Electronic Visualisation and the Arts (EVA 2011)

London, UK

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Editors

Dr. Stuart Dunn

Prof. Jonathan P. Bowen

Dr. Kia C. Ng

Abstract

Electronic Visualisation and the Arts 2011 (EVA 2011) is co-sponsored by the Computer Arts Society and BCS, the Chartered Institute for IT, of which the CAS is a specialist group. Over almost two decades, the EVA conference has established itself as one of London's most innovative and interdisciplinary conferences in the field of digital visualisation. The papers in this volume touch on museum studies, semantic web, immersive environments, simulation, 3D scanning, haptics, digital archaeology and many others. The latest research by established scholars, early career researchers and students may be found here.

Full Synopsis

Electronic Visualisation and the Arts 2011 (EVA 2011) is co-sponsored by the Computer Arts Society and BCS, the Chartered Institute for IT, of which the CAS is a specialist group. Over almost two decades, EVA has established itself as one of London's most innovative and interdisciplinary conferences in the field of digital visualisation. The papers in this volume touch on museum studies, semantic web, immersive environments, simulation, 3D scanning, haptics, digital archaeology and many others. The latest research by established scholars, early career researchers and students may be found here.

Across the three days of papers, contributions can be found on museums; technologies and human computer interaction; digitisation and the digitisation process; social networking and social media; virtual worlds which are becoming ever more ubiquitous and usable; 3D imaging technology, education and philosophy; performance, and the arena of cultural heritage policy and administration. The geographic areas covered by the research reported include Russia, Italy, Spain, Scotland and the Dead Sea, as well as the geographically neutral realms of cyberspace. This illustrates the increasingly fluid definition of the word 'Visualisation': whereas once this indicated a relatively straightforward process of turning binary or textual information into graphics, now constructing visualisations means negotiating a whole array of semantic, political and content-related issues. The papers in this collection confront this 'complexity deluge' in visualisation from a myriad of different perspectives, and challenge us to re-think its most fundamental concepts.

Editors

This conference was edited by:

Dr. Stuart Dunn - Centre for e-Research, King's College London, UK, www.stuartdunn.wordpress.com, stuart.dunn@kcl.ac.uk

Dr. Stuart Dunn is a Research Fellow at the Centre for e-Research at King's College London. He has varied interests, spanning digital archaeology, visualisation in cultural heritage, and GIS in the humanities. He has published in all these areas; is a co-organiser of the London Digital Classicist group, and a member of the JISC Geospatial Data workgroup. He has worked on the digital reconstruction of Iron Age round houses, on English place names, and on various Web 2.0 digital community projects.

Prof. Jonathan P. Bowen - London South Bank University / University of Westminster / Museophile Limited, UK, www.jpbowen.com, jonathan.bowen@lsbu.ac.uk

Prof. Jonathan P. Bowen, FBCS, FRSA, is Chair of Museophile Limited, a museum and IT consultancy company that he founded in 2002. He is also a Visiting Professor at University of Westminster since 2010 and an Emeritus Professor at London South Bank University since 2007. Previously he was a Visiting Professor at King's College London (2007-2009) and the University of Waikato in New Zealand (2010). In the past, he has held posts at the University of Reading, the Oxford University Computing Laboratory, and Imperial College, London. He is an enthusiastic contributor to Wikipedia on museum and computing-related topics.

Dr. Kia C. Ng - ICSRiM - University of Leeds, School of Computing & School of Music, Leeds, UK, www.kcng.org, kia@kcng.org, k.c.ng@leeds.ac.uk

Dr. Kia C. Ng, PhD, FRSA, FIoD, CEng, CSci, is Director of the Interdisciplinary Centre for Scientific Research in Music (ICSRiM) at the University of Leeds. Kia is involved in several research domains including gestural interfaces, interactive multimedia, computer vision, document imaging and computer music, in collaboration with many European and international organisations and individuals in the field. Large-scale projects include i-Maestro on technology-enhanced learning (coordinator), CASPAR on digital preservation and AXMEDIS on cross-media with over 20M Euro research funding. Kia has more than 160 publications, presented keynotes and invited lectures in over 30 countries.

