**SESSION 1A**

**DIGITAL FRONTIERS IN MARITIME ARCHAEOLOGY**

**ORAL PRESENTATION**

**ØYVIND ØDEGÅRD, ASGEIR J. SØRENSEN, MARTIN LUDVIGSEN, STEIN M. NORNES**

*Underwater Robotics in Marine Archaeology*

**MADELINE MCALLISTER**

*Virtual diving: Analysis of the archaeological value in image-based digital recording and reconstruction of underwater shipwreck sites in Western Australia*

**ARIANNA TRAVIGLIA**

*Sensing and visualising underwater and tidal landscapes: digital approaches to research submerged environments*

**CRYSTAL SAFADI**

*An evaluation of the maritime accessibility and protection afforded by bronze age and iron age levantine harbours*

**CHIARA ZAZZARO, J.P. COOPER, A. WETHERELT**

*3D Laser scanning recording of traditional boats for the Qatar National Museum*

**PAT THOMAS TANNER**

*3D Scanning, Contact Digitising and Advanced 3D Digital Modelling for the reconstruction and Analysis of Boats and Ships*

**CARLO BELTRAME**

*Underwater photogrammetry applied on two cargos of marble of Roman age*

**MASSIMILIANO SECCI, PIER GIORGIO SPANU**

*An expeditious procedure for 3D recording in situ underwater cultural heritage. A matter of method and theory*

**DOMINIQUE RISSOLO, ALBERTO NAVA BLANK, VID PETROVIC, MICHAEL BIANCO, PERRY NAUGHTON, ERIC LO, FALKO KUESTER, ROBERTO CHAVEZ ARCE**

*Refining techniques for underwater structure-from-motion (SfM) image acquisition and processing with a focus on noise characterization, mitigation, and removal*

**SESSION 1B**

**THE CHALLENGE OF THE PREVENTIVE ARCHAEOLOGY : EFFICIENCY AND QUALITY**

**ORAL PRESENTATION**

**ANN DEGRAEVE**

*Preventive archaeology : how can we bridge the digital gap*

**MAXIME SEGUIN, YARAMILA TCHEREMISSINOFF**

*A systematic photogrammetric survey in a context of preventive archaeology : the collective grave of « Cavalade-mas-rouge"*

**RUPERT GIETL, LUCA BEZZI, ALESSANDRO BEZZI**

*Preventive archaeology along the WW1 high alpine frontline. Challenges, approchaes, limitations*

**ENRICO PETRUZZI**

*Collecting, managing and sharing archaeological data : preventive archaeology in a urban context. Porto Torres, Sardinia, Italy*

**POSTER**

**JEAN-PHILIPPE CHIMIER, THOMAS POUYET**

*Working with preventive archaeological data in the research programm EVENA : an efficient cas*

**FREDERIC AUDOUIT, VÉRONIQUE VACHON**

*Topograhy in preventive archaeology : operating more integrated into GIS and archaeological information system*

**SYLVAIN BADEY, XAVIER RODIER**

*Spatial analysis for an efficient use of data from trial trenching*

**ELLÉBORE SEGAIN, VÉRONIQUE VACHON**

*Recording data and managing the field : another use of the GIS-DBMS systme in preventive archaeology*

**CORINA IOANA BORS, LUCIANA ADELA RUMEGA-IRIMUS, VLAD RUMEGA-IRIMUS**

*Large scale archaeological preventive excavations in Romania. The case study of the middle Hallstatt site Tartaria-Podu Tartariei vest*

**SESSION 2A**

**INTERDISCIPLINARY METHODS OF DATA RECORDING, MANAGEMENT AND PRESERVATION**

**ORAL PRESENTATION**

**LIAT WEINBLUM, STEFAN MÜNGER**

*DANA (Digital Archaeology and National Archives) – A New Software Tool for Field Archaeologists*

**FRANCESCA ANICHINI, GABRIELE GATTIGLIA**

*Preserving Italian archaeological open data: the MOD solution.*

**GIULIANO DE FELICE, ANDREA FRATTA**

*A dig in archive. The case of Herdonia*

**KANG LI**

*Computer-assisted archaeological line drawing by viewpoint-related feature extracting method*

**ENORA MAGUET**

*Palaeoenvironmental records and PHP possibilities: results and perspectives on an online bioarcheological database*

**SMARAGDI PAPAGIANNOPOULOU, NIKI NAOUMIDOU**

*When Archeology and Conservation meets in a cultural information system for movable archaeological finds so-called: Mnemosyne*

**ARIANNA TRAVIGLIA, STEPHEN WHITE, ANDREW WILSON, BEATRICE MCLOUGHLIN**

*Digital laboratory recording: workflows and data models for artefact processing*

**ANDREA BARDI, LUISA DALLAI, ALESSANDRO DONATI, VANESSA VOLPI**

*Archaeological and physicochemical approaches to the territory: on-site analysis and muldisciplinary databases for the reconstruction of historical landscapes*

**JEAN-YVES BLAISE**

*Putting architectural changes into context: the historySkyline visual metaphor*

**MICHAŁ GILEWSKI**

*Slow-motion videography and recording experimental archaeology*

**TIINA VÄRE, JAAKKO NIINIMÄKI, MILTON NÚÑEZ, MARKKU NISKANEN, SANNA LIPKIN, SIRPA NIINIMÄKI, MATTI HEINO, ANNEMARI TRANBERG, ROSA VILKAMA, SAARA TUOVINEN, TIMO YLIMAUNU, TITTA KALLIO SEPPÄ, JUHO ANTTI JUNNO**

*Virtual excavation of burials utilizing computed tomography imaging*

**THOM CORAH, DOUGLAS CAWTHORNE**

*Driving Engagement in Heritage Sites Using Personal Mobile Technology*

**CYNTHIA MASCIONE, LUCA PASSALACQUA, ROSSELLA PANSINI**

*Integrated methodologies for the reconstruction of the ancient city of Lixus (Morocco)*

**ANAIS GUILLEM, DEJAN VERANIČ, ROKO ZARNIC**

*UNESCO World heritage serial property Prehistoric Pile Dwellings around the Alps, Monitoring of pile dwelling near Ig, in Ljubljana Marsh Nature Park with photogrammetry and BIM approach.*

**POSTER**

**DOMENICO CANTONE, MARIANNA NICOLOSI-ASMUNDO, DANIELE FRANCESCO SANTAMARIA, FRANCESCA TRAPANI**

*An ontology for ceramics cataloguing*

**JOSEP MARIA PUCHE, FELIPE BUILL, Mª AMPARO NÚÑEZ, JOSEP Mª MACIAS, JOSEP Mª TOLDRÀ, PAU DE SOLÀ-MORALES**

*Beyond the point cloud. Without leaving the point.*

**PETRA JANOUCHOVÁ, BARBORA WEISSOVÁ**

*Linking of heterogeneous archaeological and historiographical data: case study of Yambol region, Bulgaria*

**MONICA GIULIANO**

*A multidisciplinary approach for virtual reconstruction*

**SESSION 2B**

**INTEGRATING 3D DATA FROM FIELD ARCHAEOLOGY**

**ORAL PRESENTATION**

**MARIA DORIANA DE PADOVA**

*Re-shaping the excavation - The use of Computer Vision to bring back to life everyday tools and burial contexts*

**ROOSJE DE LEEUWE**

*Integration of 3D scans, photogrammetry and Total Station data in forensic archaeological case work*

**KATIE SIMON, EILEEN ERNENWEIN, CHISTOPHER ANGEL, CHRISTINE MARKUSSEN**

*Integrating remotely sensed surface and subsurface data in three dimensions for a new look at old spaces*

**ARIAN GOREN, KAY KOHLMEYER, THOMAS BREMER, SUSANNE BRANDHORST, ARIE KAI-BROWNE, ALEXANDER HENNIG, FELIX BALDA, DAVID STRIPPGEN, SEBASTIAN PLESCH**

*Past progressive: Interacting with simulated archaeological assets*

**LOES OPGENHAFFEN, MARTINA REVELLO LAMI**

*Pottery goes digital. 3D laser scanning technology and the study of archaeological ceramics*

**POSTER**

**SIMONE GIANOLIO, GUGLIELMO GENOVESE, FRANCESCA MERMATI**

*New data for the plan of Forum Boarium in Rome*

**PAT THOMAS TANNER**

*From initial site survey to 3D digital reconstruction*

**MERIEM ZAMMEL**

*Photomodeling and cloud computing application in the survey of the roman theater of Uthina architectural elements*

**LEONARDO BAGLIONI, CARLO INGLESE, MATTEO FLAVIO MANCINI**

*Topography, Laser Scanning and Automated Photogrammetry for an Integrated Survey methodology: survey and modeling of the Roman amphitheater in Syracuse*

**YONG ZHU**

*3d interactive Terracotta Warriors site scene roaming system*

**ŁUKASZ MISZK, WERONIKA WINIARSKA, PAWEŁ ĆWIĄKAŁA, WOJCIECH MATWIJ, KAROLINA MATWIJ**

*3D database for Agora Nea Paphos. Case study*

**ANGELA BOSCO, MARCO BARBARINO, ROSARIO VALENTINI**

*Pompei, Domus di Stallius Eros: a comparison between terrestrial and aerial low-cost surveys*

**ENEKO CALONGE MAESTRO, PABLO ROMERO PELLITERO, JOSÉ MARÍA MARTÍN CIVANTOS**

*Archaeological 3d stratigraphic sequence modeling by structure from motion (sfm) techniques: practical experience in medieval sites*

**EVA BUTINA**

*From historic data to representation of 3D models during archaeological excavation process: Benefits and limitations of use of proprietary software for archaeological data management*

**ANDREI CÎMPEANU, OVIDIU ȚENTEA**

*Master Problems of a master plan*

**SESSION 2C**

**SUPPORTING RESEARCHERS IN THE USE AND RIUSE OF ARCHAEOLOGICAL DATA**

**ORAL PRESENTATION**

**SORIN HERMON, FRANCO NICCOLUCCI**

*The problem with simpl(istic) fundamental concepts in archaeology and their formal representation in a digital environment ­ the case of archaeological site*

**NIKOLAOS A KAZAKIS, NESTOR C TSIRLIGANIS**

*Scientific Datasets in Archaeological Research*

**GISLI PALSSON**

*From Site to SEAD: bridging the gaps between fieldwork, laboratory analysis and online archiving*

**KEITH MAY**

*Paths through the Labyrinth: Finding ways to express data from differing archaeological recording methodologies to enable cross-search and reuse*

**ANGELA TRENTACOSTE, SARAH WHITCHER KANSA, ERIC C. KANSA, ANTHONY TUCK**

*Linked Open Data in the Etruscan World: A Zooarchaeology Case Study*

**STEPHEN STEAD, DOMINIC OLDMAN, JONATHAN WHITSON CLOUD**

*Exploring inferences, time and space in the annotation of museum catalogues: The Sloane catalogues*

**MARIA THEODORIDOU, MARTIN DOERR, EDELTRAUD ASPÖCK, ANJA MASUR**

*Mapping archaeological databases to CIDOC-CRM*

**CERI BINDING, DOUGLAS TUDHOPE**

*Connecting ARIADNE vocabularies for data integration and cross search*

**MATTEO DELLEPIANE, FEDERICO PONCHIO, MARCO CALLIERI, ROBERTO SCOPIGNO**

*Ariadne media service: easy publishing of advanced visual media for archeological databases*

**FABRIZIO GALEAZZI, MARCO CALLIERI, MATTEO DELLEPIANE, ROBERTO SCOPIGNO, JULIAN RICHARDS**

*ADS 3D viewer: a web-based dynamic working environment for archived 3D data*

**POSTER**

**VICTORIA DONNELLY**

*A Study in Grey: Grey literature and archaeology in England*

**ELISABETH GAVIGNET, ERIC LECLERCQ, NADINE CULLOT, MARINETTE SAVONNET, LAURE SALIGNY**

*Logics and modalities for managing uncertainty in archaeological databases*

**KARL GROSSNER, IAN HODDER, CLAUDIA ENGE**

*Towards a Living Archive for Çatalhöyük*

**BRUNO FANINI, SOFIA PESCARIN**

*Cyber Archaeology in the Cloud*

**UROS DAMNJANOVIC, SORIN HERMON, VALENTINA VASSALLO, KYRIAKI YIAKOUPI, GIANCARLO IANNONE**

*STARC repo, collaborative repository of digital heritage data*

**KAI-CHRISTIAN BRUHN, STEFANIE WEFERS**

*Salvaging TLS-Data from the terrace house 2 in Ephesos (Turkey) by annotating 3D-information and adopting a LOD approach*

**STEINAR KRISTENSEN**

*The Religion and money project; Coins found in medieval churches ­ the challenging GIS in a multidisciplinary project*

