaeological context (long paper)
- 9.30-9.50 Johnson, I.: Heurist: Integrating bibliographic and research data in a Web 2.0 participatory framework (short paper)
- 9.50-10.20 Kilbride, W., McAdam, E., Riley, K. & Hawkins, T.: Towards an accessible collection: What the standards won't tell you and why this matters for large scale archaeological projects (long paper)
- 10.30-11.00 Coffee break
- 11.00-11.30 Mudge, M., Ashley, M. & Schroer, C.: Not All Content is 'Born Archival': Empirical acquisition, scientific reliability, and long-term digital preservation (long paper)
- 11.30-11.50 Richards, J., Winters, J. & Charno, M.: Making the LEAP: Linking electronic archives and publications (short paper)
- 11.50-12.10 Andreussi, M.: The combination of topographical, epigraphical and literary data on ancient Aventine in Rome with interactive maps (short paper)
- 12.30-14.00 Lunch break

CIDOC CRM IN DATA MANAGEMENT AND DATA SHARING

Chair: Stephen STEAD

April 5, Saturday

- 14.00-14.20 D'Andrea, A.: Standardization or mapping? Some considerations on CIDOC-CRM extensions and alignments (short paper)
- 14.20-14.40 Eckkrammer, F., Eckkrammer, T. & Feldbacher, R.: Data sharing between different databases by using an ISO 21127 related data format (short paper)
- 14.40-15.10 May, K.: A STAR is born: Some emerging semantic technologies for archaeological resources (long paper)
- 15.10-15.30 Perlingieri, C.: A CIDOC-CRM model for Egyptian Middle Kingdom pottery: Archaeological theory and ontological practice (short paper)
- 15.30-16.00 Coffee break