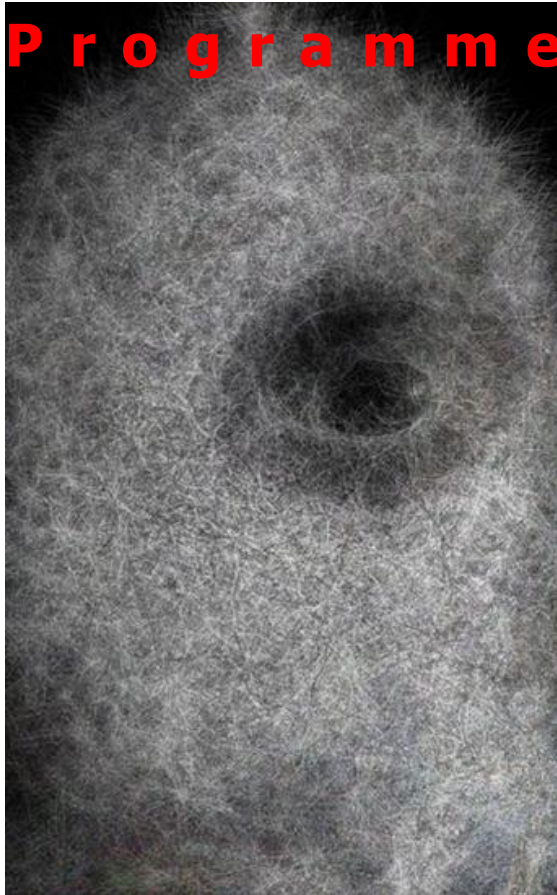


**THE  
Programme**



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Design Department, University of Massachusetts Dartmouth,  
USA



**iV10**

**VIZ'10**

**MEDI'10  
VIS**

**GMAI'10**

**BUILT VIZ'10**



**IV10 & cgiv2010 - DIGITAL ART GALLERY Online Exhibition**  
**July 2010 - June 2011**



VIRTUAL GALLERY VENUE  
[www.graphicslink.co.uk/DART.htm](http://www.graphicslink.co.uk/DART.htm)



**Exhibiting Artists:**

**Akio Yamanaka** // Japan

**Corrinne Whitaker** // member of  
Contemporary Art in Los Angeles and the  
Carmel Gallery Alliance, USA

**Da Young Ju** // Art College Hong-Ik  
University, South Korea

**Dena Elisabeth Eber** // Bowling Green  
State University, OH, USA

**Gabrielle Peters** // University of Applied  
Sciences and Arts Computer Science,  
Germany

**Gloria DeFilipps Brush** //Department  
of Art & Design at the University of  
Minnesota Duluth, USA

**Hans Dehlinger** // University of  
Kassel, Germany

**Harvey Goldman** //University of  
Massachusetts Dartmouth, USA

**James Faure Walker** //Kingston  
University, UK

**Jason Nelson** //Griffith University  
Australia

**Jing Zhou** //New Jersey, USA

**Jonathan Craig Hounshell** //East  
Tennessee State University, USA

**Joohyun Pyune** // USA

**Kathy Brew** // independent videomaker,  
USA

**Roberto Guerra** // Universidad Nacional  
de Ingenieria, Lima Perú

**Kellen Moss** // 3D Animator

**Leslie Nobler Farber** //USA

**Mary Visser** //Southwestern University  
USA

**Monika Wulfers** // USA

**Martin John Callanan** //UCL  
Environment Institute, UK

**Philip Sanders** // New York University  
USA

**Sheila Pinkel** // Pomona College, USA

**Raymond St Arnaud** // Canada

**Victor Acevedo** // USA

**Victor Atman** // USA

**U\_A\_f2-3.3 // U\_A\_f3-1.2 // U\_A\_f3-2.4**  
**© Hans Dehlinger, Professor Emeritus**  
**University of Kassel, Germany**

The subjects are line-oriented generative drawings, executed on a pen-plotter. The drawings make use of straight poly-lines only. By definition, such drawings are "sharp", because of the nature of the lines used. From photographic images "unsharp", (blurred, out of focus) images are well known. The ones we are interested in are the result of an intentional effort of the photographer. The question arises, can drawings be produced that appear to be unsharp despite being produced entirely of sharp lines. The drawings are experiments to generate such drawings. They are coped of three layers of the same drawing which are slightly scaled against each other. The point of origin of scaling is usually not in the center of the drawing.

**A Full-day Course:**  
**Monday 26<sup>th</sup> July 2010, Time: 10:30 -17:00**

### **Art for Visualizers**

Francis T. Marchese, Pace University, NY, NY 10038, USA  
<http://csis.pace.edu/~marchese>

#### **Abstract**

Lectures, panels, and symposia that explore issues at the intersection of art and visualization have become a recurring theme at visualization conferences. Since 2003 the U.S. National Science Foundation and the journal Science have sponsored an International Science and Engineering Visualization Challenge in which many of the winning entries exhibit noteworthy aesthetic qualities that may be considered artistic in nature. And inspirations from artistic movements and practice have stimulated visualization research, particularly in the application of non-photorealistic or expressive rendering techniques to visualization problems.

The confluence of art and visualization has a long history. Indeed, the Paleolithic artists who painted on the cave walls of southwest France may have been the first visualizers. Or was it vice versa? Either way, throughout the intervening millennia visual artists have become proficient at transforming information into representations that are designed to communicate and provoke. The challenge facing a viewer of art is how to decipher an image's content and extract its meaning. This holds true for a viewer of visualizations as well.

Thus, the purpose of this tutorial is to introduce the fundamental skills for analyzing visual art that subsequently may be applied to scientific and information visualizations. It will offer an historical survey of the intersections of art and visualization with an emphasis on examples from contemporary artists, and provide an opportunity for participants to practice these skills within a gallery setting. To this end, the tutorial will be composed of two sessions. A morning session will focus on an historical survey, conceptual foundations, and skill acquisition. An afternoon session convening at The National Gallery of Art (Trafalgar Square), will allow course participants to test their analysis skills on a selection of the gallery's paintings.

#### **Organisation**

**Level of Tutorial:** Introductory

#### **Biography of the presenter:**

**Frank Marchese** is Professor of Computer Science at Pace University where he teaches courses in computer graphics, visualization, human-computer interaction, and software engineering. His research interests span scientific and information visualization; novel user interfaces for visualization; distributed and collaborative visualization; integration of visualization into lifecycles for scientific research and software engineering; and the development of visualization systems at the intersection of art, science, and technology.

He is founder and Director of Pace's Center for Advanced Media (CAM) and the Pace Digital Gallery, the latter of which is collaboration between Pace University's Seidenberg School of Computing and Department of Fine Arts. He has published widely

in science, technology, and art; is editor of the conference proceedings entitled *Understanding Images* published by Springer-Verlag, and is co-chair of Information Visualization 2010 (IV'10).

Dr. Marchese has a Ph.D. in quantum chemistry from the University of Cincinnati and was a National Institutes of Health Postdoctoral Research Fellow specializing in the statistical mechanics of liquids. He has been twice awarded Pace's School of Computing Excellence in Research Award, received the Kenan Award for Teaching Excellence, and been nominated for The Carnegie Foundation Teacher of the Year Award. In December 2008, he was awarded Pace University's Faculty Award for Distinguished Service. He is currently a visiting scholar at New York University's Institute of Fine Arts where he is studying museum curation, the relationship between text and image in medieval art, and the artistic origins of information visualization.

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#### **A Full-day Course:**

**Monday 26<sup>th</sup> July 2010, Time: 10:30 -16:00**

#### **Usability Evaluation and Information Visualisation**

Prof. Keith Andrews, Graz University of Technology, Austria  
<http://www.iicm.edu/keith>

#### **Abstract**

The first part of this tutorial will look at usability evaluation in general. It will cover both usability inspection methods (such as heuristic evaluation, cognitive walkthrough, and action analysis) and usability testing methods (such as thinking aloud tests, formal experiments, and usage studies).

