SSID: interact2015
Password: i15uniba
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The 15th IFIP TC.13 International Conference on Human-Computer Interaction, INTERACT 2015, is held from 14 to 18 September 2015 in Bamberg, Germany, organized by the University of Bamberg. The city of Bamberg is proud of its more than 1000-year-old centre. It has more than 2,400 historically listed buildings and became a UNESCO World Cultural Heritage Site in 1993. With 70000 inhabitants, Bamberg is a small town in the heart of Europe.

The theme of the 2015 edition is “Connection. Tradition. Innovation”. In its relatively short history, the Human-Computer Interaction area has experienced impressive development. Theories, methodologies, procedures, guidelines, and tools have been progressively proposed, discussed, tested, and frequently adopted by academia and the industry. The protagonists of this development created in a short period of time a sort of scientific and technological tradition able to produce high quality interaction systems. Anyhow, the evolution of the computers and networks pose new challenges to all the stakeholders. Innovation, based on tradition, is the only way to face these challenges, even if innovation often requires breaking the tradition. In order to make this process possible, INTERACT 2015 provides diverse and abundant connection opportunities.

Multidisciplinary approach is characteristic of the Human-Computer Interaction field. INTERACT 2015 aimed to connect all the matters able to contribute to the quality of the future interactions among people and computers.

The series of INTERACT international conferences (started in 1984) is supported by the Technical Committee 13 on Human–Computer Interaction of the International Federation for Information Processing (IFIP). This committee aims at developing the science and technology of the interaction between humans and computing devices.

IFIP was created in 1960 under the auspices of UNESCO with the aim of balancing worldwide the development of Computer Technology and Science. The Technical Committee 13 is fully conscious of the social importance of the Information and Communication Technologies for our world, today and in the future. For this reason, INTERACT 2015 has made efforts to attract and host people from the entire planet, and to pay attention to the constraints imposed to the human-computer interaction by differences in culture, language, technological availability, physical, sensory and cognitive differences, among other dimensions of interest.
INTERACT 2015 gathers a stimulating collection of research papers, reports of development and practice that acknowledge diverse disciplines, abilities, cultures, and societies, and that address all the aspects of HCI, including technical, human, social and aesthetical.

Like its predecessors INTERACT 2015 aims to be an exciting forum for communication with people of similar interests, to foster collaboration and learning. Being by nature a multidisciplinary field, HCI requires interaction and discussion among diverse people with different interest and background. INTERACT 2015 was directed both to the academic and industrial world, always highlighting the latest developments in the discipline of HCI and its current applications. Experienced HCI researchers and professionals, as well as newcomers to the HCI field, interested in design or evaluation of interactive software, development of new technologies for interaction, research on general theories of HCI productively are meeting in Bamberg.

We thank all the authors who chose INTERACT 2015 as the venue to publish their research. This was again an outstanding year for the conference in terms of submissions in all the technical categories.

In total, we received 651 submissions. Of these, the following were accepted:

- 93 full research papers
- 74 short research papers
- 8 demos
- 30 interactive posters
- 4 organisational overviews
- 2 panels
- 6 tutorials
- 11 workshops
- 13 doctoral consortium

The acceptance rate for the full papers was 29.6 %, and 26.8 % for short papers.

In order to select the highest quality contributions an elaborate review system was organized including shepherding of 38 full research papers that went through a second and sometimes a third round of review. That process was primarily handled by the 32 meta-reviewers who willingly assisted and ensured the selection of high quality full research papers that will be presented at INTERACT 2015.

The final decision on acceptance or rejection of papers was taken in a plenary Programme Committee meeting held in Tampere (Finland) in February 2015, aimed to discuss a consistent set of criteria to deal with inevitable differences among the large number of reviewers who were recruited and supported by the meta-reviewers. There participated the Technical Programme Chairs and the Track Chairs, the general chairs as well as members of IFIP Technical Committee 13.

Special thanks must go to the track chairs and all the reviewers, who put in an enormous amount of work to ensure that quality criteria were maintained along all the selection process. We also want to acknowledge the excellent work of the co-chairs of the different sections of the conference and the meta-reviewers of the full research paper track.

We also thank the members of the Organizing Committee, especially Mirko Fetter, Local Organisation Chair, who provides us with all the needed resources to facilitate our work. Finally, we wish to express a special thank you to the Proceedings Publication Chair, Marco Winckler, who did extraordinary work to put this volume together.

September 2015

Tom Gross
Julio Abascal
INTERACT 2015 Conference Co-Chairs

Simone Barbosa
Philippe Palanque
INTERACT 2015 Full Paper Co-Chairs
The city of Bamberg is home of one of Europeans largest fully preserved historic old town centres. The medieval castle, the baroque monastery, the Romanesque cathedral with the famous Bamberg Horseman statue, the old bridge town hall built in the middle of the Regnitz river and surrounded by medieval and renaissance buildings, have been the scenery for many films including the 2011 Hollywood blockbuster movie Three Musketeers. The UNESCO World Cultural Heritage city is built on seven hills (like Rome), with the older inner city nestled on an island in the middle of the river Regnitz. Together this forms Germany’s largest UNESCO World Cultural Heritage site - third largest in Europe.

Bamberg is a safe, clean, and green city where everything lies in walking distance (there is a good network of public transport, esp. busses, if needed). September in Bamberg has mild temperatures (an average of 15 C / 59 F) and stable weather conditions (the month with the least number of rain days per year).

Bamberg and its picturesque surrounding region the Franconian Switzerland have the world largest brewery density according to the Guinness Book of World Records. In this region of culinary delights hundreds of small breweries, beer gardens, and restaurants welcome guests with friendliness to enjoy the multifarious specialities of the region. With a variety of small museums such as the Diocesan Museum with Germany’s greatest collection of medieval church vestments, the Bamberg Symphony Orchestra an orchestra of world fame for their Mahler interpretations, and the German basketball champion Brose Baskets, Bamberg offers diverse possibilities for a cultural program.

Bamberg is in the heart of the Nuremberg Metropolitan Region with numerous sights from the Germanic National Museum to the Bayreuth Richard-Wagner Festival Opera house, which can be easily reached by public transport.
GENERAL INFORMATION FOR ATTENDEES

CONFERENCE VENUES

Welcome Centre Bamberg
The main conference venue is the Welcome Centre Bamberg in the Welcome Kongresshotel, located only a 10-minute stroll away from the UNESCO World Cultural Heritage old town.

Welcome Kongresshotel
Mußstr. 7
96047 Bamberg

GPS
Latitude: 49° 53' 51.324" N
Longitude: 10° 52' 37.667" E

ERBA Building
Tutorials and workshops and any other event prior to the main technical program take place at University of Bamberg’s new ERBA Building. The ERBA Building is located on the northern part of the city island and a 10-minute walk from the Welcome Centre. It is surrounded by a beautiful park—the area of the Bavarian gardening show 2012—inviting for short walks during breaks.

ERBA Building - WE5
University of Bamberg
An der Weberei 5
96047 Bamberg

GPS
Latitude: 49° 54’ 11.102” N
Longitude: 10° 52’ 8.41” E

SOCIAL EVENTS

Welcome Reception
The Welcome Reception on Wednesday is held at the Klosterbräu — Bamberg’s oldest brewery (started in 1533). The brewery is beautifully situated in the historic mill district on the banks of the river Regnitz. Please join us for a selection of typical francoonian food and different beers. The Welcome Reception is open to all registered conference participants — please bring your badge.

Klosterbräu
Obere Mühlbrücke 1
96049 Bamberg

GPS
Latitude: 49° 53’ 20.76” N
Longitude: 10° 53’ 13.163” E

Conference Banquet
The conference banquet on Thursday will be a festive gala dinner in the concert hall, home of the world famous Bamberg Symphony orchestra. The concert hall is directly connected to the Welcome Centre via a short underground walkway. Please bring your badge.

Konzerthalle Bamberg
Mußstraße 1
96047 Bamberg

GPS
Latitude: 49° 53’ 49.891” N
Longitude: 10° 52’ 43.982” E

GETTING FROM A TO B

Bamberg is a small town, and with all conference venues close to the old town, we invite you to walk to reach the different venues. Strolling along the river Regnitz most times gets you from A to B in 10 to 15 minutes.

Public transportation in Bamberg is provided by the VGN, the Nuremberg Metropolitan Transport System, mainly in form of buses. A single trip ticket in Bamberg is 1,80 €. For more information on transport in Bamberg please go to the VGN website at http://www.vgn.de/en/bamberg?Edition=en or

If you want to further explose the whole Nuremberg Metropolitan Area, the VGN day ticket “TagesTicket Plus” allows two persons to use all buses, trains, subways in the whole network. This for example is also the best option for a trip to Nuremberg, which will take 45 minutes from Bamberg main station.

By Bus to Welcome Centre Bamberg and Concert Hall
From Bamberg’s central bus station “Zentraler Omnibus Bahnhof (ZOB)” take bus line 906 or night line 938 until bus stop “Concert Hall” or “Mußstr”. Alternatively you can take bus line 916 to the bus stop “Sandstr.” and cross the Regnitz via the nearby footbridge.

By Bus to ERBA Building
From Bamberg’s central bus station “Zentraler Omnibus Bahnhof (ZOB)” take bus line 906 or night line 938 until bus stop “Gaustadt/Spinnerei”.
By Bus to Klosterbräu

From Bamberg’s central bus station “Zentraler Omnibus Bahnhof (ZOB)” take bus line 918 or line 928 until bus stop “Bamberg/Schranne”.

By Car

If you are in Bamberg by car, there is an underground car park next to the Welcome Centre (entrance from Mußstraße) and below the ERBA-Building (entrance from An der Spinnerei).

Speaker Ready Room

At the Welcome Centre Bamberg, the room K1 serves as a speaker ready room. Speakers, panelists, etc. can rehearse their presentation or prepare materials there. You can freely access the room, but we ask you to come to a mutual arrangement with other participants that also want to use the room.

Conference Office

The conference office is located in the room K10 of the Welcome Centre Bamberg and in the room WE5/00.039 at the ERBA Building.

Social Media and Photo Sharing

At HCI conferences like INTERACT 2015 it is common that photos of crowd scenes, of presentations, or of people interacting with demos, etc., are taken. We ask you to use common courtesy when taking photos of individuals that are later uploaded to online platforms.

INTERACT 2015 generally encourages sharing of photos in social media — please add a #interact2015 tag to photos and tweets.

Before, during and after the conference INTERACT 2015 also posts photos, updates, etc. in various social media platforms, amongst which are:

- **Twitter**
  http://twitter.com/interact2015

- **Facebook**
  http://www.facebook.com/interact2015

- **Flickr**
  http://www.flickr.com/photos/interact2015/

- **Pinterest**
  http://www.pinterest.com/interact2015/

Lunch Breaks

There is a plethora of restaurants, cafes, and bars in the old town of Bamberg, most in walking distance to the Welcome Centre Bamberg. The student volunteers prepared a list with recommendations, further we curated an interactive map with recommendations under the following URL http://www.pinterest.com/INTERACT2015/where-to-eat/

The restaurant Plückers, situated in the Welcome Centre, provides a small selection of inexpensive meals each day.

At the ERBA Building on Monday and Tuesday, there is lunch provided for all participants in a Tutorial, Workshop, or the Doctorial Consortium.

