



# INTERACT 2005

## Communicating Naturally through Computers

**Tenth IFIP TC13 International Conference on  
Human-Computer Interaction  
12-16 September 2005, Rome, Italy**

## Final Program

[www.interact2005.org](http://www.interact2005.org)



IFIP International Federation for Information Processing

### Organizing Institutions



ISTITUTO DI SCIENZA E TECNOLOGIE  
DELL'INFORMAZIONE "A. FAEDO"

ISTI-CNR



University of Bari



**La Sapienza**  
Università degli Studi di Roma

University of Roma  
"La Sapienza"



## Tutorials at a Glance

Title	Instructor(s)	Time	Room
<i>T1: Computer Supported Cooperative Work</i>	Poltrack, Grudin	September 12 9:00-18:30	Rossini
<i>T3: Working With and Analyzing Qualitative Field Study Data</i>	Siegel, Dray	September 12 9:00-18:30	Puccini
<i>T4: An Introduction to Interaction Design: Beyond Human-Computer Interaction?</i>	Bannon, Deshpande	September 12 9:00-13:00	Vivaldi
<i>T8: Improving Usability in Mobile Interaction: a User-Centred Design Perspective</i>	Gorlenko	September 13 14:30-18:30	Room at CNR, Piazza A. Moro n. 7
<i>T9: Observational Methods</i>	Rouncefield, Martin, Randall	September 13 14:30-18:30	Vivaldi
<i>T11: Tools and Methods for the Design of Multi-Device User Interfaces</i>	Paternò	September 13 9:00-13:00	Vivaldi

## Workshops at a Glance

Title	Organizer(s)	Time	Room
<i>WS1: User Involvement in e-Government Development Projects</i>	Følstad, Krogstie, Oppermann, Svanaes	September 12 9:00-18:30	Accademia
<i>WS3: Appropriate Methodology for Empirical Studies of Privacy</i>	Romero, Perik, Patil	September 12 9:00-18:30	Mascagni
<i>WS4: Describing Users in Contexts - Perspectives on Human-Work Interaction Design</i>	Orngreen, Clemmensen, Pejtersen	September 12 9:00-18:30	Taurini
<i>WS5: ABUSE: the Dark Side of Human-Computer Interaction</i>	De Angeli, Braman, Wallis	September 12 9:00-18:30	Sabelli
<i>WS6: International Workshop on Plastic Services for Mobile Devices PSMD05</i>	Calvary, Santucci	September 12 9:00-18:30	Marsi
<i>WS13: International COST 294 Workshop on User Interface Quality Models</i>	Vanderdonckt, Law, Hvannberg	September 12 9:00-18:30	Caudini
<i>WS14: Promoting inclusive design policies and strategies for HCI</i>	Noirhomme-Fraiture, Nicolle, Abascal	September 12 14:30-18:30	Vivaldi
<i>WS7: Child Computer Interaction: Methodological Research</i>	Markopoulos, Johanna Read, MacFarlane	September 13 9:00-18:30	Marsi
<i>WS9: eLearning and Human-Computer Interaction: Exploring Design Synergies for more Effective Learning Experiences</i>	Dix, Roselli, Sutinen	September 13 9:00-18:30	Accademia
<i>WS10: Workshop on HCI patterns: Mapping User Needs into Interaction Design Solutions</i>	Garzotto, Lukosch, Retalis, Schümmer, Zdun	September 13 9:00-18:30	Taurini
<i>WS11: Integrating Software Engineering and Usability Engineering</i>	Kazman, Harning, Kohler, Kerkow	September 13 9:00-18:30	Mascagni
<i>WS12: Space, Place and Experience in Human-Computer Interaction</i>	Wright, McCarthy, Blythe, Coyne, Boehner	September 13 9:00-18:30	Puccini
<i>WS13: International COST 294 Workshop on User Interface Quality Models</i>	Vanderdonckt, Law, Hvannberg	September 13 9:00-18:30	Caudini

# Conference at a Glance

Tuesday 13				
19:00	Welcome Reception at the terrace of Palazzo Caffarelli			
Wednesday 14				
09:00	Welcome			
09:30-10:30	<i>Invited Speaker - Bill Buxton</i> - Sketching and Experience Design			
	Auditorium	Accademia	Etruschi	Latini
11:00-13:00	4 Full <b>Haptic and Tangible Interfaces</b>	4 Full <b>Novel User Interfaces</b>	4 Full <b>Improving Search Techniques</b>	4 Full <b>Model-based Design</b>
14:30-16:00	3 Full <b>Interacting with Mobile Devices</b>	3 Full <b>Accessibility</b>	SIG <b>IFIP Working Group on Human-Work Interaction Design</b>	Panel <b>The Challenge of Personal Information Management</b>
16:30-18:00	6 Short <b>Information Visualization and User Studies</b>	6 Short <b>Computer-mediated Communication and Mobility</b>	6 Short <b>Group Work and Tabletop Interaction</b>	3 Full <b>Intelligent Interfaces</b>
Thursday 15				
09:00-10:00	<i>Invited Speaker - Flavia Sparacino</i> - Intelligent Architecture: Embedding Spaces with a Mind for Augmented Interaction			
	Auditorium	Accademia	Etruschi	Latini
10:00-11:00	2 Full <b>Large displays</b>	4 Short <b>3D and Virtual Environments</b>	2 Full <b>Collaboration</b>	4 Short <b>Adaptive and Adaptable Systems</b>
11:30-13:00	3 Full <b>Usability Evaluation</b>	6 Short <b>Grasping, Gazing, Gesturing</b>	6 Short <b>Design and Models</b>	Panel <b>Creative Interaction Futures</b>
14:30-16:00	3 Full <b>Children's interfaces and their Evaluation</b>	2 Full + 2 Short <b>Mobile Devices and their Usability</b>	Demos	Panel <b>Context and Emotional Aware Computing</b>
16:30-18:00	3 Full <b>Social Interaction</b>	Organizational Overview + 3 Short <b>Universal Access</b>	SIG <b>Planes, Pains, and Phosphorane: Usability Studies in Non-Traditional Environments</b>	3 Full <b>Multimodal Interfaces</b>
18:30	<b>Social Event at the National Gallery of Modern and Contemporary Art</b>			
Friday 16				
09:00-10:00	<i>Invited Speaker - Steve Pemberton</i> - The Future of Web Interfaces			
	Auditorium	Accademia	Etruschi	Latini
10:00-11:00	2 Full <b>Context of Use</b>	2 Full <b>3D and Virtual Environments</b>	4 Short <b>Tools</b>	2 Full <b>Computer Supported Cooperative Work (CSCW)</b>
11:30-13:00	3 Full <b>Understanding Users</b>	3 Full <b>Interface Design</b>	3 Full <b>Eye-tracking</b>	3 Full <b>Video Browsing</b>
14:30-16:30	1 Full + 6 Short <b>Usability Evaluation and User Studies</b>	4 Full <b>Visualization Techniques</b>	4 Full <b>Location and Context Awareness</b>	Panel <b>Trust and Incidental Interaction: Would You Let a Talking Paper Clip Run YOUR Home?</b>
16:30-17:00	<b>Closing session</b>			

Full= Full papers; Short= Short papers. Plenary sessions are in the Auditorium.

# General Chair's Welcome



**Stefano Levialdi**  
Università di Roma  
"La Sapienza", Italy

It is my privilege to welcome you to Rome, to our INTERACT 2005 conference where, I hope, you will find interesting and stimulating presentations, tutorials, workshops and demos but, above all, we hope you will meet and interact with researchers to share ideas and projects within our field: human-computer interaction.

As a matter of fact, **interaction** is defined as a "mutual or reciprocal action or influence", and observing the two partners (user and computer) while they interact, we would like our future programs to provide creative responses, after partial execution of the applications, in order to reach the wanted goal.

Many authors have underlined the relevance of a number of natural sciences, in cooperation with computer technology, required to improve the quality of interaction, the understanding of commands for given applications, the state of a multimedia computing system, the focus of attention on the screen during program execution. Cognitive science, learning theory, the roles of short term and long term memory together with perception and attention, constitute the necessary ingredients for a soundly based approach to the design of humane interfaces and interactive systems.

It is a well-known fact that the number of people that will use computers in the future increases but also that different kinds of persons will depend on such machines. Children, adolescents, adults, senior citizens and handicapped persons, may be helped in their jobs/tasks but need tailored applications and an adequate recognition of their skills. As technology becomes more cost-effective, computers are less used for computing but more as communication devices that help humans to elaborate on facts and processes, to enable distant synchronous and asynchronous cooperation (including e-learning), to display information in a meaningful way (as in maps, graphs, diagrams, etc.) and provide answers to a wide variety of problems encountered in jobs, personal tasks and even entertainment.

We will be, sooner or later, not only handling personal computers but also multi-purpose cellular phones, complex personal digital assistants, devices that will be context-aware, and even wearable computers stitched to our clothes...we would like these personal systems to become transparent to the tasks they will be performing. In fact the best interface is an invisible one, one giving the user natural and fast access to the application he (or she) intends to be executed.

The working group that organized this conference (the last of a long row!) tried to combine a powerful scientific program (with drastic refereeing) with an entertaining cultural program, so as to make your stay in Rome the most pleasant one all round: I do hope that this expectation becomes true.

# Table of Contents

General Chair's Welcome .....	2
IFIP TC13 Chair's Welcome .....	4
Program Co-Chairs' Welcome .....	5
Tutorials .....	6
Workshops .....	8
Doctoral Consortium .....	9
<b>Tuesday</b>	
Welcome Reception .....	10
<b>Wednesday</b>	
Welcome .....	11
Invited Speaker Bill Buxton .....	11
11:00-13:00 sessions .....	12
14:30-16:00 sessions .....	14
16:30-18:00 sessions .....	16
<b>Thursday</b>	
Invited Speaker Flavia Sparacino .....	19
10:00-11:00 sessions .....	20
11:30-13:00 sessions .....	22
14:30-16:00 sessions .....	24
16:30-18:00 sessions .....	26
Social Event .....	27
<b>Friday</b>	
Invited Speaker Steven Pemberton .....	29
10:00-11:00 sessions .....	30
11:30-13:00 sessions .....	32
14:30-16:30 sessions .....	34
Closing session .....	35
Exhibitors .....	36
INTERACT 2005 Organisation .....	37
International Programme Committee .....	38
IFIP TC13 .....	40
IFIP TC13 Members .....	41
General Information .....	43
Social Program .....	46
Maps .....	48

# IFIP TC13 Chair's Welcome



**Annelise Mark Pejtersen**  
CSEC, Risø National  
Laboratory, Denmark

INTERACT 2005 highlights *Communicating naturally with computers* and explores the visions, challenges and opportunities of designing and using computers with increasingly natural communication capabilities. Issues related to communicating naturally are expanding in importance since the globalization with emerging communication among all people in every environment worldwide increasingly involves computers and requires communication and integration among diverse technologies and diverse people - in most aspects of life, in work, home and on the way.

This Conference in the beautiful city of Rome is a special event, since it is the tenth anniversary of the INTERACT conferences which were initiated twenty years ago by the Technical Committee on Human-Computer Interaction (IFIP TC13), the International Federation for Information Processing. Since the beginning these conferences have performed as a global forum, supporting and encouraging our growing global HCI community, and communicating HCI themes for the future.

