

Digital Futures 2012 Conference Programme
23 – 25 October 2012 Aberdeen Exhibition and Conference Centre
 Rooms: F = Fleming, E = Boyd-Orr Exhibition Hall, C-A = Crombie A, C-B = Crombie B

Tuesday 23 October 2012

08.00 – 09.00		Registration and Coffee
08.40 – 08.55		Check/set-up for Opening Plenary
09.00 – 09.15	F	Welcome SESSION CHAIR: Pete Edwards (University of Aberdeen)
09.15 – 10.15	F	Keynote: Innovating in India: Disruptive Technology for the Developing World Edward Cutrell, Microsoft Research India SESSION CHAIR: Chris Greenhalgh (University of Nottingham)
10.15 – 10.30	F	Network+ Roadmapping Information Session: Catherine Mulligan SESSION CHAIR: John Baird (EPSRC) (contingency: Chris Greenhalgh)
10.30 – 11.00	E	Coffee Break
10.45 – 11.00		Check/set-up for Paper Session One
11.00 – 12.30		Paper Session One

1A: Enterprise	1B: Tales of Engagement	1C: Sensing & Infrastructure
SESSION CHAIR Tim Coughlan (University of Nottingham)	SESSION CHAIR Roger Maull (University of Exeter)	SESSION CHAIR Muttukrishnan Rajarajan (City University)
Timothy Norman, David Emele, Leanne Townsend, Alison Smart, Nophadol Jekjantuk, Akanimo Okure, Alice Toniolo, Jeff Pan, Katia Sycara and Claire Wallace. Agent and semantic support for rural enterprise	Nicole Beale and Gareth Beale. The Potential of Open Models for Public Archaeology	Chris Speed, Maria Burke, Andrew Hudson-Smith, Angelina Karpovich, Simone O'Callaghan and Jon Rogers. Disrupting the Internet of Things
Gerasimos Balis. Local Trade - Supporting Local Economic Resilience in the Digital Age	Jon Whittle, Erinma Ochu, Maria Angela Ferrario , Jen Southern and Ruth McNally. Beyond Research in the Wild: Citizen-Led Research as a Model for Innovation in the Digital Economy	Chris Baillie, Peter Edwards and Edoardo Pignotti. A Role for Provenance in Quality Assessment
Christopher Holland. Disruptive Digital Business Models: A Cross-Sector Analysis	Marianne Dee and Vicki Hanson. Tales of Technology	Yike Guo, Wu Chao, Orestis Tsinialis and Jianyong Shi. WikiSensing: Towards a Cloud based Sensor Informatics Platform for Digital Life in a Digital City
Zeynep Gurguc, Tom Hoehn and Aija Leiponen. A Lottery Mechanism to Promote Cooperation	Olga Fernholz. Innovation for Today While Innovating for Tomorrow. Perspectives on Building Ambidextrous Organisation	Ziaul Hossain, Arjuna Sathiaselan, Gorry Fairhurst, Leanne Townsend and Claire Wallace. Next Generation Satellite Broadband for enabling Universal Service Commitment

12.30 - 13.30	E	Lunch
13:00 - 13:30	F	TSB Connected Digital Economy Catapult Information Session SESSION CHAIR: Pete Edwards (University of Aberdeen)
13.30 – 17.00		Workshops

- WS1: Technology At Home: Methods for Studying the Complexities of Household Interactions
- WS2: Flash, Bang, Wallop! The Next Generation of Digital Tools to Support Impact
- WS3: Connecting Creative Communities
- WS4: Shifting Transport Paradigms: Intelligent Transport Systems and Services (ITSS) Challenge
- WS5: Harnessing the Power of Storytelling in the Digital Economy
- WS6: Visualizing the Hidden Activities in the Digital Economy

15:00- 15:45	E	<i>Tea and coffee will be provided between 15.00 – 15.30</i>
17.15 – 18.15	F	RCUK Digital Economy Impact Review Findings and Recommendations SESSION CHAIR: John Baird (EPSRC) [TBC]

