

Opening Keynote

A New You: From Augmented Reality to Augmented Human

Jun Rekimoto



MONDAY

NOV 17, 2014

9:15-10:15

MONDAY
NOV 17, 2014
11:00-12:00

Session 1:

Gestures

Chair: Andy Wilson

- **Exploring Narrative Gestures on Digital Surfaces**
Mehrnaz Mostafapour, Mark Hancock
- **Web on the Wall Reloaded: Implementation, Replication and Refinement of User-Defined Interaction Sets**
Michael Nebeling, Alexander Huber, David Ott, Moira Norrie
- **User-defined Interface Gestures: Dataset and Analysis**
Daniela Grijincu, Miguel A Nacenta, Per Ola Kristensson

MONDAY
NOV 17, 2014
13:45-15:00

Session 2:

Hardware, Sensing and Frameworks

Chair: Jason Alexander

- **A Survey on Multi-touch Gesture Recognition and Multi-touch Frameworks**
Mauricio Cirelli, Ricardo Nakamura
- **HuddleLamp: Spatially-Aware Mobile Displays for Ad-hoc Around-the-Table Collaboration**
Roman Rädle, Hans-Christian Jetter, Nicolai Marquardt, Harald Reiterer, Yvonne Rogers
- **Uminari: Freeform Interactive Loudspeakers**
Yoshio Ishiguro, Ali Israr, Alex Rothera, Eric Brockmeyer
- **Multi-push Display using 6-axis Motion Platform (Note)**
Takashi Nagamatsu, Masahiro Nakane, Haruka Tashiro, Teruhiko Akazawa

MONDAY
NOV 17, 2014
16:10-17:10

Session 3:

Surfaces for Geo-Applications

Chair: Harald Reiterer

- **Multi Surface Interactions with Geospatial Data: A Systematic Review**
Zahra Shakeri Hossein Abad, Craig Anslow, Frank Maurer
- **The Effects of View Techniques on Collaboration and Awareness in Tabletop Map-Based Tasks**
Christophe Bortolaso, Matt Oskamp, Greg Phillips, Carl Gutwin, Nicholas Graham
- **Spatial Querying of Geographical Data with Pen-Input Scopes**
Fabrice Matulic, David Caspar, Moira Norrie

Session 4:

Multi-Surface

Chair: Jürgen Steimle

- **Surface Ghosts: Promoting Awareness of Transferred Objects during Pick-and-Drop Transfer in Multi-Surface Environments**
Stacey D. Scott, Guillaume Besacier, Julie Tournet, Nippun Goyal, Michael Haller
- **PolyChrome: A Cross-Device Framework for Collaborative Web Visualization**
Sriram Karthik Badam, Niklas L. E. Elmqvist
- **ActivitySpace: Managing Device Ecologies in an Activity-Centric Configuration Space**
Steven Houben, Paolo Tell, Jakob E Bardram
- **SleeD: Using a Sleeve Display to Interact with Touch-sensitive Display Walls**
Ulrich von Zadow, Wolfgang Büschel, Ricardo Langner, Raimund Dachsel

TUESDAY
NOV 18, 2014
9:00-10:20

Session 5:

Children and Learning

Chair: Mark Hancock

TUESDAY
NOV 18, 2014
10:50-12:00

- **Structure Editing of Handwritten Mathematics – Improving the Computer Support for the Computational Method**
Alexandra Mendes, Roland Backhouse, João F. Ferreira
- **P.I.A.N.O.: Faster Piano Learning with Interactive Projection**
Katja Rogers, Amrei Röhlig, Matthias Weing, Jan Gugenheimer, Bastian Könings, Melina Klepsch, Florian Schaub, Enrico Rukzio, Tina Seufert, Michael Weber
- **Improving Pre-Kindergarten Touch Performance (Note)**
Vicente Nacher, Alejandro Catala, Javier Jaen, Elena Navarro, Pascual Gonzalez
- **Exploring Visual Cues for Intuitive Communicability of Touch Gestures to Pre-kindergarten Children (Note)**
Vicente Nacher, Alejandro Catala, Javier Jaen

Cultural Events

TUESDAY
NOV 18, 2014
12:00-14:00

- 12:00-13:00
Public Organ Mediation in the Frauenkirche
(Religious, in German)
- 13:00-14:00
Guided tour of the Frauenkirche
(English and German tours)

Session 6:

Space, Activities and Workplace

Chair: Katrin Wolf

TUESDAY
NOV 18, 2014
14:30-15:30

- **DT-DT: Top-down Human Activity Analysis for Interactive Surface Applications**
Gang Hu, Derek Reilly, Mohammed Alnusayri, Ben Swinden, Qigang Gao
- **NetBoards: Investigating a Collection of Personal Noticeboard Displays in the Workplace**
Erroll Wood, Peter Robinson
- **Supporting Situation Awareness in Collaborative Tabletop Systems with Automation**
Y.-L. Betty Chang, Stacey D. Scott, Mark Hancock

Session 7:

Touch, Pressure and Reality

Chair: Nicolai Marquardt

WEDNESDAY
NOV 19, 2014
9:30-10:25

- **An Empirical Characterization of Touch-Gesture Input-Force on Mobile Devices**
Faisal Taher, Jason Alexander, John M Hardy, Eduardo Velloso
- **Characterising the Physicality of Everyday Buttons (Note)**
Jason Alexander, John Hardy, Stephen Wattam
- **Towards Habitable Bits: Digitizing the Built Environment**
Yuichiro Takeuchi

WEDNESDAY
NOV 19, 2014
11:00-12:20

Session 8:

In the World

Chair: Stacey Scott

- **ePlan Multi-Surface: A Multi-Surface Environment for Emergency Response Planning Exercises**
Apoorve Chokshi, Teddy Seyed, Francisco Marinho Rodrigues, Frank Maurer
- **Designing a Remote Video Collaboration System for Industrial Settings**
Veronika Domova, Elina Vartiainen, Marcus Englund
- **The Usability of a Tabletop Application for Neuro-Rehabilitation from Therapists' Point of View**
Mirjam Augstein, Thomas Neumayr, Irene Schacherl-Hofer
- **HyPR Device: Mobile Support for Hybrid Patient Records**
Steven Houben, Mads Frost, Jakob E. Bardram

Cultural Event

WEDNESDAY
NOV 19, 2014
13:00-14:00

- Historical experience tour through city center (English, walking tour)

WEDNESDAY
NOV 19, 2014
14:00-14:55

Session 9:

Tangibles

Chair: Martin Kaltenbrunner

- **ACTO: A Modular Actuated Tangible User Interface Object**
Emanuel Vonach, Georg Gerstweiler, Hannes Kaufmann
- **BullsEye: High-Precision Fiducial Tracking for Table-based Tangible Interaction**
Clemens N Klokrose, Janus B Kristensen, Rolf Bagge, Kim Halskov
- **An Interaction Model for Grasp-Aware Tangibles on Interactive Surfaces (Note)**
Simon Voelker, Christian Corsten, Nur Al-huda Hamdan, Kjell Ivar Øvergård, Jan Borchers

Closing Keynote

Sensitive Skins in Media Art and Design

Joachim Sauter



WEDNESDAY
NOV 19, 2014
15:30-16:30