

Introduction

Following the success of the inaugural Digital Economy All Hands event, Digital Futures, we are delighted to welcome you to Digital Engagement 2011, the 2nd All Hands meeting of Research Councils' UK Digital Economy programme.

Throughout the last 3 years RCUK has invested significant funds into this area, creating Digital Economy research hubs, doctoral training centres and Research in the Wild projects alongside many others.

This year's event brings together expertise from all disciplines and showcases the research being undertaken in all areas of the DE programme, with key themes including; Technologies for Assisted Living, Cultural Heritage, Open Data and Security and Connecting Communities.

In addition to the plenary sessions, we also have a dedicated demonstration session for researchers to display some of the novel technology being developed as part of the DE programme.

We are also pleased to welcome the Telling Tales of Engagement competition, the first of its kind, which affords researchers the opportunity to win a prize of £10,000 to further their research.

The format of this meeting is as follows:

Tuesday 15th November – Opening reception and demonstrations at Newcastle University's Culture Lab.

Wednesday 16th November – Keynote lecture, papers and workshops at St James' Park

Poster presentations, Telling Tales of Engagement competition announcement and conference dinner at Great North Museum: Hancock

Thursday 17th November – Keynote lecture, papers and workshops at St James' Park.

Venue information

The map below shows the locations of all conference venues.



Culture Lab

The opening reception and demonstrations will take place at Newcastle University's Culture Lab. Culture Lab is the focal point for creative arts practice at Newcastle University, supporting the work of researchers and students involved in high level, experimental and multi-disciplinary creative arts projects in a technologically rich and custom designed environment.

St James' Park

The main conference venue for this year is St James' Park. Situated in a prime location in the heart of the city centre, St James' Park offers easy access by road, with car parking on-site, and excellent links to the railway station and airport.

St James' Park is the oldest football stadium in the North East, football having first been played on the turf as early as 1880.

The story of the development of Newcastle United's traditional headquarters on the edge of the city centre has been one of much intrigue featuring intense local politics over the years. It has been a talking point in the region for generations, and even at one stage led to words being spoken in the House of Commons.

Great North Museum: Hancock

The conference dinner will be held at the Great North Museum: Hancock, one of the UK's most eagerly anticipated new visitor attractions. Opened in May 2009, it is a flagship visitor attraction incorporating collections from the Hancock Museum and Newcastle University's Museum of Antiquities, the Shefton Museum and the Hatton Gallery. Highlights of the new £26 million museum include a large-scale, interactive model of Hadrian's Wall, major new displays showing the wonder and diversity of the animal and plant kingdoms, spectacular objects from the Ancient Greeks and mummies from Ancient Egypt, a planetarium and a life-size T-Rex dinosaur skeleton.

Tuesday, 15th November, Newcastle University Culture Lab

Demonstrations

Design in the Digital World Network

Submitted by Vicki Hanson, University of Dundee.

Participating projects:

Tales of Things in the Real World (TOTem)

Digital Sensoria

CHARM

Bespoke

Voice Your View

“How was School today...?” – A Mobile Phone Based Personal Narrative System for Children with Complex Communication Needs.

Submitted by Rolf Black, University of Dundee.

Interaction of children with Autism with a Virtual Character (ECHOES).

Submitted by Rachel Menzies, University of Dundee.

The Portrait System for Care Staff of People with Dementia.

Submitted by Gemma Webster, School of Computing- University of Dundee.

CV-Decide – Cardiovascular Risk Decision Support Software for Patients and Clinicians.

Submitted by John Colquhoun, Newcastle University.

Placebooks: Bridging the Rural Divide.

Submitted by Mark Paxton, University of Nottingham.

Developing the Mirrorworld as a digital engagement and joint insight tool to support public sector planning, regeneration, and service transformation.

Submitted by Ian Everall, University of Salford.

Heckling at ontologies: production vs. consumption in the creation of rich-media metadata.

Submitted by Toby Harris, Queen Mary.

FITS: Flexible Integrated Transport Services for Rural Areas.

Submitted by Nicolás Rotstein, University of Aberdeen.

GetThere – Crowdsourcing Rural Public Transport Information.

