Programme

Fifth ACM SIGCHI Symposium on

Engineering Interactive Computing Systems

City University London, UK

June 24-27, 2013

Workshops & Doctoral Consortium

- W2: 3rd Workshop on Distributed User Interfaces: Models, Methods and Tools (DUI 2013)
  María Dolores Lozano, Jose Antonio Gallud, Ricardo Tesoriero, V.M.R. Penichet *(University of Castilla-La Mancha)*, Jean Vanderdonckt *(Université catholique de Louvain)*, Habib M. Fardoun *(King AbdulAzziz University)*

- W3: 5th International Workshop on Formal Methods for Interactive Systems (FMIS 2013)
  Steve Reeves, Judy Bowen *(University of Waikato)*

- W4: Context-Aware Adaptation of Service Front-Ends (CASFE2013)
  Javier Caminero Gil *(Telefonica I+D),* Fabio Paternò *(CNR-ISTI),* Vivian Motti *(Université catholique de Louvain)*

Registration	08:30 - 09:00
Workshop/Doctoral Consortium	09:00 - 10:30
Coffee break	10:30 - 11:00
Workshop/Doctoral Consortium	11:00 - 13:00
Lunch	13:00 - 14:00
Workshop/Doctoral Consortium	14:00 - 15:30
Coffee break	15:30 - 16:00
Workshop/Doctoral Consortium	16:00 - 17:00
Buffet	17:00 - 18:00
Tutorial Creativity on a Shoestring – Concept Generating in Agile Development. Neil Maiden *(Centre for Creativity in Professional Practice, City University, London)* Bianca Hollis *(Telegraph Media Group, London)*	18:00 - 21:00
Some drinks in a pub	21:00 - 22:00

Tuesday June 25

Registration	08:30 - 09:15

Welcome	09:15 - 09:30

Invited keynote, Chair: Kris Luyten Jeffrey Nichols – Using the Crowd to Understand and Adapt User Interfaces	09:30 - 10:25

Coffee break	10:25 - 10:45

Session 1 – Adaptation, Chair: Fabio Paternó	10:45 - 13:00

- RBUIS: Simplifying Enterprise Application User Interfaces through Engineering Role-Based Adaptive Behavior. *Pierre Akiki, Arosha Bandara, Yijun Yu (The Open University, Milton Keynes),* **long paper**.
- Model-driven Development and Evolution of Customized User Interfaces. *Andreas Pleuss (University of Limerick), Stefan Wollny (University of Augsburg), Goetz Botterweck (University of Limerick),* **long paper**.
- CrowdAdapt: Enabling Crowdsourced Web Page Adaptation for Individual Viewing Conditions and Preferences. *Michael Nebeling, Maximilian Speicher, Moira Norrie (ETH Zurich),* **long paper**.
- ACCESS: A Technical Framework for Adaptive Accessibility Support. *Michael Heron (Canterbury Christ Church University), Vicki Hanson, Ian Ricketts (University of Dundee),* **long paper**.
- *An Environment for Designing and Sharing Adaptation Rules for Accessible Applications. Raúl Miñón* (University of the Basque Country), Fabio Paternò (CNR-ISTI), Myriam Arrue (University of the Basque Country)*, **short paper**.*

Lunch	13:00 - 14:00

Session 2 – Design and implementation process, Chair: Simone Barbosa	14:00 - 15:30

- A Constructive Approach for Design Space Exploration. *Anke Dittmar, Stefan Piehler (University of Rostock),* **long paper**.
- IOWAState: Models and Design Patterns for Identity-Aware User Interfaces Based on State Machines. *Yann Laurillau (University of Grenoble),* **long paper**.
- Guidelines for Integrating Personas into Software Engineering Tools. *Shamal Faily, John Lyle (University of Oxford),* **short paper**.
- A Methodology for Generating an Assistive System for Smart Environments Based on Contextual Activity Patterns. *Michael Zaki, Peter Forbrig (University of Rostock),* **short paper**.

Coffee break	15:30 - 16:00

Session 3 – Analysis, Chair: Simone Stumpf	16:00 - 17:45

- Verification of interactive software for medical devices: PCA infusion pumps and FDA regulation as an example. *Paolo Masci (Queen Mary University of London), Anaheed Ayoub (University of Pennsylvania), Paul Curzon, Michael Harrison (Queen Mary University of London), Insup Lee, Oleg Sokolsky (University of Pennsylvania), Harold Thimbleby (University of Swansea),* **long paper**.
- Modelling Safety Properties of Interactive Medical Systems. *Judy Bowen, Steve Reeves (University of Waikato),* **long paper**.
- Applying theorem discovery to automatically find and check usability heuristics. *Andy Gimblett, Harold Thimbleby (Swansea University),* **short paper**.
- Combining Static and Dynamic Analysis for the Reverse Engineering of Web Applications. *Carlos Silva, José Campos (Universidade do Minho),* **short paper**.
- Timisto: A Technique to Extract Usage Sequences from Storyboards. *Joël Vogt (University of Fribourg), Mieke Haesen, Kris Luyten, Karin Coninx (Hasselt University), Andreas Meier (University of Fribourg),* **short paper**.