The second part of the tutorial will look specifically at the evaluation of information visualisations. We will step through the design, analysis, and reporting of two usability studies of infovis systems: a formative evaluation (thinking aloud test) and a comparative study (formal experiment).

#### **Organisation**

**Level of Tutorial:** Introductory level

#### **Biography of the presenter:**

**Keith Andrews** is a tenured associate professor at the Institute for Information Systems and Computer Media (IICM) at Graz University of Technology, in Austria. His research interests include information visualisation, human-computer interaction, and the internet. He has a B.Sc.(Hons) in Mathematics and Computer Science from the University of York, England, and an M.Sc. and Ph.D. in Technical Mathematics/Computer Science from Graz University of Technology.

Having lead the Harmony (Unix/X11 browser for Hyperwave) and VRwave (VRML browser) projects for several years, he is currently pursuing research in the field of information visualisation. Keith was program co-chair of the IEEE Symposium on Information Visualization in 2001 and 2002, and general chair in 2005.

Keith teaches undergraduate level courses on Internet and New Media, Human-Computer Interaction, and User Interface Design, and graduate level courses on Information Visualisation and Information Architecture and Web Usability, as well as various short courses and tutorials at conferences and for companies.

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**A Full-day Course:**
**Monday 26<sup>th</sup> July 2010, Time: 10:30 -17:00**
**Fundamentals of visual data mining, information retrieval, extraction, and analysis**

Haim Levkowitz, Associate Professor and Co-Director, Institute for Visualization and Perception Research And Graphics Research Laboratory, Department of Computer Science University of Massachusetts Lowell, USA  
<http://www.cs.uml.edu/~haim/>

**Abstract**

Everyone knows how to "Google"; some people even know that Google is a "search engine"; but very few know that "search engines" are "information retrieval" engines. As the amount of information grows so rapidly, finding the right information, and analyzing it has become more and more challenging. Search technology has -- probably -- been the fastest- and steepest-growth segment, ever. And when you find information, that's just about the beginning of the next challenge: extracting meaning and knowledge out of it.

Today, most of your search queries are formulated by (usually very few) key words -- a very difficult way to express the semantic of your search needs. And the results appear as (very long) lists of text. To find what you've been looking for -- or to find out that it is not there - you need to scan through page after page after page of results, not a very efficient or effective process. Further, if you are trying to find non-textual information (images, sounds), you have very limited resources.

Can we do better than that? Yes. How? By replacing the sequential search through results' text with perceptually-stronger visual mechanisms, often referred to as visual text (or data) mining.

The goals of this course will be:

1. to explore the fundamentals of Information Retrieval and Mining;
2. to understand the basics of visual text and data mining;
3. to learn the most powerful information and knowledge extraction techniques;
4. to understand in what way non-text search and retrieval is different, and in what ways it is similar to text retrieval; and
5. to understand how the combination of these methods can make search much more powerful and effective.

Students will learn basic and advanced information retrieval techniques, visual text and data mining approaches, information and knowledge extraction methods, and their combined applications. In addition to text-based search, the course will examine retrieval of non-textual information (such as images, sounds, video, or any other non-text information) based on non-textual features, not just on text metadata.

The second part of the course will focus on mining and analysis, with a goal to extract meaning and knowledge out of the retrieved information.

Who should attend: researcher and practitioners in the fields of information retrieval and extraction, search, data

mining, and visual analytics, as well as students aspiring to enter these fields.

### **Biography of the presenter:**

**Haim Levkowitz** is an associate professor of computer science and co-director of the Institute for Visualization and Perception Research at the University of Massachusetts Lowell, in Lowell, MA, USA. He is a world-renowned authority on visualization, perception, color, and their application in data mining and information retrieval. He is the author of "Color Theory and Modeling for Computer Graphics, Visualization, and Multimedia Applications" (Springer 1997) and co-editor of "Perceptual Issues in Visualization" (Springer 1995), as well as many papers in these subjects. He has more than 35 years experience in teaching and lecturing, and has taught many tutorials and short courses, in addition to regular academic courses.

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## 3<sup>rd</sup> Doctoral Research Workshop Information Visualisation

*Organised by*  
**Information Visualisation Society**

*In cooperation with*  
**Visualisation & Graphics Research Unit, LSBU  
The Visualization Lab, University of Plymouth**

The Information Visualisation Society (IVS) is an international organization that aims to provide a foundation for integrating the human-centred, technological and strategic aspects of information visualisation in order to promote international exchange, cooperation and development. Building upon the reported success of last year's workshop, IVS is pleased to announce the "**3<sup>rd</sup> Doctoral Research Workshop**" which will run as part of the 14th IEEE International Conference on Information Visualisation (IV10).

### **Doctoral Research workshop**

This workshop focuses on the issues that doctoral students face during their studies and includes following interactive sessions:

- Introduction to "What is a PhD? " from panel members
- A short tutorial on one of the key aspects that PhD issues
- **Case studies** - Presentation of number of case studies from PhD students candidates to the workshop with aim that highlights the issues that facing in the course of their studies.
- **Expert panel feedback** - Each presentation is followed by discussion and suggestion not only from panem members but from fellow researchers.
- **Expert tips on individual PhD student presentation and research.**

### Doctoral Research workshop - programme

- Opening & Welcome from discussion Panel members

1. Training session : **“The PhD in Visualization Starter Kit”** presented by Robert S. Laramée from Swansea University, UK

Writing a PhD in visualization is difficult. And those that are just starting out have not usually acquired all of the key skills necessary for completion since they are not normally taught as part of an undergraduate curriculum. For example, how does a researcher navigate through the vast amounts of previously published literature related to their topic? Furthermore, for some, this may be their first time implementing a larger, long-term project. Developing a large software application requires more knowledge than implementing a small one. Given, a larger sized visualization application, how can bugs and problems be tracked down and eliminated? And what is a good starting point when it comes time to writing a research paper?

This tutorial presents some of the essential skills that a PhD candidate in Visualization acquires during their study including (1) reading and (2) writing research papers as well as (3) implementing and (4) debugging software.

We hope that the guidelines presented here will help jump-start the new researcher's journey towards a PhD in visualization.

List of doctoral research work tabled for discussion are:

- Exploiting Domain Knowledge for Supervised Machine Learning Algorithms, Seifert, Christin, Know-Center Graz, Austria
- Information Visualization of multi-dimensional spike train datasets, Tucker, Roy C., The Visualization Lab, University of Plymouth, UK
- Built Information: Visual communication in digitally augmented public space, Birk, Klaus, University of the Arts London, Research Unit for Information Environments, London, UK
- Evaluating Visualisations of Geographically Weighted Spatial Statistical Methods, Burke, Tommy, National Centre for Geocomputation, National University of Ireland Maynooth, Maynooth, Ireland.

## 3<sup>rd</sup> Information Visualisation SHOWCASE

*Organised by*  
**The Visualization Lab, University of Plymouth**  
**Visualisation & Graphics Research Unit, LSBU**

The SHOWCASE is a cooperative process for the presentation and discussion of your software, ideas and research.

The objective of the SHOWCASE is to provide delegates with the opportunity to present their work in a truly meaningful manner. This event provides presenters with the opportunity to proactively engage with a range of delegates from Academia and Industry in the broad field of Information Visualization.

Authors of posters, accepted for publication in the Book of Abstracts, will be offered a flexible format for display. Additionally, authors of full papers, accepted for publication in the IEEE published Conference Proceedings, may prefer to present their work during the SHOWCASE event, as opposed to the traditional oral presentation.

For example

- You may want to do a traditional poster display.
- You may want to give a demonstration of your software using a laptop.
- You can even bring your own equipment and do something entirely different.

Just let us know what you require and we will discuss these arrangements with you directly.

