Sessions

- BubblesDial: Exploring Large Display Content Graphs on Small Devices | Bergström-Lehtovirta, Eklund, Jylhä, Kuikkaniemi, An, Jacucci
- Using Mobile Devices to Enable Visual Multiplexing on Public Displays: Three Approaches Compared | Ostkamp, Hülsermann, Kray, Bauer
- Beyond Heat Maps Mining Common Swipe Gestures | Schaefers, Ribeiro, de Barros
- Is Autostereoscopy Useful for Mobile Augmented Reality? Kerber, Lessel, Mauderer, Daiber, Oulasvirta, Krüger
- Mobile Photo Sharing through Collaborative Space in Stereoscopic 3D | Häkkilä, Posti, Ventä-Olkkonen, Koskenranta, Colley
- Evaluation of a Programming Toolkit for Interactive Public Display Applications | Cardoso, José
- Evaluating the Experimental User Experience of Public Display Applications in the Wild | Keskinen, Hakulinen, Heimonen, Turunen, Sharma, Miettinen, Luhtala
- MobiZone: Personalized Interaction with Multiple Items on Interactive Surfaces | Rader, Holzman, Rukzio, Seifert
- Designing for Presence in Social Television Interaction Palviainen, Kuusinen, Väänänen-Vainio-Mattila
 - A Cross-Device Drag-and-Drop Technique | Simeone, Seifert, Schmidt, Rukzio, Gellersen

▶ Blur-resistant Joint 1D and 2D Barcode Localization for Smartphones | Sörös, Flörkemeier

- Towards an Information Architecture for Flexible Reuse of Digital Media | Milic-Frayling, Oleksik, Jeter, Jones
- NooSphere: An Activity-Centric Infrastructure for Distributed Interaction | Houben, Esbensen, Nielsen, Bardram

■ 2nd International UBI Challenge | Ojala

- ▶ HotCity: Enhancing Ubiquitous Maps with Social Context Heatmaps | Komninos, Besharat, Fereira, Garofalakis
- Martians from Outer Space: Experimenting with Location-aware Cooperative Multiplayer Gaming on Public Displays | Holappa, Heikkinen, Roininen

AR Typing Interface for Mobile Devices | Higuchi, Komuro

Adding Context to Multi-touch Region Selections Strothoff, Hinrichs

NoseTapping: What Else Can You Do With Your Nose? Polacek, Grill, Tscheligi

Finger in the Air: Touch-less Interaction on Smartphone l Iu, Halawani, Rehman 😾

> Evaluation of Hybrid Front and Back Interaction on Mobile Devices | Löchtefeld, Hirtz, Gehring

■ Towards Scalable Activity Recognition: Adapting Zero-Effort Crowdsourced Acoustic Models | Nguyen-Dinh, Blanke, Tröster

- Enabling Low-Cost Particulate Matter Measurement for Participatory Sensing Scenarios | Budde, El Masri, Riedel, Beigl
- Using Time Use with Mobile Sensor Data: A Road to Practical Mobile Activity Recognition? | Borazio, Van Laerhoven
- Human Activity Recognition Using Social Media Data 🤻 I Zhu, Blanke, Calatroni, Tröster
- Inferring Mood in Ubiquitous Conversational Video | Sanchez-Cortes, Biel, Kumano, Yamato, Otsuka, Gatica-Perez

Mobile Design Patterns in a Solution for Parkinson's Disease Self-Management – A User-Centred Approach l de Barros, Cevada

Losing Your Creativity - Storytelling Comparison Between Children and Adolescents | Åkerman, Puikkonen

Moths at Midnight: Design Implications for Supporting Ecology-Focused Citizen Science | Chamberlain, Griffiths

The Railway Blues: Affective Interaction for Personalised Transport Experiences | Costa

> Early Perceptions of an Augmented Home l Ventä-Olkkonen, Posti, Häkkilä

A Comparative User Study of Faceted Search in Large Data Hierarchies on Mobile Devices | Scherp, Schneider, Hunz

Micro-Crowdfunding: Achieving a Sustainable Society through Economic and Social Incentives in Micro-Level Crowdfunding | Sakamoto, Nakajima

> Visual Authentication - A Secure Single Step Authentication for User Authorization Roalter, Möller, Diewald, Stockinger, Koelle, Kranz

AffectiView: Mobile Video Camera Application using Physiological Data | Shirokura, Munekata, Ono

Evaluating Landmark Attraction Model in Collaborative Wayfinding in Virtual Learning Environments | Kallioniemi, Hakulinen, Keskinen, Turunen, Heimonen, Pihkala-Posti, Uusi-Mäkelä, Hietala, Okkonen, Raisamo

I Want to View It My Way - Interfaces to Mobile Maps
Should Adapt to the User's Orientation Skills
| Bienk, Kattenbeck, Ludwig, Müller, Ohm

Semantic Enrichment of Mobile Phone Data Records Using Linked Open Data | Dashdorj, Serafini, Antonelli, Larcher

Cicada Fingerprinting System: From Artificial to Sustainable | Aoki, Kobayashi, Sezaki

12th International Conference on Mobile and Ubiquitous Multimedia

December 2nd - 5th 2013 | Luleå, Sweden

http://www.mum2013.org/

Full Paper, Nominee (18 Min.)

