

XVI International Conference on
Human Computer Interaction



7-9 September 2015, Vilanova i la Geltrú, Spain

<http://interaccion2015.upc.edu>

Special track: Natural User Interfaces

Special track leaders: Cristina-Manresa Yee (University of Balearic Islands) and Ann Morrison (Aalborg University)



Brief Description:

Since computers appeared, researchers have been conceiving new forms of interaction between people and machines. In the early stages of computer science, interaction was achieved through buttons and dials, but advancements in technology enable us to design and develop more intuitive and engaging user interfaces which can improve the effectiveness, efficiency and satisfaction of the user.

Natural user interaction enables users to interact with a machine using nothing else but the human body. Users operate through intuitive actions by using gestures, touch, haptics, speech or even biosignals. There is a broad array of devices and interaction paradigm possibilities.

In this call, we are especially interested in vision based interfaces (VBI) and in interfaces which involve touch and haptics from both solo and multiple participants. On the one hand, vision based interfaces perceive the user and her/his actions and use the visual information for interaction purposes. On the other, touch and haptic interfaces exchange information with the machine and the participants through the sense of touch, enabling a very different experience and trade.

Topics of interest:

We invite submissions that deal with issues including, but not limited to:

- Applications and integration of context for NUI
- Challenges related to natural interaction
- Design and development of NUI
- Usability evaluation (metrics, test methods) of NUI

Objectives:

- Encourage discussion, collaboration and future working partnerships on natural user interfaces.
- Publish research, theory, practice and validation in the field of natural interaction with special attention to VBI and touch and haptic interfaces.

Expected audience and outcomes:

A broad audience is warmly invited to attend and contribute with their knowledge and experience to the Special Track. The invitation is extended, but not limited to academics, researchers, industrialists and professionals working with natural user interfaces.

This special track aims to encourage discussion, collaboration, future working partnerships and to publish research, theory, practice and validation in the field of natural interaction, specifically on VBI and touch and haptic interfaces, within different application areas.

Important Dates:

Submission Deadline: April 8

Author Notification: May 13

Camera-ready papers due: May 27

Date of the special track: To be confirmed

Conferences dates: Sep 07-09, 2015

Program Committee

Diana Arellano. Filmakademie Baden-Württemberg, Germany

Sandra Baldassarri. Universidad de Zaragoza, Spain

Eva Cerezo. Universidad de Zaragoza, Spain

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Ramon Mas. University of Balearic Islands, Spain

Miroslav Minović. University of Belgrade, Serbia

Ann Morrison. Aalborg University, Denmark

Pere Ponsa. Barcelona Tech, Spain

Submission Guidelines:

All paper submissions will be peer-reviewed by an international panel of experts. All submissions must follow the conference [ACM template](#). Papers not strictly following the templates will be excluded from the conference proceedings. The first version must be submitted in PDF. Authors should submit an original paper written in English in any of the following submission categories:

Full Papers: Full papers should describe original work that have not previously been published and provide significant results of scientific research. Presentation time for full papers will be 15 minutes plus 5 minutes for questions. Full papers have a maximum of 8 pages.

Short Papers: Short papers should describe innovative work in progress, without significant results yet, that contribute to well-founded research. Presentation time for short papers will be 10 minutes plus 5 minutes for questions. Short papers have a maximum of 4 pages.

Publications:

All papers accepted for the conference will be published in the conference proceedings under ISBN, on CD-ROM support, as long as the camera-ready submission, registration and copyright document have been received. The conference proceedings will be submitted for indexation by Thomson Reuters Conference Proceedings Citation Index (ISI), INSPEC, DBLP and EI (Elsevier Index).

Accepted full and short papers written in English will be published entirely in the ACM Digital Library.

Conferences Submission System

Papers should be submitted electronically via the EasyChair web based submission system. Inside EasyChair the topic "Special Track Natural User Interfaces" must be selected.

<https://easychair.org/conferences/?conf=interaccion2015>

Short bio:

Cristina Manresa Yee is a lecturer and researcher in the Department of Mathematics and Computer Science at the University of Balearic Islands. She received her doctorate in Computer Science at the University of Balearic Islands. Her main research interests include Human-Computer Interaction, vision-based interaction, assistive technologies and usability engineering. She is currently participating in the Spanish MINECO project "Experiences in design and development of natural interfaces in industry, education and rehabilitation" (TIN2012-35427) designing vibrotactile and vision-based interfaces (VBI). Her previous research was related to designing VBI especially addressed to users with disabilities in the Spanish MCIN project "Models of interaction based in computer vision for gestural interfaces" (TIN2010-16576) and the Spanish MEC project "Natural interaction prototypes by means of enactive interfaces" (TIN-2007-67896).

Ann Morrison is Associate Professor at Aalborg University as a researcher in interaction design. She is currently running a work package on Tactile and Audio Technologies for CultAR, EU FP7 project and running Urban Vibrations project, working with wearable technology to support mobility across a broad age range and demographic, involved in c-mus, an umbrella of inter-disciplinary researchers and projects working with mobility, assistive technology and evaluation of participation. Prior Ann worked as a researcher and project manager for Helsinki Institute for Information Technology HIIT, Aalto University, Finland where Ann ran the IPCity workpackage for HIIT with applications CityWall; a 3D multi-touch display and MapLens; a mobile augmented reality application. Ann also formerly led for Aalto the MARCUS Marie Curie Actions project (MARCUS). Prior to joining HIIT, Ann worked as a researcher and academic with The Information Environments Program, School of ITEE, at University of Queensland (UQ) and coached a global UQ and Stanford University me310 team on a re-configurable iRoom project and worked as a researcher-designer with HxI [braccetto] on national ICT crisis response.

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