**SESSION 2D**

**2D LINKED DATA: FROM INTEROPERABLE TO INTEROPERATING**

**ORAL PRESENTATION**

**PHILIPP GERTH, SEBASTIAN CUY**

*Connecting Cultural Heritage Data: The Syrian Heritage Project in the IT infrastructure of the German Archaeological Institute*

**KARSTEN TOLLE, DAVID WIGG-WOLF**

*How to move from Relational to Linked Open Data 5 Star – a numismatic example*

**FLORIAN THIERY, THOMAS ENGEL**

*The Labeling System: A bottom-up approach for enriched vocabularies in the humanities*

**PAUL J CRIPPS, DOUGLAS TUDHOPE**

*From interoperable to interoperating Geosemantic resources; practical examples of producing and using Linked Geospatial Data*

**OLIVIER MARLET, STÉPHANE CURET, XAVIER RODIER, BÉATRICE BOUCHOU-MARKHOFF**

*Using CIDOC CRM for dynamically querying ArSol, a relational database, from the semantic web.*

**POSTER**

**RIMVYDAS LAUŽIKAS, JUSTINAS JARONIS, INGRIDA VOSYLIŪTĖ**

*Beyond the space: the LoCloud Historical Place Names microservice*

**MATTHEW LUKE VINCENT**

*OpenDig: Applying CIDOC-CRM and CRMarchaeo to in-field Data Recording*

**SESSION 3A**

**A DIALOGUE BETWEEN ARCHAEOLOGICAL SCIENCE AND COMPUTER VISUALIZATION**

**ORAL PRESENTATION**

**MER UZUNEL**

*3D Structural Analyses of Euromos Zeus Lepsynos Temple*

**ROBERTO FARINELLI**

*The urban structure by the study of medieval cadastral source. The case of Montecurliano (Grosseto – Tuscany)*

**DOUGLAS CAWTHORNE**

*Authenticating Anastylosis: Para Data in the Digital*

**STEFFAN DAVIES**

*Reconstruction of Greyfrairs Church Leicester and the Tomb of King Richard III*

**MELDA KÜÇÜKDEMIRCI, SALVATORE PIRO, NIYAZI BAYDEMIR, DANIELA ZAMUNER, ELIF ÖZER**

*The application of mathematical and statistical integration Approach on archaeological prospection data, case studies from aizanoi turkey*

**CARLOTTA CAPURRO, DRIES NOLLET, DANIEL PLETINCKX**

*ENAME 1288: A walk through Saint Saviour abbey*

**BARBARA CERASETTI**

*Hydrology and Social Transition in the late 2nd millennium BC , Murghab Alluvial Fan, Turkmenistan*

**NICHOLAS ANDRE HOLMER, KASSANDRA MCFARLAND, BUCK BENSON, HERBERT D.G. MASCHNER**

*Using online digital content as a reference collection: a critique*

**RYAN J RABETT, PAOLA DI GIUSEPPANTONIO DI FRANCO**

*Digital fauna and zooarchaeological itunes*

**JACOPO CREZZINI, FRANCESCO BOSCHIN, SIMONA ARRIGHI, MARCO GIAMELLO, ANNAMARIA RONCHITELLI**

*Zooarchaeology, Prehistoric Art and digital imaging: quantitative analysis of bone modifications using 3D microscopy*

**POSTER**

**IVAN CAMPANA**

*The 3D modelling as instrument to preserve the archaeological heritage memory. the case of KHIRBAT AL-MAFJAR*

**DARIA HOOKK, NIKOLAI NIKOLAEV**

*Computer modelling for validation of a scientific hypothesis on narrative and archaeological sources: reconstruction of the wooden objects from frozen tombs*

**UHANA KAMMONEN, TARJA SUNDELL**

*Principal component analysis of archaeological data*

**LAN RYAN SMEYATSKY, KARIM SADR, PATRICK RANDOLPH-QUINNEY**

*Stylistic variation in Later Stone Age tanged arrowheads: a pilot study using geometric morphometrics*

**LUCA BEZZI, CICERO MORAES**

*Archaeological forensic facial reconstruction with FLOSS the list of rejected abstracts*

**SESSION 3B**

**OCCUPATION FLOORS OF HUNTER-GATHERERS IN THE DIGITAL ERA**

**ORAL PRESENTATION**

**FRANCESCA ROMAGNOLI, AMELIA BARGALLÓ, MARÍA GEMA CHACÓN, MARIA JOANA GABUCIO, BRUNO GÓMEZ DE SOLER, PABLO SAÑUDO, MANUEL VAQUERO**

*A storey is a floor, but a floor could be many stories! The problem of time in the definition of occupation floor.*

**ALEJANDRO GARCÍA-MORENO, SABINE GAUDZINSKI-WINDHEUSER, JAROD HUTSON, LUTZ KINDLER, EDUARD POP, WIL ROEBROEKS, GEOFF SMITH, ELAINE TURNER, ARITZA VILLALUENGA**

*Evaluating the influence of hydrological processes on Pleistocene “occupation floors”: a comparative case study of archaeological material orientation from Schöningen 13II-4 and Neumark-Nord 2/2 (Germany).*

**JENS AXEL FRICK**

*Visualizing occupation layers in homogenous sediments: Examples from the Grottes de la Verpillière I & II, Burgundy, France*

**FABIO MARTINI, DOMENICO LO VETRO, MICHELE DE SILVA, GIOVANNA PIZZIOLO, ENRICO ORTISI, VINCENZO DE TROIA, PAOLO MACHETTI**

*Ritual use of Romito Cave during the Late Upper Palaeolithic: an integrated approach for spatial reconstruction*

**POSTER**

**DOMENICO LO VETRO, ENRICO ORTISI, CLAUDIA STRIULI, GIOVANNA PIZZIOLO, MICHELE DE SILVA, PIER FRANCESCO FABBRI, FABIO MARTINI**

*A new Palaeolithic burial from Grotta del Romito (Calabria, Italy). A digital restitution.*

**GIOVANNA PIZZIOLO, CARLO TESSARO, NICOLETTA VOLANTE**

*Exploring a Copper Age funerary site: Intra-site analysis and 3D visualisation at 'Poggio di Spaccasasso'(Grosseto, Italy)*

**SESSION 3C**

**COMPUTER AND ROCK ART STUDIES: DATA COLLECTION, INTERPRETATION AND COMMUNICATION**

**ORAL PRESENTATION**

**MARGARITA DIAZ-ANDREU, TOMMASO MATTIOLI**

*Archaeoacoustics of rock art: quantitative and qualitative approaches to the acoustics and soundscapes of rock art in the Western Mediterranean*

**JOHAN LINDERHOLM, PAUL GELADI, CLAUDIA SCIUTO**

*Field based Near Infrared analysis of Rock paintings in northern Scandinavia*

**ENRIQUE CERRILLO-CUENCA, MARCELA SEPÚLVEDA**

*Photographic recording and the digital enhancement of pigments: recent applications in the rock art of Northern Chile*

**PAOLO EMILIO BAGNOLI, ANDREA SAMUELI**

*Computer graphics-aided recording of open-air extensive rock-art panels*

**ALEXANDER PAKHUNOV**

*Simple and low-cost method for the tracking of biological activity on cave art sites*

**FRANK BOOCHS, STEFANIE WEFERS, BURKHARD TIETZ, TOBIAS REICH**

*Support of Petroglyph analysis through processing and viewing of 3D scans*

**ANDREA ARCÀ**

*Digital practices for the study of the Great Rock of the Naquane National Park, Valcamonica - Italy: from graphic rendering to figure cataloguing*

**POSTER**

**LARISA VODOLAZHSKAYA, ARTEM VODOLAZHSKIY**

*Journal AaATec - modern Internet-resource for communication in the field of archaeological studies*

**MASSIMO VANZI, PAOLO EMILIO BAGNOLI, CARLA MANNU, GIUSEPPE RODRIGUEZ**

*Photometric Stereo 3D visualizations of rock-art panels, bas-reliefs and graffiti*

**BENITO VILAS**

*A (re)view of the archaeostronomical interpretations of the deer antlers in the Galician rock art: The case of Campo Lameiro, Pontevedra.*

**JORGE ANGAS, MANUEL BEA**

*Geometric documentation and diffusion of the rock-art in Spain: ARAM project*

**SESSION 4A**

**MANAGING ARCHAEOLOGICAL 3D MODELS**

**ORAL PRESENTATION**

**ANDREA D'ANDREA**

*Providing 3D content to Europeana*

**ACHILLE FELICETTI**

*MaDAM: A new generation Digital Asset Management for Cultural Heritage*

**ATHANASIOS TSAOUSELIS, KONSTANTINOS STAVROGLOU, ANESTIS KOUTSOUDIS, FOTIOS ARNAOUTOGLOU, ANASTASIA MICHAILIDOU, DESPOINA TSIAFAKIS, CHRISTODOULOS CHAMZAS**

*The 3D Icons Portal: A Web tool for the dissemination of European 3D Cultural Heritage Objects*

**BRITT LONNEVILLE, BERDIEN DE ROO, CORNELIS STAL, BART DE WIT, ALAIN DE WULF, PHILIPPE DE MAEYER**

*Google Earth and KML as GIS tools for archaeological 3D models*

**PANAGIOTIS PARTHENIOS, KATERINA MANIA, FANI MALLOUCHOU-TUFFANO, SOCRATES YIANNOUDES, ANNA KARAGIANNI, PANAGIOTIS KOTSARINIS**

*Abstraction of information as a method for processing large amounts of data in cultural heritage*

**POSTER**

**FRANCESCO LELLA, SAVERIO GIULIO MALATESTA, ILARIA BALDINI, FRANCES PINNOCK, DAVIDE NADALI**

*Recostructing a Lost Town: The Case Study of Ebla*

**CARLO INGLESE, ANTONIO PIZZO**

*The Integrated Digital Survey As a Form of Knowledge of the Roman Bridges in Lusitania*

**LI JIJUNNAN, GENG GUOHUA, JIA CHAO, WANG XIAOFENG**

*Reappear the Qin Dynasty Architecture: Eaves Tiles Reconstruction*

**MAURICE DE KLEIJN, RENS DE HOND**

*Abstract Review - A 3D Information system for the Mapping the Via Appia project*

**MATTEO LORENZINI, RENATO GUERRUCCI**

*3D segmentation and semantical enrichment*

**FRANCESCA CARBONI**

*Ostia, Domus Fulminata (III, VII, 3-5): from traditional survey to the virtual 3D model*

**PETER RAUXLOH, MOISES HERNANDEZ CORDERO, AZIZUL KARIM**

*Beyond the academic – Photo modelling applied to complex commercial archaeology*

**SESSION 4B**

**NEW TRENDS IN 3D ARCHAEOLOGY**

**ORAL PRESENTATION**

**DIRK RIEKE-ZAPP**

*3D digitization - state-of-the-art and future challenges*

**HERBERT D.G. MASCHNER**

*A Revolution in Archaeology: 3D Technologies and the Democratization of Prehistory.*

**ROMÁN RANGEL Y JIMÉNEZ-BADILLO**

*Recognizing the shape of archaeological objects by extracting local orientations of points on the surface of 3D models.*

**GIULIANO DE FELICE**

*The new trend of 3D archaeology is … going 2D!.*

**ANDRÁS PATAY-HORVÁTH**

*Master-hand Attributions of Classical Greek Sculptors by 3D- Analysis at Olympia - Some Preliminary Remarks.*

**VALERIA VITALE**

*The Iseum in Pompeii: a case study on the use of an RDF ontology to document 3D visualisation of archaeological heritage.*

**VALERIA POSCETTI, JUAN TORREJÓN VALDELOMAR, WOLFGANG NEUBAUER, FLORIAN MARTIN MÜLLER**

*The Roman Villa of Oberlienz: A multidisciplinary 3D reconstruction.*

**RICCARDO OLIVITO, EMANUELE TACCOLA, NICCOLÒ ALBERTINI**

*Hand-free interaction in the virtual simulation of the agora of Segesta.*

**CATRIONA COOPER**

*Auralization: analysing the sound properties of cultural heritage.*

**LUIGI SAMBUELLI, ANDREA FILIPELLO, CHIARA COLOMBERO**

*Combined use of ultrasonic tests and photogrammetry in the 3D modelling of fractures. An application on the Egyptian sculpture of Uahka II.*

**CHRISTINE WITTICH, TARA HUTCHINSON**

*Dynamic Characterization and 3D Reconstructions of Massive Human-Form Archaeological Statues for Earthquake Loading.*

**PASCAL RAYMOND, AURELIA LUREAU**

*Finding the mechanical, structural and thermic stresses in an antique tile kiln with the help of photogrammetry and 3D modeling.*

**IGOR BARROS-BARBOSA, KIDANE FANTA, PANAGIOTIS PERAKIS, CHRISTIAN SCHELLEWALD, LISE KVITTINGEN, THEOHARIS THEOHARIS**

*Establishing Parameter Values for the Stone Erosion Process.*

**WILLEM VLETTER**

*An 4-D analysis of historical road and path networks.*

**POSTER**

**BERNARD D. FRISCHER**

*Digitizing the West Pediment of the Temple of Zeus at Olympia: From 3D Data Capture to Online Publication.*