This is also reflected in this conference by the worldwide contributions from countries in five continents as well as in the highly international conference committee and board of reviewers, who have again followed the INTERACT high quality flagship of selecting few, but very good and very innovative contributions from various scientific disciplines. A wide range of events are produced, technical session papers, panels, laboratory overviews, professional practice and experience, videos and interactive experiences, tutorials, workshops and a Doctoral Consortium.

We are sure, that you will enjoy the quality and diversity of the programme and that you will experience that this conference is an excellent opportunity for scholars and professionals to disseminate their latest work and to exchange scientific information on the present and future challenges of theory and practice in HCI.

We cordially welcome and encourage your participation and contribution to the success of this conference!

# Program Co-Chairs' Welcome



**Maria Francesca Costabile**  
Università di Bari, Italy



**Fabio Paternò**  
ISTI-CNR, Italy

INTERACT is one of the most important conferences in the area of Human-Computer Interaction at the world-wide level. We believe that this edition, which for the first time takes place in a Southern European country, will strengthen this role, and that Rome, with its history and beautiful setting provides a very congenial atmosphere for this conference.

The theme of INTERACT 2005 is *Communicating Naturally with Computers*. There has been an increasing awareness among interactive systems designers of the importance of designing for usability. However, we are still far from having products that are really usable, considering that usability may have many different meanings depending on the application domain. We are all aware that too often many users of current technology feel frustrated because computer systems are not compatible with their abilities and needs and with existing work practices. As designers of tomorrow's technology, we are responsible for creating computer artefacts that would permit natural communication with the various computing devices, so that communicating with computers would be more like communicating with people, and users might enjoy more satisfying experiences with information and communication technologies. This need has given rise to new research areas, such as ambient intelligence, natural interaction, end-user development, and social interaction.

The response to the conference has been positive in terms of submissions and participation. There is a good balance of contributions from academia and industry. The final programme of the symposium includes three technical invited speakers: Bill Buxton on Sketching and Experience Design; Flavia Sparacino on Intelligent Architecture: Embedding Spaces with a Mind for Augmented Interaction; and Steven Pemberton on the Future of Web Interfaces. In addition to the 70 full papers, the programme includes 53 short papers, as well as interactive demos that will allow participants to have direct experience of innovative results, tutorials, workshops, SIGs, panels, and a doctoral consortium.

We are also happy to announce that for the first time the INTERACT proceedings will be made available in a digital library. This is an important and useful innovation for both authors and the HCI community, as the entire contents will remain accessible and searchable over the years even for those who have not attended the conference.

Last, but not least, let us thank all those who contributed to the success of the conference, including the authors, the International Programme Committee, the organizers, the sponsors, our collaborators.

# Monday Tutorials

September 12, 2005

9:00-18:30 Room: Rossini

**T1: Computer Supported Cooperative Work**

**Steven Poltrock** (Boeing Phantom Works, USA), **Jonathan Grudin** (Microsoft Research, USA)

After years of false starts and slow progress, technology to support collaboration is having tremendous impact on many of us, our organizations, and society. This tutorial addresses past research, recent experiences, current possibilities, and future trends. Following a short history of Computer Supported Cooperative Work (CSCW), the diversity of the field is illustrated in a group exercise in which tutorial participants discover their own diversity and learn about each other's experiences with collaboration technologies.

The tutorial reviews major challenges in design, development, and use of collaboration technologies, and approaches that have evolved to meet these challenges. A conceptual framework around human activities involved in collaborating, considering collaboration in small groups or teams, within large organizations, and across communities is established. For each type of social organization, technology and research is surveyed. In two exercises, participants work together to design a collaboration solution for small and large organizations. The tutorial builds on and broadens participant experiences by describing and illustrating via videotapes a range of design innovations that researchers have explored. Several case studies illustrate general observations about technology design, adoption, and use in social settings.

9:00-18:30 Room: Puccini

**T3: Working With and Analyzing Qualitative Field Study Data**

**David Siegel, Susan Dray** (Dray & Associates, Inc., USA)

Field studies are essential to user-centered design (UCD), but the qualitative data from these studies is usually overwhelming and ambiguous. Too often, lack of rigor in handling the data and analyzing it leads to findings that are mere collections of anecdotes or impression-istic summaries, with vague or even misleading implications for product planning and design. This tutorial will teach techniques to improve the validity and credibility of findings, to keep them focused on product planning and design, and to help the researcher avoid drowning in data.

Participants will learn: how scientific rigor applies to qualitative research; data management and coding approaches to maintain the link between data and conclusions, and to facilitate systematic analysis; how different software tools (including computer-assisted qualitative data analysis software or CAQDAS tools) can help in analysis; how to triangulate in on valid conclusions through iterative use of complementary analysis techniques, including coding strategies, clustering and affinity diagramming, extracting dimensions, and exploring networks of relations; how to deal with common validity concerns regarding qualitative field study data, such as the small sample problem, and appropriate generalization from qualitative data.

9:00-13:00 Room: Vivaldi

**T4: An Introduction to Interaction Design: Beyond Human-Computer Interaction?**

**Liam Bannon, Parag Deshpande** (University of Limerick, Ireland)

This half-day tutorial is intended to provide an overview of the emerging field of Interaction Design. While there are a number of different perspectives on this emerging field, all perspectives emphasize shifts in the relation between people and information and communication technology, from interface to interaction, from use to 'living with', from functionality to engagement, from work to home and "on the move", from content to form. The background context out of which this field has emerged will be described. This will include a brief overview of the interdisciplinary fields of human-computer interaction (HCI), computer-supported cooperative work (CSCW), and participatory design (PD). Likewise, design-oriented fields have begun to open up to the increasing penetration of digital technologies into all aspects of our lives, from the workplace to the home, and the use of mobile personal technologies. This short tutorial will provide a map of the different disciplines involved, some of the key concepts that guide the work, and some of the novel methods being employed, as well as providing resources for further study. By the end of the workshop, attendees should have a clear understanding of the similarities and differences this emerging discipline has with the more established HCI tradition, and of the state-of-play in the area.

# Tuesday Tutorials

September 13, 2005

14:30-18:30 Room at CNR, Piazza A. Moro n. 7

**T8: Improving Usability in Mobile Interaction: a User-Centred Design Perspective**

**Lada Gorlenko** (IBM, UK)

Mobile and Ubiquitous Computing, Usability and Accessibility are the main topics of this tutorial. Mobility imposes significant cognitive and ergonomic constraints on the user, and usability of devices and applications becomes critical in mobile environments. The tutorial presents a new look on mobility, and considers it an attribute of both the computer and the user. The tutorial explains the differences between: a) fully mobile and transportable devices; b) various mobile contexts; c) applications that are essential to the mobile connected context, those that can be adapted to the context, and those that are unsuitable for it. The tutorial provides usability recommendations to designers and developers of mobile devices and applications, and discusses challenges of user-centred design (UCD) in the mobile world.

14:30-18:30 Room: Vivaldi

**T9: Observational Methods**

**Mark Rouncefield, Dave Martin** (Lancaster University, UK), **Dave Randall** (Manchester Metropolitan University, UK)

Computer Supported Cooperative Work (CSCW), Mobile and Ubiquitous Computing, User Studies are the main topics of this tutorial.

The tutorial has the objective of developing an appreciation of the various and practical issues that arise during the conduct of 'naturalistic' enquiry.

Competing perspectives will be examined, compared and contrasted. It is argued that the study of socially organised cooperation is central to new generations of systems in organisational contexts.

9:00-13:00 Room: Vivaldi

**T11: Tools and Methods for the Design of Multi-Device User Interfaces**

**Fabio Paternò** (ISTI-CNR, Italy)

Nowadays, everyday life is becoming a multi-platform environment where people are surrounded by different types of devices through which they can connect to networks in different ways. Most of them are mobile personal devices carried by users moving freely about different environments populated by various other devices. This tutorial will discuss how methods and tools can support designers and developers to address a number of challenges raised by pervasive usability, such as the possibility of obtaining user interfaces able to adapt to any device. It will provide an overview concerning results that can be obtained through model-based approaches, in particular when multi-device interfaces, even using different modalities, are considered, and will link up the discussion to projects currently underway. A key aspect is to be able to have different views on interactive systems, each view associated with a different abstraction level. With the support of tools, XML-based languages and transformations, it is possible to move from one level to another and convert a description for one interaction platform to another for a different one. To address such issues, traditional solutions such as transcoding or style sheets are not enough. We need environments able to support designers and developers to obtain usable multi-device and multi-modal interfaces. Such tools should be able to provide various levels of automation and to capture the many relations between tasks and platforms.

The tutorial will also address migratory interfaces, discussing their main features and possible solutions for supporting them. It will indicate how logical descriptions of an interactive system can support run-time migration of user interfaces through different platforms, even with different modalities, while preserving task performance continuity. Lastly, a research agenda for the field will be introduced and discussed.

# Workshops

September 12, 2005

9:00-18:30 Room: Accademia

*WS1: User Involvement in e-Government Development Projects*

**Asbjørn Følstad, John Krogstie, Reinhard Oppermann, Dag Svanaes**

9:00-18:30 Room: Mascagni

*WS3: Appropriate Methodology for Empirical Studies of Privacy*

**Natalia Romero, Evelien Perik, Sameer Patil**

9:00-18:30 Room: Taurini

*WS4: Describing Users in Contexts - Perspectives on Human-Work Interaction Design*

**Rikke Orngreen, Torkil Clemmensen, Annelise Mark Pejtersen**

9:00-18:30 Room: Sabelli

*WS5: ABUSE: the Dark Side of Human-Computer Interaction*

**Antonella De Angeli, Sheryl Braman, Peter Wallis**

9:00-18:30 Room: Marsi

*WS6: International Workshop on Plastic Services for Mobile Devices PSMD05*

**Gaëlle Calvary, Giuseppe Santucci**

9:00-18:30 Room: Caudini

*WS13: International COST 294 Workshop on User Interface Quality Models (1<sup>st</sup> day)*

**Jean Vanderdonckt, Effie Law, Ebba Hvannberg**

14:30-18:30 Room: Vivaldi

*WS14: Promoting inclusive design policies and strategies for HCI*

**Monique Noirhomme-Fraiture, Colette Nicolle, Julio Abascal**

September 13, 2005

9:00-18:30 Room: Marsi

*WS7: Child Computer Interaction: Methodological Research*

**Panos Markopoulos, Johanna Höysniemi, Janet Read, Stuart MacFarlane**

9:00-18:30 Room: Accademia

*WS9: eLearning and Human-Computer Interaction: Exploring Design Synergies for more Effective Learning Experiences*

**Alan Dix, Teresa Roselli, Erkki Sutinen**

9:00-18:30 Room: Taurini

*WS10: Workshop on HCI patterns: Mapping User Needs into Interaction Design Solutions*