### **Showcase Interaction**

During the SHOWCASE **interaction** will be **pro-actively supported**. During the session, presenters will be able to request one or more of the following interaction opportunities

- **Usability study:** We can arrange for another IV10 delegate to visit you in order to participate in a usability evaluation

## IV10\_Show Case

- **Peer-to-Peer feedback:** We can arrange for a relevant conference programme committee member or delegate to visit you and provide you with feedback
- **Expert tips:** We can arrange for one of our Experts to visit you briefly during the SHOWCASE event

### Additional Benefits

- Delegates who have the opportunity to present their work via the SHOWCASE event present their work to all IV10 delegates.
- The SHOWCASE is a **unique single track event** scheduled mid-way through the Conference, over a two-hour session.

### Showcase Exhibitors:

117 - OWL Ontology Visualization: Graphical Representations of Properties on the Instance Level

**Kriglstein Simone**

120 - Mid-Season – Visualization of Actor-Networks with the case of a hotel archive

**Kilchör Fabienne**

217 - Incremental Idea Generation System: Indigen

**Chen Sheng-Han & Chang Teng-Wen**

226 - A framework to coordinate multiple data similarity maps

**Eler Danilo Medeiros;**  
**Paulovich Fernando Vieira;**

**Oliveira Maria Cristina**  
**Ferreira & Minghim Rosane**

229 - Incremental Idea Generation System: Indigen

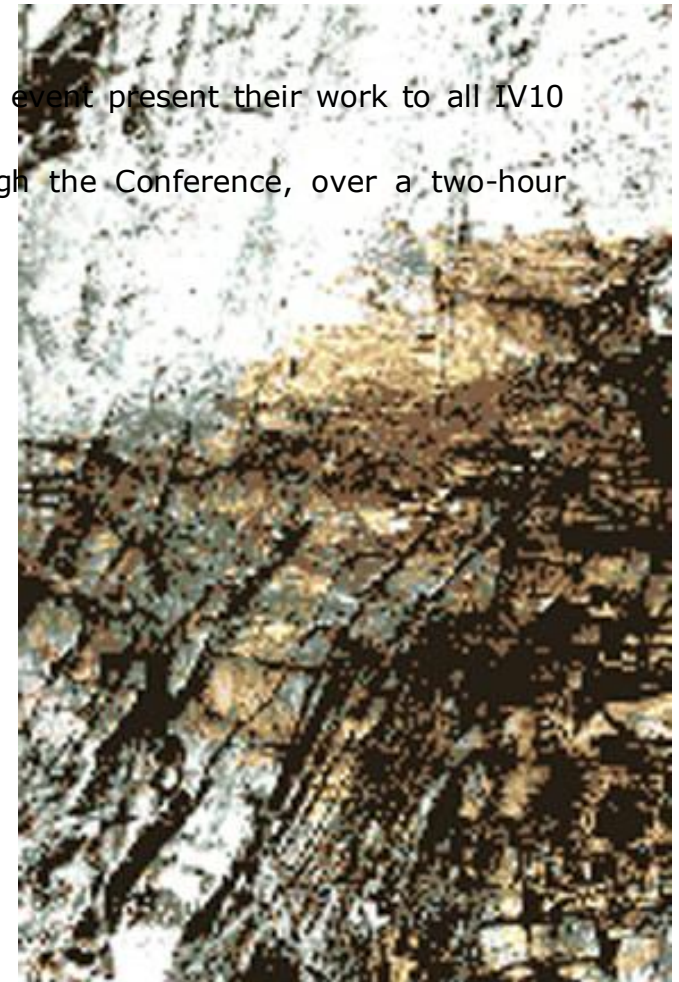
**Chen Sheng-Han & Chang Teng-Wen**

228 - Information Visualization of multi-dimensional spike train datasets

**Stuart Liz & Tucker Roy C.**

147 - Wearing emotions: physical representation and visualization of human emotions using wearable technologies

**Iaconesi Salvatore**



**Glen Memories**  
**40 years of Wandering ~ Stepping Stones**  
**Cynthia Beth Rubin**

**Monday 26 July 2010**

10:00	< LONDON, LSBU: The Keyworth Centre – Mezzanine > <b>Registration</b>	
10:30 - 13:00	< LONDON, LSBU: The Keyworth Centre – K605/6 > <b>Information Visualisation</b> <b>Doctoral Research Workshop</b> Chairs: Stuart, Dr. Liz, University of Plymouth, UK Banissi, Prof. Ebad, London South Bank University, UK Subject Liasing Committee chairs  <b>10.00 Registration</b> <b>10.30 Opening &amp; Welcome from discussion Panel members</b> <b>10:45 "The PhD in Visualization Starter Kit"</b> presented by Robert S. Laramée from Swansea University, UK	
10:30 - 13:00	< LONDON, LSBU: The Keyworth Centre – K305/6 > <b>Tutorial</b> <b>Morning session</b> <b>A Full-day Course:</b> <b>Monday 26<sup>th</sup> July 2010, Time: 10:30 -17:00</b>  <b>Art for Visualizers</b> Francis T. Marchese, Pace University, NY, NY 10038, USA <a href="http://csis.pace.edu/~marchese">http://csis.pace.edu/~marchese</a>	< LONDON, LSBU: The Keyworth Centre - K613/14 > <b>Tutorial</b> <b>Morning session</b> <b>A Full-day Course:</b> <b>Monday 26<sup>th</sup> July 2010, Time: 10:30 -17:00</b>  <b>Fundamentals of visual data mining, information retrieval, extraction, and analysis</b> Haim Levkowitz, Associate Professor and Co-Director, Institute for Visualization and Perception Research And Graphics Research Laboratory Department of Computer Science University of Massachusetts Lowell, USA <a href="http://www.cs.uml.edu/~haim/">http://www.cs.uml.edu/~haim/</a>

10:30	< LONDON, LSBU: The Keyworth Centre - K307/8 >
-	<b>Tutorial</b>
13:00	<b>Morning session</b>
	<b>A Full-day Course:</b>
	<b>Monday 26<sup>th</sup> July 2010, Time: 10:30 -17:00</b>
	<b>Usability Evaluation and Information Visualisation</b>
	Prof. Keith Andrews, Graz University of Technology, Austria
	<a href="http://www.iicm.edu/keith">http://www.iicm.edu/keith</a>
13:00	< LONDON, LSBU: The Keyworth Centre - London Road Refactory >
	<i>Lunch Break</i>
14:00	< LONDON, LSBU: The Keyworth Centre - The Keyworth Centre - K605/6 >
-	<b>Information Visualisation</b>
17:00	<b>Doctoral Research Workshop</b>
	<b>13.45 Introduction from Doctoral Research Workshop chair to the doctoral research presentation</b>
	<ul style="list-style-type: none"> <li>Exploiting Domain Knowledge for Supervised Machine Learning Algorithms, Seifert, Christin, Know-Center Graz, Austria</li> <li>Information Visualization of multi-dimensional spike train datasets, Tucker, Roy C., The Visualization Lab, University of Plymouth, UK</li> <li>Built Information: Visual communication in digitally augmented public space, Birk, Klaus, University of the Arts London, Research Unit for Information Environments, London, UK</li> </ul>
15:30	<b>Break</b>
16:00	
	<ul style="list-style-type: none"> <li>Evaluating Visualisations of Geographically Weighted Spatial Statistical Methods, Burke, Tommy, National Centre for Geocomputation, National University of Ireland Maynooth, Maynooth, Ireland</li> </ul>
17.30	<b>Close</b>