**STEFANO CAMPOREALE, ROSSELLA PANSINI**

*The Capitolium of Sala (Rabat, Morocco): a new study and 3D reconstruction.*

**CRISTINA GIANCRISTOFARO, EMANUELA GRIFONI, STEFANO LEGNAIOLI, GIULIA LORENZETTI, STEFANO PAGNOTTA, LUCIANO MARRAS, GIANNA GIACHI, PASQUINO PALLECCHI, VINCENZO PALLESCHI**

*'Tomba della Scimmia' in Chiusi (SI). Photogrammetric 3D reconstruction, multispectral imaging and analysis of the painted surfaces.*

**ELENA BIONDI, ALESSANDRO BOVERO, PAOLO TRIOLO**

*Multispectral photogrammetric techniques and multispectral rti in monitoring of surfaces in archeological and cultural heritages objects: the case study of sarcophagi from egyptian museum of turin.*

**MEHDI BELARBI, AURELIA LUREAU**

*The Gothic church Saint-Pierre et Saint-Paul of Gonesse, France : photogrammetric survey of preventive excavations and online presentation.*

**GIULIO POGGI**

*Documentation and analysis workflow for the on-going archaeological excavation with Images-Based 3D modeling technique: the case-study of the medieval site of Monteleo (Italy).*

**ROBERT SCHLADER**

*Why pay to play? Comparison and contrast of Meshlab to commercial software for post processing of 3D scan data.*

**NOUR ALLAH**

*Munawar: Cultural Heritage Preservation in a Digital Context.*

**GIUSI SORRENTINO, STEFANO GIUNTOLI, STEFANO VALENTINI, CRISTINA GIANCRISTOFARO, EMANUELA GRIFONI, STEFANO LEGNAIOLI, MARTINA LEONARDI, GIULIA LORENZETTI, STEFANO PAGNOTTA, VINCENZO PALLESCHI**

*3D reconstruction and elemental analysis of the Etruscan 'Telephus mirror' of Tuscania.*

**MIGUEL BUSTO-ZAPICO, MIGUEL CARRERO-PAZOS**

*3D technology applied to quantification studies of pottery: EVE 2.0.*

**ISIDORO CAMPAÑA, ALFONSO BENITO-CALVO, JOSÉ MARÍA BERMÚDEZ DE CASTRO, ALFREDO PÉREZ-GONZÁLEZ, EUDALD CARBONELL**

*Using 3D models to analyze stratigraphic and sedimentological contexts in archaeo-palaeoanthropological Pleistocene sites (Gran Dolina site, Sierra de Atapuerca).*

**ÁNGELA CRESPO FRAGUAS, MIGUEL ÁNGEL DÍAZ MORENO, SERGIO ISABEL LUDEÑA, INÉS DEL CASTILLO BARGUEÑO, MERCEDES FARJAS ABADÍA, GUILLERMO MARTÍNEZ PARDO-GIL, ESTHER ALFONSO CARBAJOSA, CARLOS RUÍZ SERRANO**

*Arqueología del Conflicto: Aplicación de nuevas tecnologías en el yacimiento de Los Yesares, Pinto (Madrid)*

**ALBA MASCLANS, JOAN ANTON BARCELÓ, MAITE VENTURA, JUAN FRANCISCO GIBAJA**

*3D Geometric Morphometric Methodology applied to the Study of Neolithic Stone Axes.*

**JORGE ANGAS, JACOPO BRUTTINI, FEDERICO CANTINI**

*Standardization of 3D data recording and management in the archaeological excavation of the Third Courtyard of Palazzo Vecchio.*

**BRUNO FANINI, DANIELE FERDANI, EMANUEL DEMETRESCU**

*Serious games in Virtual Archaeology: a distributed workflow for 3D asset ingestion.*

**MARIUSZ WIŚNIEWSKI, WOJCIECH OSTROWSKI, BARRY MOLLOY**

*RAW file pre-processing and 3d model quality – archaeological perspective.*

**SESSION 4C**

**FORMAL APPROACHES TO VISIBILITY ANALYSIS IN ANCIENT ARCHITECTURAL SPACES AND CULTURAL LANDSCAPE**

**ORAL PRESENTATION**

**ANDREW WILSON**

*Hybrid Three-Dimensional Visibility Analysis in Archaeology*

**GIACOMO LANDESCHI, NICOLÒ DELL' UNTO, DANIELE FERDANI**

*A vector-based pipeline for assessing visibility: a 3D GIS perspective*

**HEATHER RICHARDS-RISSETTO, MICHAEL AUER, JENNIFER VON SCHWERIN, NICOLAS BILLEN, LUKAS LOOS, ALEXANDER ZIPF**

*MayaArch3D: Web based 3D Visibility Analyses in Ancient Cityscapes – the role of visible structures at the Maya Site of Copán, Honduras*

**NICOLÒ DELL' UNTO**

*Using different eyes: the case of the medieval Cathedral of Dalby*

**EDWARD PORTER TRIPLETT**

*Sensing Multiple Scales of Contested Space: Viewshed and Visibility on the Medieval Iberian Frontier*

**DAMON AUBREY ORTEGA**

*Inter-site visibility and viewshed exclusivity analysis using Monte Carlo simulation: a case study of the stone circles of Avebury and its environs.*

**RODRIGO MORA**

*The development of 3D VGA tools: an application in a case of weak heritage in Valparaiso, Chile*

**POSTER**

**MICHAL BIRKENFELD, YIEZHAK PAZ**

*Seen and Unseen: Using View Shed Analysis to reconstruct socio-political relations between settlements in LBA Ramat Bet Shemesh, Israel*

**ANIL KUMAR, NEETI ANIL KUMAR**

*Typo-technological aspects of rock-cut cave-temples in south india -with special reference to the pallava caves (data analysis and interpretation using digital applications in cave architecture)*

**MICHELE DE SILVA**

*Visual space, defence, control and communication: towers and fortresses system of the tuscan coastal belt*

**YING ZHOU, MINGQUAN ZHOU, WUYANG SHUI, ZHONGKE WU, WEI WANG**

*Segmentation of Ancient Chinese Architecture Point Cloud based on Parallel k-means Clustering*

**SESSION 4D**

**3D RECONSTRUCTION, ANALYSIS AND IMMERSIVE TELEPRESENCE AT ROCK-ART SITES**

**ORAL PRESENTATION**

**THOMAS HÖLL, GERT HOLLER, AXEL PINZ**

*A scanner-prototype for geometric and radiometric reconstruction of rock-art sites*

**KEN SAITO, CHRIS MUSSON**

*3D Recording of Rock Art in Harsh Environmental Conditions at Ughtasar, Armenia*

**VERA MOITINHO DE ALMEIDA, LUIS TEIRA, ROBERTO ONTAÑÓN-PEREDO,**

*Analysing Rock Art: a quantitative approach using 3D models*

**MATTHIAS ZEPPELZAUER**

*Intelligent Rock Art Processing: from Automated 3D Segmentation to Shape Classification*

**CARLO INGLESE, MARCO CARPICECI, FABIO COLONNESE**

*Mediated representations after laser scanning. The Monastery of Aynalı and the architectural role of red pictograms*

**NEIL SMIT, MATT HOWLAND, THOMAS LEVY**

*Digital field recording in the 4th dimension: ArchField C++*

**TOMMASO EMPLER, BARBARA FORTE, EMANUELE FORTUNATI**

*Cultural Heritage 3D modeling view in Real time: the Forum of Nerva in Rome in the time of Imperial Rome and Medieval Ages*

**EMANUEL DEMETRESCU, IVANA CERATO**

*From survey data to 3D extensive landscape reconstruction. A taxonomic - metadata approach to Montegrotto Terme area.*

**STEPHAN BECK, ANDRÉ KUNERT, ALEXANDER KULIK, BERND FROEHLICH**

*Collaborative Visual Analysis of 3D Scanning Data: The 3D-Pitoti Scientists Lab*

**POSTER**

**GUOGUANG DU, MINGQUAN ZHOU, PU REN, ZHONGKE WU, WUYANG SHUI, PENGBO ZHOU**

*Image aided repair for Tibetan Architecture Reconstruction*

**PU REN, MINGQUAN ZHOU, GUOHUA GENG, WUYANG SHUI, CHUNHONG WANG**

*Rule-based Rapid Modeling Method for Chinese Pagodas*

**EMANUEL DEMETRESCU, DANIELE FERDANI**

*Best practices in archaeological 3D reconstruction: the case study of the Mausoleum of Romulus in Rome.*

**WEI WANG, MINGQUAN ZHOU, WUYANG SHUI, YI ZHOU, ZHONGKE WU, YING ZHOU, KANG WANG**

*Artifact models Simplification and progressive transmitted encoding*

**JORGE ANGAS, MANUEL BEA**

*Virtual restitution of the destroyed Levantine rock art shelters of Matarraña region (Teruel, Spain)*

**SESSION 4E**

**FROM 3D SCANNING OF OBJECTS AND MONUMENTS TO AUGMENTED REALITY**

**ORAL PRESENTATION**

**KATALIN TOLNAI**

*The Study of the Past in In-depth? – A 3D approach in the integrated interpretation of archaeological data*

**ANDREAS HADJIPROCOPIS**

*Cloud-based 3D Reconstruction of Archaeological sites using photographs from Aerial Surveying, hand-held devices and Open Access Image Repositories*

**ANESTIS KOUTSOUDIS, FOTIOS ARNAOUTOGLOU, VASILIOS LIAKOPOULOS, ATHANASIOS TSAOUSELIS, GEORGE IOANNAKIS, CHRISTODOULOS CHAMZAS**

*Creating 3D replicas of medium-to-large scale monuments for Web-based dissemination within the framework of the 3D-ICONS project*

**GÁBOR BÖDŐ**

*Understanding Heritage through Augmented Reality Development*

**GARY DEVLIN, ANTHONY CORNS, ROBERT SHAW, PATRICK GRIFFIN**

*Modelling Irelands iconic sites: Generating online digital models from massive pointcloud datasets*

**POSTER**

**MARIO ALAGUERO, DAVID CHECA, ANDRES BUSTILLO**

*Learning the lessons of history: the augmented reality of the Mosque of Burgos in the Spanish Civil War*

**CARLO BATTINI, GIOVANNI LANDI**

*Augmented Reality e Virtual reality with mobile devices*

**SESSION 4F**

**GEOMATICS APPROACHES IN LATIN AMERICAN ARCHAEOLOGY**

**ORAL PRESENTATION**

**CAROLIN VON GROOTE-BIDLINGMAIER, KLAUS HILBERT, SABINE TIMPF**

*Deriving settlement patterns using environmental information*

**KAYELEIGH SHARP, MELISSA LITSCHI**

*Integrated Technological and Spatial Analysis: Fuzzy Data Mining on the North Coast, Peru*

**MARÍA EUGENIA DE FEO, LUCÍA ANGÉLICA MAGNIN, MARÍA JOSÉ FIGUERERO TORRES**

*Analytical constraints of thematic cartography on archaeological GIS analysis: comparison of case studies from the northwest and Patagonia regions in Argentina*

**MIŁOSZ GIERSZ, PATRYCJA PRZĄDKA-GIERSZ, WIESŁAW WIĘCKOWSKI, JULIA MARIA CHYLA, ROBERTO PIMENTEL NITA, JACEK KOŚCIUK, ANNA KUBICKA, KRZYSZTOF MISIEWICZ, MIRON BOGACKI, WIESŁAW MAŁKOWSKI**

*Geomatic approaches in evaluation and inventorying of pre-Columbian heritage in danger at the coastal deserts of the Ancash Region of Peru*

**CRISTINA CASTAGNETTI, ELEONORA BERTACCHINI, ELISA BENOZZI, CAROLINA ORSINI, PAOLO ROSSI, ALESSANDRO CAPRA, VERONICA WILLIAMS**

*GPS and GIS for documentation and spatial representation in two valleys of the middle calchaquí basin (salta argentina)*

**JENNIFER VON SCHWERIN, MICHAEL AUER, NICOLAS BILLEN, LUKAS LOOS, HEATHER RICHARDS-RISSETTO, MARKUS REINDEL, ALEXANDER ZIPF, FABIO REMONDINO, BELEN JIMENEZ FERNANDEZ PALACIOS**

*A 4DWebGIS for the Documentation and Analysis of Complex Archaeological Sites*

**GUADALUPE ZETINA-GUTIERREZ, PATRICIA CASTILLO-PEÑA**

*Geomatics at conservation and study of domestic context of core and periphery of El Tajín, Veracruz; México: Research based in GIS, LIDAR and Photogrammetry.*