**Franca Garzotto, Stephan Lukosch, Symeon Retalis, Till Schümmer, Uwe Zdun**

9:00-18:30 Room: Mascagni

*WS11: Integrating Software Engineering and Usability Engineering*

**Rick Kazman, Morten Borup Harning, Kirstin Kohler, Daniel Kerkow**

9:00-18:30 Room: Puccini

*WS12: Space, Place and Experience in Human-Computer Interaction*

**Peter Wright, John McCarthy, Mark Blythe, Richard Coyne, Kirsten Boehner**

9:00-18:30 Room: Caudini

*WS13: International COST 294 Workshop on User Interface Quality Models (2<sup>nd</sup> day)*

**Jean Vanderdonckt, Effie Law, Ebba Hvannberg**

# Doctoral Consortium

September 12, 2005

Room at CNR, Piazza A. Moro n. 7

9:00-9:30 **Opening Remarks and Logistics**  
**John Karat** (IBM, USA), **Matthias Rauterberg**  
(Technical Univ. Eindhoven, The Netherlands)

9:30-11:00 **Session 1:**

Towards an Understanding of Online  
Consumer Behaviour

**Lillian Clark** (University of York, UK)

Infrastructure for Plastic User Interfaces  
under a Dichotomic View

**Montserrat Sendin** (University of Lleida,  
Spain)

11:30-13:00 **Session 2:**

Interacting in Instrumented Environments

**Lucia Terrenghi** (University of Munich,  
Germany)

Context-Sensitive Enterprise Content  
Management System: A Novel Approach for  
Adaptive Commercial Off-The-Shelf  
Software

**Ivo Widjaja** (University of Melbourne,  
Australia)

13:00-14:30 **Lunch**

14:30-16:00 **Session 3:**

Play and Work: Investigating the Role of  
Value in Human-Computer Interaction

**Pippin Barr** (Victoria University of  
Wellington, New Zealand)

Visualization and Interaction Design for  
Ubiquitous Access to Shared Medical  
Information

**Isabella Scandurra** (Uppsala University,  
Sweden)

16:30-18:00 **Session 4:**

MIA: a Multimodal Approach to Ubiquitous  
Information Management

**Sonia Modeo** (Università di Torino, Italy)

Designing Interactive Systems in Context

**Tim Clerckx** (Limburgs Universitair  
Centrum, Belgium)

20:00-22:00 **Doctoral Consortium Dinner**

September 13, 2005

Room at CNR, Piazza A. Moro n. 7

9:00-9:30 **Opening Remarks and Logistics**  
**John Karat** (IBM, USA), **Matthias Rauterberg**  
(Technical Univ. Eindhoven, The Netherlands)

9:30-11:00 **Session 5:**

Personalized Context-aware Attentive  
Services in the Mobile Environment

**Jan Willem Streefkerk** (TNO Human  
Factors, The Netherlands)

Emotional Interaction with Virtual  
Characters

**Amalia Ortiz** (Edutainment and Graphical  
UI Department VICOMTech Research  
Centre, Spain)

11:30-13:00 **Session 6:**

Developing Culturally-Aware Persuasive  
Technology

**Rilla Khaled** (Victoria University of  
Wellington, New Zealand)

Enhancing the Interplay between Software  
Design and Usability Evaluation

**Rune Th. Høegh** (Aalborg University,  
Denmark)

13:00-13:30 **Closing Discussion**

Consortium Panelists: **Mark Apperly**,  
(University of Waikato, New Zealand),

**Maddy Janse** (Phillips Research, The  
Netherlands), **Wendy Mackay** (INRIA,

France), **Alistair Sutcliffe** (University of  
Manchester, UK)

13:30 **Lunch**

Tuesday Evening

19:00 INTERACT 2005 Welcome Reception

The Welcome Reception will take place at the terrace of Palazzo Caffarelli, Piazza Caffarelli n. 4.

# Wednesday

September 14, 2005

9:00-9:30

Room: Auditorium

## Welcome

Brian Shackel Award

**Stefano Levialdi, Maria Francesca Costabile, Fabio Paternò, Annelise Mark Pejtersen**

The Brian Shackel award is associated with each INTERACT Conference and it recognizes the most outstanding contribution among the full papers of INTERACT 2005. The award consists of a commemorative plaque and a certificate. It marks the contribution of Professor Brian Shackel to the establishment of Human-Computer Interaction as an international discipline. Professor Shackel, Emeritus Professor at Loughborough University and Founding Director of the HUSAT Research Institute, organized the first INTERACT Conference in London in 1984 and played a leading role in establishing the conference as a regular feature of the international calendar.

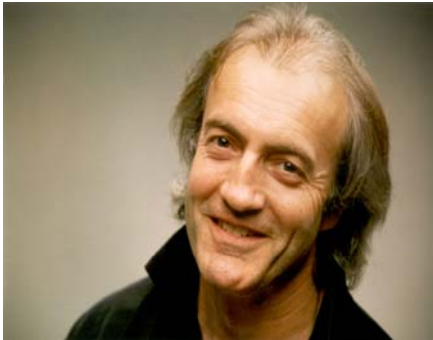
9:30-10:30

Room: Auditorium

**Chair:** Fabio Paternò (ISTI-CNR, Italy)

Invited Speaker

**Bill Buxton** (Buxton Design, Canada)



Bill Buxton is an interaction designer and researcher, and Principal of the Toronto-based design and consulting firm, *Buxton Design*.

Bill is one of the pioneers in computer music, and has played an important role in the development of computer-based tools for music, film, industrial design, graphics and animation. As a researcher, he has had a long history with Xerox' Palo Alto Research Center and the University of Toronto, where he is still an Associate Professor in the Department of Computer Science, and Visiting Professor at the *Knowledge Media Design Institute*. In the fall of 2004, he was a lecturer in the Department of Industrial Design at the

*Ontario College of Art and Design*, and in the spring of 2005, he was a visiting researcher at Microsoft Research, Cambridge, in the UK.

From 1994 until December 2002, he was Chief Scientist of Alias|Wavefront (now Alias Systems), and from 1995, its parent company SGI Inc. In 2001, the *Hollywood Reporter* named him one of the 10 most influential innovators in Hollywood. In 2002 *Time Magazine* named him one of the top 5 designers in Canada, and he was elected to the ACM's *CHI Academy*.

More information on Buxton and his work can be found at: [www.billbuxton.com](http://www.billbuxton.com)

# Wednesday 11:00-13:00

September 14, 2005

Room: Auditorium

**Session:** Haptic and Tangible Interfaces

**Chair:** Shumin Zhai (IBM Almaden Research Center, USA)

An Investigation into the Use of Tactons to Present Progress Information

**Stephen Brewster, Alison King** (University of Glasgow, UK)

Haptizing Wind on a Weather Map with Reactive Force and Vibration

**Masaki Omata, Masami Ishihara, Misa Grace Kwok, Atsumi Imamiya** (University of Yamanashi, Japan)

Using ARToolKit Markers to Build Tangible Prototypes and Simulate Other Technologies

**Eva Hornecker** (Vienna University of Technology, Austria and University of Sussex, UK),  
**Thomas Psik** (Vienna University of Technology, Austria)

Augmented Reality Painting and Collage: Evaluating Tangible Interaction in a Field Study

**Giulio Jacucci, Antti Oulasvirta, Antti Salovaara** (Helsinki Institute for Information Technology, Finland), **Thomas Psik, Ina Wagner** (Vienna University of Technology, Austria)

Room: Accademia

**Session:** Novel User Interfaces

**Chair:** Norbert Streitz (Fraunhofer, IPSI Darmstadt, Germany)

Hotaru: Intuitive Manipulation Techniques for Projected Displays of Mobile Devices

**Masanori Sugimoto, Kosuke Miyahara, Hiroshi Inoue, Yuji Tsunesada** (University of Tokyo, Japan)

DIZI: A Digital Ink Zooming Interface for Document Annotation

**Maneesh Agrawala, Michael Shilman** (Microsoft Research, USA)

TractorBeam Selection Aids: Improving Target Acquisition for Pointing Input on Tabletop Displays

**J. Karen Parker** (Dalhousie University and University of British Columbia, Canada), **Regan L. Mandryk** (Simon Fraser University, Canada), **Michael N. Nunes, Kori M. Inkpen** (University of British Columbia, Canada)

Responsive Interaction Based on Sketch in Concept Styling

**Li Han, Giuseppe Conti, Raffaele De Amicis** (Graphitech, Italy)

Room: Etruschi

**Session:** Improving Search Techniques

**Chair:** Stephen Kimani (Università di Roma "La Sapienza", Italy)

Natural Language Query vs. Keyword Search: Effects of Task Complexity on Search Performance, Participant Perceptions, and Preferences

**QianYing Wang, Clifford Nass, Jiang Hu** (Stanford University, USA)

"THAT's What I Was Looking For": Comparing User-Rated Relevance with Search Engine Rankings

**Sameer Patil** (University of California, USA), **Sherman R. Alpert, John Karat, Catherine Wolf** (I.B.M. T. J. Watson Research Center, USA)

Effects of Display Configurations on Document Triage

**Soonil Bae, Rajiv Badi, Konstantinos Meintanis, J. Michael Moore, Anna Zacchi, Haowei Hsieh, Catherine C. Marshall, Frank M. Shipman** (Texas A&M University, USA)

Searching for Music: How Feedback and Input-Control Change the Way we Search

**Tue Haste Andersen** (University of Copenhagen, Denmark)

Room: Latini

**Session:** Model-based Design

**Chair:** Dominique Scapin (INRIA Rocquencourt, France)

Galactic Dimensions: a Unifying Workstyle Model for User-Centered Design

**Pedro Campos, Nuno J. Nunes** (University of Madeira, Portugal)

A Formal Description of Multimodal Interaction Techniques for Immersive Virtual Reality Applications

**David Navarre, Philippe Palanque, Rémi Bastide, Amélie Schyn, Marco Winckler** (Université Paul Sabatier, France), **Luciana P. Nedel, Carla M.D.S. Freitas** (Federal University of Rio Grande do Sul, Brazil)

Analysing User Confusion in Context Aware Mobile Applications

**Karsten Loer, Michael D. Harrison** (Germanischer Lloyd AG, Germany)

Attach me, Detach me, Assemble me like You Work

**Donatien Grolaux, Jean Vanderdonckt, Peter Van Roy** (Université Catholique de Louvain, Belgium)

# Wednesday 14:30-16:00

September 14, 2005

Room: Auditorium

**Session:** Interacting with Mobile Devices

**Chair:** Manfred Tscheligi (University of Salzburg, Austria)

Bringing Dynamic Queries to Mobile Devices: a Visual Preference-based Search Tool for Tourist Decision Support

**Stefano Burigat, Luca Chittaro, Luca De Marco** (Università di Udine, Italy)

Mobile Photo Browsing with Pipelines & Spatial Cues

**Tero Hakala, Juha Lehtikoinen, Hannu Korhonen, Aino Ahtinen** (Nokia Research Center, Finland)

Visual Interface and Control Modality: An Experiment about Fast Photo Browsing on Mobile Devices

**QianYing Wang, Susumu Harada, Tony Hsieh, Andreas Paepcke** (Stanford University, USA)

Room: Accademia

**Session:** Accessibility

**Chair:** Domenico Natale (Sogei, Italy)

The Effect of Age and Font Size on Reading Text on Handheld Computers

**Iain Darroch, Joy Goodman, Stephen Brewster, Phil Gray** (University of Glasgow, UK)

Fat Finger Worries: How Older and Younger Users Physically Interact with PDAs

**Katie A. Siek, Yvonne Rogers, Kay H. Connelly** (Indiana University, USA)

Flexible Reporting for Automated Usability and Accessibility Evaluation of Web Sites