Submitted by David Corsar University of Aberdeen.

Wednesday 16th November, St James' Park

9:00 Registration and Breakfast – Bamburgh suite

9: 45 Welcome talk and introductions – John Baird

10:15 Keynote

History Enriched Computing – Professor James D. Hollan, University of California, San Diego, USA

11:00 Morning Tea

11:15 Session 1 – Industry Panel

Gary Moulton –Microsoft, Ian Marshall - Business & Decision, David Sharp - Binary Asylum

12:15 Lunch (30 minutes) and Workshops (90 minutes)

14:15 – Session 2, Bamburgh Suite

Club 206

Session 2a: Music and Sound	Session 2b: Technologies for Assisted Living
<p>3 papers – 15 minutes each + 5 minutes questions</p> <p>Tuck Leong and Peter Wright. <i>Music in Households in the Digital Economy</i></p> <p>Dan Stowell, Mathieu Barthet, Simon Dixon and Mark Sandler. <i>Musicology for the masses: Situating new audio technologies for musicology and music education</i></p> <p>Noel Loble, Chris Morton and Marina Jirotko. <i>Innovations in sound archiving: field recordings, audiences and digital inclusion</i></p>	<p>3 papers – 15 minutes each + 5 minutes questions</p> <p>Trisha Greenhalgh, Rob Procter, Mark Rouncefield and Guy Dewsbury. <i>ATHENE: Assistive Technologies for Healthy Living in Elders: Needs Assessment by Ethnography</i></p> <p>Gemma Webster and Vicki Hanson. <i>The Portrait System for Care Staff of People with Dementia</i></p> <p>Alasdair Mort, Paul Mcnamee, Lorna Philip, Pat Schofield, Vicki Hanson and Gaener Rodger. <i>TOPS – designing digital tools for personal and social interaction</i></p>

15:15 – Afternoon Tea

15:30 – Session 3, Bamburgh Suite**Club 206**

Session 3a: Cultural Heritage	Session 3b: Managing User Sourced Information
<p>3 papers – 15 minutes each + 5 minutes questions</p> <p>Menisha Patel, Paul Luff and Christian Heath. <i>Curious words and public definitions: engaging visitors in the collaborative creation of a museum exhibit</i></p> <p>David Mcgookin, Yolanda Vazquez-Alvarez, Stephen Brewster and Joanna Bergström-Lehtovirta. <i>Digitally Glueing the Past: Multimodal Interaction for Un-Stewarded Historical and Archeological Sites</i></p> <p>Chris Mellish, Claire Wallace, Elizabeth Tait, Colin Hunter and Marsaili Macleod. <i>Can Digital Technologies increase Engagement with Community History?</i></p>	<p>3 papers – 15 minutes each + 5 minutes questions</p> <p>Advaith Siddharthan, Chris Mellish, Hien Nguyen, Cheng Zeng, Imogen Pearce and Rene Van Der Wal. <i>Tell me a story about the birds and the bees: Using NLG to foster public engagement in nature conservation projects</i></p> <p>Robert Houghton and David Golightly. <i>Should a signaller look at Twitter? The value of user data to transport control</i></p> <p>Hien Nguyen, Chris Mellish, Alasdair Mort, Ehud Reiter, Peter Kindness and Jonathan Knight. <i>Using NLG to Manage Information in Medical Emergencies</i></p>

16.30 – Session 4, Bamburgh Suite**Club 206**

Session 4a: New Directions for the Digital Economy	Session 4b: Independent Living
<p>3 papers – 15 minutes each + 5 minutes questions</p> <p>Silvia Elaluf-Calderwood, Carsten Sorensen and Ben Eaton. <i>Digital Innovation on Mobile Platforms: A Business Model Analysis</i></p> <p>Kevin Smith, Drew Hemment and Rachel Cooper. <i>Defining New Directions in Data Visualisation Research: Adaptive Signs</i></p> <p>Robert Dingwall, Murray Goulden, Stuart Reeves and Abigail Durrant. <i>Envisioning the Digital Economy</i></p>	<p>3 papers – 15 minutes each + 5 minutes questions</p> <p>Oussama Metatla, Nick Bryan-Kinns, Tony Stockman and Fiore Martin. <i>Designing for Collaborative Cross-modal Interaction</i></p> <p>Rachel Menzies, Annalu Waller and Helen Pain. <i>Interaction of Children with Autism with a Virtual Character</i></p> <p>Kyle Montague, Vicki Hanson and Andy Cobley. <i>Evaluation of Adaptive Interaction with Mobile Touch- Screen Devices</i></p>

18:30 Poster Presentations – Great North Museum

20:00 Evening Banquet Reception Great North Museum – Prize Announcement for the Telling Tales of Engagement Competition.