**BENJAMIN VINING**

*Multispectral and UAVSAR detection of archaeological anthrosols in an environment of industrial sugarcane cultivation, Chicama, Peru*

**POSTER**

**TIAGO ATTORRE, PAULO DEBLASIS**

*Ground Penetrating Radar and GNSS-RTK as tools for mapping, imaging and modeling large archaeological structures surrounding Coastal Shell Mounds in Southern Brazilian Coast*

**DANIEL ALEXANDER CONTRERAS**

*A history of digital data acquisition and analysis at Chavín de Huántar, Peru*

**PATRICIA CASTILLO-PEÑA, KRASSIMIR IANKOV**

*Application of LiDAR and Photogrammetry in a “World Heritage” Archaeological Site: El Tajín, Veracruz; México*

**ALEX AUGUSTUS KARA**

*Of PostGIS and Peteneros: finding the interface between geospatial technology and Maya Archaeology*

**SESSION 5A**

**MODELLING APPROACHES TO ANALYSE THE SOCIO-ECONOMIC CONTEXT IN ARCHAEOLOGY**

**ORAL PRESENTATION**

**TILMAN BAUM, CLAAS NENDEL**

*Combining two modelling approaches to examine prehistoric husbandry methods and land use of the pre-alpine wetland settlements*

**ALŽBĚTA DANIELISOVÁ, KAMILA OLŠEVIČOVÁ, JAN PROCHÁZKA**

*Socio-economic map of an iron age region: subsistence and interactions (using gis, agent based modelling and network analysis)*

**JAMIE JOYCE, PHILIP VERHAGEN**

*Keeping the home fires burning: spatial dynamic modelling of the wood-fuel economy of the Roman limes zone in the Netherlands.*

**ANGELOS CHLIAOUTAKIS**

*An application of a self-organizing Agent-based model in Minoan Crete*

**ANDREA KAY, JED KAPLAN**

*A classification of subsistence lifestyles and land use in prehistoric Africa*

**CHRISTINA COLLINS, ELENI ASOUTI, MATT GROVE, DOUGLAS BAIRD, RICHARD CHIVERRELL, LEE BRADLEY**

*Results of the 'Unfamiliar Landscape' project: Palaeoenvironmental modelling and the origins of agriculture in Central Anatolia.*

**SEBASTIAN VOGEL, FLORIAN SEILER, MICHAEL MÄRKER**

*The SALVE research project: Sarno River plain – Ancient Life in the Vesuvian Environment*

**MONICA DE CET**

*Menorca and its Past Socio-Economic Sphere: a Methodological Approach to Model Production and Demography on a Mediterranean Island.*

**JOAN NEGRE PÉREZ, JUAN ANTONIO BARCELÓ ÁLVAREZ**

*Agricultural yields and demographic size. An experimental approach to regional-scale population estimate in a medieval Islamic hinterland (Tortosa, Northeast Iberian Peninsula).*

**POSTER**

**KARIM SADR**

*Methodological issues in the classification of stone-walled structures and their effects on modelling the socio-economic organization of pre-colonial communities in the southern Gauteng Province, South Africa.*

**RAFFAELLA DA VELA**

*The Romanization of Northern Etruria as a breakdown of the social network of the minor settlements*

**ARNE ANDERSON STAMNES**

*Assessing the Effect of Temperature Change on Iron Age Crop Production and Settlement Patterns in Mid-Norway – a Geostatistical Model*

**CRAIG ALEXANDER**

*Rock-art, land-use and settlement in Iron Age Valcamonica*

**VALERIA ACCONCIA, SERAFINO LORENZO FERRERI**

*GIS analysis for the identification of land use in inland Abruzzo from the Iron Age to the Romanization*

**GIUSEPPE MUCI**

*Evaluating the crisis: population and land productivity in Late Medieval Salento (Southern Apulia)*

**ANDREA D'ANDREA, RODOLFO FATTOVICH, ANDREA MANZO, LUISA SERNICOLA, GILDA FERRANDINO, GIUSEPPE ZOLLO, ANTONELLA PALOMBA, MARTINA GRANIGLIA**

*Dynamics of the settlement pattern in the Aksum area (800-400 BC). An ABM preliminary approach*

**TIM MURTHA, KIRK FRENCH, DAVID WEBSTER, CHRIS DUFFY**

*Landscape and Territory at Tikal, Guatemala*

**SESSION 5B**

**CONTINUING THE REVOLUTION WITH SPATIAL METHODS & ARCHAEOLOGICAL INTERPRETATION**

**ORAL PRESENTATION**

**MORITZ MENNENGA, GARY NOBLES**

*Hot or cold: Intra-site spatial analysis using spatial autocorrelation*

**REBECCA ELIZABETH KIBBLE**

*Using open-source GIS to enable the multi-scalar, spatio-temporal analysis and visualisation of complex zooarchaeological datasets.*

**CHRISTOPHE LANDRY, BERTRAND MOULIN**

*When GIS Goes to the Countryside : Detecting and Interpreting Roman Orchards from the “Grand Palais” (Drôme, France)*

**JOAN NEGRE PÉREZ, JUAN ANTONIO BARCELÓ ÁLVAREZ**

*Reading between the dots. The use of non-Euclidean metrics for the study of settlement patterns in heterogeneous regions.*

**IRENE ORTIZ NIETO-MÁRQUEZ**

*Dinamic processes of static objects. how and why?*

**OLIVER NAKOINZ**

*How to detect and interpret patterns in cultural landscapes?*

**JOHN POUNCETT, CHRISTOPHE SNOECK, RICK SCHULTING**

*Coming to Knowth: Areal interpolation, strontium isotope analysis and Neolithic mobility*

**VINCENZO SPAGNOLO, DANIELE AURELI, PAOLO BOSCATO, FRANCESCO BOSCHIN, JACOPO CREZZINI, GIULIA MARCIANI, STEFANO RICCI, ANNAMARIA RONCHITELLI, GIULIO POGGI**

*Integration between spatial analysis in a GIS environment and 3D models for the study of Middle Palaeolithic contexts: Molare Rockshelter (Scario – SA) and Oscurusciuto Rockshelter (Ginosa – TA)*

**KELIN FLANAGAN, WALTER R T WITSCHEY, CLIFFORD T BROWN**

*The Fractal Topology of Archaeological Site Distributions: Killing the Spherical Chicken in the Vacuum*

**POSTER**

**KAREN NISKANEN**

*Motifs in Finnish cliff paintings: distribution and contexts*

**ANDREA CAPECCHI, MICHELE DE SILVA, FABIO MARTINI, LUCIA SARTI**

*GIS applications and spatial analysis for the survey of the prehistoric northern Apennine context: the Mugello case study (Tuscany)*

**KARIN GÖBEL**

*Old data reprocessed by new technology - 3D visualisation not only for modern data*

**SESSION 5C**

**ARCHAEOLOGICAL THEORY AND STATISTICAL MODELLING**

**ORAL PRESENTATION**

**TSONI TSONEV**

*The concepts of ‘cultural gradient’ and ‘central place’ and their analytical and theoretical implications in archaeological interpretation*

**JUAN A BARCELÓ, GIACOMO CAPUZZO, BERTA MORELL, AGUEDA LOZANO, KATIA ACHINO**

*The Statistics of Time-to-Event. Integrating the Bayesian Analysis of Radiocarbon data and Event History Analysis methods*

**JAMES R. ALLISON**

*Theories and Models of Prehistoric Exchange*

**KAMILA OLŠEVIČOVÁ, ALŽBĚTA DANIELISOVÁ**

*Towards shareable modelling outputs: celtsim case study*

**CATALIN NICOLAE POPA, PETER RAMSL**

*Iron Age Identity and Statistical Modelling. The Late Iron Age cemetery of Mannersdorf*

**POSTER**

**PETER OSKAR PFLAUMER**

*Distributions of Age and Death from Roman Epitaph Inscriptions: An Application of Data Mining*

**ELMAR SCHMALTZ, MICHAEL MÄRKER, FELIX BACHOFER**

*Stochastic modelling and comparison of fluvial landforming dynamics based on archaeological information of Palaeolithic sites in two intra-montane basins in the Northern Apennine*

**MAURO MAZZEI, ANTONIO SALVATORI, LUCIANO MARIA RENDINA**

*A Spatial Statistical Approach for the Territorial System of Marturanum Regional Park, Lazio (Italy)*

**SESSION 5D**

**PREDICTIVITY AND POSTDICTIVITY IN ARCHAEOLOGY**

**ORAL PRESENTATION**

**CARLO CITTER, ANTONIA ARNOLDUS-HUYZENDVELD, GIOVANNA PIZZIOLO**

*Predictivity-Postdictivity: a theoretical framework.*

**IRMELA HERZOG**

*Retrodicting the distribution of rural settlement locations recorded on a map created in 1715 AD*

**FRANCESCO CARRER**

*Inductive models, deductive models and ethnoarchaeological models: strengths, weaknesses and new perspectives*

**PHILIP MATTHEW NORMAN HITCHINGS, E B BANNING**

*Bayesian Optimal Allocation of Archaeological Survey Effort: A Case Study in Wadi Quseiba, Jordan*

**PHILIP VERHAGEN, LAURE NUNINGER, FRÉDÉRIQUE BERTONCELLO, ANGELO CASTRORAO BARBA**

*Estimating the “memory of landscape” to predict changes in archaeological settlement patterns*

**KAYT ARMSTRONG, CHRISTINA TSIGONAKI, APOSTOLOS SARRIS, NADIA COUTSINAS**

*Site Location Modelling and Prediction on Early Byzantine Crete: Methods employed, challenges encountered*

**ANTONIO PORCHEDDU**

*Predicting and Postdicting a Roman road in the Pre-Pyrenees area of Lleida (Spain).*

**EMERI FARINETTI**

*Modelling regional landscape through the predictive and postdictive exploration of settlement choices: the theoretical framework and a case study*

**LAURA SORO, LOREDANA FRANCESCA TEDESCHI, MAURIZIO MINCHILLI**

*N[Move - Spatial models of walking accessibility between nuragic sites*

**POSTER**

**ANDRÉS DÍEZ-HERRERO, LUIS M. TANARRO, DAVID ÁLVAREZ-ALONSO, MARÍA DE ANDRÉS-HERRERO, JULIO A. ROJO-HERNÁNDEZ**

*A MCE-GIS based model for assessing the influence of abiotic factors on the spatial distribution of the paleolithic archaeo-sites in central Spain*

**S. T. STEWART, STEVEN EDWARDS, PHILIP HITCHINGS, E. B. BANNING**

*Predicting Survey Coverage through Calibration: Sweep Widths and Survey in Cyprus and Jordan*

**ANDREA PATACCHINI, SIMONE MORETTI, GIULIA NICATORE**

*Potential paths and historical road network between Italy and Egypt: from predictive to postdictive approach.*

**NEVIO DUBBINI, GABRIELE GATTIGLIA**

*What is the archaeological potential? A computational definition*

**AUGUSTO PALOMBINI, CINZIA TAVERNARI**

*On their way back home... Geostatistical analysis applied to medieval caravanserais distribution in the the Syrian region.*

**MARCUS ASSERSTAM**

*Predictive modelling for pioneer settlements in eastern middle Sweden*

**LAURA MORABITO, GIOVANNA PIZZIOLO**

*Postdicting and predicting Proto-history: a case study from Central Italy*

**SESSION 5E**

**Homologation and standardization of archaeological cartographic data**

**ORAL PRESENTATION**

**GIOVANNI AZZENA, ROBERTO BUSONERA, FEDERICO NURRA, ENRICO PETRUZZI**

*Homogenization of the archaeological cartographic data on a national scale in Italy. The SITAN*

**ANNE MOREAU**

*GIS, one of the answers to the challenge of preventive archaeology? : the attempts of the Inrap*

**KAMIL NIEDZIÓŁKA**

*Polish Archaeological Record and GIS: preparing data for settlement studies in Northern Poland*

**GIORGIA LEONI**

*Standardization for data "quality"? The experience of SITAR Project*

**SERGIO CAMIZ, PAOLA MOSCATI**

*Archaeology and GIS. Methodological and terminological issues*

**POSTER**

**STEFANO CAMPANA, MATTEO SORDINI**

*The Sitan project in the Province of Grosseto: a web-gis for landscape archaeology*

**ALFONSO SANTORIELLO, AMEDEO ROSSI, LUIGINA TOMAY**

*The SiUrBe project (Sistema Informativo del patrimonio archeologico Urbano di BEnevento: an Archaeological Information System as a tool for the definition of the archaeological evaluation*

**SERAFINO LORENZO FERRERI**

*The 'Georeferenced archaeological census of Abruzzo': problems in the homologation and the repositioning of known archaeological data*

**MARIA ASSUNTA PAPA, AURELIO BURGIO**

*The Cignana Project. Preliminary considerations on the settlement strategies during the Imperial Age from an archaeological, a geomorphological, and GIS perspective*