**Abdo Beirekdar, Marc Keita, Monique Noirhomme, Frédéric Randolet** (Faculté Universitaire de Notre Dame de la Paix, Belgium), **Jean Vanderdonckt, Céline Mariage** (Université catholique de Louvain, Belgium)

Wednesday 14:30-16:00

September 14, 2005

Room: Etruschi

**SIG**

IFIP Working Group on Human-Work Interaction Design

**Torkil Clemmensen**, **Rikke Orngreen** (Copenhagen Business School, Denmark), **Annelise Mark Pejtersen** (CSEC, Risø National Laboratory, Denmark)

Room: Latini

**Panel**

The Challenge of Personal Information Management

**William Jones** (University of Washington, USA), **Mary Czerwinski** (Microsoft Research, USA), **Jaime Teevan** (Massachusetts Institute of Technology, USA), **Catherine Plaisant** (University of Maryland, USA), **Thomas P. Moran** (IBM Almaden Research Center, USA), and **Alan Dix** (Lancaster University, UK)

# Wednesday 16:30-18:00

September 14, 2005

Room: Auditorium

**Session:** Information Visualization and User Studies (short papers)

**Chair:** Mark Apperley (University of Waikato, New Zealand)

Large Visualizations for System Monitoring of Complex Heterogenous Systems

**Daniel M. Russell, Andreas Dieberger, Varun Bhagwan, Daniel Gruhl** (IBM Almaden Research Center, USA)

The Challenge of Visualizing Patient Histories on a Mobile Device

**Carmelo Ardito, Paolo Buono, Maria Francesca Costabile** (Università degli Studi di Bari, Italy)

Static Visualization of Temporal Eye-Tracking Data

**Kari-Jouko Räihä, Anne Aula, Päivi Majaranta, Harri Rantala, Kimmo Koivunen** (University of Tampere, Finland)

Analytic Worksheets: A Framework to Support Human Analysis of Large Streaming Data Volumes

**Grace Crowder, Sterling Foster** (U.S. Department of Defense, USA), **Daniel M. Russell, Malcolm Slaney, Lisa Yanguas** (IBM Almaden Research Center, USA)

Hundreds of Folders or One Ugly Pile – Strategies for Information Search and Re-access

**Anne Aula, Harri Siirtola** (University of Tampere, Finland)

Exploring Results Organisation for Image Searching

**Jana Urban, Joemon M. Jose** (University of Glasgow, UK)

Room: Accademia

**Session:** Computer-mediated Communication and Mobility (short papers)

**Chair:** Reinhard Oppermann (Fraunhofer-Institute for Applied Information Technology FIT, Germany)

The SenseMS: Enriching the SMS experience for Teens by Non-verbal Means

**Alia K. Amin, Bram Kersten, Olga A. Kulyk, Elly Pelgrim, Jimmy Wang, Panos Markopoulos** (Eindhoven University of Technology, The Netherlands)

TextTone: Expressing Emotion Through Text

**Ankur Kalra, Karrie Karahalios** (University of Illinois at Urbana-Champaign, USA)

Lock-on-Chat: Boosting Anchored Conversation and its Operation at a Technical Conference

**Takeshi Nishida** (The University of Tokyo, Japan), **Takeo Igarashi** (The University of Tokyo, Japan and PREST JST, Japan)

BROAFERENCE - A Next Generation Multimedia Terminal Providing Direct Feedback on Audience's Satisfaction Level

**Uwe Kowalik, Terumasa Aoki, Hiroshi Yasuda** (The University of Tokyo, Japan)

ChatAmp: Talking with Music and Text

**M. Ian Graham, Karrie Karahalios** (University of Illinois, USA)

The Optimal Focus Position when Scrolling Using a Small Display

**James Whalley, Andrew Monk** (University of York, UK)

Room: Etruschi

**Session:** Group Work and Tabletop Interaction (short papers)

**Chair:** Philippe Palanque (Université Paul Sabatier, France)

Relevance of Prior Experience in MHP based Interactive TV Services

**Regina Bernhaupt, Bernd Ploderer, Manfred Tscheligi** (University of Salzburg, Austria)

Preference-Based Group Scheduling

**Jiang Hu, Mike Brzozowski** (Stanford University, USA)

Under My Finger: Human Factors in Pushing and Rotating Documents Across the Table

**Clifton Forlines, Chia Shen** (Mitsubishi Electric Research Laboratories, USA), **Frédéric Vernier**

(Mitsubishi Electric Research Laboratories, USA and University of Paris, France), **Mike Wu**

(Mitsubishi Electric Research Laboratories, USA and University of Toronto, Canada)

DocuBits & Containers: Providing e-Document Micro-Mobility in a Walk-up Interactive Tabletop Environment

**Katherine Everitt, Chia Shen, Kathy Ryall, Clifton Forlines** (Mitsubishi Electric Research Laboratories, USA)

Transcription Table: Text Support During Meetings

**Joris van Gelder, Irene van Peer, Dzmitry Aliakseyeu** (Eindhoven University of Technology, The Netherlands)

Common Ground to Analyse Privacy Coordination in Awareness Systems

**Natalia A. Romero, Panos Markopoulos** (Eindhoven University of Technology, The Netherlands)

Room: Latini

**Session:** Intelligent Interfaces

**Chair:** Marco Combetto (Microsoft Research, UK)

The Focus-Metaphor Approach: A Novel Concept for the Design of Adaptive and User-Centric Interfaces

**Sven Laqua** (Northumbria University, UK), **Paul Brna** (University of Glasgow, UK)

Working Out a Common Task: Design and Evaluation of User-Intelligent System Collaboration

**Daniela Petrelli, Vitaveska Lanfranchi, Fabio Ciravegna** (Sheffield University, UK)

Interactivity and Expectation: Eliciting Learning Oriented Behavior with Tutorial Dialogue Systems

**Carolyn Penstein Rosé, Cristen Torrey** (Carnegie Mellon University, USA)

# Notes

# Thursday

September 15, 2005

9:00-10:00

Room: Auditorium

**Chair:** Stefano Levialdi (Università di Roma "La Sapienza", Italy)

Invited Speaker

## **Flavia Sparacino** (Sensing Places, USA)



Flavia Sparacino is an Interactive technology and experience designer, head and founder of Sensing Places, an MIT-spinoff firm that commercializes her inventions. She builds body-driven interactive narrative spaces supported by new technologies. These interactive architectural spaces find application in museums, performance spaces, corporate lobbies, retail stores, theme parks, movie sets, airports, and city-scale events. Her emphasis is on natural interfaces, that through advanced computer vision algorithms and electronic sensors, allow people to freely interact with digital images, videos, and graphics, using

natural gestures and movements. Flavia designed museum installations for MOMA, SFMOMA, the National Library of Medicine, and Milan's La Scala Opera theater. Her work was exhibited in various interactive venues at SIGGRAPH, Ars Electronica, IMAGINA, the MIT Museum, ISEA, IDAT, ICHIM, and MW. Her interactive architecture installations and scientific research have been publicized by the international press and television in eight different languages. Relevant citations are from: The Boston Globe, The New York Times, The Wall Street Journal, Computer Zeitung, Berliner Zeitung, Le Monde, Liberation, La Repubblica, La Stampa, Il Corriere della Sera. Flavia holds five academic degrees, including a M.Eng degrees in Electrical Engineering from Politecnico di Milano and a Ph.D in Media Arts and Sciences from MIT. In the year 2000 she was nominated Knight of the Republic of Italy for her numerous contributions to innovative communication of art and culture supported by new technologies. Her group Sensing Places operates in the US, Europe, and Italy and recently completed the design of an interactive exhibit on Puccini Set Designer with the collaboration of Milan's La Scala Opera Theater and Fondazione Ragghianti di Lucca.

# Thursday 10:00-11:00

September 15, 2005

Room: Auditorium

**Session:** Large Displays

**Chair:** Mary Czerwinski (Microsoft Research, USA)

Put Them Where? Towards Guidelines for Positioning Large Displays in Interactive Workspaces

**Ramona E. Su, Brian P. Bailey** (University of Illinois, USA)

Analysis of User Behavior on High-Resolution Tiled Displays

**Robert Ball, Chris North** (Virginia Polytechnic Institute and State University Blacksburg, USA)

Room: Accademia

**Session:** 3D and Virtual Environments (short papers)

**Chair:** Kent Wittenburg (Mitsubishi Electric Research Laboratories, USA)

3D Syllabus: Interactive Visualization of Indexes to Multimedia Training Content

**Kyuman Song** (General Dynamics C4 Systems, USA), **Surapong Lertsithichai** (Silpakorn University, Thailand), **Patrick Chiu** (FX Palo Alto Laboratory, USA)

A Navigation and Examination Aid for 3D Virtual Buildings

**Luca Chittaro, Vijay Kumar Gatla, Subramanian Venkataraman** (Università di Udine, Italy)

Virtual Reflections and Virtual Shadows in Mixed Reality Environments

**Frank Steinicke, Klaus Hinrichs, Timo Ropinski** (WWU Münster, Institut für Informatik, Germany)

Cooking with the Elements: Intuitive Immersive Interfaces for Augmented Reality Environments

**Leonardo Bonanni, Chia-Hsun Lee, Ted Selker** (MIT Media Laboratory, USA)

Room: Etruschi

**Session:** Collaboration

**Chair:** Alistair Sutcliffe (University of Manchester, UK)

Interaction and Co-located Collaboration in Large Projection-based Virtual Environments

**Andreas Simon, Armin Dressler, Hans-Peter Krüger, Sascha Scholz** (Fraunhofer IMK Virtual Environments, Germany), **Jürgen Wind** (Vertigo Systems, Germany)

Using Real-Life Troubleshooting Interactions to Inform Self-Assistance Design

**Jacki O'Neill, Antonietta Grasso, Stefania Castellani, Peter Tolmie** (XRCE, France)

Room: Latini

**Session:** Adaptive and Adaptable Systems (short papers)

**Chair:** Noëlle Carbonell (LORIA, France)

Learners' Perceived Level of Difficulty of a Computer-Adaptive Test:

A case Study

**Mariana Lilley, Trevor Barker, Carol Britton** (University of Hertfordshire, UK)

How to Communicate Recommendations? Evaluation of an Adaptive Annotation Technique

**Federica Cena, Sonia Modeo** (CSP Innovazione nelle ICT s.c. a r.l., Italy and Università di Torino, Italy), **Cristina Gena** (Università di Torino, Italy)

Adaptive User Interfaces Development Platform

**Jing-Hua Ye, John Herbert** (University College Cork, Ireland)

Adapting the ADS for High Volume Manufacturing

**Connor Upton, Gavin Doherty** (Trinity College Dublin, Ireland)

# Thursday 11:30-13:00

September 15, 2005

Room: Auditorium

**Session:** Usability Evaluation

**Chair:** Gilbert Cockton (University of Sunderland, UK)

Feedback from Usability Evaluation to User Interface Design: Are Usability Reports Any Good?