Short Paper. Nominee N (13 Min.)

Full Paper (18 Min.)

Short Paper

Welcome

We would like to welcome you to this 12th edition of the International Conference on Mobile and Ubiquitous Multimedia in Luleå, Sweden!

This year we received a record number of 107 research paper submissions around these topics. A rigorous review process was followed with each paper receiving at least three reviews from international experts. Based upon this process, 23 full papers and 13 short papers (notes) were selected to appear in these proceedings and to be presented at the conference. This results in an acceptance rate of 33.6% for 2013.

In addition to the regular paper submissions, MUM 2013 is very happy to feature a poster and a demo session, with 9 accepted posters and 5 accepted demos. For the first time, this year we also have a workshop day with two high-quality workshops prior to the conference and one tutorial during the conference. The conference also features a session on the 2nd International UBI Challenge.

Matthias Kranz & Kåre Synnes (on behalf of the organizing commitee)

Program

Monday 2 nd	of Decen	nber
09:00-18:00	A111	Registration
10:00-17:00	A108	Workshop 1 End-User Composition of Mobile Apps with SATIN
13:00-17:00	A109	Workshop 2 WebRTC Hands-On

Tuesday 3 rd of December					
	08:00-18:00	A111	Registration	C	
	09:00-9:45	A117	Inauguration	C	
	09:45-10:45	A117	Keynote 1 Serge Lachapelle, Google	1	
	10:45-11:00	Foyer	Break	-	
	11:00-12:30	A117	Session 1 Visualization Techniques	1	
	12:30-13:30	Foyer	Lunch and Posters	1	
	13:30-15:00	A117	Session 2 Public Displays and Collaboration	1	
	15:00-15:15	Foyer	Break	•	
	15:15-16:30	A117	Session 3 Supporting Architectures and Methods	1	
	16:30-17:30	Foyer	Poster & Demo Session	1	
	16:30-17:30	A117	Tutorial 1 User Experience Heuristics	1	
	17:30		Bus transfer to reception		
	18:00-20:00		Reception (Bishop's Arms)		

	Wednesday	4th of Dece	mber	Т
	08:00-17:00	A111	Registration	
	09:00-10:15	A117	Session 4 UbiChallenge	
	10:15-10:30	Foyer	Break	1
	10:30-12:00	A117	Session 5 New Interaction Methods	
	12:00-13:00	Foyer	Lunch and Posters	
	13:00-14:00	A117	Keynote 2 Erik Kruse, Ericsson	
	14:00-14:15	Foyer	Break	
25	14:15-15:45	A117	Session 6 Inferring the Mobile User's Context	
	16:00-16:15	Foyer	Break	
	16:00-16:30	A117	Town Hall Meeting	
e	17:15 17:30	LTU Elite Hotel	Bus transfer to the dinner Bus transfer to the dinner	
	18:00-23:00		Gala Dinner (Ebbenjarka)	

	Thursday 5 ^t	h of Dece	mber		
	09:00-10:00	A117	Keynote 3 Patrick Olivier, Newcastle University		
	10:00-10:15	Foyer	Break		
n	10:15-11:30	A117	Session 7 Designs and Explorations		
	11:30-12:30	Foyer	Lunch and Posters		
	12:30-13:45	A117	Session 8 Applications		
	13:45-14:00	Foyer	Break		
	14:00-15:30	A117	Session 9 Location and Navigation		
	15:30-15:45	A117	Closing		
	Thank Youl				

Thank You!







Thank You!

There are a number of people we want to acknowledge whose help greatly simplified the organization of this conference. Firstly, we acknowledge the support of Google, Ericsson, Vetenskapsrådet and Luleå University of Technology. Secondly, we warmly thank all the members of the program committee and the additional reviewers for their helpful feedback and constructive criticisms. We also would like to thank all student volunteers and everyone else who contributed to making MUM 2013 a success.

We thank all the authors and participants of this event for sharing new insights, concepts and results on mobile and ubiquitous multimedia research.

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