**MARIA LUISA MARCHI, GIOVANNI FORTE**

*From the GIS of the Ager Venusinus project to the GIS of Ager Luceriunus Project: evolution of the system*

**ILARIA DI COCCO, MARCO EDOARDO MINOJA, RENATA CURINA, TIZIANO TROCCHI**

*Standardization and certification of archaeological data in the WebGIS of the protected cultural heritage of Emilia-Romagna*

**SESSION 5G**

**How to reveal geographic relations in Databases on cultural heritage**

**ORAL PRESENTATION**

**MIEKO MATSUMOTO, ESPEN ULEBERG**

*Dynamic Distributions in macro and micro perspective*

**CHRISTOPHE TUFFERY, PASCAL TALLET, JEAN-BAPTISTE CAVERNE, DENIS DALPHINET, PAUL FERNANDES**

*An analysis of spatial distribution of flints deposits and their itinerary in the south-eastern of France. An exploratory study using various georeferenced database and spatial functions of ArcGIS and PostgreSQL, applied to prehistoric studies.*

**MIRELLA SERLORENZI, STEFANIA PICCIOLA, ANDREA DE TOMMASI, CRISTIANA CORDONE, FEDERICA LAMONACA, LINO TRAINI, ANDREA VARAVALLO**

*Cluster Analysis applications for SITAR Project open archaeological datasets*

**CHRISTIAN WILLMES, DANIEL BECKER, GEORG BARETH**

*Data integration for paleo environmental and archaeological GIS based analysis*

**MICHELE DE SILVA, FABIO MARTINI**

*Prehistoric settlement strategies in Tuscany. Investigating relationship between locational choices and physiographic context*

**MICHAEL MÄRKER, CHRISTIAN WILLMES, VOLKER HOCHSCHILD, GEORG BARETH**

*How to exchange data between DB Systems on Early Humans. A case study based on the SFB 806 DB and the ROCEEH ROAD system*

**ERIC ANDREW RODRIGUEZ**

*Reconstructing “Cultural Wetlands”: New Palaeogeographic Models for the Humber Estuary*

**CRISTIANO BENEDETTO DE VITA, VINCENZO AMATO, FRANCESCA FILOCAMO, ALFONSO SANTORIELLO, FRANCESCO ULIANO SCELZA, FRANCESCO MELE**

*Archaeology, Geomorphology and Palaeosurfaces: studies: a multidisciplinary approach for understanding the ancient Laos territory.*

**SESSION 5H**

**Geographical and temporal network science in archaeology**

**ORAL PRESENTATION**

**PETER BIKOULIS**

*Hypothesis Testing and Validation in Archaeological Networks*

**DANIEL WEIDELE, MEREKE VAN GARDEREN, ULRIK BRANDES**

*Network Science in Archaeology: A Case Study Replication*

**TOM BRUGHMANS**

*MERCURY: an agent-based network model of tableware trade in the Roman East*

**SÉBASTIEN PLUTNIAK, JOSÉPHINE CARO, CLAIRE MANEN**

*Assessing the relevance of a stratigraphy by network analysis of conjoin relations between archaeological objects*

**SERGI LOZANO**

*Applying spectral analysis in archaeology. The urbanization process in Central Italy*

**PIM VAN BREE, GEERT KESSELS**

*Diachronic network analysis in nodegoat: a methodology to dynamically scrutinise, reconfigure and re-evaluate complex datasets*

**MANUELA RITONDALE, GUIDO CALDARELLI, MAURO COLETTO**

*Application of network analysis to the trade routes of antiquities passing through the pontine islands*

**MU-CHUN WU**

*Wayfaring Social Relations: a spatial construct*

**ÉRIC MERMET, DAVIDE GHERDEVICH, HÉLÈNE NOIZET, SANDRINE ROBERT, LÉA HERMENAULT**

*Characterisation of the hierarchy of streets of Paris in 1380 using the analysis of the structure of networks*

**POSTER**

**KATRIN KERMAS**

*Spatial network analysis for road systems - Conception and analysis of a transportation system in the Gallia narbonensis during the Iron Age and the roman period*

**SILKE VANBESELAERE**

*Durability of ties or Nero's frenemies*

**SESSION 5I**

**Interpreting the unstructured: new methods and tools for intrasite spatial analysis of palaeosurfaces**

**ORAL PRESENTATION**

**MICHAL BIRKENFELD, NIGEL ADRIAN GORING-MORRIS**

*Stratigraphy and spatial analysis at the PPNB site of Kfar HaHoresh, Israel*

**KATIA FRANCESCA ACHINO, JUAN ANTONIO BARCELÓ**

*Predicting the accumulative consequences of abandonment processes. Intrasite analysis of lakeside settlements*

**HANS PETER BLANKHOLM**

*Intrasite spatial analysis past and present: an overview*

**REBECCA J S CANNELL, JAN BILL**

*The geochemistry of deposition: functions and phases identified by geochemistry and spatial analysis in the proto-urban Viking Age settlement near Gokstad, Norway.*

**GIOVANNA PIZZIOLO, LUCIA SARTI, NICOLETTA VOLANTE**

*Intrasite analysis in the Florentine Plain: from data integration to palaeosurfaces interpretation*

**POSTER**

**MIQUEL ROY SUNYER, RAFAEL MORA TORCAL, JORGE MARTÍNEZ MORENO**

*Deconstructing palimpsests: Applicability of automated GIS algorithms*

**GIANNA GANDOSSI**

*A Chronology of Site Use: Quantifying Odd Deposits with GIS in Time and Space*

**LAURA MORABITO, ROSALBA AQUINO, MATTEO FARAONI, GIOVANNA PIZZIOLO**

*Living in a palaeoriverbed: intra-site analysis of two prehistoric sites in the Florentine alluvial plain.*

**FRANÇOIS GILIGNY**

*Reconstruction of the domestic units by the data analysis of the ceramic reassemblies: the example of the lakeside dwellings*

**SESSION 5J**

**Spatial analysis in ethnoarchaeology and experimental archaeology**

**ORAL PRESENTATION**

**JONAS ALCAINA-MATEOS, CARLA LANCELOTTI, JAVIER RUIZ-PEREZ**

*Revisiting kriging methods for microspatial data: an ethnographical approach*

**JOAN NEGRE PÉREZ, MYRIAN ÁLVAREZ, IVAN BRIZ I GODINO, DÉBORA ZURRO HERNÁNDEZ, JORGE CARO SAIZ, JAVIER RUIZ PÉREZ**

*The influence of spatial demarcations on the modelling of intra-site anthropic markers. An ethno-archaeological case study from Lanashuaia-II, a shell-midden in Tierra del Fuego (Argentina).*

**FRANCESCO CARRER**

*Interpreting intra-site activities and post-depositional processes: ethnoarchaeological case studies from the western Italian Alps*

**POSTER**

**FABIO CAVULLI**

*Sand trampling experiment: the effects of surface trampling on the archaeological record*

**SYLVIANE DÉDERIX**

*Traveling across archaeological landscapes with the hierarchical communication network*

**BARBORA WEISSOVA**

*How results of the LCP Analysis Correspond with the Real Data? Case Study for Bithynia.*

**IRMELA HERZOG**

*Dispersal versus optimal path calculation*

**DIMITRIJ MLEKUŽ, DEVI TAELMAN**

*Energyscapes – An energy expenditure approach for the trade of ornamental stone in Central Adriatic Italy*

**EMMA SLAYTON, VIVIANA AMATI, TERMEH SHAFIE, ULRIK BRANDES, MENNO HOOGLAND, CORINNE HOFMAN**

*Least Cost Pathways and the Caribbean Sea: Using least cost pathway modeling to explore reciprocal connections between the Greater and Lesser Antilles.*

**MARK RAYMON GROENHUIJZEN, PHILIP VERHAGEN**

*Through hell and high water: a multimodal transport network in the Dutch Roman limes*

**POSTER**

**MICHELE MATTEAZZI**

*Reconstructing Roman communication routes in the low Venetian plain with GIS*

**DOUG ROCKS-MACQUEEN**

*Least Cost Path- The Least Useful Tool?*

**SUSANNE RUTISHAUSER**

*Natural frontiers and paths in Cilicia*

**SESSION 5K**

**Where Do We Go From Here? Least Cost Paths Revisited**

**ORAL PRESENTATION**

**Dimitrij Mlekuž, Devi Taelman**

*Energyscapes – An energy expenditure approach for the trade of ornamental stone in Central Adriatic Italy*

**Irmela Herzog**

*Dispersal versus optimal path calculation*

**Barbora Weissova**

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**Emma Slayton, Viviana Amati, Termeh Shafie, Ulrik Brandes, Menno Hoogland, Corinne Hofman**

*Least Cost Pathways and the Caribbean Sea: Using least cost pathway modeling to explore reciprocal connections between the Greater and Lesser Antilles.*

**Mark Raymon Groenhuijzen, Philip Verhagen**

*Through hell and high water: a multimodal transport network in the Dutch Roman limes*

**Sylviane Déderix**

*Traveling across archaeological landscapes with the hierarchical communication network*

**POSTER**

**Michele Matteazzi**

*Reconstructing Roman communication routes in the low Venetian plain with GIS*

**Doug Rocks-Macqueen**

*Least Cost Path- The Least Useful Tool?*

**Susanne Rutishauser**

*Natural frontiers and paths in Cilicia*

**SESSION 5L**

**Modelling large-scale human dispersals: data, pattern and process**

**ORAL PRESENTATION**

**HEATHER LYNN SMITH**

*The late Pleistocene transmission of fluted-point technology across a continent: A morphological investigation using geometric morphometrics.*

**BENJAMIN DAVIES**

*“Reediness is not a Polynesian character”: Modelling Pacific Island settlement and potential effects of spatiotemporal constraints on survival and human body dimensions*

**FULCO SCHERJON**

*Large scale population modelling in the deep past. Issues and concerns. HomininSpace, a case study in points.*

**GIACOMO CAPUZZO, JUAN ANTONIO BARCELÓ**

*Adoption of innovations and expansive phenomena in the 2nd millennium BC in Central and Western Europe.*

**MICHAEL MÄRKER, MICHAEL BOLUS**

*What can we learn about the environmental preferences of Neanderthals and Modern Humans using stochastic modeling?*

**THOMAS G. WHITLEY, GEOFF AVERN, CHRISTINE MARKUSSEN, KATIE SIMON**

*Modelling in Le Mandement: Using GIS and Geophysics to Examine Caesar’s Campaign against the Helvetii in 58 BC*

**ANDREA ZANOTTI, JEAN-PIERRE BOCQUET-APPEL**

*An Agent-based Model to Simulate the Balkan Neolithic Expansion*

**SIMONE CALLEGARI, JOHN DAVID WEISSMANN, GEORGE LAKE, CHRISTOPH P. E. ZOLLIKOFER**

*High-performance agent-based models of worldwide human dispersals*

**IZA ROMANOWSKA, SETH BULLOCK**

*Testing the Variability Selection Hypothesis on Hominin Dispersals - an Agent-based Modelling Approach*

**PENNY SPIKINS, ANDY EVANS**

*The Dark Side of Dispersal: Modelling the effects of altruistic punishment, spite and vengeance on the spread of modern humans*

**NATALIE TKACHENKO, SIMONE CALLEGARI, JOHN DAVID WEISSMANN, WESLEY P. PETERSEN, GEORGE LAKE, CHRISTOPH P. E. ZOLLIKOFER**

*Individual-based modeling of population growth and dispersal in discrete time*

**TARJA SUNDELL, MARTIN HEGER, JUHANA KAMMONEN**

*Reconstructing the boom of prehistoric hunter-gatherer population size in Finland by agent and equation-based modelling*

**POSTER**

**ERICSON HÖLZCHEN**

*Identification of Agent-based Modelling elements in “Out of Africa” Hypotheses*

**CHUNYAN ZHAO**

*Strontium isotope analysis and human mobility from late Neolithic to early Bronze Age in the central plain of China*

**SESSION 5M**

**Improving Resolutions: Use and Potentials of Quantitative Methods in Near Eastern Archaeology**

**ORAL PRESENTATION**

**SIMONE BONZANO**

*The Gis-Archaeologist: methodological and analytical remarks on ancient near eastern highlands.*

**NAZARIJ BUŁAWKA, BARBARA KAIM**

*The Iron Age in Serakhs oasis (Turkmenistan). The preliminary results of the application of Geographic Information System in the study of the settlement pattern of the earliest confirmed occupation of the oasis.*

**TUNA KALAYCI**

*Archaeological Sites and Site Territories: A Remote Sensing Approach for Modelling Production Landscapes*

**VANESSA JULOUX**

*New data mining approach to analyze male or female agency : inventory of action verbs*

**ARIE KAI-BROWNE, THOMAS BREMER, SUSANNE BRANDHORST, ALEXANDER HENNIG, FELIX BALDA, DAVID STRIPPGEN, SEBASTIAN PLESCH, ARIAN GOREN, KAY KOHLMEYER**