Welcome reception	17:30 - 18:30

Invited keynote, Chair: Michael Harrison   09:00 - 09:50

Pat Healey – Design for Human Interaction: Communication as a special case of misunderstanding

Posters and demos madness, Chair: Philippe Palanque   09:50 - 10:30

Coffee break   10:30 - 11:00

Session 4 – Gesture, multi-touch, tangibles and speech, Chair: Stephanie Wilson   11:00 - 13:00

- A Declarative and Compositional Framework for Multiplatform Gesture Definition. *Lucio Davide Spano (University of Cagliari), Antonio Cisternino (University of Pisa), Fabio Paternò (CNR-ISTI)*, **long paper**.
- Designing Disambiguation Techniques For Pointing in the Physical World. *William Delamare, Céline Coutrix, Laurence Nigay (Université Joseph Fourier de Grenoble I)*, **long paper**.
- Formal Description of Multi-Touch Interactions. *Hamon Arnaud, Philippe Palanque, José Luís Silva (University of Toulouse), Yannick Deleris (Airbus), David Navarre (University of Toulouse)*, **long paper**.
- What if everyone could do it? A framework for easier Spoken Dialog System design. *Pierrick Milhorat, Stephan Schlögl, Gérard Chollet, Jérôme Boudy (Institut Mines-Télécom)*, **short paper**.
- RefactorPad: Editing Source Code on Touchscreens. *Felix Raab, Christian Wolff, Florian Echtler (University of Regensburg)*, **short paper**.

Lunch   13:00 - 14:00

Session 5 – Collaboration, Chair: Judy Bowen   14:00 - 15:15

- Interactive prototyping of tabletop and surface applications. *Tulio de Souza Alcantara, Jennifer Ferreira, Frank Maurer (University of Calgary)*, **long paper**.
- Toward Rapid and Iterative Development of Tangible, Collaborative, Distributed User Interfaces. *Chris Branton, Brygg Ullmer, Andre Wiggins, Landon Rogge, Stephen David Beck, Alex Reeser (Louisiana State University)*, **long paper**.
- A Framework for the development of Distributed Interactive Applications. *Luca Frosini, Marco Manca, Fabio Paternò (CNR-ISTI)*, **short paper**.

Coffee break & Poster Session   15:15 - 16:00

Session 6 – Empirical Techniques, Chair: Anke Dittmar   16:00 - 17:30

- CrowdStudy: General Toolkit for Crowdsourced Evaluation of Web Interfaces. *Michael Nebeling, Maximilian Speicher, Moira Norrie (ETH Zurich)*, **long paper**.
- Complex activities in an operations center: a case study and model for engineering interaction. *Robert Biddle, Judith Brown (Carleton University), Steven Greenspan (CA Technologies)*, **long paper**.
- Insights into Layout Patterns of Mobile User Interfaces by an Automatic Analysis of Android Apps. *Alireza Sahami, Niels Henze, Robin Goldberg, Benjamin Schmidt, Hansjörg Schmauder, Albrecht Schmidt (University of Stuttgart)*, **long paper**.

Conference dinner

Thursday June 27

Invited keynote, Chair: Peter Forbrig	09:00 - 10:00

Ann Blandford – Engineering works: what is (and is not) "engineering" for interactive computer systems?

State of affairs for EICS, "townhall" , Chair: Michael Harrison & Kris Luyten	10:00 - 10:30
Coffee break und posters und demo's	10:30 - 11:00
Session 7 – Measures and metrics, Chair: Sara Jones	11:00 - 12:15

- Improving Software Effort Estimation with Human-Centric Models: a comparison of UCP and iUCP accuracy. *Rui Alves (Madeira Interactive Technologies Institute), Pedro Valente, Nuno Nunes (University of Madeira)*, **long paper**.
- Validating an Episodic UX Model on Online Shopping Decision Making: A Survey Study with B2C e-Commerce. *Abdullah Al Sokkar, Effie Law (University of Leicester)*, **long paper**.
- Assessing the support provided by a toolkit for rapid prototyping of multimodal systems. *Fredy Cuenca, Davy Vanacken, Karin Coninx, Kris Luyten (Hasselt University)*, **short paper**.

Lunch	12:15 - 13:30
Session 8 – Design and Implementation Experience, Chair: José Campos	13:30 - 14:30

- Echo: The Editor's Wisdom with the Elegance of a Magazine. *Joshua Hailpern, Bernardo Huberman (HP Labs)*, **long paper**.
- Hardware-in-the-Loop-Based Evaluation Platform for Automotive Instrument Cluster Development (EPIC). *Sebastian Osswald, Pratik Sheth (TUM CREATE Ltd.), Manfred Tscheligi (University of Salzburg)*, **long paper**.

Closing, thanks & announcement of EICS 2014	14:30 - 15:00