**Christian M. Nielsen, Jan Stage** (Aalborg University, Denmark) **Michael Overgaard, Michael B. Pedersen** (ETI A/S, Denmark)

Assessing Interaction Styles in Web User Interfaces

**Alistair Sutcliffe, Antonella De Angeli** (University of Manchester, UK)

Usability Specialists - 'a Mommy Mob', 'Realistic Humanists' or 'Staid Researchers'? An Analysis of Usability Work in the Software Product Development

**Netta Iivari** (University of Oulu, Finland)

Room: Accademia

**Session:** Grasping, Gazing, Gesturing (short papers)

**Chair:** Annelise Mark Pejtersen (CSEC, Risø National Laboratory, Denmark)

Immersive Live Sports Experience with Vibrotactile Sensation

**Beom-Chan Lee, Junhun Lee, Jongeun Cha, Changhoon Seo, Jeha Ryu** (Gwangju Institute of Science and Technology, Korea)

Smooth Haptic Interaction in Broadcasted Augmented Reality

**Jongeun Cha, Beom-Chan Lee, Jong-phil Kim, Seungjun Kim, Jeha Ryu** (Gwangju Institute of Science and Technology, Korea)

A Laser Pointer/Laser Trails Tracking System for Visual Performance

**Kentaro Fukuchi** (The University of Electro-Communications Choufu-shi, Tokyo)

Effects of Display Layout on Gaze Activity during Visual Search

**Jérôme Simonin, Suzanne Kieffer, Noëlle Carbonell** (LORIA, France)

Eye-tracking Reveals the Personal Styles for Search Result Evaluation

**Anne Aula, Päivi Majaranta, Kari-Jouko Rähkä** (University of Tampere, Finland)

Hotspot Components for Gesture-Based Interaction

**Alejandro Jaimés, Jianyi Liu** (FXPAL, Fuji Xerox Co., Japan)

Room: Etruschi

**Session:** Design and Models (short papers)

**Chair:** Simone Barbosa (Informatics Department, PUC-Rio, Brazil)

Development of Multi-Modal Interfaces in Multi-Device Environments

**Silvia Berti, Fabio Paternò** (ISTI-CNR, Italy)

Analysing Trans-Modal Interface Migration

**Renata Bandelloni, Silvia Berti, Fabio Paternò** (ISTI-CNR, Italy)

Inferring Relations between Color and Emotional Dimensions of a Web Site Using Bayesian Networks

**Eleftherios Papachristos, Nikolaos Tselios, Nikolaos Avouris** (University of Patras, Greece)

Abbrevicons: Efficient Feedback for Audio Interfaces

**Matthew Hockenberry, Sharon Cohen, Zachary Ozer, Tiffany Chen, Ted Selker** (The Media Laboratory, USA)

Icon Use by Different Language Groups: Changes in Icon Perception in Accordance with Cue Utility

**Siné McDougall, Lucy Stares** (University of Wales Swansea, UK), **Alexandra Forsythe** (Queen's University Belfast, UK)

User Aspects of Explanation Aware CBR Systems

**Jörg Cassens** (Norwegian University of Science and Technology NTNU, Norway)

Room: Latini

## Panel

Creative Interaction Futures

**Ernest Edmonds** (University of Technology, Australia), **Bill Buxton** (Buxton Design, Canada), **Mary Czerwinski** (Microsoft Research, USA), **Tom Hewett** (Drexel University, USA), **Philippe Palanque** (Université Paul Sabatier, France), **Doug Riecken** (IBM TJ Watson Research Center, USA)

# Thursday 14:30-16:00

September 15, 2005

Room: Auditorium

**Session:** Children's Interfaces and their Evaluation

**Chair:** Franca Garzotto (Politecnico di Milano, Italy)

Exposing Middle School Girls to Programming via Creative Tools

**Gahgene Gweon, Jane Ngai, Jenica Rangos** (Carnegie Mellon University, USA)

Exploring Verbalization and Collaboration of Constructive Interaction with Children

**Benedikte S. Als, Janne J. Jensen, Mikael B. Skov** (Aalborg University, Denmark)

A Structured Expert Evaluation Method for the Evaluation of Children's Computer Games

**Ester Baauw, Mathilde M. Bekker, Wolmet Barendregt** (TU Eindhoven, The Netherlands)

Room: Accademia

**Session:** Mobile Devices and their Usability (2 full + 2 short papers)

**Chair:** Janet Wesson (Nelson Mandela Metropolitan University, South Africa)

Usability Testing of Mobile Devices: A Comparison of Three Approaches

**Adriana H. Betiol** (Pontifical Catholic University of Paraná, Brazil), **Walter de Abreu Cybis** (Federal University of Santa Catarina, Brazil)

Evaluating the Effectiveness of "Effective View Navigation" for Very Long Ordered Lists on Mobile Devices

**Luca Chittaro, Luca De Marco** (Università di Udine, Italy)

Mobile Reacher Interface for Intuitive Information Navigation

**Yuichi Yoshida, Kento Miyaoku, Takashi Satou, Suguru Higashino** (Nippon Telegraph and Telephone Corporation, Japan)

Recognition Errors and Recognizing Errors – Children Writing on the Tablet PC

**Janet Read, Emanuela Mazzone, Matthew Horton** (University of Central Lancashire, UK)

Room: Etruschi

**Demos**

**Chairs:** Emanuele Panizzi (Università di Roma "La Sapienza", Italy), Giulio Mori (ISTI-CNR, Italy)

Visual Error Resolution Strategy for highly-structured text entry using Speech Recognition in FP6-ALLADIN project

**Xavier Ricco, Stéphane Deketelaere, Jo De Lafonteyne, Alexandre Girardi** (Multitel ASBL, Belgium)

BuddyBeads: Techno-Jewelry for non verbal communication within Teenager Girls Groups

**Ruth Kikin-Gil** (Interaction Design Institute Ivrea, Italy)

Interaction of Animations with PDA for Learning in Museum

**Fusako Kusunoki, Takako Ymaguti, Hideki kaji** (Tama Art University, Japan), **Takuichi Nishimura** (National Institute of Advanced Industrial Science and Technology, Japan), **Kouji Yatani, Masanori Sugimoto** (University of Tokyo, Japan)

Eco pods: tangible User interfaces for early learning of Systems thinking

**Erez Kikin-Gil** (Interaction Design Institute Ivrea, Italy)

Support for Migration through Graphical and Vocal Interfaces in Multi-Device Environments

**Renata Bandelloni, Silvia Berti, Fabio Paternò** (ISTI-CNR, Italy)

A Method to Detect Emotion of Text for Automatic Reading System

**Toshimitu Tukamoto, Futoshi Sugimoto, Masahide Yoneyama** (Toyo University, Japan)

iSonic: Interactive Sonification for Geo-referenced Data Exploration for the Vision Impaired

**Haixia Zhao, Catherine Plaisant, Ben Shneiderman** (University of Maryland, USA), **Franco Delogu, Emanuele Pasqualotto, Massimiliano Palmiero, Marta Olivetti Belardinelli** (Università di Roma "La Sapienza", Italy)

The Shared Checklist: Reorganizing the User Experience Around Unified Activities

**Alex Cozzi, Tom Moran, Clemens Drews** (IBM Almaden Research Center, USA)

Room: Latini

**Panel**

Context and Emotion Aware Computing

**Nadia Bianchi-Berthouze** (University of Aizu, Japan), **Antonella De Angeli** (University of Manchester, UK), **Elisa Giaccardi** (University of Colorado, USA), **Christine Lisetti** (Institute Eurecom, France)

# Thursday 16:30-18:00

September 15, 2005

Room: Auditorium

**Session:** Social Interaction

**Chair:** Andrew Monk (University of York, UK)

Understanding Situated Social Interactions in Public Places

**Jeni Paay** (The University of Melbourne, Australia), **Jesper Kjeldskov** (Aalborg University, Denmark)

Benefits of Social Intelligence in Home Dialogue Systems

**Privender Saini**, **Panos Markopoulos** (Eindhoven University of Technology, The Netherlands), **Boris de Ruyter**, **Albert van Breemen** (Philips Research, The Netherlands)

Evolution of Norms in a Newly Forming Group

**Catalina Danis**, **Alison Lee** (IBM TJ Watson Research Center, USA)

Room: Accademia

**Organizational Overview**

**Chair:** Paolo Bottoni (Università di Roma "La Sapienza", Italy)

Putting People @ the Centre of Communication & Information Technologies (PACCIT) and the Challenges of Collaborative Research

**Anne H. Anderson** (University of Glasgow, UK)

Interactive Systems Design Group, Manchester, UK

**Alistair Sutcliffe** (University of Manchester, UK)

COST 294: A Usability Research Community

**Gilbert Cockton** (University of Sunderland, UK), **Ebba Hvannberg** (University of Iceland, Iceland), **Effie Law** (ETH Zürich, Switzerland), **Philippe Palanque** (Université Paul Sabatier, France), **Mark Springett** (University of Middlesex, UK), **Christian Stary** (University of Linz, Austria), **Jean Vanderdonckt** (Catholic University of Louvain, Belgium)

**Session:** Universal Access (short papers)

**Chair:** Paolo Bottoni (Università di Roma "La Sapienza", Italy)

The Design of an Authoring Interface to Make eLearning Content Accessible

**Silvia Gabrielli**, **Valeria Mirabella**, **Massimiliano Teso**, **Tiziana Catarci** (Università di Roma "La Sapienza", Italy)

Reducing the Risk of Abandonment of Assistive Technologies for People with Autism

**Peter Francis**, **Lucy Firth** (The University of Melbourne, Australia), **David Mellor** (Deakin University, Australia)

From Extraneous Noise to Categorizable Signatures: Using Multi-scale Analyses to Assess Implicit Interaction Needs of Older Adults with Visual Impairments

**Kevin P. Moloney**, **V. Kathlene Leonard**, **Bin Shi**, **Julie A. Jacko**, **Brani Vidakovic**, **François Sainfort** (Georgia Institute of Technology, USA)

Thursday 16:30-18:00

September 15, 2005

Room: Etruschi

**SIG**

Planes, Pains, and Phosphorane: Usability Studies in Non-Traditional Environments

**Kay H. Connelly, Katie A. Siek** (Indiana University, USA), **Valerie Lafond-Favieres, Gisele Bennett** (Georgia Institute of Technology, USA)

Room: Latini

**Session:** Multimodal Interfaces

**Chair:** Piero Mussio (Università di Milano, Italy)

A Comparison between Spoken Queries and Menu-based Interfaces for In-Car Digital Music Selection

**Clifton Forlines, Bent Schmidt-Nielsen, Bhiksha Raj, Kent Wittenburg, Peter Wolf** (Mitsubishi Electric Research Laboratories, USA)

A Sketching Tool for Designing Anyuser, Anyplatform, Anywhere User Interfaces

**Jean Vanderdonckt, Adrien Coyette** (Université Catholique de Louvain, Belgium)

FlowMouse: A Computer Vision-Based Pointing and Gesture Input Device

**Andrew D. Wilson, Edward Cutrel** (Microsoft Research, USA)

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18:30      Social Event

The social event will start with a guided tour of the National Gallery of Modern and Contemporary Art and will end up with a banquet at the Caffè delle Arti.