*The potential of game engines in real-time simulation of archaeological scenarios*

**POSTER**

**ALESSANDRO DI LUDOVICO**

*Working on Western Asiatic Artefacts: Values and Perspectives of Past and Present Experiences with Quantitative Methods*

**CRISTINA BACCARIN, ANTONIETTA CATANZARITI**

*Use of remote sensing in mapping the Qara Dagh valley, Iraqi-Kurdistan*

**SESSION 6A**

**Approaches for Sensor Data Integration for the Investigation of Archaeological Landscapes**

**ORAL PRESENTATION**

**TUNA KALAYCI, APOSTOLOS SARRIS**

*Sensor Data Integration: Concepts and Methods*

**NIKOS PAPADOPULOS, MEROPI MANATAKI, TUNA KALAYCI**

*Sensor Fusion in Geophysics: A Synthetic Approach*

**ENRIQUE CERRILLO CUENCA, ADARA LÓPEZ**

*Recording the prehistoric landscapes of Inner Iberia through LiDAR data and Aerial Imagery Repositories (WMS)*

**BENJAMIN DUCKE**

*Conquering the point clouds: high-performance processing of multi-sensor data in free and open source GIS*

**POSTER**

**KASPER JAN HANUS, EMILIA SMAGUR**

*Integrated prospection of the moated site Lovea, NW Cambodia.*

**MIGUEL CARRERO PAZOS, BENITO VILAS ESTÉVEZ**

*Limits and possibilities of LiDAR data application for the study of Galician megalithic culture*

**SESSION 6B**

**New advancements in computational imaging**

**ORAL PRESENTATION**

**SCOTT MADRY, ELIZABETH JONES, AMANDA TICKNER**

*Archaeological Public Outreach, Education, and Research using the Liquid Galaxy Display System*

**ELENI KOTOULA**

*Ultraviolet Reflectance Transformation Imaging*

**PIOTR WITKOWSKI, JULIA MARIA CHYLA, WOJCIECH EJSMOND, DAWID FELIKS WIECZOREK**

*The Combination of the RTI techniques and DStretch algoritms and Near Infrared imaginary in Gebelein Archaeological Project*

**GEORGE- ALEXIS IOANNAKIS, ANESTIS KOUTSOUDIS, BLAŽ VIDMAR, FOTIS ARNAOUTOGLOU, CHRISTODOULOS CHAMZAS**

*Enhancing Multi- Image Photogrammetric 3d Reconstruction Performance on Low-Feature Surfaces*

**SESSION 6C**

**The Past, Present and Future of Non-Intrusive Geophysical Survey in the Field and the Laboratory**

**ORAL PRESENTATION**

**KEN SAITO, BARBARA FREZZA, STEFANO CAMPANA**

*LONG WALKS IN THE ITALIAN COUNTRYSIDE Large-scale geophysical prospection in rural and once-urban contexts in central Italy*

**MONICA KRISTIANSEN, LARS GUSTAVSEN, ANNE HERSTAD, MANUEL GABLER**

*Large-Scale Remote Sensing as a Tool for Rescue Archaeology – a Norwegian Pilot Project*

**PETRA SCHNEIDHOFER, ERICH NAU, LARS GUSTAVSEN, JESSICA LEIGH MCGRAW, CHRISTER TONNING, TERJE GANSUM, JAN BILL, WOLFGANG NEUBAUER**

*Interdisciplinary investigation of the burial mound at Rom in Vestfold County, Norway*

**BRIAN SEYMOUR, PAUL SCERRI**

*Robotic Watercraft and Archaeological Survey: A Cost Effective Approach.*

**ARMIN SCHMIDT, KAYT ARMSTRONG, MARTIJN VAN LEUSEN**

*Anomaly to Feature: Improving archaeological interpretation of magnetometer data through model-based inversion*

**KATE WELHAM, JEFFREY FLEISHER, FEDERICA SULAS, CHARLENE STEELE, STEPHANIE WYNNE-JONES**

*An integrated approach to understanding Swahili archaeology. A case study from the UNESCO World Heritage Site of Songo Mnara, Tanzania.*

**MEROPI MANATAKI, APOSTOLOS SARRIS, TUNA KALAYCI, FRANCOIS-XAVIER SIMON, CARMEN CUENCA-GARCIA, JAMIESON C. DONATI, NIKOS PAPADOPOULOS**

*Studying the Variation of Geophysical Signals of the Architectural Attributes of the Neolithic Tells and Landscape.*

**MICHAEL MÄRKER, IVANO RELLINI, MARCO FIRPO, LUIGI MUCERINO**

*Assessment of Subsurface Neolithic/ Palaeolithic sites in the Southern Gargano Area, Apulia, Italy using a 3D geo-electric resistivity*

**JAN BULAS, MICHAŁ KASIŃSKI, PIOTR WRONIECKI**

*Microregional studies of Iron Age landscape in the Michałowice region, woj. Świętokrzyskie, Poland.- Results of non-invasive*

**POSTER**

**LUIGI CAPOZZOLI, ANTONELLA CAPUTI, GREGORY DE MARTINO, VALERIA GIAMPAOLO, RAFFAELE LUONGO, ENZO RIZZO, FELICE PERCIANTE**

*Geophysical-archaeological experiments in controlled conditions at the Hydrogeosite Laboratory (CNR-IMAA)*

**SESSION 6D**

**Colour and Space in Cultural Heritage: Interdisciplinary connections**

**This session is kindly supported by the COST Transdomain Action, Colour and Space in Cultural Heritage (COSCH; http://www.cosch.info)**

**ORAL PRESENTATION**

**ANNA BENTKOWSKA-KAFEL**

*Colour and Space in Cultural Heritage in 6Ds. The interdisciplinary connections*

**LUCA CIPRIANI, FILIPPO FANTINI, SILVIA BERTACCHI**

*A novel method for shadow removal and BRDF simulation of texture from SfM applications*

**SARAH YOUNAN**

*Museums digital repositories and personal identities*

**MARCELLO PICOLLO, ANDREA CASINI, COSTANZA CUCCI, MARINA GINANNI, ELENA PRANDI, MAGNOLIA SCUDIERI, TATIANA VITORINO**

*The use of hyper-spectral imaging technique to reveal concealed layers: a key question for the study of paintings*

**JONATHAN ROY GRATION, DOUGLAS ALEXANDER CAWTHORNE**

*Hidden but not lost; Exploring the Great Hall at Boughton House*

**POSTER**

**DOMINIQUE LAUVERNIER**

*Virtualisation and restitution of Court theatres : from sources to space, sound, light.*

**FRANK BOOCHS, ASHISH KARMACHARYA, STEFANIE WEFERS**

*Structuring 3D technologies through semantics for an optimized use in cultural heritage documentation*

**SESSION 6E**

**Low Altitude Aerial Photography for archaeology – where is the revolution leading us?**

**ORAL PRESENTATION**

**FRANCESCO PERICCI, MATTEO SORDINI, STEFANO CAMPANA**

*UAV mapping of archaeological contexts*

**NICOLAS POIRIER, FLORENT HAUTEFEUILLE, CARINE CALASTRENC, LAURENT AUGEREAU**

*Low altitude thermal survey: determination of the best flight conditions to detect archaeological anomalies*

**WOJCIECH OSTROWSKI, KASPER JAN HANUS, ŁUKASZ MISZK, MIKOŁAJ KOSTYRKO**

*Is GoPro a hero? Limits, issues and perspectives of non-SLR cameras for LAAP.*

**TODD BRENNINGMEYER, KOSTIS KOURELIS, MILTIADIS KATSAROS**

*The Lidoriki Project - Low Altitude Aerial Photography, GIS, and Traditional Survey in Rural Greece*

**GIANLUCA CANTORO, CHRISTINA TSIGONAKI, KAYT ARMSTRONG, APOSTOLOS SARRIS**

*Integrating low altitude with satellite and airborne aerial images: photogrammetric documentation of Early Byzantine settlements in Crete*

**MATTHIAS LANG, THORSTEN BEHRENS, KARSTEN SCHMIDT**

*A fully integrated UAV-system for archaeological prospection - Workflow and experiences on the Celtic oppidum Heidengraben*

**KARIM SADR**

*A comparison of accuracy and precision in detecting stone-walled structures using satellite imagery, high resolution aerial photography and LiDAR; a case study from the South African Iron Age.*

**KATE WELHAM, LAWRENCE SHAW, ADAM STANFORD**

*A comparison of data obtained from low altitude aerial imaging from remotely piloted aircraft, and Lidar. A case study from the New Forest National Park, UK.*

**DIEGO BELLIDO CASTAÑEDA, LAURA GONZÁLEZ LÓPEZ, MERCEDES FARJAS, SERAFÍN LÓPEZ CUERVO, JULIO ZANCAJO**

*UAV on the geometric documentation of archaeological sites: technology approach and analysis of products’ accuracy. mleiha (uae).*

**MARCO BLOCK-BERLITZ, BENJAMIN DUCKE, BENJAMIN GEHMLICH, NIKLAAS GÖRSCH, SÖREN STARK**

*Thirteen desert castles: Towards best practice in 3D reconstruction from video streams with low-cost UAV kits.*

**EMANUEL DEMETRESCU, ENZO D'ANNIBALE**

*Massive archaeological 3D survey with UAV support for technical drawings production: the case study of Sarmizegetusa Ulpia Traiana.*

**ROBERT BEWLEY**

*Endangered Archaeology in the Middle east and North Africa*

**POSTER**

**TAVERNARI CINZIA, GILLOT LAURENCE, BOUET OLIVIER, DEL ANDRÉ**

*The uses of remote control drones in archaeological evaluation and assessment*

**PATRICK DRESCH**

*Processing and presenting datasets acquired using UAVs for commercial landscape surveys.*

**MIKOLAJ KOSTYRKO**

*Obtaining a low cost DTM – a kite perspective*

**JASON T. HERRMANN, BENJAMIN GLISSMAN, MATTHIAS LANG**

*Low-Altitude Aerial Photography in an Archaeological Survey of Iraqi Kurdistan*

**RONNY WEßLING**

*Mine is longer than yours – Pole Aerial Photography for the documentation of archaeological excavations and architectural remains*

**SESSION 7A**

**Teaching digital archaeology - digitally teaching archaeology**

**ORAL PRESENTATION**

**RONALD VISSER**

*Teaching digital archaeology digitally*

**DOUG ROCKS-MACQUEEN**

*Teaching Archaeology Online with Virtual Learning Environments*

**SORIN HERMON, KYPRIANOS KOUNTOURIS, PANAYOTIS KYRIAKOU**

*Teaching or being taught? Experiences with digital archaeology at a primary school in Pyrga, Cyprus*

**MATTHIAS LANG, DIETA SVOBODA, JASON T. HERRMANN, JÖRG BOFINGER**

*Teaching Digital Methods in the Field - The Tübingen approach*

**HERVE TRONCHERE, EMMA BOUVARD, STÉPHANE MOR, AUDE FERNAGU**

*From the Excavation to the Scale Model: a digital Approach*

**KRZYSZTOF MISIEWICZ, WIESŁAW MAŁKOWSKI, URSZULA ZAWADZKA-PAWLEWSKA, JULIA MARIA CHYLA**

*How to teach GIS to archaeologists*

**FRANÇOIS DJINDJIAN**

*3D Archaeology teaching at the Paris 1 Pantheon Sorbonne University*

**POSTER**

**KEVIN KEE**

*Seeing the Past with Augmented Reality and Computer Vision in Schools, Universities and Museums*

**MATTEO DELLEPIANE**

*3D acquisition technologies for Cultural Heritage: a course for Digital Humanities students*

**GIULIANO DE FELICE**

*The new trend of 3D archaeology is … going 2D!*

**SESSION 7B**

**New Cultural Heritage economies in the digital era**

**ORAL PRESENTATION**

**AUGUSTO PALOMBINI**

*The bottom-up approach to project funding: an analytical overview of crowdfunding in archaeology*

**DARIA HOOKK**

*Modeling of a communication with virtual visitors of the museum web-site “Virtual archaeology”*

**VLADIMIR OPREDELENOV, TATIANA KHARITONOVA, FRANCESCO ULIANO SCELZA**

*Archaeology, GIS and urban planning. Territorial polity and economy of cultural heritage*

**DOMENICO PARISI, LUCINA GIACOPINI, CRISTINA DELOGU**

*Simulating the role of the Tiber in ancient Rome*

**POSTER**

**MARZIA BREDA, ANNA ELISABETTA ZIRI, MICHELA BIANCARDI, SILVIA PARENTI**

*WikiSauro: a wiki for museums*

**CHIARA FERIOTTO, GIUSEPPE MINCOLELLI, MATTEO FABBRI, MICHELA BIANCARDI, ALESSANDRO MASSARENTE, STEFANO MUNERATO, FABIANA RACO**