<p>14:00 - 17:00</p>	<p>&lt; LONDON, The National Gallery of Art (Trafalgar Square) &gt;  <b>Tutorial:</b>  <b>Morning session</b>  <b>A Full-day Course:</b>  <b>Monday 26<sup>th</sup> July 2010, Time: 10:30 -17:00</b></p> <p style="text-align: center;"><b>Art for Visualizers</b></p> <p style="text-align: center;">Francis T. Marchese, Pace University, NY, NY 10038, USA  <a href="http://csis.pace.edu/~marchese">http://csis.pace.edu/~marchese</a></p> <p>An afternoon session convening at The National Gallery of Art (Trafalgar Square), will allow course participants to test their analysis skills on a selection of the gallery's paintings</p>	<p>&lt; LONDON, LSBU: The Keyworth Centre - K613/14 &gt;  <b>Tutorial:</b>  <b>Afternoon session</b>  <b>Fundamentals of visual data mining, information retrieval, extraction, and analysis</b>  Haim Levkowitz, Associate Professor and Co-Director, Institute for Visualization and Perception Research And Graphics Research Laboratory  Department of Computer Science University of Massachusetts Lowell, USA  <a href="http://www.cs.uml.edu/~haim/">http://www.cs.uml.edu/~haim/</a></p> <p><b>14:00 Early Afternoon session</b>  <b>15:30 Break</b>  <b>16:00 Late Afternoon session</b></p>
	<p>&lt; LONDON, LSBU: The Keyworth Centre - K307/8 &gt;  <b>Tutorial:</b>  <b>Afternoon session</b>  <b>Usability Evaluation and Information Visualisation</b>  Prof. Keith Andrews, Graz University of Technology, Austria  <a href="http://www.iicm.edu/keith">http://www.iicm.edu/keith</a></p> <p><b>14:00 Early Afternoon session</b>  <b>15:30 Break</b>  <b>16:00 Late Afternoon session</b></p>	<p><b>Tutorial: &lt; LONDON, LSBU: The Keyworth Centre - XX &gt;</b>  <b>A Half-Day Course:</b>  <b>Monday 26 Jul 2010, 14:00-17:0</b></p> <p style="text-align: center;"><b>Object and Spatial Databases</b></p> <p style="text-align: center;">Ray Kresman, Professor of Computer Science at Bowling Green State University, Bowling Green, OH, USA</p> <p><b>14:00 Early Afternoon session</b>  <b>15:30 Break</b>  <b>16:00 Late Afternoon session</b></p>

## Tuesday 27 July 2010

09:00	< LONDON, LSBU: The Keyworth Centre – Mezzanine > <b>Registration</b>
10:30	< LONDON, LSBU: The Keyworth Centre - Event Theatre > <b>Opening &amp; Welcome from:</b> <b>London SouthBank University (LSBU):</b> <b>Local Organising Chair: Prof Ebad Banissi – ISBU, USA</b> <b>Conference Chair: Prof. Francis T. Marchese – Pace University, USA</b> <b>Subject Liasing Committee chairs</b>
10:50	< LONDON, LSBU: The Keyworth Centre - Event Theatre > <b>Session IV10_1.1: Information Visualisation</b> Chair: Marchese, Prof. Francis T., Pace University, USA  <Keynote Lecture> <b>Splashing around: some structural intuitions in art and science</b> <b>Professor Martin Kemp</b> , Trinity College. Oxford University, UK
11:35	< LONDON, LSBU: The Keyworth Centre – Mezzanine > <i>Break</i>
12:00 - 13:00	< LONDON, LSBU: The Keyworth Centre - Event Theatre > <b>Session IV10_1.2: Cultural Heritage Knowledge Visualisation - I</b> Chair: Wyeld, Dr. Theodor G, Flinders University of South Australia, Australia  205 - "Conceptualisations of Self in Contemporary Interactive Artwork: A Case Study of Lynette Wallworth's Duality of Light", <u>Christine Nicholls</u>  104 - <b>Immersive visualization architectures and situated embodiments of culture and heritage</b> <u>Kenderdine, Sarah</u>  105 - <b>Database Narratives: Conceptualising Digital Heritage Databases in Remote Aboriginal Communities</b> <u>Cohen, Hart Kenneth; Dallow, Peter; Morley, Rachel; Kaufman, Lisa</u>



13:00	<b>&lt; LONDON, LSBU: The Keyworth Centre - London Road Refactory &gt;</b> <i>Lunch Break</i>	
14:00 - 15:20	<p><b>&lt; LONDON, LSBU: The Keyworth Centre - K405/6 &gt;</b>  <b>Session IV10_1.3: Information Visualisation - Theory &amp; Techniques - I</b>                  Chair: Houtkamp, Dr. Joske, Utrecht University, The Netherlands</p> <p>140 - <b>Automatic Application of the Data-State Model in Data-Flow Contexts</b>                  Cottam, Joseph A.; Lumsdaine, Andrew</p> <p>113 - <b>A Visualization Technique for Access Patterns and Link Structures of Web Sites</b>                  Kawamoto, Makiko; Itoh, Takayuki</p> <p>190 - <b>A 3D Visualization Technique for Large Scale Time-Varying Data</b>                  Imoto, Maiko; Itoh, Takayuki</p> <p>136 - <b>Drawing Clustered Bipartite Graphs in Multi-Circular Style</b>                  Ito, Takao; Misue, Kazuo; Tanaka, Jiro</p>	<p><b>&lt; LONDON, LSBU: The Keyworth Centre - K305/6 &gt;</b>  <b>Session IV10_1.4: KV_ Knowledge Visualization and Visual Thinking</b>                  Chair: Bertschi, Stefan, loginb consulting, United Kingdom</p> <p>153 - <b>The use of visualization in the communication of business strategies: An experimental evaluation</b>  <u>Kernbach, Sebastian</u>; Eppler, Martin</p> <p>196 - <b>Choosing Knowledge Visualizations to Augment Cognition: the Managers' View</b>  <u>Bresciani, Sabrina</u>; Eppler, Martin</p> <p>128 - <b>How Users Perceive and Use Interactive Information Graphics: An Exploratory Study</b>  <u>Burmester, Michael</u>; Mast, Marcus; Tille, Ralph; Weber, Wibke</p>

<p>14:00 - 15:20</p>	<p>&lt; LONDON, LSBU: The Keyworth Centre - K307/8 &gt;  <b>Session MediViz10_1.5: Information Visualization in Biomedical Informatics</b>  <b>Opening and Welcome for IVBi</b>                  Chair: Trutschl, Dr. Marjan, Louisiana State University Shreveport, USA</p> <p>189 - <b>Real-Time Ray Tracing of Complex Molecular Scenes</b>  <u>Marsalek, Lukas</u>; Georgiev, Iliyan; Dehof, Anna Katharina; Lenhof, Hans-Peter; Slusallek, Philipp; Hildebrandt, Andreas</p> <p>169 - <b>Identification, Tracking and Visualization of Platelets in Intravital Microscopy</b>                  Doss, Joseph; Holloway, Randal; Slack, Jeremiah; Smith, Jennifer; Cvek, Urska; Stokes, Karen Y.; <u>Trutschl, Marjan</u></p> <p>161 - <b>Interactive Patient Records</b>  <u>Müller, Heimo</u>; Sauer, Stefan; Kurt, Zatloukal; Thomas, Bauernhofer</p> <p>183 - <b>Preparing, Exploring and Comparing Cancer Simulation Results Within a Large Parameter Space</b>  <u>Lunzer, Aran</u>; Belleman, Robert; Melis, Paul; Stamatakos, Georgios</p>	
<p>15:20</p>	<p>&lt; LONDON, LSBU: The Keyworth Centre - The Keyworth Centre &gt;  <i>Break</i></p>	
<p>15:50 - 17:00</p>	<p>&lt; LONDON, LSBU: The Keyworth Centre - K405/6 &gt;  <b>Session IV10_1.6: Knowledge Visualization and Visual Thinking</b>                  Chair: Bertschi, Stefan, loginb consulting, United Kingdom</p> <p>157 - <b>Drawing Conclusions: Supporting Decision Making through Collaborative Graphic Annotations</b>                  Eppler, Martin; <u>Pfister, Roland</u></p> <p>182 - <b>An Application of Edge Bundling Techniques to the Visualization of Media Analysis Results</b>                  Kienreich, Wolfgang; <u>Seifert, Christin</u></p> <p>101 - <b>Visual Intention in Moving Image Editing and Eye-Tracking Methodology</b>  <u>Swenberg, Thorbjörn</u></p>	<p>&lt; LONDON, LSBU: The Keyworth Centre - K305/6 &gt;  <b>Session Viz10_1.7: Web Visualisation</b>                  Chair: kresman, Prof. ray, Bowling Green State University, USA</p> <p>131 - <b>Semi-Automatic generation of GUIs for RDF Browsing</b>                  Pazienza, Maria Teresa; <u>Scarpato, Noemi</u>; Stellato, Armando</p> <p>126 - <b>INSPIRE: A new Method of Mapping Information Spaces</b>  <u>Ruddle, Roy</u></p> <p>122 - <b>Visualization of Web Page Content Using Semantic Technologies</b>  <u>Dali, Lorand</u>; Mladenčić, Dunja</p> <p>191 - <b>From data realism to dada aggregations: visualizations in digital art, humanities and popular culture</b>                  Kera, Denisa</p>