Wireless Access

INTERACT 2015 offers Internet access in its main conference venues Welcome Centre Bamberg and the ERBA Building throughout all rooms. You can connect to the network with the SSID interact2015 and the password i15uniba. Additionally eduroam-users can alternatively connect to the respective network with the credentials from their home institution.
## CONFERENCE AT A GLANCE

### WEDNESDAY  
16 SEPTEMBER 2015

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<tr>
<td>09:30</td>
<td>Opening Plenary</td>
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| 10:30  | Opening Keynote  
**Bill Gaver:** Seriously Playful: Using a Design-Led Approach to Explore Technology and People. |    |    |    |    |    |    |    |    |    |
| 12:00  | Madness                              |    |    |    |    |    |    |    |    |    |
| 12:30  | Lunch Break                          |    |    |    |    |    |    |    |    |    |
| 14:00  | **TPS01.1** Mobile and Ubiquitous Interaction I  
**TPS01.2** User and Task Modelling  
**TPS01.3** Alternative Input and Output  
**TPS01.4** End-User Development  
**TPS01.5** Interfaces for Cognitive Support  
**TPS01.6** Cognitive Factors |    |    |    |    |    |    |    |    |    |    |
| 15:30  | Coffee Break                         |    |    |    |    |    |    |    |    |    |
| 16:00  | **TPS02.1** Mobile and Ubiquitous Interaction II  
**PA01** Panel - Role of Conferences in Shaping the Field of HCI  
**TPS02.2** Brain-Computer Interaction  
**OO** Organisational Overviews  
**TPS02.3** Alternative Input Devices for People with Disabilities  
**TPS02.4** HCI for Global Software Development |    |    |    |    |    |    |    |    |    |    |
| 17:30  | Welcome Reception (Klosterbräu Bamberg) |    |    |    |    |    |    |    |    |    |
| 19:30  |    |    |    |    |    |    |    |    |    |    |
| 21:30  |    |    |    |    |    |    |    |    |    |    |

### THURSDAY  
17 SEPTEMBER 2015

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<td>08:30</td>
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| 09:30  | **Industry Keynote**  
**Kevin Dame:** Visioning and Culture Change at YouTube |    |    |    |    |    |    |    |    |    |
| 10:30  | Coffee Break                         |    |    |    |    |    |    |    |    |    |
| 11:00  | **IP01** What’s it Really Like Working in Industry? A Day in the Life of Industry Researchers  
**TPS03.1** Tangible and Tactile Interaction  
**TPS03.2** Visualisation  
**TPS03.3** Computer-Supported Cooperative Work and Social Computing I  
**TPS03.4** Accessibility  
**TPS03.5** HCI for Education |    |    |    |    |    |    |    |    |    |    |
| 12:30  | Lunch Break                          |    |    |    |    |    |    |    |    |    |
| 14:00  | **TPS04.1** Multi-Screen Visualisation and Large Screens  
**PA02** Panel - Interaction and Humans in Internet of Things  
**TPS04.2** Visualisation and 3D  
**TPS04.3** Computer-Supported Cooperative Work and Social Computing II  
**TPS04.4** Accessible Interfaces for Blind People  
**TPS04.5** HCI for Developing Regions and Social Development |    |    |    |    |    |    |    |    |    |    |
| 15:30  | Coffee Break                         |    |    |    |    |    |    |    |    |    |
| 16:30  | **DIP** Highlight on Demos and Posters  
**TPS05.1** Interactive Tabletops  
**TPS05.2** Learning and Touching  
**TPS05.3** Visualisation in Virtual Spaces  
**TPS05.6** Social Interaction  
**TPS05.5** Accessible Interfaces for Older Adults  
**TPS05.4** HCI in Healthcare |    |    |    |    |    |    |    |    |    |    |
| 17:30  |    |    |    |    |    |    |    |    |    |    |
| 19:00  |    |    |    |    |    |    |    |    |    |    |
| 19:30  | Conference Banquet (Concert Hall Bamberg) |    |    |    |    |    |    |    |    |    |
| 23:00  |    |    |    |    |    |    |    |    |    |    |
## CONFERENCE AT A GLANCE

### FRIDAY 18 SEPTEMBER 2015

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<tr>
<td>09:00</td>
<td>TPS06.1 Evaluation Methods and Usability Evaluation I</td>
<td>PA03 Panel - Design, Innovation and Respect in the Global South</td>
<td>TPS06.2 Human-Robot Interaction</td>
<td>TPS06.3 Participatory Design</td>
<td>TPS06.4 Affective HCI, Emotions, Motivational Aspects I</td>
<td>TPS06.5 HCI and Security</td>
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<td>10:30</td>
<td>Coffee Break</td>
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<tr>
<td>11:00</td>
<td>TPS07.1 Evaluation Methods and Usability Evaluation II</td>
<td>TPS07.2 Touch and Haptic</td>
<td>TPS07.3 Gesture Interaction</td>
<td>TPS07.4 Tools for Design</td>
<td>TPS07.5 Affective HCI, Emotions, Motivational Aspects II</td>
<td>TPS07.6 HCI Studies I</td>
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<tr>
<td>12:30</td>
<td>Lunch Break</td>
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<tr>
<td>14:00</td>
<td>TPS08.1 Evaluation Methods and Usability Evaluation III</td>
<td>TPS08.2 Wearable Computing</td>
<td>TPS08.3 Pointing and Gesture Interaction</td>
<td>TPS08.4 Eye Tracking</td>
<td>TPS08.5 Affective HCI, Emotions, Motivational Aspects III</td>
<td>TPS08.6 HCI Studies II</td>
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<tr>
<td>15:30</td>
<td>Coffee Break</td>
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<td>16:00</td>
<td>Closing Keynote Virpi Roto: Towards Distinctive User Experiences</td>
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<td>17:00</td>
<td>Closing Plenary</td>
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TUTORIALS & WORKSHOPS

Monday, 14 September 2015

TUTORIALS

T01: Modern Regression Techniques for HCI Researchers
09:00 - 17:30 | WE5/04.003
Martin Schmettow, University of Twente

T02: How to Design and Build New Musical Interfaces
09:00 - 12:30 | WE5/04.005
Sidney Fels, University of British Columbia
Michael Lyons, Ritsumeikan University

T03: Working with Child Participants in Interaction Design
14:00 - 17:30 | WE5/04.005
Janet Read, UCLan

WORKSHOPS

W01: Methods for Undertaking Research on Technology With Older and Disabled People
09:00 - 17:30 | WE5/05.004
Helen Petrie, University of York
Blaithin Gallagher, National Council for the Blind
Jenny Darzentas, University of the Aegean

W02: IFIP WG 13.5 Workshop on Resilience, Reliability, Safety and Human Error in System Development
09:00 - 17:30 | WE5/01.017
Chris Johnson, University of Glasgow
Mike Feeley, NASA, Ames Research Center
Célia Martinie, Université Paul Sabatier - Toulouse III
Philippe Palanque, Université Paul Sabatier - Toulouse III
Regina Peldszus, European Space Operations Centre

W03: Human Work Interaction Design (HWID): Design for Challenging Work Environments
09:00 - 17:30 | WE5/02.020
Verena Fuchsberger, University of Salzburg
Martin Murer, University of Salzburg
Manfred Tscheligi, University of Salzburg
José Abdelnour-Nocera, University of West London
Pedro Campos, Universidade da Madeira
Frederica Gonçalves, Universidade da Madeira
Barbara Rita Barricelli, Università degli Studi di Milano

W04: IFIP WG 13.2 Workshop on User Experience and User-Centered Development Processes
09:00 - 17:30 | WE5/03.004
Marco Winckler, Université Paul Sabatier
Regina Bernhaupt, Université Paul Sabatier
Peter Forbrig, Universität Rostock
Stefan Sauer, Universität Paderborn

W05: IFIP WG 13.7 Workshop on Designing Interaction and Visualization for Mobile Applications (DIViM 2015)
09:00 - 17:30 | WE5/05.003
Shah Rukh Humayoun, University of Kaiserslautern
Achim Ebert, University of Kaiserslautern
Steffen Hess, Fraunhofer IESE
Gerrit van der Veer, Dalian Maritime University
DOCTORAL CONSORTIUM

DC: Doctoral Consortium
09:00 - 17:30 | WES/05.003
Geraldine Fitzpatrick, Vienna University of Technology
Panayiotis Zaphiris, Cyprus University of Technology

W10: Fostering Smart Energy Applications
09:00 - 17:30 | WES/03.004
Masood Masoodian, The University of Waikato
Elisabeth André, Augsburg University
Thomas Rist, University of Applied Sciences Augsburg

TUTORIALS

T04: Tutorial on Human Computer Interaction for Third Places - THCI-3P
09:00 - 17:30 | WES/04.003
Junia Coutinho Anacleto, UFSCar
Sidney Fels, UBC
Roberto Calderon, UBC

T05: Sketching User Experiences Tutorial
09:00 - 12:30 | WES/04.005
Nicolai Marquardt, University College London

T06: Design and Rapid Evaluation of Interactive Systems in Theory and Practice
14:00 - 17:30 | WES/04.005
Jochen Denzinger, ma ma Interactive System Design
Tom Gross, University of Bamberg

WORKSHOPS

W07: Learning Beyond the Classroom: for and About Older and Disabled People
09:00 - 17:30 | WES/05.004
Gerhard Weber, Technische Universität Dresden
Christopher Power, University of York
Helen Petrie, University of York
Jenny Darzentas, University of the Aegean

W08: Workshop on Interactivity in Healthcare Systems (IHS)
09:00 - 17:30 | WES/01.017
Vicki Hanson, Rochester Institute of Technology
Gemma Webster, University of Aberdeen
Matt Dennis, University of Aberdeen

W09: The Landscape of the UX Requirements Practices
09:00 - 17:30 | WES/02.020
Gregorio Convertino, Informatica Corporation
Nancy Frishberg, Financial Engines
Jettie Hoonhout, Philips Research
Rosa Lanzilotti, University of Bari
Marta Kristín Lárusdóttir, Reykjavik University
Effie Lai-Chong Law, University of Leicester
<table>
<thead>
<tr>
<th>Time</th>
<th>Session 1</th>
<th>Session 2</th>
<th>Session 3</th>
<th>Session 4</th>
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<tbody>
<tr>
<td>09:30 - 10:30</td>
<td>Opening Plenary</td>
<td>TPS01.1 Mobile and Ubiquitous Interaction I</td>
<td>TPS02.1 Mobile and Ubiquitous Interaction II</td>
<td>TPS02.2 Brain-Computer Interaction</td>
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<td>Opening Keynote</td>
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<td>Bill Gaver: Seriously Playful: Using a Design-Led Approach to Explore Technology and People</td>
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<td>10:30 - 11:45</td>
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<td>12:00 - 12:30</td>
<td>Lunch Break (12:30 - 14:00)</td>
<td>TPS01.2 User and Task Modelling</td>
<td>PA01 Panel - Role of Conferences in Shaping the Field of HCI</td>
<td>Page 19</td>
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<td>14:00 - 15:30</td>
<td>TPS01.3 Alternative Input and Output</td>
<td>TPS01.4 End-User Development</td>
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<td>16:00 - 17:30</td>
<td>TPS01.5 Interfaces for Cognitive Support</td>
<td>TPS01.6 Cognitive Factors</td>
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**19:30 – 21:30 | WELCOME RECEPTION (KLOSTERBRÄU BAMBERG)**
Seriously Playful: Using a Design-Led Approach to Explore Technology and People

Over more than a decade, I have worked with my Studio on projects in a variety of everyday contexts, producing highly-finished prototypes that range from a device that recreates the views from passing aircraft, to an appliance that serves as a resource for prayer, to a system that connects distributed energy communities with a stream of energy-obsessed babble. In this talk, I describe our methodology and some of the particular methods we use to investigate situations and people, develop ideas, and evaluate our work. Most generally, I suggest that our research takes advantage of the exciting methodological and conceptual freedom that comes from acknowledging Design as an alternative to Science.