**Meeting Point: Main Entrance of the National Gallery at 18:30, Viale delle Belle Arti n. 131.**

# Notes

# Friday

September 16, 2005

9:00-10:00

Room: Auditorium

**Chair:** Maria Francesca Costabile (Università di Bari, Italy)

Invited Speaker

**Steven Pemberton** (CWI/W3C, The Netherlands)



Steven Pemberton is a researcher at the CWI, The Centre for Mathematics and Computer Science, a nationally-funded research centre in Amsterdam, The Netherlands, the first non-military Internet site in Europe.

Steven's research is in interaction, and how the underlying software architecture can support the user. At the end of the 80's he built with his group a system called Views that you would now call a browser, which included stylesheets, extensible markup, vector graphics, and client-side scripting. As a consequence, Steven got involved with the World Wide Web from the beginning, organising two workshops at the first World Wide Web Conference in 1994, chairing the first W3C Style Sheets workshop, and the first W3C Internationalisation workshop. He was a member of the CSS Working Group from its start, and is a

long-time member (now chair) of the HTML Working Group, and chair of the XForms Working Group. He is co-author of (amongst other things) HTML 4, CSS, XHTML and XForms. Steven was until recently Editor-in-Chief of ACM/interactions.

Friday 10:00-11:00

September 16, 2005

Room: Auditorium

**Session:** Context of Use

**Chair:** Luca Chittaro (Università di Udine, Italy)

Context of Use Evaluation of Peripheral Displays (CUEPD)

**N. Sadat Shami, Gilly Leshed, David Klein** (Cornell University Information Science Program, USA)

Improving Cell Phone Awareness by Using Calendar Information

**Ashraf Khalil, Kay H. Connelly** (Indiana University, USA)

Room: Accademia

**Session:** 3D and Virtual Environments

**Chair:** Monique Noirhomme (Faculté Universitaire de Notre Dame de la Paix, Belgium)

Evaluation of 12-DOF Input Devices for Navigation and Manipulation in Virtual Environments

**Anke Huckauf, Alexander Speed, André Kunert, Jan Hochstrate, Bernd Fröhlich** (Bauhaus-University Weimar, Germany)

Integration of 3D Data and Text: The Effects of Text Positioning, Connectivity, and Visual Hints on Comprehension

**Henry Sonnet, Thomas Strothotte** (University of Magdeburg, Germany), **Sheelagh Carpendale** (University of Calgary, Canada)

Room: Etruschi

**Session:** Tools (short papers)

**Chair:** Morten Borup Harning (Dialogical ApS, Denmark)

Supporting Efficient and Reliable Content Analysis using Automatic Text Processing Technology

**Gahgene Gweon, Carolyn Penstein Rosé** (Carnegie Mellon University, USA), **Joerg Wittwer, Matthias Nueckles** (Universitaet Freiburg, Germany)

Multi-platform Online Game Design and Architecture

**JungHyun Han, Ingu Kang, Chungmin Hyun** (Korea University, Korea), **Jong-Sik Woo** (Korea Game Development and Promotion Institute Ministry of Culture and Tourism, Korea), **Young-Ik Eom** (Sungkyunkwan University, Korea)

Segment and Browse: A Strategy for Supporting Human Monitoring of Facial Expression Behaviour

**Michael J. Lyons, Mathias Funk, Kazuhiro Kuwabara** (ATR Intelligent Robotics & Communication Laboratories, Japan)

iDwidgets: Parameterizing Widgets by User Identity

**Kathy Ryall, Alan Esenther, Clifton Forlines, Chia Shen, Sam Shipman** (Mitsubishi Electric Research Laboratories, USA), **Katherine Everitt** (University of Washington, USA), **Meredith Ringel Morris** (Stanford University, USA), **Frédéric Vernier** (University of Paris 11, LIMSI-CNRS, France)

Room: Latini

**Session:** Computer Supported Cooperative Work (CSCW)

**Chair:** John Karat (IBM T.J. Watson Research Center, USA)

The Effect of Operational Mechanisms on Creativity in Design

**Andy Warr, Eamonn O'Neill** (University of Bath, UK)

The Necessity of a Meeting Recording and Playback System, and the Benefit of Topic-Level Annotations to Meeting Browsing

**Satanjeev Banerjee, Carolyn Penstein Rosé, Alexander I. Rudnicky** (Carnegie Mellon University, USA)

Friday 11:30-13:00

September 16, 2005

Room: Auditorium

**Session:** Understanding Users

**Chair:** Antonella De Angeli (University of Manchester, UK)

Key Issues in Interactive Problem Solving: An Empirical Investigation on Users Attitude

**Gabriella Cortellessa, Vittoria Giuliani, Massimiliano Scopelliti, Amedeo Cesta** (ISTC-CNR, Italy)

Designing Natural Language and Structured Entry Methods for Privacy Policy Authoring

**John Karat, Clare-Marie Karat, Carolyn Brodie** (IBM T.J. Watson Research Center, USA),  
**Jinjuan Feng** (University of Maryland Baltimore County, USA)

Questionnaire-Based Research on Opinions of Visitors for Communication Robots at an Exhibition in Japan

**Tatsuya Nomura** (Ryukoku University and ATR Intelligent Robotics and Communication Laboratories, Japan), **Takugo Tasaki** (ATR Intelligent Robotics and Communication Laboratories and Hannan University, Japan), **Takayuki Kanda, Masahiro Shiomi, Hiroshi Ishiguro, Norihiro Hagita** (ATR Intelligent Robotics and Communication Laboratories, Japan)

Room: Accademia

**Session:** Interface Design

**Chair:** Jan Gulliksen (Uppsala University, Sweden)

A Toolset for Creating Iconic Interfaces for Interactive Workspaces

**Jacob T. Biehl, Brian P. Bailey** (University of Illinois, USA)

Designing Usable Interfaces with Cultural Dimensions

**Gabrielle Ford** (University of Kwa-Zulu Natal, South Africa), **Paula Kotzé** (University of South Africa, South Africa)

Use of Future-Oriented Information in User-Centered Product Concept Ideation

**Antti Salovaara** (Helsinki Institute for Information Technology, Finland), **Petri Mannonen** (Helsinki University of Technology, Finland)

Room: Etruschi

**Session:** Eye-tracking

**Chair:** Gerrit van der Veer (Vrije Universiteit, The Netherlands)

Wide vs. Narrow Paragraphs: An Eye Tracking Analysis

**David Beymer, Daniel M. Russell** (IBM Almaden Research Center, USA), **Peter Z. Orton** (IBM On Demand Learning, USA)

Combining Eye Tracking and Conventional Techniques for Indications of User-Adaptability

**Ekaterini Tzanidou, Marian Petre, Shailey Minocha** (The Open University, UK), **Andrew Grayson** (Nottingham Trent University, UK)

RealTourist - A Study of Augmenting Human-Human and Human-Computer Dialogue with Eye-Gaze Overlay

**Pernilla Qvarfordt** (Linköping University, Sweden), **David Beymer, Shumin Zhai** (IBM Almaden Research Center, USA)

Room: Latini

**Session:** Video Browsing

**Chair:** Catherine Plaisant (University of Maryland, USA)

A Synergistic Approach to Efficient Interactive Video Retrieval

**Andreas Girgensohn, John Adcock, Matthew Cooper, Lynn Wilcox** (FX Palo Alto Laboratory, USA)

The Landscape of Time-based Visual Presentation Primitives for Richer Video Experience

**Yasuhiro Yamamoto, Kumiyo Nakakoji** (University of Tokyo, Japan), **Akio Takashima** (Hokkaido University, Japan)

Temporal Magic Lens: Combined Spatial and Temporal Query and Presentation

**Kathy Ryall, Alan Esenther** (Mitsubishi Electric Research Laboratories, USA), **Qing Li** (Mitsubishi Electric Research Laboratories, USA and Virginia Tech Dept. of Computer Science, USA)

# Friday 14:30-16:30

September 16, 2005

Room: Auditorium

**Session:** Usability Evaluation and User Studies

**Chair:** Nikolaos Avouris (University of Patras, Greece)

Logging Events Crossing Architectural Boundaries (full paper)

**Gregory S. Hartman, Len Bass** (Carnegie Mellon University, USA)

Rater Bias: The Influence of Hedonic Quality on Usability Questionnaires

**Stefanie Harbich, Sonja Auer** (Siemens AG, CT IC 7, Germany)

Towards the Maturation of IT Usability Evaluation (MAUSE)

**Effie L-C Law** (ETH Zürich, Switzerland), **Ebba T. Hvannberg** (University of Iceland, UK), **Gilbert Cockton** (University of Sunderland, UK), **Philippe Palanque** (Université Paul Sabatier, France), **Dominique Scapin** (INRIA Rocquencourt, France), **Mark Springett** (University of Middlesex, UK), **Christian Stary** (University of Linz, Austria), **Jean Vanderdonck** (Catholic University of Louvain, Belgium)

An X-ray of the Brazilian e-Gov Web Sites

**Cristiano Maciel, José Luiz T. Nogueira, Ana Cristina Bicharra Garcia** (Universidade Federal Fluminense, Brazil)

An Experiment to Measure the Usefulness of Patterns in the Interaction Design Process

**Lester Cowley, Janet L. Wesson** (Nelson Mandela Metropolitan University, South Africa)

Testing New Alarms for Medical Electrical Equipment

**Alexandra Wee, Penelope Sanderson** (The University of Queensland, Australia)

Collaboration with DiamondTouch

**Stephen G. Kobourov, Kyriakos Pavlou, Justin Cappos, Michael Stepp, Mark Miles, Amanda Wixted** (University of Arizona, USA)

Room: Accademia

**Session:** Visualization Techniques

**Chair:** Tiziana Catarci (Università di Roma "La Sapienza", Italy)

Representing Unevenly-Spaced Time Series Data for Visualization and Interactive Exploration

**Aleks Aris, Ben Shneiderman, Catherine Plaisant** (University of Maryland, USA), **Galit Shmueli, Wolfgang Jank** (Robert H. Smith School of Business, USA)

Multilevel Compound Tree - Construction Visualization and Interaction

**François Boutin, Mountaz Hascoët** (LIRMM – CNRS, France) **Jérôme Thièvre** (INA, France)

Visualizing Missing Data: Graph Interpretation User Study

**Cyntrica Eaton, Catherine Plaisant** (University of Maryland, USA), **Terence Drizd** (National Center for Health Statistics, USA)

High-Level Visualization of Users' Navigation in Virtual Environments

**Lucio Ieronutti, Roberto Ranon, Luca Chittaro** (Università di Udine, Italy)

Friday 14:30-16:30

September 16, 2005

Room: Etruschi

**Session:** Location and Context Awareness

**Chair:** Carmen Santoro (ISTI-CNR, Italy)

The Territory is the Map: Exploring the Use of Landmarks in Situ to Inform Mobile Guide Design

**Nicola J. Bidwell** (James Cook University, Australia), **Jeff Axup** (University of Queensland, Australia)

How Do People's Concepts of Place Relate to Physical Locations?