Papers:

Plenary Session: The three dimensions

Paul Richens and Marion Harney Reconstruction of Historic Landscapes
<http://dx.doi.org/10.14236/ewic/EVA2011.1>

Nick Lambert From the dome of heaven to a cupola in space: re-engaging with imagery and symbolism through 3D digital art installations
<http://dx.doi.org/10.14236/ewic/EVA2011.2>

Stephanie Adolf Optical Measurement Techniques for multi-dimensional measurement of Cultural Heritage
<http://dx.doi.org/10.14236/ewic/EVA2011.3>

Plenary Session: Museums: technologies and interactions

Sarah McDaid, Silvia Filippini-Fantoni and Matthew Cock Handheld handholding: small-screen support for museum visitors
<http://dx.doi.org/10.14236/ewic/EVA2011.4>

Oluwaoyin Sogbesan and Natalia Grincheva 'Universal' access in 3000 years? The Digital Collections of the State Hermitage Museum
<http://dx.doi.org/10.14236/ewic/EVA2011.5>

Danny Birchall 'Things': a case study in getting from accession to online display in 60 minutes
<http://dx.doi.org/10.14236/ewic/EVA2011.6>

Koula Charitonos, Canan Blake, Eileen Scanlon and Ann Jones Museum Learning 2.0: How (can) Web 2.0 technologies be used for enhancing the museum learning experience?
<http://dx.doi.org/10.14236/ewic/EVA2011.7>

Plenary Session: New digitizations

Chris Rowland Fishing with sound: An aesthetic approach to Visualising our Maritime Heritage
<http://dx.doi.org/10.14236/ewic/EVA2011.8>

Anthony Head 3D Weather - Towards a Real-time 3D Simulation of Localised Weather

<http://dx.doi.org/10.14236/ewic/EVA2011.9>

Yi-Hui Huang Understanding digital-altered photographs through photographers' views of reality: Matt Siber as an example <http://dx.doi.org/10.14236/ewic/EVA2011.10>

Richard Laing and Johnathan Scott The Devil is in the Detail
<http://dx.doi.org/10.14236/ewic/EVA2011.11>

Parallel Session: Social Networking

Rob Burton 'Kiki Salon Presents...': A Journey into Conceptual Brand and Product Development utilising Social Networking and New Media to Analyse Issues of Diversity, Authenticity and Collaborative Practices in Art and Design <http://dx.doi.org/10.14236/ewic/EVA2011.12>

Maureen Kendal and Alan Hudson On the Beach - A handbook for using 3D virtual digital platforms like Second Life - 'the WEISL' - 'Writing Explorations in Second Life'
<http://dx.doi.org/10.14236/ewic/EVA2011.13>

Doron Goldfarb, Max Arends, Josef Froschauer, Dieter Merkl and Martin Weingartner Combining Cultural Heritage Related Web Resources in 3D Information Landscapes
<http://dx.doi.org/10.14236/ewic/EVA2011.14>

Parallel Session: Demonstrations

Jan Wojdziak, Martin Zavesky, Ingmar S. Franke, Christian Lambeck and Rainer Groh Guest Login - Visitor-centred Information Design <http://dx.doi.org/10.14236/ewic/EVA2011.15>

Parjad Sharifi Whispers of The Still City <http://dx.doi.org/10.14236/ewic/EVA2011.16>

Marilli Mastrantoni and Evangelos Haviaris De-Fences
<http://dx.doi.org/10.14236/ewic/EVA2011.17>

Plenary Session: Virtual Worlds

Paul Hazelwood, Amanda Oddie, Steve Presland and Brian Farrimond 3D Spatiotemporal Reconstruction of Places and Events for Digital Heritage <http://dx.doi.org/10.14236/ewic/EVA2011.18>