Biography

Bill Gaver is Professor of Design and leads the Interaction Research Studio at Goldsmiths, University of London. His research on design-led methodologies and innovative technologies for everyday life led him to develop an internationally renowned studio bringing the skills of designers together with expertise in ubiquitous computing and sociology. With the Studio, he has developed approaches to design ranging from Cultural Probes to the use of documentary film to help assess peoples’ experience with designs, pursued conceptual work on topics such as ambiguity and interpretation, and produced highly-finished prototypes that have been deployed for long-term field trials and exhibited internationally at venues such as the V&A Museum, Tate Britain, and New York’s MOMA. He has published over 70 articles (h-index of 36) and is an elected member of the CHI Academy. He currently holds an ERC Advanced Investigator Grant and is principle investigator of a joint project with Sociology the co-construction of communities and environmental devices.
SESSIONS

TPS01.1: MOBILE AND UBIQUITOUS INTERACTION I

Session Chair: Janet Louise Wesson, Nelson Mandela Metropolitan University

Location: K6/7

If You Are Happy and You Know It, Say “I'm Here”: Investigating Parents’ Location-Sharing Preferences

Paolo Massa, Fondazione Bruno Kessler
Chiara Leonardi, Fondazione Bruno Kessler
Bruno Lepri, Fondazione Bruno Kessler
Fabio Pianesi, Fondazione Bruno Kessler
Massimo Zancanaro, Fondazione Bruno Kessler

UbiBeam: Exploring the Interaction Space for Home Deployed Projector-Camera Systems

Jan Gugenheimer, Ulm University
Pascal Knierim, Stuttgart University
Christian Winkler, Ulm University
Julian Seifert, Ulm University
Enrico Rukzio, Ulm University

Navigation in Long Forms on Smartphones: Scrolling worse than Tabs, Menus, and Collapsible Fieldsets

Johannes Harms, Vienna University of Technology
Martina Kratky, Vienna University of Technology
Christoph Wimmer, Vienna University of Technology
Karim Kappel, Vienna University of Technology
Thomas Grechenig, Vienna University of Technology

Synchronising Live Second Screen Applications with TV Broadcasts through User Feedback

Pedro Centeiro, Universidade Nova de Lisboa, Viva Superstars Digital Media
Teresa Romão, Universidade Nova de Lisboa
A. Eduardo Dias, Universidade Nova de Lisboa, Viva Superstars Digital Media
Rui Madeira, Universidade Nova de Lisboa

TPS01.2: USER AND TASK MODELLING

Session Chair: Marco Winckler, Université Paul Sabatier

Location: K2

Enhanced Task Modelling for Systematic Identification and Explicit Representation of Human Errors

Racim Fahssi, Université Paul Sabatier - Toulouse III
Célia Martinie, Université Paul Sabatier - Toulouse III
Philippe Palanque, Université Paul Sabatier - Toulouse III

EvolutionWorks: Towards Improved Visualization of Citation Networks

Jason Wilkins, Texas A&M University
Jaakko Järvi, Texas A&M University
Ajit Jain, Texas A&M University
Gaurav Kejriwal, Texas A&M University
Andruid Kerne, Texas A&M University
Vijay Kumar, Texas A&M University

Quantifying Object- and Command-oriented Interaction

Alix Goguey, Inria
Julie Wagner, University of Munich (LMU)
Géry Casiez, University of Lille

Users, Bystanders and Agents: Participation Roles in Human-Agent Interaction

Antonia Krummheuer, Aalborg University

TPS01.3: ALTERNATIVE INPUT AND OUTPUT

Session Chair: Anirudha Joshi, IIT Bombay

Location: K3

Shape-Change for Zoomable TUIs: Opportunities and Limits of a Resizable Slider

Céline Coutrix, CNRS
Cédric Masclet, UJF-SCOP
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<td>Jesse Burstyn, Queen's University</td>
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<td>PrintPut: Resistive and Capacitive Input Widgets for Interactive 3D Prints</td>
<td>Jesse Burstyn, Queen's University, Nicholas Fellion, Queen's University, Creative Interactions Lab, Carleton University, Paul Strohmeier, Queen's University, Roel Vertegaal, Queen's University</td>
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<td>ReservoirBench: An Interactive Educational Reservoir Engineering Workbench</td>
<td>Sowmya Somanath, University of Calgary, Allan Rocha, University of Calgary, Hamidreza Hamdi, University of Calgary, Ehd Sharlin, University of Calgary, Mario Costa Sousa, University of Calgary</td>
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<td>AirDisplay: Experimenting with Air Flow as a Communication Medium</td>
<td>Omar Mowafi, German University in Cairo, Mohamed Khamis, University of Munich, Wael Abouelsaadat, German University in Cairo</td>
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<td>Experiencing the Elements – User Study with Natural Material Probes</td>
<td>Jonna Häkkilä, University of Lapland, Yun He, University of Oulu, Ashley Colley, University of Oulu</td>
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<td>Fabio Paternò, CNR-ISTI</td>
<td>K8</td>
<td>How to organize the Annotation Systems in Human-Computer Environment: Study, Classification and Observations</td>
<td>Anis Kalboussi, Kairouan University, ReDCAD Research Laboratory, Sfax University, Niwar Omheni, Kairouan University, ReDCAD Research Laboratory, Sfax University, Omar Mazhoud, Kairouan University, ReDCAD Research Laboratory, Sfax University, Ahmed Hadj Kacem, Faculty of Economics and Management, Sfax University and ReDCAD Research Laboratory</td>
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<td>Mini-Orb: A Personal Indoor Climate Preference Feedback Interface</td>
<td>Markus Rittenbruch, Queensland University of Technology, Jared Donovan, Queensland University of Technology, Yasuhiro Santo, Queensland University of Technology</td>
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<td>Marta Kristin Larusdottir, Reykjavik University</td>
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<td>Flat Design vs Traditional Design: Comparative Experimental Study</td>
<td>Ivan Burmistrov, Lomonosov Moscow State University, interUX Usability Engineering Studio, Tatiana Zlokazova, Lomonosov Moscow State University, Anna Izmalikova, Lomonosov Moscow State University, Anna Leonova, Lomonosov Moscow State University</td>
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<td>Cognitive Accessibility for Mentally Disabled Persons</td>
<td>Stefan Johansson, KTH Royal Institute of Technology, Jan Gulliksen, KTH Royal Institute of Technology, Ann Lantz, KTH Royal Institute of Technology</td>
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<td>Serious Games for Cognitive Training in Ambient Assisted Living Environments – A Technology Acceptance Perspective</td>
<td>Jan Wittland, RWTH Aachen University, Philipp Brauner, RWTH Aachen University, Martina Ziefle, RWTH Aachen University</td>
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<td>Design and Evaluation of Mobile Learning Applications for Autistic Children in Pakistan</td>
<td>Muneeb Ahmad, MARCS Institute, Suleman Shahid, Tilburg centre for Cognition and Communication</td>
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<td>Exercises for German-Speaking Children with Dyslexia</td>
<td>Maria Rauschenberger, OFFIS - Institute for Information Technology, Silke Füchsel, University of Applied Science Emden/Leer, Luz Rello, Change Dyslexia Foundation, Cookie Cloud Barcelona, Clara Bayarri, Cookie Cloud Barcelona, Jörg Thomaschewski, University of Applied Science Emden/Leer</td>
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<td>Prototyping the Self-Authored Video Interview: Challenges and Opportunities</td>
<td>Stephen Snow, Queensland University of Technology, Markus Rittenbruch, Queensland University of Technology, Margot Breton, Queensland University of Technology</td>
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<td>TPS01.5: INTERFACES FOR COGNITIVE SUPPORT</td>
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**TPS01.6: COGNITIVE FACTORS**

**Session Chair:** Michail Xenos, Hellenic Open University  
**Location:** K11

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**Bilingual Reading Experiences: What They Could Be and How To Design for Them**  
Clément Pillias, Conservatoire National des Arts et Métiers  
Pierre Cubaud, Conservatoire National des Arts et Métiers

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**Text Touching Effects in Active Reading: The Impact of the Use of a Touch-based Tablet Device**  
Hirohito Shibata, Fuji Xerox Co., Ltd.  
Kentaro Takano, Fuji Xerox Co., Ltd.  
Shun’ichi Tano, The University of Electro-Communications

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**Dynamic Workload Adjustments in Human-Machine Systems Based on GSR Features**  
Jianlong Zhou, National ICT Australia (NICTA)  
Ju Young Jung, National ICT Australia (NICTA) University of Sydney  
Fang Chen, National ICT Australia (NICTA)

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**A Human Cognitive Processing Perspective in Designing E-Commerce Checkout Processes**  
Marios Belk, University of Cyprus  
Panagiotis Germanakos, SAP SE  
Argyris Constantinides, University College London  
George Samaras, University of Cyprus
Contextual Interaction Design Research: Enabling HCI

Martin Murer, University of Salzburg
Alexander Meschtscherjakov, University of Salzburg
Verena Fuchsberger, University of Salzburg
Manuel Giuliani, University of Salzburg
Katja Neureiter, University of Salzburg
Christiane Moser, University of Salzburg
Ilhan Aslan, University of Salzburg
Manfred Tscheligi, University of Salzburg

Organisational Overview: Institute for Design and Assessment of Technology, Vienna University of Technology (TU Wien)

Geraldine Fitzpatrick, Vienna University of Technology
Hilda Tellioglu, Vienna University of Technology
Wolfgang Zagler, Vienna University of Technology
Margit Pohl, Vienna University of Technology
Florian Güldenpfennig, Vienna University of Technology
Oliver Hödl, Vienna University of Technology
Roman Ganhór, Vienna University of Technology
Peter Mayer, Vienna University of Technology
Christopher Frauenberger, Vienna University of Technology

Technology Experience Research: A Framework for Experience Oriented Technology Development

Manfred Tscheligi, Austrian Institute of Technology
Sebastian Egger, Austrian Institute of Technology
Peter Fröhlich, Austrian Institute of Technology
Cristina Olaverri-Monreal, Austrian Institute of Technology
Georg Regal, Austrian Institute of Technology

Usability Testing Practise in MIMOS Usability Lab

Norfarhana Abdullah, MIMOS Berhad
Ashok Sivaji, MIMOS Berhad
Masitah Ghazali, MIMOS Berhad, Universiti Teknologi Malaysia

Role of Conferences in Shaping the Field of HCI

Jan Gulliksen, KTH Royal Institute of Technology
Simone Barbosa, PUC-Rio
Anirudha Joshi, IIT Bombay
Shaun Lawson, University of Lincoln
Philippe Palanque, University of Toulouse

Towards Deeper Understanding of User Experience with Ubiquitous Computing Systems: Systematic Literature Review and Design Framework

Kaisa Väänänen-Vainio-Mattila, Tampere University of Technology
Thomas Olsson, Tampere University of Technology
Jonna Häkkilä, University of Lapland

Cue Now, Reflect Later: A Study of Delayed Reflection of Diary Events

Ming Ki Chong, Lancaster University
Jon Whittle, Lancaster University
Umar Rashid, University of Kent
Chee Siang Ang, University of Kent

Tick that Box: Interactive Paper Documents

Yomna Abdelrahman, University of Stuttgart
Thomas Kubitzka, University of Stuttgart
Katrin Wolf, University of Stuttgart
Norman pohl, University of Stuttgart
Albrecht Schmidt, University of Stuttgart

uCanvas: A Web Framework for Spontaneous Smartphone Interaction with Ubiquitous Displays

Tilman Dingler, University of Stuttgart
Tobias Bagg, University of Stuttgart
Yves Grau, University of Stuttgart
Niels Henze, University of Stuttgart
Albrecht Schmidt, University of Stuttgart
TPS02.2: BRAIN-COMPUTER INTERACTION

Session Chair: Vanda Benešová, Slovak University of Technology in Bratislava

Location: K3

Continuous Mental Effort Evaluation During 3D Object Manipulation Tasks Based on Brain and Physiological Signals
Dennis Wobrock, Immersion, Bordeaux, INRIA
Jérémy Frey, Univ. Bordeaux, LaBRI, CNRS, LaBRI, INRIA
Delphine Graef, Immersion, Bordeaux
Jean-Baptiste de la Rivière, Immersion, Bordeaux
Julien Castet, Immersion, Bordeaux
Fabien Lotte, INRIA, Univ. Bordeaux, LaBRI, CNRS, LaBRI

Continuous Tactile Feedback for Motor-Imagery based Brain-Computer Interaction in a Multitasking Context
Camille Jeunet, University of Bordeaux
Chi Vi, University of Bristol
Daniel Spelmezan, University of Bristol
Bernard N’Kaoua, University of Bordeaux
Fabien Lotte, Inria Bordeaux Sud-Ouest / LaBRI
Sriram Subramanian, University of Bristol

Towards Brain Computer Interfaces for Recreational Activities: Piloting a Drone
Nataliya Kosyma, Grenoble INP
Franck Tarpin-Bernard, Univ. Grenoble Alpes
Bertrand Rivet, Grenoble INP