**Changqing Zhou, Pamela Ludford, Dan Frankowski, Loren Terveen** (University of Minnesota, USA)

Technology in Place: Dialogics of Technology, Place and Self

**John McCarthy** (University College Cork, Ireland), **Peter Wright** (University of York, UK)

Interaction and End-User Programming with a Context-Aware Mobile Application

**Jonna Häkkinen, Sami Ronkainen, Urpo Tuomela** (Nokia Multimedia, Finland), **Panu Korpipää** (VTT Electronics, Finland)

Room: Latini

**Panel**

Trust and Incidental Interaction: Would You Let a Talking Paper Clip Run YOUR Home?

**Gordon Baxter, Andrew Monk** (University of York, UK), **Alan Dix** (Lancaster University, UK), **Albrecht Schmidt** (University of Munich, Germany), **Norbert Streitz** (Fraunhofer, IPSI Darmstadt, Germany)

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16:30-17:00

Room: Auditorium

**Closing session**

# Exhibitors

In addition to the presentations and demonstrations, INTERACT 2005 is hosting an exhibition in which will provide a forum for industrial vendors, such as some of our sponsors, to display and demonstrate their latest hardware and software tools and services. The exhibition will also give participants the opportunity to view the latest in traditional and electronic publishing in our subject areas.

The exhibition will be situated around the conference site. Participants can browse the exhibit between conference sessions, as well as make dedicated appointments to view items of interest.



# INTERACT 2005 Organisation

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Stefano Levialdi  
*University of Roma, Italy*

### Conference Co-Chairs

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Fabio Paternò, *ISTI-CNR, Italy*

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 Mäntyjärvi, Jani - *Finland*  
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 Martens, Jean-Bernard - *The Netherlands*  
 Matousek, Vaclav - *Czech Republic*  
 Mayora, Oscar - *Mexico*  
 McCrickard, Scott - *USA*  
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 Nicolle, Colette - *United Kingdom*  
 Nigay, Laurence - *France*  
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 Noldus, Lucas - *The Netherlands*  
 Nunes, Nuno - *Portugal*  
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 Oppermann, Reinhard - *Germany*  
 Palanque, Philippe - *France*  
 Panizzi, Emanuele - *Italy*  
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 Perez, Manuel - *USA*  
 Pino, Jose A. - *Chile*  
 Pittarello, Fabio - *Italy*  
 Plaisant, Catherine - *USA*  
 Polillo, Roberto - *Italy*  
 Pribeanu, Costin - *Romania*  
 Pu, Pearl - *Switzerland*  
 Puerta, Angel - *USA*  
 Qvarfordt, Pernilla - *Sweden*  
 Ranon, Roberto - *Italy*  
 Rauterberg, Matthias - *The Netherlands*  
 Rist, Thomas - *Germany*  
 Roselli, Teresa - *Italy*  
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 Santucci, Giuseppe - *Italy*  
 Savidis, Anthony - *Greece*  
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 Sutcliffe, Alistair - *United Kingdom*  
 Thalmann, Nadia - *Switzerland*  
 Thiran, Jean-Philippe - *Switzerland*  
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 Tortora, Genny - *Italy*  
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 Väänänen-Vainio-Mattila, Kaisa - *Finland*  
 Van der Veer, Gerrit - *The Netherlands*  
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 Vitiello, Giuliana - *Italy*  
 Wesson, Janet - *South Africa*  
 Winckler, Marco Antonio - *France*  
 Wittenburg, Kent - *USA*  
 Wright, Peter - *United Kingdom*  
 Wulf, Volker - *Germany*  
 Zancanaro, Massimo - *Italy*  
 Ziegler, Jürgen - *Germany*

# IFIP TC13

Established in 1989, the International Federation for Information Processing Technical Committee on Human-Computer Interaction (IFIP TC13) is an international committee of 29 member national societies and 5 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. The next INTERACT conference, INTERACT 2005, will be held September 12-16 in Rome, Italy.

IFIP TC13 aims to develop a science and technology of human-computer interaction 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, co-operating with other groups, inside and outside IFIP, to promote user-orientation and "humanisation" in system design. Thus, TC13 seeks to improve interactions between people and computers, encourage the growth of HCI research and disseminate these benefits world-wide.

The main orientation is towards users, especially the non-computer professional users, and how to improve human-computer relations between them. Areas of study include: the problems people have with computers; the impact on people in individual and organisational 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 harmonising the computer to user characteristics and needs.

While the scope is thus set wide, with a tendency towards 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 multi-media systems to match system needs and organizational practices, etc.).

IFIP TC13 stimulates working events and activities through its Working Groups. 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:

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-centred approach in the design and use of information technology in which the human and social implications have been taken into account. Since the process to decide the award takes place after papers are submitted for publication, the award is not identified in the Proceedings.

**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;

**WG13.5 (Human Error, Safety and 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 enables user studies to procure a better apprehension of the complex interplay between individual, social and organisational contexts and thereby a better understanding of how and why people work in the ways that they do.

New Working Groups are formed as areas of significance to HCI arise.

Further information is available at the IFIP TC13 website: <http://www.ifip-hci.org/>

# IFIP TC13 Members

## **Australia**

Judy Hammond  
*Australian Computer Society*

## **Austria**

Tom Gross  
*Austrian Computer Society*

## **Belgium**

Monique Noirhomme-Fraiture  
*Federation des Associations Informatiques de Belgique*

## **Brazil**

Cecilia Baranauskas  
*Brazilian Computer Society*

## **Canada**

Gitte Lindgaard  
*Canadian Information Processing Society*

## **China**

Zhengjie Liu  
*Chinese Institute of Electronics*

## **Czech Republic**

Vaclav Matousek  
*Czech Society for Cybernetics and Informatics*

## **Denmark**

Annelise Mark Pejtersen (TC 13 Chair)  
*Danish Federation for Information Processing*

## **Finland**

Kari-Jouko Räihä  
*Finnish Information Processing Association*

## **France**

Philippe Palanque  
*Societe des electriciens et des electroniciens*

## **Germany**

Horst Oberquelle  
*Gesellschaft für Informatik*

## **Greece**

John Darzentas  
*Greek Computer Society*

## **India**

Mathura P. Thapliyal  
*Computer Society of India*

## **Italy**

Fabio Paternò  
*Italian Computer Society*

## **Japan**

Masaaki Kurosu  
*Information Processing Society of Japan*

## **The Netherlands**

Gerrit van der Veer  
*Nederlands Genootschap voor Informatica*

## **New Zealand**

Mark Apperley  
*New Zealand Computer Society*

## **Norway**

Svein A. Arnesen  
*Norwegian Computer Society*

## **Poland**

Julius L. Kulikowski  
*Polish Academy of Sciences*

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*Associação Portuguesa de Informática*

## **Singapore**

Kee Yong Lim  
*School of MAE, Nanyang Technological University*

## **Slovenia**

Mirko Vintar  
*Slovenian Society Informatika*

## **South Africa**

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

## **Spain**

Julio Abascal  
*Asociación de Técnicos de Informática (ATI)*

## **Sweden**

Lars Oestreicher  
*Swedish Interdisciplinary Society for Human-Computer Interaction*

## **Switzerland**

Markus Stolz  
*Swiss Federation of Information Processing Societies*

## **UK**

Gilbert Cockton  
*The British Computer Society*

## **USA-based**

John Karat  
*Association for Computing Machinery*

## **USA-based**

Nahum Gershon  
*IEEE Computer Society*

## **Working Group Chairpersons**

### **WG13.1 (Education in HCI and HCI Curricula)**

Paula Kotze, *South Africa*

### **WG13.2 (Methodology for User-Centred System Design)**

Jan Gulliksen, *Sweden*

### **WG13.3 (HCI and Disability)**

Monique Noirhomme, *Belgium*

### **WG13. 4 (also WG2.7) (User Interface Engineering)**

Morten Borup Harning, *Denmark*

### **WG13.5 (Human Error, Safety and System Development)**

Phillipe Palanque, *France*

### **WG13.6 (Human-Work Interaction Design)**

Annelise Mark Pejtersen, *Denmark*

# General Information

## Registration & Information Desk

The registration and information desk will be located:

Monday and Tuesday morning at the entrance from Viale di Porta Tiburtina n. 40 (only for Workshop and Tutorial registrations).

The desk is open from 8:00 to 13:00 and from 14:00 to 18:30.

Tuesday afternoon at the entrance in Via dei Frentani n. 4 (for conference registrations).

The desk is open from 15:30 to 18:30.

Wednesday at the entrance in Via dei Frentani n. 4.

The desk is open from 8:00 to 13:00 and from 14:00 to 18:30.

Thursday and Friday at the entrance in Via dei Frentani n. 4.

The desk is open from 8:30 to 13:00 and from 14:00 to 18:00.

## Coffee & Lunch Breaks

Coffee breaks will be everyday but Wednesday from 11:00 to 11:30 and from 16:00 to 16:30. On Wednesday, the morning break will be from 10:30 to 11:00. Coffee, tea, beverages and pastries will be offered.

Lunch breaks will be everyday from 13:00 to 14:30. Lunch is served in the restaurant at the second floor below street level for participants who bought the lunch tickets.

Several bars and restaurants are around Frentani Congress Center.

## Internet Access

Internet free access for INTERACT 2005 participants is available via wireless connection in all Frentani Congress Center but rooms Mascagni, Puccini, Rossini, Vivaldi.

Furthermore, two terminals with free access are located in the Internet room at second floor below street level, where some LAN connections are also available for personal laptops.

## Badge

It is very important that participants always wear the badge during the conference so that there is no problem to enter a session or a room. Badge is also necessary at the social events.

## Access for People with Disabilities

All rooms and important places for participants of the conference are accessible for people with wheelchairs. Please contact the information desk if any special help is needed.

## Information on Roma

Roma, the capital of Italy, has a long tradition of hosting scientific conferences. Roma also hosts National and International Research Centers as well as Cultural Heritage locations like the Roman Forum, the Colisseum, the Vatican State with Saint Peter and a large number of beautiful churches and wonderful fountains and squares.

INTERACT has never been hosted in a Mediterranean country. The location of Roma (Italy) can stimulate the participation from less favoured countries where some interest on HCI has arisen, such as East European countries and North African countries.

## Transportation within Roma

Numerous bus lines connect all areas of the city, including the area of the Conference. The underground ("Metro") has two lines, Linea "A" (red) and Linea "B" (blue). These intersect at Termini so you have to pass through Termini when you need to switch line. Tickets are valid for 75 minutes of travel, and can be used for one underground journey and unlimited bus travel. They can be purchased at tobacco shops ("Tabacchi"), bars, news stands and machines in stations. The driver does not sell tickets. Daily and weekly tickets are also available.

Ticket cost (valid for 75 minutes): Euro 1

## How to Reach Roma

### **By Air**

"Leonardo da Vinci" intercontinental airport, located in Fiumicino, provides travellers with the most modern services and facilities. The centre of Roma can be easily reached from the airport by bus, train or taxi.

#### *Trains from the airport:*

Leonardo da Vinci - Roma Termini (Central) Railway Station

Duration: 30 minutes.

Non-stop trains leave every 30 minutes.

Ticket cost: Euro 9.50

Leonardo da Vinci - Roma Tiburtina Railway Station (and other stations)

Duration: 40 minutes.