15:50 -	< <b>London , LSBU: The Keyworth Centre – K307/8</b> >
17:00	<b>Session IV10_1.8: HCI - Interaction Design for Information Visualisations</b> Chair: Groth, Dr. Dennis, Indiana University, USA
	165 - <b>Hand motion recognition and visualisation for direct sign writing</b> <u>Lu, Gan</u>
	172 - <b>Wiimote as an input device in Google Earth visualization and navigation: a user study comparing two alternatives</b> <u>Sousa Santos, Beatriz; Dias, Paulo; Silva, Samuel; Ferreira, Carlos</u>
	179 - <b>EMG biofeedback based VR system for hand rotation and grasping rehabilitation</b> <u>Ma, Sha; Varley, Martin Roy; Richards, Jim; Shark, Lik-Kwan</u>
17:45	< <b>LONDON, LSBU: The Keyworth Centre – K305/6</b> > <b>Society of Information Visualisation – AGM (Annual General Meeting)</b>

19:00  
–  
21:30**Visualisation Social Networking Event**

## Evening Cruise on the Thames River

A view from the River Thames, a leisurely cruise capturing a panoramic view of the London skyline, a unique blend of modernity interwoven seamlessly into forms and shades of history and culture of one of the world grand capital cities, which cannot be missed.

An evening cruise on the river Thames has been organised for the conference delegates. Detail of this cruise is as follows:

Scheduled: Tuesday 27<sup>th</sup> July 2010

Time: 18:30 (sharp)

Location: [Embankment Pier](#)

Nearest Underground Stations: [Embankment](#)

Boat: Salient

Type of Function: Thames River Cruise with buffet

Duration: 18:30 - 22:30

COST: Registered Delegates at subsidised rate of: £20 per person

Guest at subsidised rate of: £30 per person

Please confirm your attendance for this social event by Monday 19<sup>th</sup> July 2010. Tickets and payment can be finalised at the conference registration desk.

**Wednesday 28 July 2010**

09:00	< LONDON, LSBU: The Keyworth Centre – Mezzanine >	
	Registration	
09:30 - 11:15	<p style="text-align: center;">&lt; LONDON, LSBU: The Keyworth Centre - Event Theatre &gt;</p> <p><b>Session IV10_2.1: Information Visualisation – Applications - I</b>                  Chair: Burmester, Prof. Michael, Stuttgart Media University Germany</p> <p>146 - <b>Associating Avatars with Musical Genres</b>                  Holm, Jukka Antero; Siirtola, Harri; Laaksonen, Lauri</p> <p>132 - <b>Visualization of Multi-sensory Meeting Information to Support Awareness</b>                  Heimonen, Tomi; Ovaska, Salla; Turunen, Markku; Hakulinen, Jaakko; Rajaniemi, Juha-Pekka; Rähkä, Kari-Jouko</p> <p>147 - <b>Wearing emotions: physical representation and visualization of human emotions using wearable technologies</b>  <u>Iaconesi, Salvatore</u></p> <p>118 - <b>Dynamic Visualizations for Soccer Statistical Analysis</b>                  Rusu, Adrian; Stoica, Doru; Burns, Edward; Hample, Benjamin; McGarry, Kevin; Russell, Robert</p> <p>176 - <b>Visualization of news access activity in the SAPO News website</b>                  Raposo, Rui; Veloso, Ana; Correia, Pedro; Mealha, Óscar</p>	<p style="text-align: center;">&lt; LONDON, LSBU: The Keyworth Centre - K207/8 &gt;</p> <p><b>Session IV10_2.2: AGT - International Symposium on Applications of Graph Theory</b>                  Chair: Maple, Prof. Carsten, University of Bedfordshire, UK</p> <p>184 - <b>Living flows: enhanced exploration of edge-bundled graphs based on GPU-intensive edge rendering</b>  <u>Antoine, Lambert</u>; David, Auber; Guy, Melançon</p> <p>164 - <b>TRUST ENABLED SECURE MULTIPARTY COMPUTATION</b>                  Dong, Renren; <u>kresman, ray</u></p> <p>185 - <b>Bobox Model Visualization</b>  <u>Dokulil, Jiri</u>; Katreniakova, Jana</p> <p>221 - <b>Challenges and Perspectives of Procedural Modelling and Effects</b>                  Yue, Yong; Fletcher, David</p> <p>224 - <b>A visualisation technique for the identification of security threats in networked systems</b>  <u>Viduto, Valentina</u>; Maple, Carsten</p>

09:30 - 11:15	<p>&lt; LONDON, LSBU: The Keyworth Centre - K305/6 &gt;  <b>Session IV10_2.3: Information Visualisation</b>  Chair: Müller, Dr. Heimo, Medical University Graz, Austria</p> <p>103 - <b>Network Visualization of Human and Machine-based Educational Standard Assignment</b>  Reitsma, Rene F.; Diekema, Anne R.</p> <p>116 - <b>The Network Lens: Interactive Exploration of Multivariate Networks Using Visual Filtering</b>  Jusufi, Ilir; Dingjie, Yang; Kerren, Andreas</p> <p>151 - <b>Preserving coherent illumination in style transfer functions for volume rendering</b>  Herrera, Imanol; Buchart, Carlos; Borro, Diego</p> <p>170 - <b>An Interactive Visualization Framework for Time-series of Web graphs in a 3D Environment</b>  ITOH, Masahiko; TOYODA, Masashi; KITSUREGAWA, Masaru</p> <p>218 - <b>Combining Visual Analytics and Content Based Data Retrieval Technology for Efficient Data Analysis</b>  Rodrigues Jr., Jose Fernando; A. S. Romani, Luciana; Machado Traina, Agma Juci; Traina Jr., Caetano</p>	<p>&lt; LONDON, LSBU: The Keyworth Centre - K405/6 &gt;  <b>Session Viz10_2.4 :Visualisation</b>  Chair: Levkowitz, Prof. Haim, Institute for Visualization and Perception Research, University of Massachusetts Lowell, USA</p> <p>160 - <b>Molecular Rendering with Medieval and Renaissance Color Theory</b>  <u>Marchese, Francis T.</u>; Marchese, Suzanne M.</p> <p>163 - <b>A System for Real-Time Transcoding and Delivery of Video to Smartphones</b>  <u>Marchese, Francis T.</u>; Shefer, Lior D.</p> <p>162 - <b>Real-Time Immersive Table Tennis Game for Two Players with Motion Tracking</b>  <u>Li, Yingzhu</u>; Shark, Lik-Kwan; Hobbs, Sarah Jane; Ingham, James</p> <p>123 - <b>Visual Amortization Analysis of Recompile Strategies</b>  <u>Zimmer, Stephan</u>; Diehl, Stephan</p> <p>223 - <b>Simulation and Visualisation for Electromagnetic Nondestructive Evaluation</b>  <u>Simm, Anthony</u>; Zainal Abidin, Ilham; Tian, Gui Yun; Woo, Wai Lok</p>
11:00	<p>&lt; LONDON, LSBU: The Keyworth Centre – Mezzanine &gt;  <i>Break</i></p>	