TPS02.3: ALTERNATIVE INPUT DEVICES FOR PEOPLE WITH DISABILITIES

Session Chair: Monique Noirhomme, Namur University
Location: K9

Eyes and Keys: An Evaluation of Click Alternatives Combining Gaze and Keyboard
Ken Neth Yeoh, University of Auckland
Christof Lutteroth, University of Auckland
Gerald Weber, University of Auckland

Interactions Under the Desk: A Characterisation of Foot Movements for Input in a Seated Position
Eduardo Velloso, Lancaster University
Jason Alexander, Lancaster University
Andreas Bulling, Max Planck Institute for Informatics (Saarbrücken)
Hans Gellersen, Lancaster University

Life in the Fast Lane: Effect of Language and Calibration Accuracy on the Speed of Text Entry by Gaze
Kari-Jouko Räihä, University of Tampere

TPS02.4: HCI FOR GLOBAL SOFTWARE DEVELOPMENT

Session Chair: Peter Forbrig, University of Rostock
Location: K11

Non-response, Social Exclusion, and False Acceptance: Gatekeeping Tactics and Usability Work in Free-Libre Open Source Software Development
Mikko Rajanen, University of Oulu
Netta Livari, University of Oulu
Arto Lanamäki, University of Oulu

Task Allocation between UX Specialists and Developers in Agile Software Development Projects
Kati Kuusinen, Tampere University of Technology
An Interactive Approach for Inspecting Software System Measurements
Taimur Khan, University of Kaiserslautern
Henning Barthel, Fraunhofer IESE
Karsten Amrhein, University of Kaiserslautern
Achim Ebert, University of Kaiserslautern
Peter Liggesmeyer, University of Kaiserslautern, Fraunhofer IESE

Digital Signage Effectiveness in Retail Stores
Mari Anne Ervasti, VTT Technical Research Centre of Finland
Juha Sakari Häkiö, VTT Technical Research Centre of Finland
Minna Hannele Isomursu, University of Oulu
Esa Pekka Isomursu, Oulu University of Applied Sciences
Tiina Maria Liuska, Oulu University of Applied Sciences
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<td>09:30 - 10:30</td>
<td>K 5/7 Madness Keynote Kevin Dame: Visioning and CultureChange at YouTube Page 23</td>
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<td>11:00 - 12:30</td>
<td>IP01 What's it Really Like Working in Industry? A Day in the Life of Industry Researchers Page 24</td>
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Visioning and Culture Change at YouTube

In this talk, Kevin will give audience members a unique, behind-the-scenes glimpse into organizational change within Google. He’ll talk about how he founded and grew the Visioning Team at YouTube and helped transform YouTube’s culture around product innovation, collaboration, and strategic thinking. Touching on the conference themes of Connection, Tradition and Innovation, Kevin’s story focuses on the challenges of innovating in a strong culture with many traditions and well-established norms, and how he helped connect YouTubers to their users but creating stronger connections between YouTubers.
### IP01: INDUSTRY PANEL - WHAT’S IT REALLY LIKE WORKING IN INDUSTRY? A DAY IN THE LIFE OF INDUSTRY RESEARCHERS

**Session Chair:** Tom Gross, University of Bamberg  
**Location:** K6/7

**What's it Really Like Working in Industry? A Day in the Life of Industry Researchers**

- Melanie Fitzgerald, Google  
- David Dearman, Twitter  
- Kori Inkpen, Microsoft Research  
- Chuan She, Facebook  
- Hartmut Obendorf, Xing

### TPS03.1: TANGIBLE AND TACTILE INTERACTION

**Session Chair:** Martina Joisten, Rheinische Fachhochschule Köln  
**Location:** K2

**Need for Touch in Human Space Exploration: Towards the Design of a Morphing Haptic Glove — ExoSkin**

- Sue Ann Seah, University of Bristol  
- Marianna Obrist, University of Sussex  
- Anne Roudaut, University of Bristol  
- Sriram Subramanian, University of Bristol

**Tactile Communication in Extreme Contexts: Exploring the Design Space Through Kiteboarding**

- André Schmidt, Aarhus University  
- Mads Kleemann, Aarhus University  
- Timothy R. Merritt, Aarhus School of Architecture  
- Ted Selker, Carnegie Mellon University

**Child or Adult? Inferring Smartphone Users’ Age Group from Touch Measurements Alone**

- Radu-Daniel Vatavu, University Stefan cel Mare of Suceava  
- Lisa Anthony, University of Florida  
- Quincy Brown, Bowie State University

**Designing of 2D Illusory Tactile Feedback for Hand-held Tablets**

- Youngsun Kim, Korea University (South Korea)  
- Jaedong Lee, Korea University (South Korea)  
- Gerard Jounghyun Kim, Korea University (South Korea)

### TPS03.2: VISUALISATION

**Session Chair:** Simone DJ Barbosa, PUC-Rio  
**Location:** K3

**Proxemic Flow: Dynamic Peripheral Floor Visualizations for Revealing and Mediating Large Surface Interactions**

- Jo Vermeulen, University of Birmingham, Hasselt University - IUL - IMinds  
- Kris Luyten, Hasselt University - IUL - IMinds  
- Karin Coninx, Hasselt University - IUL - IMinds  
- Nicolai Marquardt, University College London  
- Jon Bird, City University

**Self-Actuated Displays for Vertical Surfaces**

- Patrick Bader, Stuttgart Media University, University of Stuttgart  
- Valentin Schwind, Stuttgart Media University, University of Stuttgart  
- Norman Pohl, Stuttgart Media University, University of Stuttgart  
- Niels Henze, University of Stuttgart  
- Katrin Wolf, University of Stuttgart  
- Stefan Schneegass, University of Stuttgart  
- Albrecht Schmidt, University of Stuttgart

**Augmented Happiness: Simple Color Changes Influence Users’ Conceptual Choices**

- Diana Loeffler, University of Wuerzburg  
- Wolfgang Paier, Fraunhofer HHI  
- Takashi Torizuka, Nihon University  
- Mio Ikeda, Nihon University  
- Jörm Hurtienne, University of Wuerzburg

**Investigating Representation Alternatives for Communicating Uncertainty to Non-Experts**

- Miriam Greis, Universität Stuttgart  
- Thorsten Ohler, Universität Stuttgart  
- Niels Henze, Universität Stuttgart  
- Albrecht Schmidt, Universität Stuttgart
Thursday, 17 Sept. / 11:00 – 12:30

TPS03.3: COMPUTER-SUPPORTED COOPERATIVE WORK AND SOCIAL COMPUTING I

Session Chair: Michael Koch, Bundeswehr University Munich
Location: K8

EmbodiNet: Enriching Distributed Musical Collaboration through Embodied Interactions
Dalia El-Shimy, McGill University
Jeremy R. Cooperstock, McGill University

Preference Elicitation and Negotiation in a Group Recommender System
Jesús Omar Álvarez Márquez, University of Duisburg-Essen
Jürgen Ziegler, University of Duisburg-Essen

The #selfiestation: Design and Use of a Kiosk for Taking Selfies in the Enterprise
Casey Dugan, IBM Research
Sven Laumer, University of Bamberg
Thomas Erickson, IBM Research
Wendy Kellogg, IBM Research
Werner Geyer, IBM Research

The LuminUs: Providing Musicians with Visual Feedback on the Gaze and Body Motion of their Co-Performers
Evan Lloyd Morgan, Queen Mary University
Hatice Gunes, Queen Mary University
Nick Bryan-Kinns, Queen Mary University

TPS03.4: ACCESSIBILITY

Session Chair: Zdenek Mikovec, Czech Technical University in Prague
Location: K9

Assisted Interaction Data Analysis of Web-Based User Studies
Xabier Valencia, University of the Basque Country
Eduardo Perez, University of the Basque Country
Unai Muñoz, University of the Basque Country
Myriam Arrue, University of the Basque Country
Julio Abascal, University of the Basque Country

Technology Acceptance Evaluation by Deaf Students Considering the Inclusive Education Context
Soraia Silva Prietch, Universidade Federal de Mato Grosso
Universidade de São Paulo
Lucia Vilela Leite Filgueiras, Universidade de São Paulo

Understanding touch and motion gestures for blind people on mobile devices
Marco Romano, Universidad Carlos III de Madrid
Andrea Bellucci, Universidad Carlos III de Madrid
Ignacio Aedo, Universidad Carlos III de Madrid

Virtual Buttons for Eyes-Free Interaction: A Study
Jens Bauer, TU Kaiserslautern
Achim Ebert, TU Kaiserslautern

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Myriam Arrue, University of the Basque Country
Julio Abascal, University of the Basque Country
TPS03.5: HCI FOR EDUCATION

Session Chair: Gerrit C. van der Veer, Dalian Maritime University
Location: K11

Evaluating Digital Tabletop Collaborative Writing in the Classroom

Philip Heslop, Newcastle University
Anne Preston, Newcastle University
Ahmed Kharrufa, Newcastle University
Madeline Balaam, Newcastle University
David Leat, Newcastle University
Patrick Olivier, Newcastle University

Using IMUs to Identify Supervisors on Touch Devices

Ahmed Kharrufa, Newcastle University
James Nicholson, Newcastle University
Paul Dunphy, Newcastle University
Steve Hodges, Microsoft Research, Cambridge
Pam Briggs, Northumbria University
Patrick Olivier, Newcastle University

The 5-Step Plan - Empowered Children’s Robotic Product Ideas

Lara Lammer, Vienna University of Technology
Astrid Weiss, Vienna University of Technology
Markus Vincze, Vienna University of Technology

Evaluating the Accuracy of Pre-Kindergarten Children Multi-touch Interaction

Vicente Nacher, Universitat Politècnica de Valencia
Javier Jaen, Universitat Politècnica de Valencia
TPS04.2: VISUALISATION AND 3D
Session Chair: Brygg Ullmer, Louisiana State University
Location: K3

Interaction and Humans in Internet of Things
Markku Turunen, University of Tampere
Daniel Sonntag, DFKI
Klaus-Peter Engelbrecht, Technische Universität Berlin
Thomas Olsson, Tampere University of Technology
Dirk Schnelle-Walka, S1nn GmbH & Co. KG
Andrés Lucero, University of Southern Denmark

3D-HUDD - Developing a Prototyping Tool for 3D Head-Up Displays
Nora Broy, BMW Research and Technology
Matthias Neffzer, University of Munich
Florian Alt, University of Munich
Mariam Hassib, University of Stuttgart
Albrecht Schmidt, University of Stuttgart

MStoryG: Exploring Serendipitous Storytelling Within High Anxiety Public Spaces
Clinton Luis Jorge, University of Madeira
Valentina Nisi, University of Madeira
Julian Hanna, University of Madeira
Nuno Nunes, University of Madeira
Miguel Caldeira, University of Madeira
Amanda Marinho, University of Madeira

Design and Evaluation of Mirror Interface MIOSS to Overlay Remote 3D Spaces
Ryo Ishii, NTT Corporation
Shiro Ozawa, NTT Corporation
Akira Kojima, NTT Corporation
Kazuhiro Otsuka, NTT Corporation
Yuki Hayashi, Osaka Prefecture University
Yukiko Nakano, Seikei University

Improving Spatial Awareness for Human Trajectory Visualization in Space-Time Cubes
Tiago Gonçalves, University of Lisbon
Ana Paula Afonso, University of Lisbon
Bruno Martins, University of Lisbon

PA02: PANEL - INTERACTION AND HUMANS IN INTERNET OF THINGS
Session Chair: Markku Turunen, University of Tampere
Location: K2

Interaction and Humans in Internet of Things
Markku Turunen, University of Tampere
Daniel Sonntag, DFKI
Klaus-Peter Engelbrecht, Technische Universität Berlin
Thomas Olsson, Tampere University of Technology
Dirk Schnelle-Walka, S1nn GmbH & Co. KG
Andrés Lucero, University of Southern Denmark

Disperse: Enabling Web-Based Visualization in Multi-Screen and Multi-User Environments
Megan Monroe, IBM
Casey Dugan, IBM

Evaluation of Distance-aware Bimanual Manipulation Techniques for Large High-Resolution Displays
Anke Lehmann, TU Dresden
Oliver Staadt, University of Rostock