18.15 – 19.30 E Civic Reception, AECC

19:30 Evening Free for Delegates



Wednesday 24 October 2012

08.40 – 08.55 Check/set-up for Keynote and Paper Session Two
 09.00 – 10.00 F **Keynote: Delivering the Smart Grid: How digital technologies can change the way we generate, consume and think about energy**
 Alex Rogers, University of Southampton
SESSION CHAIR Mark Sandler (Queen Mary, University of London)
 10.00 – 11.00 Paper Session Two

2A: Social Perspectives	2B: Accessibility & Inclusion	2C: Open Data
SESSION CHAIR: Helen Thornham (University of Leeds)	SESSION CHAIR Paul Dunphy (Newcastle University)	SESSION CHAIR Martin Flintham (University of Nottingham)
Selina Ellis Gray. The Diversity of Mourning Practices Online	Nuzhah Gooda Sahib, Dena Al Thani, Anastasios Tombros and Tony Stockman. Accessible Information Seeking	Ramine Tinati, Leslie Carr, Susan Halford and Catherine Pope. Exploring the Impact of Adopting Open Data in the UK Government
Angela Abbott and Randal Richardson. Piloting a 'Good Death' Service in Social Housing: Exploring the Potential Role of Digital Technologies	Oussama Metatla, Tony Stockman and Nick Bryan-Kinns. Accessible Music and Sound Studios	David Corsar and Peter Edwards. Enhancing Open Data with Provenance
Graeme Mearns and Randal Richardson. The affordances of social media for inclusive urban communities and the need for 'multi-scalar' approaches	-	Milan Markovic, Peter Edwards, David Corsar and Jeff Z. Pan. Provenance and Social Machines

11.00 – 11.30 E Coffee Break
 11.30 – 12.30 C-A Poster Lighting Talks
 Poster Lightning talks 2 minutes each
SESSION CHAIR: Mark Sandler (Queen Mary, University of London)
 11.30 – 12.30 F Demo Lighting Talks
 Demo Lightning talks 2 minutes each
SESSION CHAIR: Tim Norman (University of Aberdeen)
 12.30 – 13.30 E Lunch
 13.30 – 15.30 E Poster and Demonstration Session
 15.00 – 15.30 E Tea and Coffee will be served
15.15 – 15.30 Check/set-up for Paper Session Three
 15.30 – 17:00 Paper Session Three

3A: Energy & Behaviour	3B: Social Network Analysis
SESSION CHAIR Matt Jones (Swansea University)	SESSION CHAIR Richard Mortier (University of Nottingham)
Richard Bull, Graeme Stuart, Dave Everitt and Martin Rieser. The Gorilla in the Library: lessons in using ICT to engage building users in energy reduction	Alexander V. Mantzaris and Desmond Higham. Do Friends-of-Friends Become Friends?
Ruth Rettie, Tim Harries, Matthew Studley and Parisa Eslambolchilar. The Transformational Power of Digital Feedback	Peter Laflin, Alexander V. Mantzaris, Desmond Higham, Peter Grindrod, Fiona Ainley and Amanda Otley. Twitter's Big Hitters
Anya Skatova, Caroline Leygue, Alexa Spence, Ben Bedwell, Eryk Walczak and Eamonn Ferguson. Communal Energy Displays: The Role of Emotions in Environmental Decisions	Michael Yip, Nigel Shadbolt, Thanassis Tiropanis and Craig Webber. The Digital Underground Economy: A Social Network Approach to Understanding Cybercrime
Gerd Kortuem, Janet van der Linden, Blaine Price, Jacky Bourgeois. Information Interfaces for Domestic Energy Microgeneration Services	James Goulding, Gavin Smith and Duncan Barrack. Neo-demographics and Distributions in the Digital Shadow

18.30 – 00.00 **Conference Dinner**
 18.30 Bus pick up from AECC
 18.40 Bus pick up from Market Street – outside the Douglas Hotel
 The last bus will leave the AECC at 18.45

19.00 for 19.30 Conference Dinner: Ardoe House Hotel, South Deeside Road, Aberdeen

22.00 First Bus pick up from Ardoe House Hotel

23.00 Last Bus pick up from Ardoe House Hotel



Thursday 25 October 2012

08.40 – 08.55 Check/set-up for Keynote and Paper Session Four

09.00 – 10.00 F **Keynote: Analytics for a Smarter Planet**
 Dakshi Agrawal, IBM TJ Watson Research Center
SESSION CHAIR Tim Norman (University of Aberdeen)