Amanda Oddie, Paul Hazelwood, Brian Farrimond and Steve Presland Applying Deductive Techniques

to the Creation of Realistic Historical 3D Spatiotemporal Visualisations from Natural Language Narratives
<http://dx.doi.org/10.14236/ewic/EVA2011.19>

Simon Elliott The Garden of Ideas <http://dx.doi.org/10.14236/ewic/EVA2011.20>

Keynote Paper

Paul Squires Digital Publishing: tension and attention <http://dx.doi.org/10.14236/ewic/EVA2011.21>

Plenary Session: Visualisation of Spaces

Amir Soltani Embodied Airborne Imagery: Low-Altitude Urban Filmic Topography
<http://dx.doi.org/10.14236/ewic/EVA2011.22>

Richard Beales, Ajay Chakravarthy, Sam Kuhn, Steve Luther, Michael Selway, Mike Stapleton and James Stevenson ICON: Authentic 3D Cultural Heritage Models for the Creative Industries
<http://dx.doi.org/10.14236/ewic/EVA2011.23>

Xin Li, Xia Zhang, Peng Cui, Zhiyong Fu, Shiqiang Yang and Baoguo Cui The Visualization of Mass Information in Social Network with a Holistic View <http://dx.doi.org/10.14236/ewic/EVA2011.24>

Graham Diprose and Mike Seaborne An Alternative Approach to Conserving Digital Images into the 23rd Century <http://dx.doi.org/10.14236/ewic/EVA2011.25>

Parallel Session: 3D Imaging Technology

Richard Collmann and Dirk van der Knijff Virtual 3D Object Imaging for Cultural Artefacts: Demonstrator <http://dx.doi.org/10.14236/ewic/EVA2011.26>

Graeme Earl, Philip Basford, Alexander Bischoff, Alan Bowman, Charles Crowther, Jacob Dahl, Michael Hodgson, Leif Isaksen, Eleni Kotoula, Kirk Martinez, Hembo Pagi and Kathryn E. Piquette Reflectance Transformation Imaging Systems for Ancient Documentary Artefacts
<http://dx.doi.org/10.14236/ewic/EVA2011.27>

Lindsay W. MacDonald Visualising an Egyptian Artefact in 3D: Comparing RTI with Laser Scanning
<http://dx.doi.org/10.14236/ewic/EVA2011.28>

Parallel Session: Education and Philosophy

Charlotte Crofts Technologies of seeing the past: the Curzon memories App

<http://dx.doi.org/10.14236/ewic/EVA2011.29>

Colette Tom Digital Simulation: a new kind of artifice? <http://dx.doi.org/10.14236/ewic/EVA2011.30>

Karen Cham The architecture of the image <http://dx.doi.org/10.14236/ewic/EVA2011.31>

Parallel Session: History

Xavier Laumain, Angela López Sabater and Carlos Huerta Gabarda Virtual technologies for
archaeological studies of Nolla's ceramic mosaics <http://dx.doi.org/10.14236/ewic/EVA2011.32>

Tessa Morrison and Ning Gu What architectural historians can learn from augmented reality
technologies? <http://dx.doi.org/10.14236/ewic/EVA2011.33>

Elena Logdacheva, Yuri Vinogradov, Sergei Shvemberger and Nikolay Borisov 3D reconstruction of
Cimmerian Bosphorus painted crypts <http://dx.doi.org/10.14236/ewic/EVA2011.34>

Alan Payne, Peter Fry, Heather Lane, Robert Smith and Julio D'Escrivan Semantic browsing: a new way
to explore and discover heritage treasures <http://dx.doi.org/10.14236/ewic/EVA2011.35>

Dimitris Mylonas and Lindsay MacDonald An online colour naming workshop
<http://dx.doi.org/10.14236/ewic/EVA2011.36>

Plenary Session: Digital Art

Sean Clark Revisiting interactive art systems <http://dx.doi.org/10.14236/ewic/EVA2011.37>

Donatella Barbieri Encounters in the archive - capturing the experience of the interaction between
the artist and the archive <http://dx.doi.org/10.14236/ewic/EVA2011.38>