Should I Stay or Should I Go? Selecting Between Touch and Mid-air Gestures For Large-Display Interaction
Mikkel R. Jakobsen, University of Copenhagen
Yvonne Jansen, University of Copenhagen
Sebastian Boring, University of Copenhagen
Kasper Hornbæk, University of Copenhagen

FULL PAPER
FULL PAPER
FULL PAPER
FULL PAPER
# TPS04.3: Computer-Supported Cooperative Work and Social Computing II

**Session Chair:** Raquel Prates, UFMG  
**Location:** K8

- **An Information Ecology in a Nutshell: A Distributed Cognition Perspective for Collaboration and Coordination**  
  Christina Vasiliou, Cyprus University of Technology  
  Andrí Ioannou, Cyprus University of Technology  
  Panayiotis Zaphiris, Cyprus University of Technology

- **EXCITE: Exploring Collaborative Interaction in Tracked Environments**  
  Nicolai Marquardt, University College London  
  Frederico Schardong, University of Calgary  
  Anthony Tang, University of Calgary

- **Augmenting Collaborative MOOC Video Viewing with Synchronized Textbook**  
  Nan Li, EPFL  
  Lukasz Kidzinski, EPFL  
  Pierre Dillenbourg, EPFL

- **Assessing a Collaborative Application for Comic Strips Composition**  
  Eleonora Mencarini, University of Trento, FBK-irst  
  Gianluca Schiavo, University of Trento, FBK-irst  
  Alessandro Cappelletti, FBK-irst  
  Oliviero Stock, FBK-irst  
  Massimo Zancanaro, FBK-irst

- **The Usefulness of Method-Resources for Evaluating a Collaborative Training Simulator**  
  Ebba Thora Hvannberg, University of Iceland  
  Gyda Halldorsdottir, University of Iceland  
  Jan Rudinsky, University of Iceland

# TPS04.4: Accessible Interfaces for Blind People

**Session Chair:** Manfred Tscheligi, University of Salzburg  
**Location:** K9

- **Navigation Problems in Blind-to-Blind Pedestrians Tele-assistance Navigation**  
  Jan Balata, Czech Technical University in Prague  
  Zdenek Mikovec, Czech Technical University in Prague  
  Ivo Maly, Czech Technical University in Prague

- **Comparing Concurrent and Retrospective Verbal Protocols for blind and sighted users**  
  Andreas Savva, University of York  
  Helen Petrie, University of York  
  Christopher Power, University of York

- **Inclusive Production of Tactile Graphics**  
  Jens Bomschein, Technische Universität Dresden  
  Denise Prescher, Technische Universität Dresden  
  Christopher Weber, Technische Universität Dresden

- **Exploring Map Orientation with Interactive Audio-Tactile Maps**  
  Alistair Edwards, University of York  
  Nazatul Hamid, University of York  
  Helen Petrie, University of York

# TPS04.5: HCI for Developing Regions and Social Development

**Session Chair:** Jose Abdelnour-Nocera, University of West London  
**Location:** K11

- **Penan’s Oro’ Short Message Signs (PO-SMS): Co-design of a Digital Jungle Sign Language Application**  
  Tariq Zaman, Universiti Malaysia Sarawak  
  Heike B.A. Winschiers-Theophilus, Polytechnic of Namibia
The Whodunit Challenge: Mobilizing the Crowd in India
Aditya Vashistha, *University of Washington*
Rajan Vaish, UC Santa Cruz
Edward Cutrell, Microsoft Research India
William Thies, Microsoft Research India

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HCI Practices in the Nigerian Software Industry
Abiodun Afolayan Ogunyemi, *Tallinn University*
David Lamas, *Tallinn University*
Rotimi Emmanuel Adagunodo, Obafemi Awolowo University
Isaias Barreto Da Rosa, ECOWAS Commission

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Wayfinding Behavior in India
Naveed Ahmed, *Industrial Design Centre, IIT Bombay*
Jérémy Frey, Univ. Bordeaux, CNRS, INRIA
Aurélien Appriou, INRIA
Fabien Lotte, INRIA, Univ. Bordeaux, CNRS
Martin Hachet, INRIA, Univ. Bordeaux, CNRS

Pointing in Spatial Augmented Reality from 2D Pointing Devices
Renaud Gervais, Inria Bordeaux
Jérémy Frey, Univ. Bordeaux, CNRS
Martin Hachet, Inria Bordeaux

Smartphone-based Gait Measurement Application and Its Effects on the Lifestyle of Senior Citizens
Takahiro Miura, the University of Tokyo, the University of Tokyo
Ken-ichiro Yabu, the University of Tokyo
Atsushi Hiyama, the University of Tokyo
Noriko Inamura, Urban Design Center Kashiwa-no-ha (UDCK)
Michitaka Hirose, the University of Tokyo
Tohru Ifukube, the University of Tokyo

Low-Income Parents’ Values Involving the Use of Technology for Accessing Health Information
David Munoz, IBM
Rosa Arriaga, Georgia Institute of Technology

Breathe with Touch: A Tactile Interface for Breathing Assistance System
Bin YU, Technology University of Eindhoven Netherlands
Loo FeiJa, Technology University of Eindhoven Netherlands
Mathias Funk, Technology University of Eindhoven Netherlands
Jun Hu, Technology University of Eindhoven Netherlands
Thursday, 17 Sept. / 16:00 – 17:30

**SESSIONS**

**TPS05.5: ACCESSIBLE INTERFACES FOR OLDER ADULTS**

**Session Chair:** Panayiotis Zaphiris, Cyprus University of Technology  
**Location:** K9

- **Prototyping TV and Tablet Facebook Interfaces for Older Adults**  
  José Coelho, University of Lisbon  
  Fábio Rito, University of Lisbon  
  Nuno Luz, University of Lisbon  
  Carlos Duarte, University of Lisbon

- **Socially Networked or Isolated? Differentiating Older Adults and the Role of Tablets and Television**  
  José Coelho, University of Lisbon  
  Carlos Duarte, University of Lisbon

- **Using Photo Diaries to Elicit User Requirements from Older Adults: a case study on mobility barriers**  
  David Swallow, University of York  
  Helen Petrie, University of York  
  Christopher Power, University of York  
  Alistair D N Edwards, University of York

**TPS05.6: SOCIAL INTERACTION**

**Session Chair:** Junia Coutinho Anacleto, UFSCar  
**Location:** K8

- **Sharing Wishes on Public Displays: Using Technology to Create Social Places**  
  Vinicius Afonso Raimundo Ferreira, Federal University of Sao Carlos  
  Junia Anacleto, Federal University of Sao Carlos  
  Andre Bueno, Federal University of Sao Carlos

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**FULL PAPER**

- **Social Interaction Design Patterns For Urban Media Architecture**  
  Luke Hespanhol, Design and Planning University of Sydney  
  Peter Dalsgaard, Aarhus University

- **Thinking like Disney: Supporting the Disney Method Using Ambient Feedback Based on Group Performance**  
  Sarah Tausch, University of Munich (LMU)  
  Fabius Steinberger, University of Munich (LMU)  
  Heinrich Hußmann, University of Munich (LMU)

- **Eery Space: Facilitating Virtual Meetings Through Remote Proxemics**  
  Maurício Sousa, INESC-ID Lisboa, University of Lisbon  
  Daniel Mendes, INESC-ID Lisboa, University of Lisbon  
  Alfredo Ferreira, INESC-ID Lisboa, University of Lisbon  
  João Madeiras Pereira, INESC-ID Lisboa, University of Lisbon  
  Joaquim Jorge, INESC-ID Lisboa, University of Lisbon

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**SHORT PAPER**

- **Probing the potential of multimedia artefacts to support communication of people with dementia**  
  Alina Huldtgren, Eindhoven University of Technology, University of Applied Science Düsseldorf  
  Fabian Mertl, University of Applied Science Düsseldorf  
  Christian Geiger, University of Applied Science Düsseldorf

- **Thinking like Disney: Supporting the Disney Method Using Ambient Feedback Based on Group Performance**  
  Sarah Tausch, University of Munich (LMU)  
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  Alfredo Ferreira, INESC-ID Lisboa, University of Lisbon  
  João Madeiras Pereira, INESC-ID Lisboa, University of Lisbon  
  Joaquim Jorge, INESC-ID Lisboa, University of Lisbon

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**SHORT PAPER**

- **Using Photo Diaries to Elicit User Requirements from Older Adults: a case study on mobility barriers**  
  David Swallow, University of York  
  Helen Petrie, University of York  
  Christopher Power, University of York  
  Alistair D N Edwards, University of York
TPS05.2: LEARNING AND TOUCHING

Session Chair: Clarisse de Souza, PUC-Rio
Location: K2

How does HCI Research Affect Education Programs? A Study in the Brazilian Context
Isabela Gasparini, UDESC
Simone Barbosa, PUC-Rio
Milene Silveira, FACIN/PUCRS
Silvia Amelia Bim, UTFPR
Clodis Boscarioli, UNIOESTE

MindMiner: A Mixed-Initiative Interface for Interactive Distance Metric Learning
Xiangmin Fan, University of Pittsburgh
Youming Liu, University of Pittsburgh
Nan Cao, IBM T.J. Watson Research Center
Jason Hong, Carnegie Mellon University
Jingtao Wang, University of Pittsburgh

Glass+Skin: An Empirical Evaluation of the Added Value of Finger Identification to Basic Single-Touch Interaction on Touch Screens
Quentin Roy, Telecom ParisTech
Yves Guiard, Telecom ParisTech
Gilles Bailly, Telecom ParisTech
Éric Lecolinet, Telecom ParisTech
Olivier Rioul, Telecom ParisTech

Design and Usability Evaluation of Adaptive E-learning Systems based on Learner Knowledge and Learning Style
Mohammad Alshammari, University of Birmingham
Rachid Anane, Coventry University
Robert J. Hendley, University of Birmingham

Tangible Voting: a technique for interacting with group choices on a tangible tabletop
Valérie Maquil, Luxembourg Institute of Science and Technology
Eric Tobias, Luxembourg Institute of Science and Technology
Thibaud Latour, Luxembourg Institute of Science and Technology
Thursday, 17 Sept. / 16:00 – 19:00

**DIP: HIGHLIGHT ON DEMOS AND POSTERS**

**Session Chairs:** Stephen Brewster, University of Glasgow
David McGookin, Aalto University

**Location:** K4/5

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**A Hybrid Approach for Visualizing Spatial and Non-Spatial Data Types of Embedded Systems**
Ragaad AlTarawneh, University of Kaiserslautern
Shah Rukh Humayoun, University of Kaiserslautern
Achim Ebert, University of Kaiserslautern

**A Multi-Modal System for Public Speaking - Pilot Study on Evaluation of Real-time Feedback**
Fiona Dermody, Dublin City University
Alistair Sutherland, Dublin City University
Margaret Farren, Dublin City University

Mina Terauchi, Polytechnic University
Yuji Nagashima, Kogakuin University

**Applying "Out of Body" Vibrotactile Illusion to Two-Finger Interaction for Perception of Object Dynamics**
Jaedong Lee, Korea University, Seoul (South Korea)
Youngsun Kim, Korea University, Seoul (South Korea)
Gerard Jounghyun Kim, Korea University, Seoul (South Korea)

Antje Heinicke, RWTH Aachen
Christina Bröhl, RWTH Aachen
Ioannis Dokas, RWTH Aachen
Katrin Walbaum, RWTH Aachen
Jennifer Büttler, RWTH Aachen
Christopher Schlick, RWTH Aachen

**Digital Co-Design Applied to Healthcare Environments: A Comparative Study**
Lei Sh, University of Warwick
James MacKril, University of Warwick
Elisavet Dimitrokali, University of Warwick
Carolyn Dawson, University of Warwick
Rebecca Cain, University of Warwick

**Dual Camera Magic Lens for Handheld AR Sketching**
Klen Čopič Pucihar, University of Primorska
Jens Grubert, Technical University Graz
Matjaž Kljun, University of Primorska

**Enabling Naturalness and Humanness in Mobile Voice Assistants**
Sanjay Ghosh, Samsung R&D Institute Bangalore
Jatin Pherwani, Samsung R&D Institute Bangalore