10.00 – 11.00 Paper Session Four

4A: Novel Interfaces & Services	4B: Data Mining & Machine Learning	4C: Usability
SESSION CHAIR John Nelson (University of Aberdeen)	SESSION CHAIR Nicholas Race (Lancaster University)	SESSION CHAIR Michael Brown (University of Nottingham)
Jesse Blum and Martin Flintham. Timestreams: Supporting Community Engagement in the Climate Change Debate	Sebastian Stein and Stephen J. McKenna. Towards recognizing food preparation activities in situational support systems	Michael Crabb , Vicki L. Hanson and Andy Cobley. Aiding Data Gathering in Web Usability Studies
Mike Fraser, Peter Bennett, Jarrod Knibbe, Rosamund Davies, Martyn Dade-Robertson and Graeme Earl . Making Time: Defining Rhythms in Archaeological Research	Ian Dent , Tony Craig, Uwe Aickelin and Tom Rodden. Finding the creatures of habit; Clustering households based on their flexibility in using electricity	Michael Crabb , Vicki Hanson and Andy Cobley. Cognitive Usability: Using Human Factors to Influence Future Online Usability Requirements
Chris Mellish and Nava Tintarev. Natural Language Generation for the Digital Economy	Thomas Nind , Vicki Hanson, Stephen McKenna, Ian Ricketts, Falko Sniehotta, Zhiwei Wei, Jeremy Wyatt, Lorna Gibson and Wendy Moncur. Health Website Quality: Towards Automated Analysis	Cristina-Adriana Alexandru and Perdita Stevens. Models to Extend the Scope of Usability Testing for Telemedicine Systems

11.00 – 11.30 E Coffee Break

11.15 – 11.30 Check/set-up for Keynote and Paper Session Five

11.30 – 13.00 Paper Session Five

5A: Healthcare	5B: Recommender Systems	5C: Transport
SESSION CHAIR Phil Stenton (UC Falmouth)	SESSION CHAIR Derek McAuley (University of Nottingham)	SESSION CHAIR Paul Watson (Newcastle University)
Charlie Hargood , Danius Michaelides, Mark Weal, Leanne Morrison and Lucy Yardley. Digital Interventions on and off Mobile Devices	Stefano Padilla and Mike Chantler. Design Suggestions Using Similarity Information	Nagendra Velaga , Kate Pangbourne and Konstantinos Papangelis. GNSS-based Dynamic Road User Charging System
Peter Kindness , Chris Mellish and Judith Masthoff. Towards identifying, measuring and affecting stressors in a pre-hospital care domain	Ben Horsburgh , Susan Craw and Stewart Massie. Cold-Start Music Recommendation Using a Hybrid Representation	David Emele , Nagendra Velaga , Cheng Zeng , Nir Oren, Steve Wright, Timothy Norman and John Nelson . Supporting rural communities through flexible integrated transport services
Liang Chen , Martin J. Kollingbaum, Timothy J. Norman and Peter Edwards . Risk-Aware Access Control for Electronic Health Records	Mathieu Barthet, Gyorgy Fazekas, Simon Dixon and Mark Sandler . Social Media Retrieval for Music Education	Konstantinos Papangelis, Nagendra Velaga , Somayajulu Sripada, Mark Beecroft, John Nelson , Jillian Anable and John Farrington . Real-time passenger information in rural areas during disruptions: A conceptual model development
Chris Burnett, Peter Edwards , Timothy Norman and Mariesha Jaffray. Towards a Trusted Mobile Platform for Self-Management of Chronic Illness in Rural Areas	Ruth Aylett , Diana Bental and Rob Stewart. Supporting Serendipitous Discovery	Koen van Dam , Salvador Acha, Aruna Sivakumar, John Polak and Nilay Shah. Smart cities through data, models and services -- a model exchange platform

13.00 – 13.15 F Conference Wrap up and Close, including information on the 2013 event
SESSION CHAIR: Pete Edwards (University of Aberdeen)

13.15 E Grab and Go Lunch