*QFD as an opportunity to drive innovation on the market. Living museum: education and active participation*

**SESSION 7C**

**Replicating Replicas: from 19th Century plaster cast to 3D digital replica**

**ORAL PRESENTATION**

**ROB SHAW, MICHAEL ANN BEVIVINO, GARY DEVLIN**

*Replicating Replicas: from 19th Century plaster cast to 3D digital replica*

**MARIA CHIARA LIGUORI**

*Manifold digital applications for a multitarget communication: the Etruscan virtual experience*

**PAOLA DI GIUSEPPANTONIO DI FRANCO**

*The performance of heritage: manipulating 3D digital and printed replicas of artefacts inside museums*

**STUART JEFFREY**

*Digital replication, aura and authenticity*

**MHAIRI MAXWELL**

*Digital-Design-Archaeology: integrating digital and traditional making in re-creating a Pictish drinking horn fitting.*

**SOFIA PESCARIN, IVANA CERATO**

*Archaeological Museums: requirements, expectations, digital perspectives*

**PABLO ROCES COTO, MERCEDES FARJAS ABADÍA, SABAH JASIM**

*Digital representation of archaeological pieces: 3D modelling, replicas and metrics*

**STEFANIA POESINI, LUCIA SARTI, VINCENZO DE TROIA, PAOLO MACHETTI**

*Computer applications for multisensory communication on cultural heritage*

**TEIJA TUULIA OIKARINEN**

*Utilisation of a game engine for archaeological visualisation*

**POSTER**

**BLANCA GUINEA, GUILLERMO PUENTE, ANDRES BUSTILLO**

*Using Rapid Prototyping and 3D renders to explain strong modified cultural heritage: the case of the Ducal Palace in Lerma (Spain)*

**DOMENICO LO VETRO, FRANCESCO ENRICO ORTISI, ANGELO SECCI, GIOVANNA PIZZIOLO, MICHELE DE SILVA, LUCIA SARTI, FABIO MARTINI**

*Florence before Florentia. For the building up of a virtual Archaeological Museum of the Florentine area*

**SESSION 7D**

**About reasoning and the illusiveness of interfaces in the practice of digital and virtual archaeology**

**ORAL PRESENTATION**

**JAVIER PEREDA**

*Enhancing Engagement with Online Cultural Heritage*

**BRUNO FANINI, ALFONSINA PAGANO**

*Visual and rewarding strategies in gesture-based Serious Games*

**TOMMASO EMPLER, FABIO QUICI**

*Paleontology 2.0 - Public awareness of paleontological sites thorough new technologies*

**TOMMASO EMPLER, MATTIA FABRIZI**

*Interactive communication and Cultural Heritage*

**POSTER**

**MARCO ORLANDI, SIMONE ZAMBRUNO, ANTONINO VAZZANA**

*One-to-one or one-to-many? An analysis of digital media for exploitation of academic outcomes*

**ANDREA FRATTA, LORENZO BALDASSARRO, FABIO GIUSEPPE ANTONIO GAGLIARDI, CRISTIANO MOSCARITOLO**

*The Castle of Deliceto. Two proposals for archaeological knowledge sharing*

**SESSION 8A**

**Digital cities: documenting and transmitting the archaeological-architectonical record**

**ORAL PRESENTATION**

**BERNARD D. FRISCHER, PAOLO LIVERANI, MATTHEW R. BRENNAN**

*Documenting and Restoring the Augusteum of Rusellae (Roselle, Italy)*

**FRANCESCA ANICHINI, MARA FEBBRARO, GABRIELE GATTIGLIA, FABIANA SUSINI, VALERIO NOTI**

*The representation of archaeological-architectonical record of Pisa*

**JOSÉ MARÍA MARTÍN CIVANTOS, MÉRIDA RAMÍREZ BURGOS**

*GIS and digital platform for Guadix (Granada, Spain)*

**ALEXANDRA CHAVARRIA**

*Digital Padova: recording, analysing and telling stories of a medieval city*

**POSTER**

**ALFONSO IPPOLITO**

*Archaeological data virtualization for the purpose of digital documentation and reconstruction*

**MARCO NEGRONI, SERENA DIMA, RACHELE ZAPPA, MARIA CLARA FROSI, MONIQUE PASINI**

*Piazza dei Mercanti (Milano): Cardboard google’s inexpensive virtual reality (VR) applied to cultural heritage promotion.*

**SESSION 8B**

**Urban Digital-Scapes: Computer application to the study of past urban developments**

**ORAL PRESENTATION**

**GABRIELLA CARPENTIERO, LEONARDO BIGI, CARLO TESSARO**

*Multi-scale approach for the reconstruction of past urban environment. From Remote Sensing to close range analysis: the case of Dionysias (Fayoum, Egypt)*

**BARTOMEU VALLORI-MÁRQUEZ, MIGUEL ÁNGEL CAU ONTIVEROS**

*The Roman city of Palma (Mallorca, Balearic Islands). The use of rescue archaeology data to redefine a Roman city through a GIS project.*

**MAURA MEDRI, VALERIA DI COLA**

*Baths of the Swimmer and Sanctuary of Bona Dea in Ostia (V, X,2): a Spatial Analysis application*

**HANNA STÖGER**

*A Space Syntax enquiry into ancient Roman neighbourhoods: Can we measure community-building in Roman cities?*

**CHIARA PICCOLI, JOHN BINTLIFF**

*Enhancing GIS urban survey data with the 3rd dimension: a procedural modelling approach*

**ERMAL SHPUZA**

*The effect of gridiron street pattern on urban growth: evolution of Adriatic and Ionian coastal cities 1800-2010*

**BENJAMIN N. VIS**

*Shaped by the Paths Shaping the City: Examples of BLT Mapping Maya Urban Circulation Space*

**JEFFREY BARRON GLOVER, ROBERT BRYANT, BRENNAN COLLINS, TIM CRIMMINS, MARNI DAVIS, JOE HURLEY, IAN JOHNSON, MICHAEL PAGE**

*The digital Atlanta project: an interdisciplinary approach to remapping Atlanta’s past*

**SORIN HERMON, GEORGIOS ARTOPOULOS, NIKOLAS BAKIRTZIS**

*3D virtual environments for simulating past urban experiences in pluri-cultural spaces – the Pafos Gate, Nicosia as a case-study*

**POSTER**

**PAOLO BUONORA**

*Descriptio Urbis – A WebGIS to reconstruct urban landscapes of Rome.*

**SESSION 8C**

**Digital methods in exploring and explaining the development of protourban centres**

**This session is kindly supported by the COST Transdomain Action, Colour and Space in Cultural Heritage (COSCH; http://www.cosch.info)**

**ORAL PRESENTATION**

**JORN SEUBERS**

*By the grace of the plough*

**ANGELO AMOROSO**

*Markers to define the proto-urban centers and their territory in Latium Vetus*

**ULLA MAARIT RAJALA**

*The Final Bronze Age – Early Iron Age transition in southern and northern Etruria: GIS, territories, agricultural production and settlement change*

**ALESSANDRO GUIDI, FRANCESCA FULMINANTE, SERGI LOZANO, LUCE PRIGNANO**

*Networks and Urbanization in Etruria and Latium vetus (1175/1150-500 BC)*

**MARIZA CHRISTINA KORMANN, STELLA KATSAROU, DORA KATSONOPOULOU, GARY LOCK**

*Structural Integrity Modelling of an Early Bronze Age “Corridor House” in the Peloponnese*

**ANDREAS VIBERG, ULLA RAJALA, ARJA KARIVIERI, ELENA SORGE, ALESSANDRO FURIESI, LENA HOLMQUIST, MARIA LOWE FRI**

*The Stockholm Volterra Project–geophysics, photogrammetry and GIS mapping in exploring the historic centre of Volterra, Italy, from the Etruscan to the medieval period*

**WOJCIECH EJSMOND, JULIA MARIA CHYLA, TEODOZJA RZEUSKA, DAWID FELIKS WIECZOREK, PIOTR WITKOWSKI, MARCIN JAKUB ORDUTOWSKI, MARZENA OŻAREK-SZILKE, DANIEL TAKACS**

*Gebelein Archaeological Site Complex in Egypt – Shift from Capital of Predynastic, through Capital of Protostate to Administrative Centre in Dynastic Era*

**LISA FISCHER**

*Creating Virtual Williamsburg: Modeling an Eighteenth-Century American City in 3D*

**SESSION 9A**

**Towards a Theory of Practice in Applied Digital Field Methods**

**ORAL PRESENTATION**

**DANIELE FERDANI, GIOVANNA BIANCHI**

*Recording, preservation and interpretation of a medieval archaeological site integrating different 3d technologies*

**SORIN HERMON, LOLA VICO, FRANCO NICCOLUCCI**

*On the intricacies of scientifically 3D modelling a building from the past and formally representing its underlying reasoning process – The Santa Cristina sanctuary site (Sardegna, Italy) as a case-study*

**JEROEN DE REU**

*Image-based 3D reconstruction: the future of archaeological excavation practice?*

**FABRIZIO GALEAZZI**

*Finding a Place for the New: Integrating 3D recording techniques with traditional practices of archaeological documentation.*

**LUCA BEZZI, ALESSANDRO BEZZI, RUPERT GIETL, GIANLUCA FONDRIEST, GIUSEPPE NAPONIELLO, MATTIA SEGATA**

*Professional archaeology: innovations and best practices in digital methodologies. Through an Open Research*

**SAMANTHA STOUT**

*Cyberarchaeology and interdisciplinary collaboration – A critical analysis of the adoption of digital technologies in archaeology in the case of CISA3 fieldwork in Jordan*

**COLLEEN MORGAN**

*The Death (and Afterlife) of Archaeological Photography*

**ERIK KJELLMAN, ANJA ROTH NIEMI**

*Lens distortion: perspectives on reflexivity and interpretation in digital field archaeology. Case studies from Northern Norway*

**PATRICIA MARTÍN-RODILLA, CESAR GONZALEZ-PEREZ, PATRICIA MAÑANA-BORRAZÁS**

*A conceptual and visual proposal to decouple material and interpretive information about stratigraphic data*

**HEATHER RICHARDS-RISSETTO, KRISTIN LANDAU**

*Lessons in Translation: From Analog to GeoDigital*

**PIRAYE HACIGÜZELLER**

*The Archaeological Process and its Progress in the Age of Digital Cartography: a View from Çatalhöyük*

**SARA PERRY**

*Challenging the remit of applied digital field methods*

**MATTEO SORDINI, FRANCESCO BROGI, STEFANO CAMPANA**

*3D recording of archaeological excavation: the case of study of Santa Marta, Tuscany, Italy.*

**AMANDA CLARKE, MICHAEL JOHN RAINS**

*The Use of Digital Technologies in the Silchester Town Life Project*

**POSTER**

**SORIN HERMON, ELEFTERIOS CHARALAMBOUS, LOLA VICO, NIKOLAS BAKIRTZIS, GIANCARLO IANNONE**

*Characterization of physical damages on ancient carved structures – a 3D quantitative and qualitative approach. Tomb 6 of the Pafos Tombs of the Kings complex as a case-study*

**VALENTINA VASSALLO**

*A virtual bridge between Sweden and Cyprus: the case study of Agia Irini*

**ARIANNA TRAVIGLIA, STEPHEN WHITE, ANDREW WILSON, BEATRICE MCLOUGHLIN**

*Digital practice in archaeological fieldwork: theoretical frameworks of 'going digital'.*

**PETER JENSEN, CASPER SKAANING ANDERSEN**

*3D Documentation Workflow of Archaeological Excavations*

**SESSION 9B**

**Computational Ancient Environments. Can archaeologists extend themselves?**

SESSION DELETED

**SESSION 9C**

**Modelling the archaeological process**

**ORAL PRESENTATION**

**SORIN HERMON, VALENTINA VASSALLO, LOLA VICO, ELENA CHRISTOPHOROU, GIANCARLO IANNONE**

*A 3D visual and geometrical approach to epigraphic research; the Soli (Cyprus) inscription as a case study*

**ISTO HUVILA, DANIEL LÖWENBORG, LISA BÖRJESSON, BODIL PETERSSON, NICOLÒ DELL’UNTO, PER STENBORG**

*What is archaeological information?*

**MATTHIAS LANG, CHRISTIAN CHIARCOS, PHILIP VERHAGEN**

*IT-assisted Exploration of Excavation Reports - Using Natural Language Processing in the archaeological research-process*

**ANNA MARIA MARRAS**

*Mind mapping and archaeological research. Concepts, themes and know-how dissemination*

**SVETA MATSKEVICH, ILAN SHARON**

*Modelling the archaeological record: A look from the Levant – past and future approaches*

**STAVROS ANGELIS, AGIATIS BENARDOU, NEPHELIE CHATZIDIAKOU, PANOS CONSTANTOPOULOS, COSTIS DALLAS, LORNA M. HUGHES, LEONIDAS PAPACHRISTOPOULOS, ELIZA PAPAKI, VAYIANOS PERTSAS**