**Estimation of Radius of Curvature of Lumbar Spine Using Bending Sensor for Low Back Pain Prevention**
Takakuni Iitsuka, Kochi University of Technology
Kyoko Shibata, Kochi University of Technology
Yoshio Inoue, Kochi University of Technology

**Evaluation of dispatcher requirements on automated customer feedback in public transport**
Cindy Mayas, TU Ilmenau
Stephan Hörold, TU Ilmenau
Anselmo Stelzer, TU Darmstadt
Frank Englert, TU Darmstadt
Heidi Krömker, TU Ilmenau

**Experiences of Teaching HCI to a Multidisciplinary Cohort of Computing and Design Students**
Omar Mubin, University of Western Sydney
Abdullah Al Mahmud, Swinburne University of Technology
Suleman Shahid, Tilburg University Netherlands

**Experiencing a Home Energy Management System: FindingOpportunities for Design**
BingXin Ni, Delft University of Technology
Abdullah Al Mahmud, Swinburne University of Technology
David V. Keyson, Delft University of Technology

**Eye Strain from Switching Focus in Optical See-through Displays**
Jaeun Yu, Korea University (South Korea)
Gerard Jounghyun Kim, Korea University (South Korea)

**First Impression Matters: Exploring the Mediating Effect of Previous Experience on the Perception of Beauty and Usability**
Suleman Shahid, Tilburg University Netherlands
Omar Mubin, University of Western Sydney
IDA – The Intelligent Driver Assistant for Smart City Parking in Singapore
Andreea I. Niculescu, Institute for Infocomm Reseach
Rafael E. Banchs, Institute for Infocomm Reseach

Informing Costumers via Interactive Shelves
Peter Rogelj, University of Primorska

Intelligent Ankle-foot Orthosis by Energy Regeneration for Controllable Damping during Gait in Real Time
Kyoko SHIBATA, Kochi University of Technology
Yoshio INOUE, Kochi University of Technology
Hironobu SATOH, Kochi National College of Technology

Interactive Check System for Facilitating Self-awareness of Dorm Students in Upper Secondary Education
Shigenori Akamatsu, Kochi College
Masanobu Yoshida, Kochi College
Takumi Yamaguchi, Kochi College

Interactive Toys in the Home: A Parents Perspective
Omar Mubin, University of Western Sydney
Ducan Rutishauser, University of Western Sydney
Mauricio Novoa, University of Western Sydney
Derek Wainohu, InfaSecure Private Limited
Suleman Shahid, Tilburg University Netherlands

Learning Lessons from Controlled Studies to Elicit and Investigate Users’ Resilience Strategies
Jonathan Day, City University London
George Buchanan, City University London
Stephann Makri, City University London

LightWatch: A Wearable Light Display for Personal Exertion
Jutta Fortmann, University of Oldenburg
Janko Timmermann, OFFIS - Institute for Information Technology
Bengt Lüers, University of Oldenburg
Marius Wybrands, University of Oldenburg
Wilko Heuten, OFFIS - Institute for Information Technology
Susanne Boll, University of Oldenburg

Perceptive Media – Adaptive Storytelling for Digital Broadcast
Adrian-Ioan Gradinar, Lancaster University
Daniel Burnett, Lancaster University
Paul Coulton, Lancaster University
Ian Forrester, Lancaster University
Matt Watkins, Lancaster University
Tom Scutt, Lancaster University
Emma Murphy, Lancaster University

Redesgining Interaction in CODES
Elisa Leo de Oliveira, Instituto Federal do Rio Grande do Sul
Evandro Manara Miletto, Instituto Federal do Rio Grande do Sul
Luciano V. Flores, Instituto Federal do Rio Grande do Sul

Small Community Size of Private SNS for Bonding Relationship: Development of a Research Framework
Hyeonjung Ahn, Sungkyunkwan University (South Korea)
Sangwon Lee, Sungkyunkwan University (South Korea)

Sushi Train Interface: Passive and Interactive Information Sharing
Tomomi Takashina, Nikon Corporation
Yuji Kokumai, Nikon Corporation

Tangible Microscope with Intuitive Stage Control Interface
Tomomi Takashina, Nikon Corporation
Hitoshi Kawai, Nikon Corporation
Yuji Kokumai, Nikon Corporation

Touch Skin: Proprioceptive Input for Small Screen Devices
Changhyeon Lee, Korea University (South Korea)
Jaedong Lee, Korea University (South Korea)
Gerard Jounghyun Kim, Korea University (South Korea)

Towards In-Air Gesture Control of Household Appliances with Limited Displays
Euan Freeman, University of Glasgow
Stephen Brewster, University of Glasgow
Vuokko Lantz, Nokia Technologies

Video-conferencing in e-commerce website: Effect on perceived service quality and trust
Suleman Shahid, Tilburg University Netherlands
Abdullah Al Mahmud, Swinburne University of Technology
Omar Mubin, University of Western Sydney
“I was here”: Enabling Tourists to Leave Digital Graffiti on Historic Landmarks
Matjaž Kljun, University of Primorska
Klen Čopič Pucihar, University of Primorska

BlurtLine: A design exploration to support children with ADHD in classrooms
Dorothé Smit, Eindhoven University of Technology
Saskia Bakker, Eindhoven University of Technology

Cooperation in Real-time Using a Virtual Environment
Máté Köles, Budapest University of Technology and Economics
Károly Hercegfi, Budapest University of Technology and Economics
Balázs Péter Hámornik, Budapest University of Technology and Economics
Emma Lógó, Budapest University of Technology and Economics
Bálint Szabó, Budapest University of Technology and Economics
Anita Komlódi, University of Maryland Baltimore County

Diving into the Data Ocean
Dieter Meiller, East Bavarian Technical University Amberg-Weiden

ETA Wizard App: Make Design and Evaluation of Accessible Electronic Travel Aids Easy
Limin Zeng, TU Dresden
Gerhard Weber, TU Dresden
Alexander Fickel, TU Dresden

Generating Narratives from Personal Digital Data: Using Sentiment, Themes, and Named Entities To Construct Stories
Elaine Farrow, University of Edinburgh
Thomas Dickinson, The Open University
Matthew P. Aylett, University of Edinburgh

Interactive Light Feedback: Illuminating Above-Device Gesture Interfaces
Euan Freeman, University of Glasgow
Stephen Brewster, University of Glasgow
Vuokko Lantz, Nokia Technologies

StoreAnt: A System to Support Finding Collaborative Systems Evaluation Methods
Marcella Leandro Costa de Souza, Universidade Federal de Minas Gerais
Lidia Silva Ferreira, Universidade Federal de Minas Gerais
Raquel de Oliveira Prates, Universidade Federal de Minas Gerais
Marilia Lyra Bergamo, Universidade Federal de Minas Gerais
## FRIDAY OVERVIEW

### 18 SEPTEMBER 2015

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  - TPS08.5 Affective HCL Emotions, Motivational Aspects III Page 43

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PA03: PANEL - DESIGN, INNOVATION AND RESPECT IN THE GLOBAL SOUTH
Session Chair: Jose Abdelnour-Nocera, University of West London
Location: K2

Design, Innovation and Respect in the Global South
Jose Abdelnour-Nocera, University of West London, Madeira Interactive Technologies Institute
Torkil Clemmensen, Copenhagen Business School
Christian Sturm, Hamm-Lippstadt University of Applied Sciences

TPS06.1: EVALUATION METHODS AND USABILITY EVALUATION I
Session Chair: Martin Schmettow, University of Twente
Location: K6/7

An Empirical Study of the Effects of Three Think-Aloud Protocols on Identification of Usability Problems
Anders Bruun, Aalborg University
Jan Stage, Aalborg University

An Observational Study of How Experienced Programmers Annotate Program Code
Craig Sutherland, The University of Auckland
Andrew Luxton-Reilly, The University of Auckland
Beryl Plimmer, The University of Auckland

Around-Device Interactions: A Usability Study of Frame Markers in Acquisition Tasks
Fernando Garcia-Sanjuan, ISSI/DSIC, Universitat Politècnica de València
Alejandro Catala, ISSI/DSIC, Universitat Politècnica de València
Geraldine Fitzpatrick, Vienna University of Technology
Javier Jaen, ISSI/DSIC, Universitat Politècnica de València

On Applying Experience Sampling Method to A/B Testing of Mobile Applications: A Case Study
MyungHee Lee, Korea University (South Korea)
Gerrad Jounghyun Kim, Korea University (South Korea)

TPS06.2: HUMAN-ROBOT INTERACTION
Session Chair: Gerhard Weber, Technische Universität Dresden
Location: K3

 Deploying Robots in a Production Environment: A Study on Temporal Transitions of Workers’ Experiences
Daniela Wurhofer, University of Salzburg
Thomas Meneweger, University of Salzburg
Verena Fuchsberger, University of Salzburg
Manfred Tscheligi, University of Salzburg

 Finding Objects Faster in Dense Environments using a Projection Augmented Robotic Arm
Hind Gacem, Télécom ParisTech and CNRS LTCI UMR
Gilles Bailly, Télécom ParisTech and CNRS LTCI UMR
James Eagan, Télécom ParisTech and CNRS LTCI UMR
Eric Lecolinet, Télécom ParisTech and CNRS LTCI UMR

 It’s Not the Way You Look, It’s How You Move: Validating a General Scheme for Robot Affective Behaviour
Jekaterina Novikova, University of Bath
Gang Ren, University of Bath
Leon Watts, University of Bath

TPS06.3: PARTICIPATORY DESIGN
Session Chair: Dieter Meiller, East Bavarian Technical University Amberg-Weiden
Location: K8

 Funky-design-spaces: Interactive Environments for Creativity Inspired by Observing Designers Making Mood Boards
Andrés Lucero, University of Southern Denmark

 Paper or Pixel? Comparing Paper- and Tool-based Participatory Design Approaches
Matthias Heintz, University of Leicester
Effie Lai-Chong Law, University of Leicester
Samaneh Soleimani, University of Leicester
SESSIONS

Friday, 18 Sept. / 9:00 – 10:30

Kwento: Using a Participatory Approach to Design a Family Storytelling Application for Domestic Helpers
Kakit Cheong, National University of Singapore
Alex Mitchell, National University of Singapore

Participatory Design in Practice: the case of an embroidered technology
Laura Cortes-Rico, Pontificia Universidad Javeriana
Giovanny Piedrahita-Solorzano, Politecnico Grancolombiano

TPS06.4: AFFECTIVE HCI, EMOTIONS, MOTIVATIONAL ASPECTS I

Session Chair: Rosa I. Arriaga, Georgia Institute of Technology
Location: K9

Design Criteria for Stimulating Emotions in Web Applications
Giulio Mori, National Research Council (CNR)
Fabio Paternò, National Research Council (CNR)
Ferdinando Furci, National Research Council (CNR)

Emotion Detection in Non-Native English Speakers’ Text-Only Messages by Native and Non-Native Speakers
Ari Hautasaari, NTT Communication Science Laboratories
Naomi Yamashita, NTT Communication Science Laboratories

Making Decisions about Digital Legacy with Google’s Inactive Account Manager
Raquel Prates, UFMG, PSU
Mary Beth Rosson, PSU
Clarisse S. de Souza, PUC-Rio

Shedding Lights on Human Values: An Approach to Engage Families with Energy Conservation
Janine Huizenga, Waag Society
Lara S. G. Piccolo, The Open University
Meia Wippoo, Waag Society
Christoph Meili, WWF Schweiz
Andrew Bullen, The Creative Cooperative

TPS06.5: HCI AND SECURITY

Session Chair: Philippe Palanque, Université Paul Sabatier
Location: K11

Toward a Deeper Understanding of Data Analysis, Sensemaking, and Signature Discovery
Sheriff Jolaoso, Virginia Tech
Russ Burtner, Pacific Northwest National Laboratory
Alex Endert, Georgia Tech

CipherCard: A Token-based Approach against Camera-based Shoulder Surfing Attacks on Common Touchscreen Devices
Teddy Seyed, University of Calgary
Xing-Dong Yang, University of Calgary
Anthony Tang, University of Calgary
Saul Greenberg, University of Calgary
Jiawei Gu, Baidu Institute of Deep
Bin Zhu, Microsoft Research Asia
Xiang Cao, Xiaoxiaoniu Creative Technologies

Automatic Privacy Classification of Personal Photos
Daniel Buschek, University of Munich (LMU)
Moritz Bader, University of Munich (LMU)
Emanuel von Zezschwitz, University of Munich (LMU)
Alexander De Luca, Google Zurich

“I agree”: the effects of embedding terms of service key points in online user registration form
Matjaž Kljun, University of Primorska
Jernej Vičič, University of Primorska
Klen Čopič Pucihar, University of Primorska
Branko Kavšek, University of Primorska
SESSIONS

TPS07.1: EVALUATION METHODS AND USABILITY EVALUATION II
Session Chair: Torkil Clemmensen, Copenhagen Business Schoole
Location: K6/7

Usability Aspects of the Inside-in Approach for Ancillary Search Tasks on the Web
Marco Winckler, Université Paul Sabatier
Ricardo Cava, Universidade Federal do Rio Grande do Sul
Eric Barboni, Université Paul Sabatier
Philipe Palanque, Université Paul Sabatier
Carla Freitas, Universidade Federal do Rio Grande do Sul

Using Affinity Diagrams to Evaluate Interactive Prototypes
Andrés Lucero, University of Southern Denmark

What Users Prefer and Why: A User Study on Effective Presentation Styles of Opinion Summarization
Xiaojun Yuan, UAlbany, SUNY
Ning Sa, UAlbany, SUNY
Grace Begany, UAlbany, SUNY
Huahai Yang, Juji.