Azadeh Mohammadi and Taraneh Meshkani Interactive wallpaper (Panel Session)
<http://dx.doi.org/10.14236/ewic/EVA2011.39>

Keynote Paper

Beryl Graham Museums, new media art, documentation and collection

<http://dx.doi.org/10.14236/ewic/EVA2011.40>

Plenary Session: Performance Technology

Ruth Gibson Capturing stillness: visualisations of dance through motion/performance capture

<http://dx.doi.org/10.14236/ewic/EVA2011.41>

Matt Benatan, Ian Symonds and Kia Ng Mobile notion: multimodal device augmentation for musical applications

<http://dx.doi.org/10.14236/ewic/EVA2011.42>

Grethe Mitchell and Andrew Clarke Capturing and Visualising Playground Games and Performance:
A Wii and Kinect based motion capture system

<http://dx.doi.org/10.14236/ewic/EVA2011.43>

Parallel Session: Performance

Daniel Felstead and Kate Bailey Curating performance installations

<http://dx.doi.org/10.14236/ewic/EVA2011.44>

Paul Wiersbinski TOYs - interactive AV performance

<http://dx.doi.org/10.14236/ewic/EVA2011.45>

Parallel Session: Demonstrations

Radu Moraru, Oana Gui and Pr.Ioan Chirilă 3D modelling of an important symbol of orthodox
wooden churches: the imperial gates

<http://dx.doi.org/10.14236/ewic/EVA2011.46>

Iñigo Giner Miranda Tratado de imágenes (for live trio and video track)

<http://dx.doi.org/10.14236/ewic/EVA2011.47>

Joe Osmond Birdsong for prisoners

<http://dx.doi.org/10.14236/ewic/EVA2011.48>

Plenary Session: Visualisation and the arts

Veronika Reichl The Joy of Visual Metaphors <http://dx.doi.org/10.14236/ewic/EVA2011.49>

Tom Keene The Apple Barrier: an open source interface to the iPhone
<http://dx.doi.org/10.14236/ewic/EVA2011.50>

Susan Jane Jones and Lynne Hall The photograph as a cultural arbitrator in the design of virtual learning environments for personal and social education for children and young people
<http://dx.doi.org/10.14236/ewic/EVA2011.51>

Conference exhibition and research workshop

Martha Gabriel Sensitive Rose and the Cross-media Era
<http://dx.doi.org/10.14236/ewic/EVA2011.52>

Seana McNamara The Norse Myth of Odin - digital art series on thought and memory
<http://dx.doi.org/10.14236/ewic/EVA2011.53>

Javier Pereda Lucha Libre: visualizing behind the mask
<http://dx.doi.org/10.14236/ewic/EVA2011.54>

Mikel Horl Digital rejoinders: time and place, hither and thither, war and peace
<http://dx.doi.org/10.14236/ewic/EVA2011.55>

Anastasios Maragiannis and Emmanouil Kanellos Typographical Experimental Research in AudioVisual Spaces [T.E.R.A.S. lab] <http://dx.doi.org/10.14236/ewic/EVA2011.56>

Phil Taylor The lo-fi phenomenon - analogue versus digital in the creative process
<http://dx.doi.org/10.14236/ewic/EVA2011.57>

Eva Van Passel Sustainable Digital Access to Cultural Heritage: Organizational, Financial and Policy Challenges <http://dx.doi.org/10.14236/ewic/EVA2011.58>

Lewis Sykes The Augmented Tonoscope <http://dx.doi.org/10.14236/ewic/EVA2011.59>

Angeliki Chrysanthi, Constantinos Papadopoulos and Tom Frankland Evaluating 'Tangible Pasts': A Mixed Reality Application for Cultural Heritage <http://dx.doi.org/10.14236/ewic/EVA2011.60>

Joe Osmond Abstract Animation and the Art of Sound <http://dx.doi.org/10.14236/ewic/EVA2011.61>

Renata Gaspar Moving Along: performance and moving-image as contemporary media of a global

circulation of culture <http://dx.doi.org/10.14236/ewic/EVA2011.62>