Thursday 17th November, St James' Park

9:00 -Keynote

A Curriculum for the 21st Century: Storytelling, Architecture, Technology & Experience – Professor Don Marinelli, Executive Producer of the Entertainment Technology Center, Carnegie Mellon University, USA

9.45 – Next Meeting Announcement – Pete Edwards

9.45 – Morning Tea

10.00 – Session 7, Bamburgh Suite

Club 206

Session 7a: Designing for Sensitive Spaces and Domains	Session 7b: Crowdsourcing
<p>3 papers – 15 minutes each + 5 minutes questions</p> <p>Andrew Monk, Paul Dunphy, Patrick Olivier, John Vines and Mark Blythe <i>New approaches to banking for the older old</i></p> <p>Rachid Hourizi, Wendy Moncur and Tony Walter <i>Digital Participation at the End of Life</i></p> <p>Dave Kirk, Stuart Reeves and Abigail Durrant. <i>Spomenik Augmenting Memorials in the Woods</i></p>	<p>3 papers – 15 minutes each + 5 minutes questions</p> <p>Thomas S Methven, Pawel M Orzechowski, Mike J Chantler, Sharon Baurley and Douglas Atkinson <i>A Comparison of Crowd-Sourcing vs. Traditional Techniques for Deriving Consumer Terms</i></p> <p>Dominic Price, Chris Greenhalgh, Shakir Ali, James Goulding and Richard Mortier <i>A Framework for Crowd-Sourcing Personal Data</i></p> <p>Laura Carletti <i>A grassroots initiative for digital preservation of ephemeral artefacts: the Ghostsigns project</i></p>

11.00 – Session 8, Bamburgh Suite

Club 206

Session 8a: Open Data and Security	Session 8b: Engaging Users Online
<p>3 papers – 15 minutes each + 5 minutes questions</p> <p>Andrew Garbett, Conor Linehan, Ben Kirman, Jamie Wardman and Shaun Lawson. <i>Using social media to drive public engagement with open data</i></p> <p>Edoardo Pignotti, David Corsar and Peter Edwards. <i>Provenance Principles for Open Data</i></p> <p>Peter Grindrod. <i>Successful Networks in Security and Defence</i></p>	<p>3 papers – 15 minutes each + 5 minutes questions</p> <p>Stefano Padilla and Mike Chantler. <i>Shoogleit.com: Engaging Online with Interactive Objects</i></p> <p>Stefano Padilla, Fraser Halley and Mike Chantler. <i>Improving Product Browsing whilst Engaging Users</i></p> <p>Jane Binner. <i>Digital Innovation with VoiceYourView: Contributions to Knowledge and Lessons Learned</i></p>

12:15 – Lunch (30 minutes) and Workshops (90 minutes)

14:15 – Session 9, Bamburgh Suite**Club 206**

Session 9a: Connecting Communities	Session 9b: Support Services for Assurance and Reassurance
<p>3 papers – 15 minutes each + 5 minutes questions</p> <p>Dave Kirk, Abigail Durrant and Stuart Reeves. <i>Rwanda: Memorialisation in the Global Digital Economy</i></p> <p>Claire Murphy, Robert Houghton and Alexa Spence. <i>Embodiment and Psychological Distance</i></p> <p>Holger Schnädelbach, Xu Sun, James Norris, Paula Duxbury, Richard Bailey and Dave Lloyd. <i>Creativity Greenhouse – Communication Technologies in the Facilitation of Multi-disciplinary Research Ideas</i></p>	<p>3 papers – 15 minutes each + 5 minutes questions</p> <p>James Goulding, Richard Mortier and Derek Mcauley. <i>Privacy Preserving Personalization via Dataware</i></p> <p>Ian Dent, Christian Wagner, Uwe Aickelin and Tom Rodden. <i>Creating Personalised Energy Plans: From Groups to Individuals using Fuzzy C Means Clustering</i></p> <p>Michael Heron, Vicki Hanson and Ian Ricketts. <i>Accessibility Support with the ACCESS Framework</i></p>