TPS07.2: TOUCH AND HAPTIC
Session Chair: Marianna Obrist, University of Sussex
Location: K2

Where to Start? Exploring the Efficiency of Translation Movements on Multitouch Device
Quan Nguyen, German Research Center for Artificial Intelligence
Michael Kipp, University of Applied Sciences

Actuated Shear: Enabling Haptic Feedback on Rich Touch Interfaces
Bernhard Maurer, University of Salzburg
Roland Buchner, University of Salzburg
Martin Murer, University of Salzburg
Manfred Tscheligi, University of Salzburg

TPS07.3: GESTURE INTERACTION
Session Chair: Markus Rittenbruch, Queensland University of Technology
Location: K3

Gestu-Wan - An Intelligible Mid-Air Gesture Guidance System for Walk-up-and-Use Displays
Gustavo Rovelo, Hasselt University
Donald Degraen, Hasselt University
Davy Vanacken, Hasselt University
Kris Luyten, Hasselt University
Karin Coninx, Hasselt University

Sci-Fi Gestures Catalog: Understanding the Future of Gestural Interaction
Lucas Silva Figueiredo, Federal University of Pernambuco
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Natural Interaction with Video Environments Using Gestures and a Mirror-image Avatar
Christian Kray, University of Münster
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TV Interaction Beyond the Button Press - Exploring the Implications of Gesture, Pressure and Breath as Interaction Mechanisms for a TV User Interface
Regina Bernhaupt, Université Paul Sabatier
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Michael M. Pirker, ruwido austria gmbh
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Gamification of Online Surveys: Design Process, Case Study, and Evaluation
Johannes Harms, Vienna University of Technology
Stefan Biegler, Vienna University of Technology
Christoph Wimmer, Vienna University of Technology
Karim Kappel, Vienna University of Technology
Thomas Grechenig, Vienna University of Technology

Mind the Gap! Comparing Retrospective and Concurrent Ratings of Emotion in User Experience Evaluation
Anders Bruun, Aalborg University
Simon Ahm, Aalborg University

Recognizing Emotions in Human Computer Interaction: Studying Stress using Skin Conductance
Alexandros Liapis, Hellenic Open University
Christos Katsanos, Hellenic Open University
Dimitris Sotiropoulos, Hellenic Open University
Michalis Xenos, Hellenic Open University
Nikolaos Karousos, Hellenic Open University

Physical Playlist: Bringing Back the Mix-Tape
Daniel John Burnett, Lancaster University
Adrian Gradinar, Lancaster University
Joel Porter, Lancaster University
Mike Stead, Lancaster University
Paul Coulton, Lancaster University
Ian Forrester, BBC

Dico: A Conceptual Model to Support the Design and Evaluation of Advanced Search Features for Exploratory Search
Emanuel Felipe Duarte, Universidade Estadual de Maringá (UEM)
Edson Oliveira Jr, Universidade Estadual de Maringá (UEM)
Filipe Roseiro Cögo, Universidade Tecnológica Federal do Paraná
Roberto Pereira, IC, Universidade Estadual de Campinas

Revealing Differences in Designers’ and Users’ Perspectives: A Tool-supported Process for Visual Attention Prediction for Designing HMIs for Maritime Monitoring Tasks
Sebastian Feuerstack, OFFIS e.V.
Bertram Wortelen, OFFIS e.V.

Worth-Centered Design in Practice: Lessons from Experience and Research Agenda
Fatoumata Camara, Laboratoire d’Informatique de Grenoble
Gaëlle Calvary, Laboratoire d’Informatique de Grenoble
TPS07.6: HCI STUDIES I

Session Chair: Konrad Baumann, FH Joanneum University of Applied Sciences

Location: K11

Swimming the Channels: An Analysis of Online Archival Reference Enquiries
Joseph Pugh, University of York
Christopher Power, University of York

"Not some trumped up beef": Assessing Credibility of Online Restaurant Reviews
Marina Kobayashi, Google
Victoria Schwanda Sosik, Google
David Huffaker, Google

An Empirical Investigation of the Practices and Challenges Specific to International User Studies
Sabine Madsen, IT University of Copenhagen
Lene Nielsen, IT University of Copenhagen
Heidi Hautopp, Aalborg University (Copenhagen)
Iben Jensen, Aalborg University (Copenhagen)
SESSIONS

Friday, 18 Sept. / 14:00 – 15:30

TPS08.1: EVALUATION METHODS AND USABILITY EVALUATION III

**Session Chair:** Ebba Thora Hvannberg, *University of Iceland*

**Location:** K6/7

**Testing the Unknown – Value of Usability Testing for Complex Professional Systems Development**

Kimmo Tarkkanen, *University of Turku*
Ville Harkke, *University of Turku*
Pekka ReiJonen, *University of Turku*

**Computer-Related Attribution Styles: Typology and Data Collection Methods**

Adelka Niels, *Luebeck University of Applied Sciences*
Monique Janneck, *Luebeck University of Applied Sciences*

**A Comparison of Five HSV Color Selection Interfaces for Mobile Painting Search**

Min Zhang, *The University of Nottingham*
Guoping Qiu, *The University of Nottingham*
Natasha Alechina, *The University of Nottingham*
Sarah Atkinson, *The University of Nottingham*

**Reciprocity in Rapid Ethnography: Giving Back by Making the Small Things Count**

Pieter Duysburgh, *iMinds - SMIT - VUB*
Karim Sleegers, *CUO | Social Spaces - KU Leuven / iMinds*

TPS08.2: WEARABLE COMPUTING

**Session Chair:** Hilda Tellioglu, *Vienna University of Technology*

**Location:** K2

**Towards a Model of Virtual Proxemics for Wearables**

Junia Coutinho Anacleto, *Federal University of São Carlos*
Sidney Fels, *University of British Columbia*

**Hard-to-get-at data from difficult-to-access users**

Bob Fields, *Middlesex University*
Andy Bardill, *Middlesex University*
Lisa Marzano, *Middlesex University*
Kate Herd, *Middlesex University*

TPS08.3: POINTING AND GESTURE INTERACTION

**Session Chair:** Mirko Fetter, *University of Bamberg*

**Location:** K3

**Enhancing Pinch-Drag-Flick Paradigm with Two New Gestures: Two-Finger-Tap for Tablets and Tap&Tap for Smartphones**

Alessio Bellino, *Università di Milano-Bicocca*

**Estimating Production Time of Touchless Hand Drawing Gestures**

Orlando Erazo, *University of Chile, Universidad Técnica Estatal de Quevedo*
José A. Pino, *University of Chile*
Pedro Antunes, *Victoria University of Wellington*

**Better than you Think: Head Gestures for Mid Air Input**

Katrin Plaumann, *Ulm University*
Jan Ehlers, *Ulm University*
Florian Geiselhart, *Ulm University*
Gabriel Yuras, *Ulm University*
Anke Huckauf, *Ulm University*
Enrico Rukzio, *Ulm University*
The Costs and Benefits of Combining Gaze and Hand Gestures for Remote Interaction
Yanxia Zhang, Lancaster University
Sophie Stellmach, Microsoft Corporation
Abigail Sellen, Microsoft Research
Andrew Blake, Microsoft Research

Session Chair: Kari-Jouko Räihä, University of Tampere
Location: K8

An Empirical Investigation of Gaze Selection in Mid-Air Gestural 3D Manipulation
Eduardo Velloso, Lancaster University
Jayson Turner, Lancaster University
Jason Alexander, Lancaster University
Andreas Bulling, Max Planck Institute for Informatics (Saarbrücken)
Hans Gellersen, Lancaster University

Four Eyes See More Than Two: Shared Gaze in the Car
Sandra Trösterer, University of Salzburg
Magdalena Gärtner, University of Salzburg
Martin Wuchse, University of Salzburg
Bernhard Maurer, University of Salzburg
Axel Baumgartner, University of Salzburg
Alexander Meschtscherjakov, University of Salzburg
Manfred Tscheligi, University of Salzburg

Gaze+Touch vs. Touch: What's the Trade-off when Using Gaze to Extend Touch to Remote Displays?
Ken Pfeuffer, Lancaster University
Jason Alexander, Lancaster University
Hans Gellersen, Lancaster University

LEGO Pictorial Scales for Assessing Affective Response
Mohammad Obaid, I2i Lab, Chalmers University of Technology
Andreas Duenser, CSIRO
Elena Moltchanova, University of Canterbury
Danielle Cummings, Texas A&M University
Johannes Wagner, Augsburg University
Christoph Bartneck, University of Canterbury

Using Online Reviews as Narratives to Evoke Designer's Empathy
Christiane Grünloh, Cologne University of Applied Sciences
Åke Walldius, KTH Royal Institute of Technology
Gerhard Hartmann, Cologne University of Applied Sciences
Jan Gulliksen, KTH Royal Institute of Technology

The Presenter Experience of Canvas Presentations
Leonhard Lichtschlag, RWTH Aachen University
Philipp Wacker, RWTH Aachen University
Martina Ziefle, RWTH Aachen University
Jan Borchers, RWTH Aachen University

The Influence of Motivation on Emotional Experience in E-commerce
Samaneh Soleimani, University of Leicester
Effie Lai-Chong Law, University of Leicester

Entity-Centric Visualization of Open Data
Sajan Raj Ojha, University of Trento
Mladjan Jovanovic, University of Trento
Fausto Giunchiglia, University of Trento
SESSIONS

Friday, 18 Sept. / 14:00 – 15:30

Mindful Gaming: How Digital Games can Improve Mindfulness
Jacek Sliwinski, University of the Sunshine Coast
Christian Martyn Jones, University of the Sunshine Coast
Mary Katsikitis, University of the Sunshine Coast

The Affordances of Broken Affordances
Martin Gielsgaard Grünbaum, University of Copenhagen
Jakob Grue Simonsen, University of Copenhagen
Towards Distinctive User Experience

Most companies strive for superior user experience (UX) by improving the user interface of their products and services. In practice, this often means designing a more usable and beautiful user interface than what the competitors currently provide. However, a more successful strategy might be to provide experiences that are different from others; i.e., branded experiences. In this keynote, I highlight the impact of a company brand to user experience, which has been previously largely disregarded by the HCI community. Taking brand identity as the starting point for user experience design has a dramatic impact on the foundational design approach in HCI, user-centred design. I introduce experience goals that are specific for a brand rather than for a product or a user group. Inspired by service design, I call for collaboration between UX and marketing experts to deliver humane, branded experiences in all touch points. I hope this keynote induces researchers to study the relation between brand and user experience, and UX practitioners to design for distinctive experiences.