11:30 - 13:00	<p>&lt; LONDON, LSBU: The Keyworth Centre - Event Theatre &gt;  <b>Session IV10_2.5: Information Visualisation ~ Application</b>                  Chair: Eppler, Prof. Martin, University of St. Gallen, Switzerland</p> <p>&lt;Keynote Lecture&gt; - Explore, Collaborate and Publish Large Spatio-Temporal Official Statistics                  Mikael Jern, Professor at University of Linköping and Director at National Center for Visual Analytics NCVa at Linköping University, Sweden</p> <p>&lt;Keynote Lecture&gt; - How Can Analytical Imaging Contribute to Preservation of Cultural Heritages?                  Ari Ide-Ektessabi, <a href="http://www.kyotoheritage.jp">http://www.kyotoheritage.jp</a>, Kyoto University, Japan</p>
12:45 - 14:15	<p>&lt; LONDON, LSBU: The Keyworth Centre - Lobby &gt;  <b>Session IV10_2.6: POSTER – SHOW CASE</b>                  Chair: Stuart, Dr. Liz, University of Plymouth, UK</p> <p>117 - OWL Ontology Visualization: Graphical Representations of Properties on the Instance Level  <a href="#">Kriglstein, Simone</a></p> <p>120 - Mid-Season – Visualization of Actor-Networks with the case of a hotel archive*  <a href="#">Kilchör, Fabienne</a></p> <p>217 - Incremental Idea Generation System: Indigen  <a href="#">Chen, Sheng-Han</a>; <a href="#">Chang, Teng-Wen</a></p> <p>226 - A framework to coordinate multiple data similarity maps  <a href="#">Eler, Danilo Medeiros</a>; <a href="#">Paulovich, Fernando Vieira</a>; <a href="#">Oliveira, Maria Cristina Ferreira</a>; <a href="#">Minghim, Rosane</a></p> <p>228 - Information Visualization of multi-dimensional spike train datasets                  Stuart, Liz; <a href="#">Tucker, Roy C.</a></p> <p>147 - Wearing emotions: physical representation and visualization of human emotions using wearable technologies  <a href="#">Iaconesi, Salvatore</a></p>
13:00	<p>&lt; London , London SouthBank University (LSBU): London Road Refactory &gt;                  Lunch Break</p>



<p>14:15 - 15:15</p>	<p>&lt; LONDON, LSBU: The Keyworth Centre - K207/8 &gt;  <b>Session IV10_2.7: Information Visualisation – Theory &amp; Techniques</b>                  Chair: Forsell, Dr. Camilla, Linköping University, Sweden</p> <p>174 - <b>GVIS: an integrating infrastructure for adaptively mashing up user data from different sources</b>                  Mazzola, Luca; <u>Mazza, Riccardo</u></p> <p>219 - <b>Kinetic Inter-Acting: A System for Visual Analysis of Interaction Dynamics</b>                  Deray, Kristine Ann; <u>Simoff, Simeon</u></p> <p>213 - <b>Highlighting in Information Visualization: A survey</b>  <u>Liang, Jie</u>; Huang, Maolin</p>	<p>&lt; LONDON, LSBU: The Keyworth Centre - K305/6 &gt;  <b>Session BuiltViz10_2.8: Built Environment Knowledge Visualisation</b>                  Chair: Khosrowshahi, Prof. Farzad, Salford University, UK</p> <p>220 - <b>Models, mark-up, commentary and attention</b>                  Counsell, John</p> <p>206 - <b>The Impact of Immersive Virtual Reality on Visualisation for a Design Review in Construction</b>                  Bassanino, May Nahab; Wu, Kuo-Cheng; Yao, Jialiang; Khosrowshahi, Farzad; Fernando, Terrence; Skjærbæk, Jens</p> <p>158 - <b>Zero and Low Carbon Buildings: A Driver for Change in Working Practices and the Use of Computer Modelling and Visualization</b>                  Hetherington, Robina; Laney, Robin; Peake, Stephen</p>
<p>14:15 - 15:15</p>	<p>&lt; LONDON, LSBU: The Keyworth Centre - K405/6 &gt;  <b>Session IV10_2.9: Visual Analytics</b>                  Chair: Andrienko, Dr. Gennady - Fraunhofer Institute Intelligent Analysis- and Information Systems (FHG IAIS), Germany</p> <p>107 - <b>Event-based analysis of people's activities and behavior using Flickr and Panoramio geo-tagged photo collections</b>                  Kisilevich, Slava; Krstajic, Milos; Keim, Daniel; Andrienko, Natalia; Andrienko, Gennady</p> <p>199 - <b>Visualise Web Usage Mining: Spanning Sequences' impact on Periodicity Discovery</b>                  Alkilany, Ahmed Aburodes Assaid; Alkilany, Ahmed Aburodes Assaid</p> <p>143 - <b>Peek Brush: A High-Speed Lightweight Ad-Hoc Selection For Multiple Coordinated Views</b>  <u>Berger, Wolfgang</u>; Piringer, Harald</p>	
<p>15:15</p>	<p>&lt; LONDON, LSBU: The Keyworth Centre – Mezzanine &gt;  <i>Break</i></p>	

<p>15:45 - 17:00</p>	<p>&lt; LONDON, LSBU: The Keyworth Centre - K207/8 &gt;  <b>Session IV10_2.10: GeoAnalytics</b>                  Chair: Jern, Prof. Mikael, Norrköping Visualization and Interaction Studio, Sweden</p> <p>154 - <b>Swedish Road Weather Visualization</b>  <u>Lundblad, Patrik</u>; Thoursie, Jonas; Jern, Mikael</p> <p>159 - <b>Taggram: Exploring Geo-Data on Maps through a Tag Cloud-based Visualization</b>  <u>Nguyen, Dinh-Quyen</u>; Schumann, Heidrun</p> <p>180 - <b>3D Edge Bundling for Geographical Data Visualization</b>  <u>Lambert, Antoine</u>; Bourqui, Romain; Auber, David</p> <p>108 - <b>A 3D Visualization of Multiple Time Series on Maps</b>                  Thakur, Sidharth; <u>Hanson, Andrew J.</u></p>	<p>&lt; LONDON, LSBU: The Keyworth Centre - K305/6 &gt;  <b>Session IV10_2.11: Information Visualisation - Theory &amp; Techniques</b>                  Chair: Andrews, Prof. Keith, Graz University of Technology, IICM, Austria</p> <p>141 - <b>Polytree Numbering for Citation Networks Visualisation</b>  <u>Logvynovskiy, Alex</u>; Dastbaz, Mohammad</p> <p>137 - <b>Double Tree: an advanced KWIC visualization for expert users</b>  <u>Culy, Chris</u>; Lyding, Verena</p> <p>156 - <b>Visualisation of web based e-Learning activity</b>                  Oliveira, Ana Patrícia; Mealha, Óscar; Santos, Carlos</p>
<p>15:45 - 17:00</p>	<p>&lt; LONDON, LSBU: The Keyworth Centre - K405/6 &gt;  <b>Session GMAI10_2.12: Imaging - I</b>                  Chair: Yue, Prof. Yong, University of Bedfordshire, UK</p> <p>208 - <b>A WAVELET INPAINTING BY A TIXOTROP MODEL</b>  <u>Nouri, Fatma Zohra</u>; MAOUNI, MESSAOUD</p> <p>212 - <b>Visualization of Positive Data by Rational Cubic Spline Interpolant</b>  <u>Sarfraz, Muhammad</u>; Hussain, Malik Zawwar</p> <p>173 - <b>YACBIR Yet Another Content Based Image Retrieval system</b>  <u>Ait-Aoudia, Samy</u>; Mahiou, Ramdane; Benzaid, Billel</p>	
<p>17:00</p>	<p>&lt; LONDON, LSBU: The Keyworth Centre - Event Theatre &gt;  <b>Session IV10_2.13: Animation, Special Effects and Multimedia Show</b>                  Chair: Bannatyne, Prof. Mark, IUPUI, USA</p>	
	<p>&lt; LONDON, LSBU: The Keyworth Centre K305/6 &gt;  <b>European Visualisation Technology Link Meeting &amp; Special Interest Group meetings</b></p>	