*Documenting and reasoning about research on ancient Corinthia using the NeDiMAH Methods Ontology (NeMO)*

**IGOR BOGDANOVIC, JUAN ANTONIO BARCELÓ, ANTONI PALOMO, RAQUEL PIQUÉ, XAVIER TERRADAS**

*From Data to Knowledge - telearchaeological approach*

**ALBERTO BELUSSI, SARA MIGLIORINI, PATRIZIA BASSO, PIERGIOVANNA GROSSI**

*The Archaeological Urban Information System of the Historical Heritage of Verona*

**POSTER**

**KAVEH YOUSEF POURAN, JUAN ANTON BARCELÓ, MARIA SAÑA SEGUÍ**

*Extending Archaeozoology, from computer visualization to behavior dynamics: understanding early animal domestication through coupling functional morphology and locomotion Biomechanics*

**PATRIZIA GIOIA, LIVIA RIGA, RITA VOLPE**

*How can the archaeologist “reconstruct” himself by “reconstructing” the ancient landscapes? Drawing and telling life in ancient suburbs of Rome*

**SESSION 9D**

**The service of digital, virtual, and cyber archaeology in the construction of archives of human identity**

SESSION DELETED

**SESSION 9E**

**Moving the focus from "know how" to "know why" 3D modeling cultural heritage**

**ORAL PRESENTATION**

**MAURIZIO CATTANI, FLORENCIA DEBANDI, ANDREA FIORINI**

*3D documenting archaeological excavations: a case study with field operations and some considerations on the Bronze Age nuragic settlement of Tanca Manna (Nuoro - Sardinia)*

**LORENZO TEPPATI LOSÈ**

*Integrated survey techniques for the study of an archaeological site of medieval Morocco.*

**MARC GRELLERT, MIEKE PFARR-HARFST, PIOTR KUROCZYNSKI, SANDER MÜNSTER**

*Virtual Reconstruction and Scientific/Academic 3D Models – Fundamental Considerations*

**FEDERICO BUCCELLATI, ERIC KANSA**

*The Value of Energetic Analysis in Architecture as an Example for Data Sharing*

**MARTIN UNOLD, FREDIE KERN**

*Annotating instead of Modelling*

**POSTER**

**ELEONORA GANDOLFI, GRANT COX**

*New techniques in archaeology: which is the most accurate?*

**SESSION 9F**

**Machine learning and Pattern Recognition for Archaeological Research**

**ORAL PRESENTATION**

**GEORG ROTH**

*Improving clustering: Using silhouettes to estimate the optimal number of clusters.*

**DIEGO JIMENEZ-BADILLO, SERGIO MOTA-GUTIERREZ, SALVADOR RUÍZ-CORREA**

*A new approach for classifying archaeological objects based on 3D shape similarity analysis*

**YUHE ZHANG, PENGBO ZHOU, KANG LI, GUOHUA GENG, XIANRAN WEI**

*Virtual Restoration Method of Terracotta Warriors and Horses of Qin based on classified template registration in collections of 3D models*

**STÉPHANIE DUBOSCQ, JUAN ANTONIO BARCELO, KATIA FRANCESCA ACHINO, BERTA MORELL, FLORENCE ALLIESE, JUAN FRANCISCO GIBAJA**

*Discovering prehistoric ritual norms. A machine learning approach (ONLY one reviewer answered the request).*

**ELENA SIZIKOVA, THOMAS FUNKHOUSER**

*Automatically Assembling Frescos from Noisy Pairwise Fragment Measurements*

**DIEGO JIMENEZ-BADILLO, EDGAR ROMAN-RANGEL**

*Application of the bag-of-words approach to the analysis of archaeological sherds and artifacts*

**ØYVIND ØDEGÅRD, STEIN M. NORNES, THIJS J. MAARLEVELD, ASGEIR J. SØRENSEN**

*Autonomy in Marine Archaeology*

**VLAD-ANDREI LĂZĂRESCU, VINCENT MOM**

*Pottery Studies of the 4th Century Necropolis at Bârlad-Valea Seacă, RO*

**POSTER**

**JULIA L GALLIKER**

*Application of computer vision to cross-collection characterisation of historic silk textiles attributed to Mediterranean production centres c. AD 600-1300*

**HUBERT MARA, BARTOSZ BOGACZ**

*A Bridge to Digital Humanities: From Geometric Methods to Machine Learning for Analyzing Ancient Script in 3D*

**MICHAIL PANAGOPOULOS**

*Identifying patterns on prehistoric wall paintings: A new curve fitting approach*

**MARTINA TROGNITZ**

*Computer based analysis of multi-sided Aegean seals*

**SESSION 10A**

**ArcheoFOSS: free/open source software and archaeological research, ten years later**

**ORAL PRESENTATION**

**ALESSANDRO BEZZI, LUCA BEZZI, FABRIZIO FURNARI, ROMAIN JANVIER**

*ArcheOS Theodoric v. 5.0, ten years later*

**LUCA MANDOLESI**

*pyArchInit- python for archaeology - Part II*

**JERZY SIKORA, JACEK SROKA, JERZY TYSZKIEWICZ**

*Strati5 - open mobile software for Harris matrix*

**LOUP BERNARD**

*ArkeoGIS, merging European archaeological sites, artefacts and geographical datas online : state of art and further developments*

**FINNEGAN POPE-CARTER, CHRYS HARRIS, THOMAS SPARROW, CHRIS GAFFNEY**

*ArchaeoPY: Developing Open Source Software for Archaeological Geophysics*

**MARCO CALLIERI, MATTEO DELLEPIANE, MARCO POTENZIANI, GUIDO RANZUGLIA, ROBERTO SCOPIGNO**

*Open source for CH: experience gained in ten years of service*

**IAN JOHNSON**

*Building domain-agnostic databases using design patterns*

**NÉHÉMIE STRUPLER**

*Archaeological science as community enterprise*

**GABRIELE GATTIGLIA, FRANCESCA ANICHINI**

*#epicfail? Has Open Source in archaeology failed?*

**ANNA MARIA MARRAS, VALERIA BOI, CETTINA SANTAGATI**

*Open access and best practices in public archaeology*

**SESSION 10B**

**Electronic resources for archaeology: from databases to digital open data**

**ORAL PRESENTATION**

**DOUG ROCKS-MACQUEEN**

*The Past and Future of Open Access in Archaeology*

**FRANCESCA ANICHINI, MARGHERITA BARTOLI, PAOLA LILIANA BUTTIGLIONE, ELEONORA DELPOZZO, ILENIA GALLUCCIO, GABRIELE GATTIGLIA, CLARA ANNARITA GIANNITRAPANI, SILVIA LISCHI, SAVERIO GIULIO MALATESTA, FLAVIA MORANDINI, DANIELA MUSMECI, FELICE PERCIANTE, MARIELA QUARTARARO, SARA LINDA RUSSO, FRANCESCA SIMI**

*Are the open archaeological data fashionable? The Italian Manifesto for Open Data in Archaeology (MODA)*

**ALESSANDRA CARAVALE, ALESSANDRA PIERGROSSI**

*Digital resources for archaeology. The contribution of the on-line projects by ISMA-CNR*

**VALERIA BOI, MIRELLA SERLORENZI, ILARIA JOVINE, MILENA STACCA**

*SITAR: starting point, challenges and future development of an archaeology data sharing platform*

**FEDERICO NURRA**

*Use of cartographical Open Data in the context of the project SITAN*

**ANDREW DUFTON, MICHAEL JOHNSON, ELIZABETH FENTRESS**

*Exploring sustainable publication and the web: a case-study from the Villa Magna Project*

**STEFANO COSTA, ALESSANDRO CARABIA, ENRICO ZANINI**

*GQBWiki goes open*

**MONTEIL AURÉLIE, BOULETREAU VIVIANE**

*Archaeological contents: from open access to open data*

**FINNEGAN POPE-CARTER, GRAEME ATTWOOD**

*Legacy Data - Open strategies for closed data*

**ANTHONY CORNS, LOUISE KENNEDY**

*From Lamp-light to Laser-light: Opening access to the historic and contemporary imaging of monuments*

**NICHOLAS ANDRE HOLMER, BUCK BENSON, JESSE PRUITT, ROBERT SCHLADER, NICHOLAS CLEMENT, HERBERT D.G. MASCHNER, COREY SCHOU, JONATHAN HOLMES**

*From past to present: Reconciling years of Arctic archaeological data into a single visual database*

**TAMAKI SUZUKI, IVAN VASILIEV**

*High-resolution Image Database for the Conservation of Cultural Heritage: Documentation of Architecture and Paintings of the Medieval Churches in the East Europe.*

**POSTER**

**YUE MENG, MINGQUAN ZHOU, WUYANG SHUI**

*Tibet Cultural Resources Digital Network Exhibition Platform Based On Blog System*

**BASTIEN VAROUTSIKOS**

*Obsidatabase: a collaborative interdisciplinary platform on Near Eastern obsidian*

**MARIAGRAZIA GALIMBERTI, NICHOLAS GEORGE WILTSHIRE, KYLA BLUFF**

*Rolling Out Free And Open Source National Heritage Systems To Record Archaeological Sites*

**MATTHIAS LANG, MANUEL ABBT, GERLINDE BIGGA, JASON T. HERRMANN, VIRGINIA HERRMANN, FABIAN SCHWABE, DIETA SVOBODA**

*A Swabian in the Orient - in the footsteps of Julius Euting - Bridging the gap between Digital Humanities and Digital Archaeology*

**SILVIA LISCHI, FRANCESCA SIMI**

*Open Data and Near Eastern Archaeology*

**SESSION 11**

**OPEN SESSION**

**ORAL PRESENTATION**

**EVA PIETRONI, DANIELE FERDANI, AUGUSTO PALOMBINI, MASSIMILIANO FORLANI, CLAUDIO RUFA**

*Lucus Feroniae and Tiber Valley virtual musem: from documentation and 3D reconstruction, up to a novel approach in storytelling, combining virtual reality, cinematographic rules, interaction and "ugmented" perception of the archaeological context*

**STEPHANIE R ROGERS, PHILIPPE CURDY, MURIEL ESCHMANN RICHON, RALPH LUGON**

*Modelling glacial archaeological potential in the Pennine Alps – A multidisciplinary approach*

**GUY DE MULDER, MARK VAN STRYDONCK**

*Radiocarbon dates, cremations, flatgraves and the appearance of the urnfield cemeteries in Belgium*

**DEJAN VERANIČ, AIXA ANDREETTA**

*The »PALAFITTES GUIDE«: personal guide to the pile dwellers and their settlements*

**POSTER**

**ISTO HUVILA**

*Chatting #fieldnotes : rethinking notetaking workflows in field archaeology*

**MARCO MINOJA GIANFRANCA SALIS**

*Archaeological landscape safeguard and digital media. An example from Sardinia.*

**JOHN R CLARKE**

*The Unity Gaming Engine as a Tool for Scholarship: The 3D Model of Villa A at Oplontis*

**ROCÍO GUTIÉRREZ GONZÁLEZ, MERCEDES FARJAS ABADÍA, ISABEL VELÁZQUEZ SORIANO**

*EPIARQ a step towards standardization and interoperability in the epigraphic cataloguing*

**NÚRIA OTERO**

*Intervisibility analysis and the definition of the western Ilergete territory: the case of Monderes.*

**LANA MELANIE RUCK, CLIFFORD TODD BROWN**

*Quantitative Analysis of Munsell Color Data in Ceramics*

**MELISSA ELLEN GREEN**

*Plugging in: the reciprocal nature of social media and its impact on digital heritage education*

**ANDERS HAST, ANDREA MARCHETTI**

*Stereo Visualisation of Historical Aerial Photos as a Valuable Tool for Archeological Research*

**MARIA PIA DI BUONO**

*Entity Recognition for Archaeological Texts: an Ontology-based Su-pervised Approach*

**JOSÉ IGNACIO FIZ**

*Using SAGA GIS to detect ancient lakes or flooding areas*

**EVA PIETRONI, MASSIMILIANO FORLANI, CLAUDIO RUFA, ANDREA ADAMI, STEFANO BORGHINI, RAFFAELE CARLANI**

*The Villa dei Volusii and Tiber Valley Virtual Museum: from the digital acquisition on the filed to the 3D recontruction, up to a novel approach in interactive storytelling inside VR environment*

**PETER ANTHONY INKER**

*Virtual Williamsburg - Contextualizing data to construct a multi-layered user experience*

**ANTONIO GARCÍA CASTAÑEDA, TOM FUNKHOUSER, BENEDICT BROWN, SZYMON RUSINKIEWICZ, TIM WEYRICH**

*Verification-Minimal Assembly of Fragmented Frescoes*

**FABIÁN ARIEL DE HARO**

*Archeology and GIS in the hills of Tandilia Buenos Aires Argentina*