15.15 – Afternoon tea**15:30 – Session 10, Bamburgh Suite****Club 206**

Session 10a Quick Fire	Session 10b Quick Fire
<p>7 papers – 10 mins each + 10 mins at end for questions</p> <p>Alexander V. Mantzaris and Desmond J. Higham. <i>Understanding Dynamic Interactions</i></p> <p>Daniel Fitton, Matthew Horton and Janet Read. <i>Designing with Teens</i></p> <p>Ann Light. <i>Digital Motivation: from Inclusion to Engagement</i></p> <p>Konstantinos Papangelis, Nagendra Velaga, Somayajulu Sripada, John Nelson, Peter Edwards and David Corsar. <i>Exploiting Digital Technologies to Promote Sustainable Travel Behaviour in Rural Areas</i></p> <p>Craig Fletcher, James Ritchie and Theo Lim. <i>Virtual Machining and Knowledge Capture</i></p> <p>James Colley, Ben Bedwell, Stefan Rennick Egglestone, Joel Fischer and Nadia Pantidi. <i>Exploring energy monitoring in the wild</i></p> <p>Rolf Black, David Sloan and Annalu Waller. <i>Connected Computer Aided Communication</i></p>	<p>7 papers – 10 mins each + 10 mins at end for questions</p> <p>Martin Flintham, Stuart Reeves and Abigail Durrant. <i>Creating an Outside Broadcast of a Marathon</i></p> <p>Sharon Baurley, Douglas Atkinson, Stefano Padilla and Mike Chantler. <i>Synthesizing design methodologies for the transmission of tactile qualities in digital media</i></p> <p>Chris Baillie, Peter Edwards and Edoardo Pignotti. <i>Evaluating Quality using Sensor Metadata and Provenance</i></p> <p>John Harvey and David Golightly. <i>Engagement with participatory GIS: the role of Intermediaries</i></p> <p>Peggy Gregory, Karen Whittaker and Katie Taylor. <i>Going Ape: Collaborative Technology for Families</i></p> <p>Peter Edwards, David Corsar, John Nelson, Nagendra Velaga, Mark Beecroft, Jeff Pan and Somayajulu Sripada. <i>Building an Information Ecosystem for Public Transport in Rural Areas</i></p> <p>Jianhua Shao, George Kuk and Richard Mortier. <i>Peripheral Innovation in the Social Media Ecology</i></p>

17.20 Close

Workshops

Day 1

Wednesday 16th November at 12.45

How to share mobile trace data to enable applications in the transport sector? – Box 620, level 6.

Creating a Winning Team: Teenagers actively Participating on the Digital Economy playing field - Box 520, level 5.

Gaming in the Digital Economy – Box 519, level 5.

How IP Are You? Rights Management and Licensing Workshop – Box 619, level 6.

Innovation at MediaCityUK, Salford – Box 608, level 6.

Micro-broadcasting: Content and Community – Box 645, level 6.

Impact: Serendipity or Design? – Centenary Suite, level 2.

Day 2

Thursday 17th November at 13.15

Digital Design Apprentice – Box 519, level 5.

Cloud Computing and the Digital Economy – Box 520, level 5.

Managing Your Personal Contextual Footprint – Box 608, level 6.

Greenview – Seeing energy differently: an interactive workshop on visualising energy – Box 619, level 6.

What should we do with new ICTs in the Digital Economy? – Centenary Suite, level 2.

Digital Content Innovation: Sustainability and Business Models Workshop – Box 645, level 6.

Gigabit Home Network for Ageing Society – Box 620, level 6.