## Thursday 29 July 2010

09:00	<b>&lt; LONDON, LSBU: The Keyworth Centre – Mezzanine &gt;</b>	
	<i>Registration</i>	
09:30 - 11:15	<b>&lt; LONDON, LSBU: The Keyworth Centre – K207/08 &gt;</b>	<b>&lt; LONDON, LSBU: The Keyworth Centre – K305/06 &gt;</b>
	<b>Session IV10_3.1: Information Visualisation – Application - II</b>	<b>Session MediViz10_3.2: Biomedical Visualisation - Medical Imaging Techniques</b>
	Chair: Hanson, Prof. Andrew J., Indiana University, USA	Chair: Lunzer, Dr. Aran, Hokkaido University, Meme Media Laboratory, Japan
	188 - <b>Liquid Diagrams: Information Visualisation Gadgets</b> <u>Andrews, Keith</u> ; Lessacher, Martin	155 - <b>Using Web Services as Functional-Level Plug Ins for Interactive 3D Medical Visualisation</b> Wang, Tao; <u>Zhao, Youbing</u> ; Liu, Enjie; Clapworthy, Gordon; Zhao, Xia; Wei, Hui; Dong, Feng
	138 - <b>Information visualization in facility location and vehicle routing decisions</b> <u>Lopes, Rui Borges</u> ; Santos, Beatriz Sousa; Dias, Paulo; Ferreira, Carlos	193 - <b>Semi-supervised Tissue Segmentation of 3D Brain MR Images</b> Zhang, Xiangrong; Dong, Feng; Clapworthy, Gordon; <u>Zhao, Youbing</u> ; Jiao, Licheng
	178 - <b>Metric data analysis enhanced through temporal visualization</b> <u>Bueno, Renato</u> ; Razente, Humberto L.; Kaster, Daniel S.; Barioni, Maria Camila N.; Traina, Agma J. M.; Traina, Caetano Jr.	166 - <b>CardioAnalyser: A Software Tool for Segmentation and Analysis of the Left Ventricle\ from 4D MDCT Images of the Heart</b> <u>Silva, Samuel</u> ; Madeira, Joaquim; Sousa Santos, Beatriz; Silva, Augusto
	130 - <b>Interaction with computers using mobile devices</b> <u>Sasakura, Mariko</u> ; Fujioka, Shinsuke; Yamasaki, Susumu	150 - <b>Visualisation of Left Ventricular Dysfunction in the Virtual Pathological Heart</b> <u>Lin, Xinyu</u> ; Mcfarlane, Nigel; Zhao, Youbing; Clapworthy, Gordon; Dong, Feng; Radaelli, Alberto
	181 - <b>From Databases to Graph Visualization</b> <u>Gilbert, Frédéric</u> ; Auber, David	187 - <b>Investigating the Trend of Virtual Reality-based Stroke Rehabilitation Systems</b> <u>Prashun, Prashant</u> ; Hadley, Glyn; Gatzidis, Christos; Swain, Ian
	115 - <b>A Theme Landscape for Tagged Data</b> <u>Münster, Evelyn</u>	

<p>09:30 - 11:15</p>	<p>&lt; LONDON, LSBU: The Keyworth Centre – K407/08 &gt;  <b>Session IV10_3.3: Design Visualisation</b>                  Chair: Hetherington, Robina, Open University, United Kingdom</p> <p>197 - <b>Use of Multiple Shape Attributes in Information Visualization: Guidance from Prior Art and Experiments</b>                  Brath, Richard &lt;presenter <a href="#">Brian Cort</a> &gt;</p> <p>186 - <b>AmbientNEWS: Augmenting Information Discovery in Complex Settings Through Aesthetic Design</b>  <a href="#">Valkanova, Nina Vesselinova</a>; Moghnieh, Ayman; Arroyo, Ernesto; Blat, Josep</p> <p>148 - <b>From data to knowledge – Visualizations as trasformation processes within the DIK continuum</b>  <a href="#">Masud, Luca</a>; Valsecchi, Fancesca; Ciuccarelli, Paolo; Ricci, Donato; Caviglia, Giorgio</p> <p>114 - <b>The Classic Aesthetic and the Poietic Elements of Information Design</b>  <a href="#">Carlsson, Anna-Lena</a></p>	<p>&lt; LONDON, LSBU: The Keyworth Centre – K405/06 &gt;  <b>Session IV10_3.4: Information Visualisation</b>                  Chair: Khosrowshahi, Prof. Farzad, Salford University, UK</p> <p>121 - <b>Challenges of the Display Method: Time-based Digital Art in the Traditional Gallery</b>  <a href="#">Hounshell, Jonathan</a></p> <p>217 - <b>Incremental Idea Generation System: Indigen</b>  <a href="#">Chen, Sheng-Han</a>; <a href="#">Chang, Teng-Wen</a></p> <p>152 - <b>Guidelines to Visualize Vessels in a Geographic Information System</b>  <a href="#">Rodighiero, Dario</a></p> <p>145 - <b>A New Paradigm for Visualization and Generating Grid Geometry Art and Beyond</b>  <a href="#">Lin, Hsin Hsin</a></p>
<p>11:15</p>	<p>&lt; LONDON, LSBU: The Keyworth Centre – Mezzanine &gt;  <i>Break</i></p>	

<p>11:45 - 13:00</p>	<p>&lt; LONDON, LSBU: The Keyworth Centre – K207/08 &gt;  <b>Session IV10_3.5: Information Visualization - Evaluation</b>                  Chair: Bueno , Dr. Renato, Federal University of São Carlos, Brazil</p> <p>139 - <b>Visualising Virtual Learning Environments: Case Studies of the Website Exploration Tool</b>  <u>Pascual-Cid, Víctor</u>; Vigentini, Lorenzo; Quixal, Martí</p> <p>215 - <b>Evaluating Climate Visualization-An Information Visualization Approach</b>  <u>Johansson, Jimmy</u>; Neset, Tina; Linnér, Björn-Ola</p> <p>214 - <b>A Guide to Scientific Evaluation in Information Visualization</b>  <u>Forsell, Camilla</u></p> <p>175 - <b>Supporting the analytical reasoning process in maritime anomaly detection: evaluation and experimental design</b>  <u>Riveiro, Maria</u>; Falkman, Göran</p>	<p>&lt; LONDON, LSBU: The Keyworth Centre – K305/06 &gt;  <b>Session BuiltViz10_3.6: Sustainability in Built and Rural Environments (1)</b>                  Chair: John Counsell, University of Wales Institute, Cardiff, UK</p> <p>177 - <b>Affective qualities of an urban environment on a desktop computer</b>                  Houtkamp, Joske; Junger, Mike</p> <p>200 - <b>Human Perception, Virtual Reality and the Built Environment</b>                  Johnson, Angie; Thompson, Emine Mine; Coventry, Kenny</p> <p>198 - <b>The Management of Sharing, Integrating, Tracking, and Maintaining Data-sets, is a New and Rather Complex Task</b>                  Harty, James; Laing, Richard</p>
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<p>11:45 - 13:00</p>	<p>&lt; LONDON, LSBU: The Keyworth Centre – K407/08 &gt;  <b>Session IV10_3.7: Cultural Heritage Knowledge Visualisation - II</b>                  Chair: Kenderdine, Dr. Sarah, City University; Museum Victoria, Hong Kong S.A.R. - China</p> <p>201 - <b>Ancestral Forces in Contemporary Indigenous Australian Women’s Art: 3 Case Studies of Multi-Dimensional Cultural Heritage Knowledge Visualization</b>                  Marquis, Jenefer; <u>Wyeld, Theodor G</u></p> <p>202 - <b>Re-Writing Recent History: developing a National reconciliation pedagogy using a video game for school age children.</b>                  Wyeld, Theodor G</p> <p>211 – <b>Embodying Affect: The Stolen Generation, The history Wars and Polesapart by Indigenous New Media Artist R E A Nicholls, Christine Judith</b></p>	<p>&lt; LONDON, LSBU: The Keyworth Centre – K405/06 &gt;  <b>Session IV10_3.8: GeoAnalytics</b>                  Chair: Andrienko, Dr. Gennady - Fraunhofer Institute Intelligent Analysis- and Information Systems (FHG IAIS), Germany</p> <p>168 - <b>GeoVisualisation of SAPO search activity</b>                  Veloso, Ana Isabel; Raposo, Rui; Costa, João; Mealha, Óscar</p> <p>111 - <b>Extracting Events from Spatial Time Series</b>                  Andrienko, Gennady; Andrienko, Natalia; Mladenov, Martin; Mock, Michael; Poelitz, Christian</p> <p>134 - <b>Exploring new ways of integration, visualization and interaction with Geotechnical and Geophysical Data</b>                  Gonçalves, Vítor Manuel Andrade; Dias, Paulo; Almeida, Fernando; Santos, Beatriz Sousa</p>
<p>13:00</p>	<p style="text-align: center;"><b>&lt;LONDON, LSBU: London Road Building Refectory &gt;</b></p> <p>Lunch Break</p>	