Biography

Virpi Roto, PhD, is a Research Fellow at Aalto University, School of Arts, Design and Architecture. Her mission is to make user experience work more systematically in companies, so she is best known for her work on clarifying the concept of user experience and providing the means to evaluate experiences. At the Department of Design of Aalto University, her research focuses on designing for experiences. She has always worked between the industry and academia, first at Nokia Research Center and then on industry-driven research projects. Thus, her focus has been on company needs as well as research-based practical tools. Due to her role in bridging research and practice, she maintains allaboutux.org site and organises discursive sessions at top HCI conferences in order to disseminate UX knowledge. She has acted as the UX community chair at CHI’13, chair of SIGCHI Finland, and as the Industrial programme chair in INTERACT’11 and MobileHCI conferences. She has co-authored some of the most cited scientific UX publications and given keynote talks in various events. See allaboutux.org/virpi for more information.
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Volker Wulf, Germany
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Established in 1989, the International Federation for Information Processing Technical Committee on Human–Computer Interaction (IFIP TC13) is an international committee of 37 member national societies and 9 Working Groups, representing specialists in human factors, ergonomics, cognitive science, computer science, design and related disciplines. INTERACT is its flagship conference, staged biennially in different countries in the world. From 2017 the conference series will develop to become an annual conference.

IFIP TC13 aims to develop the science and technology of human–computer interaction (HCI) by encouraging empirical research, promoting the use of knowledge and methods from the human sciences in design and evaluation of computer systems; promoting better understanding of the relation between formal design methods and system usability and acceptability; developing guidelines, models and methods by which designers may provide better human-oriented computer systems; and, cooperating with other groups, inside and outside IFIP, to promote user-orientation and humanization in system design. Thus, TC13 seeks to improve interactions between people and computers, encourage the growth of HCI research and disseminate these benefits worldwide.

The main orientation is toward users, especially the non-computer professional users, and how to improve human–computer relations. Areas of study include: the problems people have with computers; the impact on people in individual and organizational contexts; the determinants of utility, usability and acceptability; the appropriate allocation of tasks between computers and users; modelling the user to aid better system design; and harmonizing the computer to user characteristics and needs.

While the scope is thus set wide, with a tendency toward general principles rather than particular systems, it is recognized that progress will only be achieved through both general studies to advance theoretical understanding and specific studies on practical issues (e.g., interface design standards, software system consistency, documentation, appropriateness of alternative communication media, human factors guidelines for dialogue design, the problems of integrating multimedia systems to match system needs and organizational practices, etc.).

In 1999, TC13 initiated a special IFIP Award, the Brian Shackel Award, for the most outstanding contribution in the form of a refereed paper submitted to and delivered at each INTERACT. The award draws attention to the need for a comprehensive human-centered approach in the design and use of information technology in which the human and social implications have been taken into account. 2007 IFIP TC 13 also launched an Accessibility award to recognize an outstanding contribution with international impact in the field of accessibility for disabled users in human-computer interaction. 2013 IFIP TC 13 launched the Interaction Design for International Development (IDID) Award recognizes the most outstanding contribution to the application of interactive systems for social and economic development of people in developing countries. Since the process to decide the award takes place after papers are submitted for publication, the awards are not identified in the proceedings.

IFIP TC 13 also recognizes pioneers in the area of Human-Computer Interaction. An IFIP TC 13 Pioneer is one who, through active participation in IFIP Technical Committees or related IFIP groups, has made outstanding contributions to the educational, theoretical, technical, commercial or professional aspects of analysis, design, construction, evaluation and use of interactive systems. IFIP TC 13 pioneers are appointed annually and awards are handed over at the INTERACT conference.

IFIP TC13 stimulates working events and activities through its Working Groups (WGs). WGs consist of HCI experts from many countries, who seek to expand knowledge and find solutions to HCI issues and concerns within their domains, as outlined below.

**WG13.1 (Education in HCI and HCI Curricula)** aims to improve HCI education at all levels of higher education, coordinate and unite efforts to develop HCI curricula and promote HCI teaching.

**WG13.2 (Methodology for User-Centered System Design)** aims to foster research, dissemination of information and good practice in the methodical application of HCI to software engineering.

**WG13.3 (HCI and Disability)** aims to make HCI designers aware of the needs of people with disabilities and encourage development of information systems and tools permitting adaptation of interfaces to specific users.

**WG13.4 (also WG2.7) (User Interface Engineering)** investigates the nature, concepts and construction of user interfaces for software systems, using a framework for reasoning about interactive systems and an engineering model for developing user interfaces.

**WG 13.5 (Resilience, Reliability, Safety and Human Error in System Development)** seeks a framework for studying human factors relating to systems failure, develops leading edge techniques in hazard analysis and safety engineering of computer-based systems, and guides international accreditation activities for safety-critical systems.
WG13.6 (Human-Work Interaction Design) aims at establishing relationships between extensive empirical work-domain studies and HCI design. It will promote the use of knowledge, concepts, methods and techniques that enable user studies to procure a better apprehension of the complex interplay between individual, social and organizational contexts and thereby a better understanding of how and why people work in the ways that they do.

WG13.7 (Human–Computer Interaction and Visualization) aims to establish a study and research program that will combine both scientific work and practical applications in the fields of Human–Computer Interaction and Visualization. It will integrate several additional aspects of further research areas, such as scientific visualization, data mining, information design, computer graphics, cognition sciences, perception theory, or psychology, into this approach.

WG13.8 (Interaction Design and International Development) are currently working to reformulate their aims and scope.

WG13.9 (Interaction Design and Children) aims to support practitioners, regulators and researchers to develop the study of interaction design and children across international contexts.

New Working Groups are formed as areas of significance to HCI arise. Further information is available at the IFIP TC13 website: http://ifip-tc13.org/
### OFFICERS

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<tr>
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<th>Country</th>
</tr>
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<tbody>
<tr>
<td>Chairperson</td>
<td>Jan Gulliksen</td>
<td>Sweden</td>
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<td>Vice-chair</td>
<td>Philippe Palanque</td>
<td>France</td>
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<td>Vice-Chair for WG and SIG</td>
<td>Simone D. J. Barbosa</td>
<td>Brazil</td>
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<tr>
<td>Treasurer</td>
<td>Anirudha Joshi</td>
<td>India</td>
</tr>
<tr>
<td>Secretary</td>
<td>Marco Winckler</td>
<td>France</td>
</tr>
<tr>
<td>Webmaster</td>
<td>Helen Petrie</td>
<td>United Kingdom</td>
</tr>
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### COUNTRY REPRESENTATIVES

<table>
<thead>
<tr>
<th>Country</th>
<th>Name</th>
<th>Organization</th>
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<tbody>
<tr>
<td>Australia</td>
<td>Henry B.L. Duh</td>
<td>Australian Computer Society</td>
</tr>
<tr>
<td>Austria</td>
<td>Geraldine Fitzpatrick</td>
<td>Austrian Computer Society</td>
</tr>
<tr>
<td>Belgium</td>
<td>Monique Noirhomme-Fraiture</td>
<td>Fédération des Associations Informatiques de Belgique</td>
</tr>
<tr>
<td>Brazil</td>
<td>Raquel Oliveira Prates</td>
<td>Brazilian Computer Society (SBC)</td>
</tr>
<tr>
<td>Bulgaria</td>
<td>Kamelia Stefanova</td>
<td>Bulgarian Academy of Sciences</td>
</tr>
<tr>
<td>Canada</td>
<td>Heather O’Brien</td>
<td>Canadian Information Processing Society</td>
</tr>
<tr>
<td>Chile</td>
<td>Jaime Sánchez</td>
<td>Chilean Society of Computer Science</td>
</tr>
<tr>
<td>China</td>
<td>Chengqing Zong</td>
<td>Chinese Institute of Electronics</td>
</tr>
<tr>
<td>Croatia</td>
<td>Andrina Granic</td>
<td>Croatian Information Technology Association (CITA)</td>
</tr>
<tr>
<td>Cyprus</td>
<td>Panayiotis Zaphiris</td>
<td>Cyprus Computer Society</td>
</tr>
<tr>
<td>Czech Republic</td>
<td>Zdeněk Mikovec</td>
<td>Czech Society for Cybernetics &amp; Informatics</td>
</tr>
<tr>
<td>Denmark</td>
<td>Torkil Clemmensen</td>
<td>Danish Federation for Information Processing</td>
</tr>
<tr>
<td>Finland</td>
<td>Kari-Jouko Räihä</td>
<td>Finnish Information Processing Association</td>
</tr>
<tr>
<td>France</td>
<td>Philippe Palanque</td>
<td>Société des Electriciens et des Electroniciens (SEE)</td>
</tr>
<tr>
<td>Germany</td>
<td>Tom Gross</td>
<td>Gesellschaft für Informatik</td>
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<tr>
<td>Hungary</td>
<td>Cecilia Sik Lanyi</td>
<td>John V. Neumann Computer Society</td>
</tr>
<tr>
<td>Iceland</td>
<td>Marta Kristin Larusdottir</td>
<td>The Icelandic Society for Information Processing (ISIP)</td>
</tr>
<tr>
<td>India</td>
<td>Anirudha Joshi</td>
<td>Computer Society of India</td>
</tr>
<tr>
<td>Ireland</td>
<td>Liam J. Bannon</td>
<td>Irish Computer Society</td>
</tr>
<tr>
<td>Italy</td>
<td>Fabio Paternò</td>
<td>Italian Computer Society</td>
</tr>
<tr>
<td>Japan</td>
<td>Yoshifumi Kitamura</td>
<td>Information Processing Society of Japan</td>
</tr>
<tr>
<td>Korea</td>
<td>Gerry Kim</td>
<td>KIIE</td>
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</table>
IFIP TC13 MEMBERS

Malaysia
Chui Yin Wong
Malaysian National Computer Confederation

Netherlands
Vanessa Evers
Nederlands Genootschap voor Informatica

New Zealand
Mark Apperley
New Zealand Computer Society

Nigeria
Chris C. Nwannenna
Nigeria Computer Society

Norway
Dag Svanes
Norwegian Computer Society

Poland
Marcin Sikorski
Poland Academy of Sciences

Portugal
Pedro Campos
Associação Portuguesa para o Desenvolvimento da Sociedade da Informação (APDSI)

Slovakia
Vanda Benešová
The Slovak Society for Computer Science

South Africa
Janet L. Wesson
The Computer Society of South Africa

Spain
Julio Abascal
Asociación de Técnicos de Informática (ATI)

Sweden
Jan Gulliksen
Swedish Computer Society

Switzerland
Solange Ghernaouti
Swiss Federation for Information Processing

Tunisia
Mona Laroussi
Ecole Supérieure des Communications De Tunis (SUP’COM)

United Kingdom
Andy Dearden
British Computer Society (BCS)

United States of America
Gerrit van der Veer
Association for Computing Machinery (ACM)

EXPERT MEMBERS

Nikos Avouris, Greece
Simone D. J. Barbosa, Brazil
Peter Forbrig, Germany
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Paula Kotzé, South Africa
Masaaki Kurosu, Japan

Gitte Lindgaard, Australia
Zhengjie Liu, China
Fernando Loizides, Cyprus
Dan Orwa, Kenya
Frank Vetere, Australia

WORKING GROUP CHAIRPERSONS

WG13.1 (Education in HCl and HCl Curricula)
Konrad Baumann, Austria

WG13.2 (Methodologies for User-Centered System Design)
Marco Winckler, France

WG13.3 (HCl and Disability)
Helen Petrie, United Kingdom

WG13.4 (also 2.7) (User Interface Engineering)
Jürgen Ziegler, Germany

WG13.5 (Resilience, Reliability, Safety and Human Error in System Development)
Chris Johnson, UK

WG13.6 (Human-Work Interaction Design)
Pedro Campos, Portugal

WG13.7 (HCl and Visualization)
Achim Ebert, Germany

WG 13.8 (Interaction Design and International Development)
José Adelnour Nocera, United Kingdom

WG 13.9 (Interaction Design and Children)
Janet Read, United Kingdom
Layout & Design
Mirko Fetter
David Bimamisa