Posters

1. *Weisi Guo and Tim O'Farrell.*
Reducing Energy Consumption of Wireless Communications
2. *Stephen Hoskins and David Huson.*
The Physical artefact: a case study for digital engagement in the creative industries
3. *Megan Meredith-Lobay and Jeff Sanders.*
ScARF and the Digital Economy: Growing a Digital Backbone
4. *Kenny Morrison, Vicki Hanson and Andrea Szymkowiak.*
A questionnaire to gauge older adults' interest in using mobile phones as memory aids
5. *Harold Thimbleby.*
Goal-based design improves interaction dependability
6. *Angela Abbott and Randal Richardson.*
'A Good Death' at Home: Situating Digital Technology
7. *Stuart Dempster and Nancy Maron.*
New Business Models for the Digital Age
8. *John Darlington.*
The Electronic Big Society: A Blueprint for Engaged and Empowered Internet Civic Communities
9. *Ramine Tinati, Leslie Carr, Susan Halford and Catherine Pope.*
Digital Innovation - Investigating the Sustainability of New Kinds of Web
10. *Caroline Leygue, Eamonn Ferguson, Anya Skatova, Alexa Spence, Ben Bedwell and Eryk Walczak.*
Communal Energy Displays: Incentives and Sanctions to Reduce Energy Use
11. *Tony Prescott, Mahmood Javed, Ben Mitchinson and Tom Stafford.*
A Wearable Active Sensing Device for Fire-fighters Using Tactile Displays
12. *Mark Paxton, Alan Chamberlain, Andrew Crabtree, Gary Priestnall, Stuart Reeves Reeves, Matt Jones, Mark Davies and Glen Hart.*
Bridging the Rural Divide: Ubiquitous Computing for the Rural Economy

13. *Ying Liu, Raymond Sung, Theodore Lim and James Ritchie.*
Affective Knowledge Capture System for Computer-Aided Design Environment
14. *Alexa Spence, Caroline Leygue, Ben Bedwell and Claire O'Malley.*
Engaging with Energy Displays
15. *Nimbe Ewald and Gorry Fairhurst.*
Digital Advanced Rural Testbed (DART)
16. *Ashley Lloyd, Yvonne Barnard, Mike Bradley, Terence Sloan, Mario Antonioletti and Natasha Merat.*
Building Relationships with the Invisible in the Digital (Global) Economy – BRIDGE
17. *Graham Wilson, Stephen Brewster and Martin Halvey.*
Augmenting Tactile Interaction with Pressure-Based Input
18. *Derek Foster, Shaun Lawson, Joss Winn, Howard Noble and Dave White.*
Using Grounded Theory to inform the Design of Energy Interventions for the Workplace
19. *Tom Frankland.*
Exploring novel technologies for archaeological fieldwork
20. *Yi Hong, Stephan Reiff-Marganiec, Katharina Rebay-Salisbury and Lin Foxhall.*
Truthfulness and Reliability in Collaborative Image Annotation
21. *Paula Severi, Jose Fiadeiro and David Ekserdjian.*
Guiding the Representation of n-ary Relations in Ontologies through Aggregation, Generalization and Participation
22. *Leanne Townsend, Nicolas D. Rotstein, Alice Toniolo, Chris Burnett, Timothy J. Norman and Claire Wallace.*
All Together Now: A Participatory Approach to Designing an Online Business Networking Tool
23. *Michael Crabb.*
Understand Older Adults Search Habits: A Pilot Study
24. *Mel Woods, Sarah Sharples, Xu Sun, Ruth Aylett, Robert Stewart, Diana Bental, Stephann Makri, Ann Blandford, Jamie Forth, Geraint Wiggins, Scott Piao and Jon Whittle.*
Understanding Serendipity to Inform Novel Processes, Methods and Technologies for the Researcher
25. *Lalya Gaye, Joëlle Bitton, Andreia Cavaco, Ben Jones, Atau Tanaka, Graeme Mearns and Randal Richardson.*
Creative Uses of ICT in Connected Communities: A Scoping Study
26. *D Gann.*
Digital City Exchange: A New Digital Economy Programme

Organising Committee

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University of Dundee, SiDE Hub

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University of Oxford, Digital Economy Research Clusters

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Notes

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