14:00	<LONDON, LSBU: The Keyworth Centre – Event Theatre >
-	<b>SessionIV10_3.9: Information Visualisation</b>
15:00	Chair: Wyeld, Dr. Theodor G, Flinders University of South Australia, Australia
	<Keynote Lecture>
	<b>Oncology Lifeline – A Timeline Tool for the Interdisciplinary Management of Breast Cancer Patients in a Surgical Clinic</b> Brian Drohan, Georges Grinstein, John Sharko, Chris Lawrence2, Kevin Hughes
	<Keynote Lecture> - <b>Parallel Coordinates are better than they look!</b> Alfred Inselberg, School of Mathematical Sciences, Tel Aviv University, Tel Aviv, Israel and Senior Fellow in Visualization, San Diego SuperComputing Center, San Diego, California, USA
	<Keynote Lecture> <b>Information is Beautiful</b> David McCandless, <a href="http://www.informationisbeautiful.net">http://www.informationisbeautiful.net</a> , London UK
15:30	<LONDON, LSBU: The Keyworth Centre – Mezzanine>
	Break
15:45	<LONDON, LSBU: The Keyworth Centre – K207/08>
	<b>IV2011 - Committee Members Meeting</b>
16:30	Close



# DIGITAL ART GALLERY

*online exhibition*

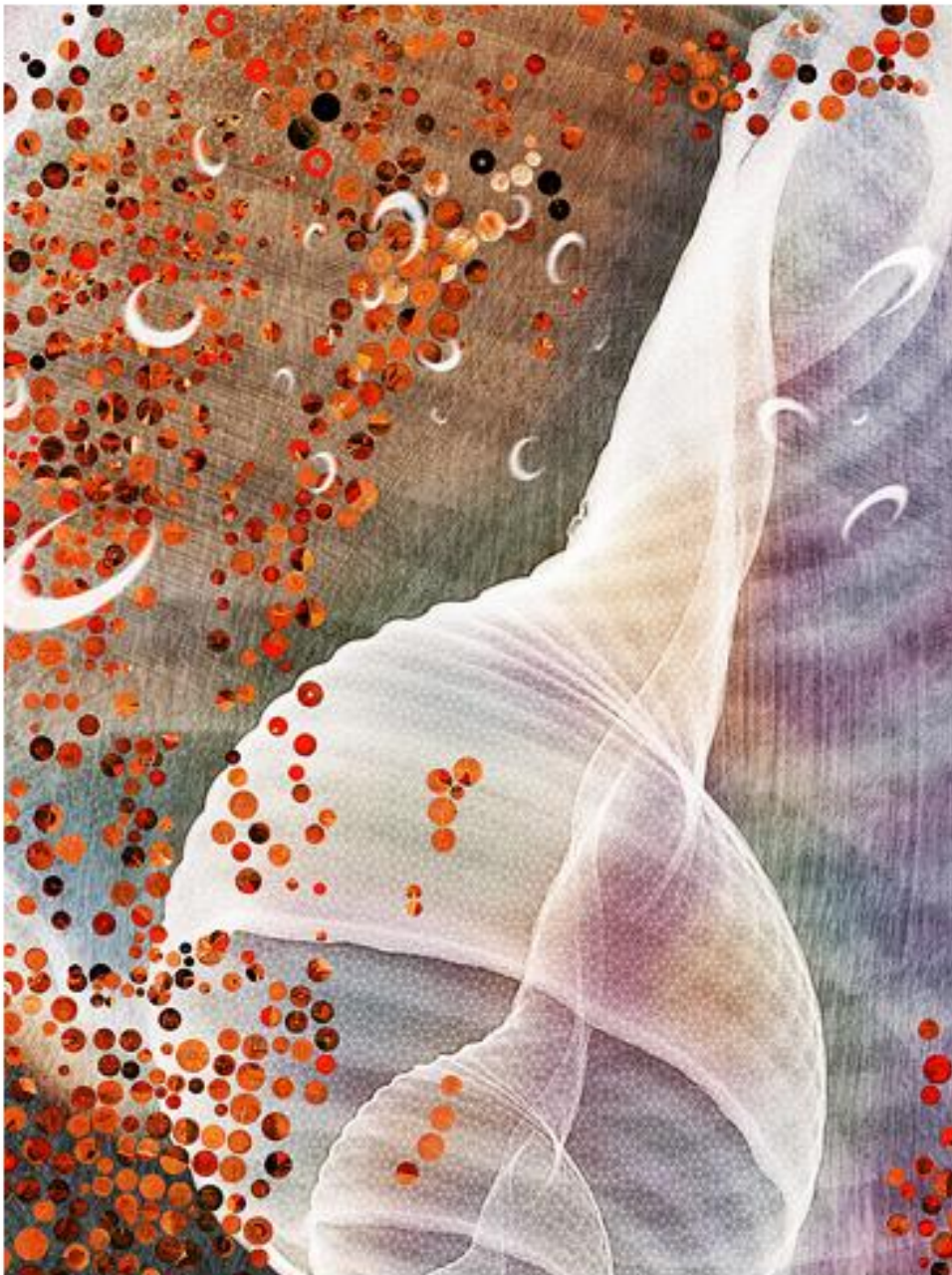
July 2010 ~ June 2011

VIRTUAL GALLERY VENUE

[www.graphicslink.co.uk/DART.htm](http://www.graphicslink.co.uk/DART.htm)

© Jing Zhou is an interdisciplinary artist, designer, and professor of art in New Jersey, USA

This image is part of the "Ch'an Mind, Zen Mind" series. Drawn inspirations from the space-time uncertainty principle in String Theory and Quantum Mechanics, the symbolic elements in this image represent different energies: the earth, mankind, and this ever-changing universe. As all life originates from water, the x-ray image of a spiral tun shell in this image signifies the earth and Mother Nature. Indicating human civilizations and irregularities of nature, hundreds of colourful wave-like dots are actually part of the desert irrigation from the Middle East. Horizontally flowing cross the space, many crescent shapes symbolize the uncertain state of subatomic particles.



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