Trains leave every 15 minutes during the weekdays and Saturdays and every 30 minutes on Sundays, making stops in different areas of the city.

Ticket cost: Euro 5

Taxis and limousines are available at the international arrivals area.

Taxi approximate price: Euro 40.

### **By Train**

Roma is at the heart of the Italian railway network. Excellent Intercity service from Termini Railway Station links Roma to every major city in Europe.

### **By Road**

Italy has several modern motorways, which reach all regions of the country. Roma can easily be reached by car from the "Autostrada del Sole - A1", the longest Italian motorway running along the peninsula from north to south.

## Climate

September is generally warm and sunny in Roma. Temperatures may reach 25°C (77°F) during the day but are cooler in the evening.

## Shopping

The streets of the historic centre of Roma - the famous Spanish Steps, Via Condotti, Via Frattina, Via della Croce, Via Borgognona and, of course, Via Veneto - boast the workshops of Italy's foremost and world renowned fashion creators along with glamorous shops, all bearing the unmistakable mark "Made in Italy". Via Margutta and Via del Babuino abound with privately owned artists' studios and restoration workshops. Galleries can be found almost everywhere along the side streets, such as Via dei Coronari, one of the most picturesque streets in Roma, which also hosts numerous antique dealers. Shops are usually open from Monday to Saturday, from 9:00 to 13:00 and from 16:00 to 19:30. However, several shops in the center are open from 10:00 to 19:00. Most shops are closed on Sunday and Monday morning.

## Currency

The official currency in Italy is the Euro.

## Banks and Exchange

Banks are open from Monday to Friday, usually from 8:30 am to 13:30 and from 15:00 to 16:00. Some banks might be open at lunch time. Money can also be changed at the airport, in exchange desks located across the city and at the main railway station (Termini) on Saturdays and Sundays. Most hotels, restaurants and shops accept foreign currency and major credit cards. ATMs are located throughout the city.

## Telephone

Public phones are available on almost every street corner. Most phones only accept telephone cards or some new-type credit cards. Call charges depend on the time of day and provider. Usually, peak time is 8:00 to 18:00 on working days.

The international code for Italy is 39. To make an international call from Italy start with 00 and add the complete international phone number, i.e. country code, city code, recipient local number (example: 00-33-(0)1-234567).

## Italian Time and Date

Roma is located in the Middle European Time Zone, GMT+1. However during the Conference we will be in summer (or "legal") time, i.e. GMT+2.

In Italy all dates are written: day, month, year (thus 5/9/05 means 5th September 2005).

## Electricity

The electricity supply is **220 volts, 50 Hz**. Foreign appliances may require an adapter.

## Tips

Prices include service in bars and restaurants, but tips are always welcome.

# Social Program

## Welcome reception

The INTERACT 2005 Welcome Reception will take place on Tuesday 13 at 19:00 at the terrace of Palazzo Caffarelli, on the highest point of the Campidoglio. This beautiful palace offers breathtaking views of Rome.

**How to reach Palazzo Caffarelli:** From Piazza Venezia, climb the stairs "Scalinata di Campidoglio" and take the first right into Via delle Tre Pile. Pass under an arch and **at number 4, Piazza Caffarelli**, climb two flights of stairs to reach the terrace. Several buses stop in Piazza Venezia. The closest metro station is Colosseo Station of Metro line B.

## Social Event

The INTERACT 2005 social event will be held at the **National Gallery of Modern and Contemporary Art**. You can enjoy the unique experience of having an entire Italian Museum at our own disposal!

The social event will start with a guided tour of the Gallery, which includes masterpieces by Picasso, Mondrian, Pollock, Modigliani, Giacometti, Moore, Burri, Sironi, Carrà, Kilmnt, Capogrossi, Fontana, De Chirico, Boccioni, Pomodoro, Manzù, Balla, Van Gogh, Monet, and many others, and will end up with a banquet at the Caffè delle Arti.

The National Gallery of Modern and Contemporary Art is located in **Viale delle Belle Arti n. 131** and is easily reachable by buses n. 225, 628, 926 and tram n. 3, or by a very pleasant walk through **Villa Borghese**.

## Tours and Excursions

INTERACT 2005 participants may ask at the information desk.

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## Useful Numbers

### Emergency numbers

Emergency public assistance: 113

Carabinieri (military police): 112

First aid: 118

Fire brigade: 115

Breakdown assistance (Automobile Club of Italy): 803116

### Trains

Trenitalia information: 892021

### Taxi Cabs

La Capitale: 06 49 49

Cooperative Radiotaxi: 06 35 70

Pronto Taxi: 06 66 45

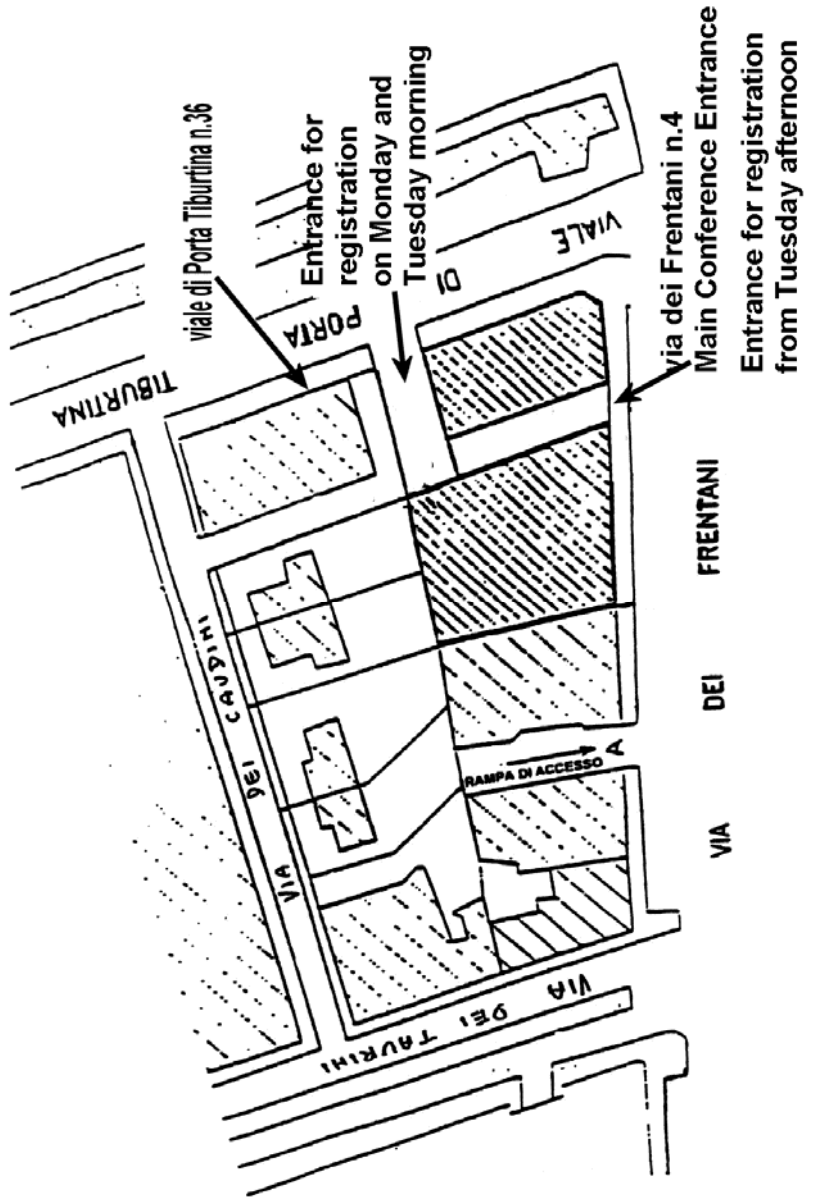
Tevere: 06 41 57

Cosmo: 06 88 177

# Notes

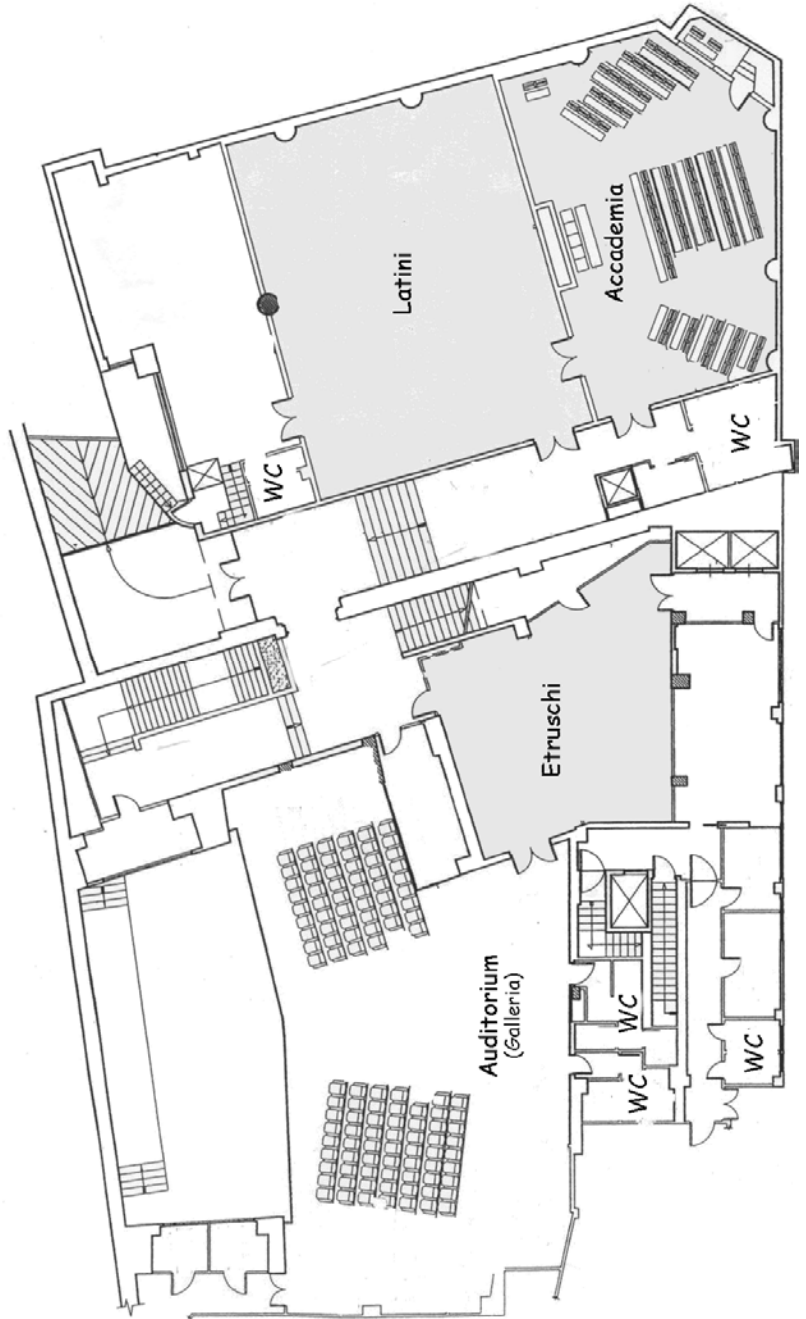


# Frentani Congress Center Entrances



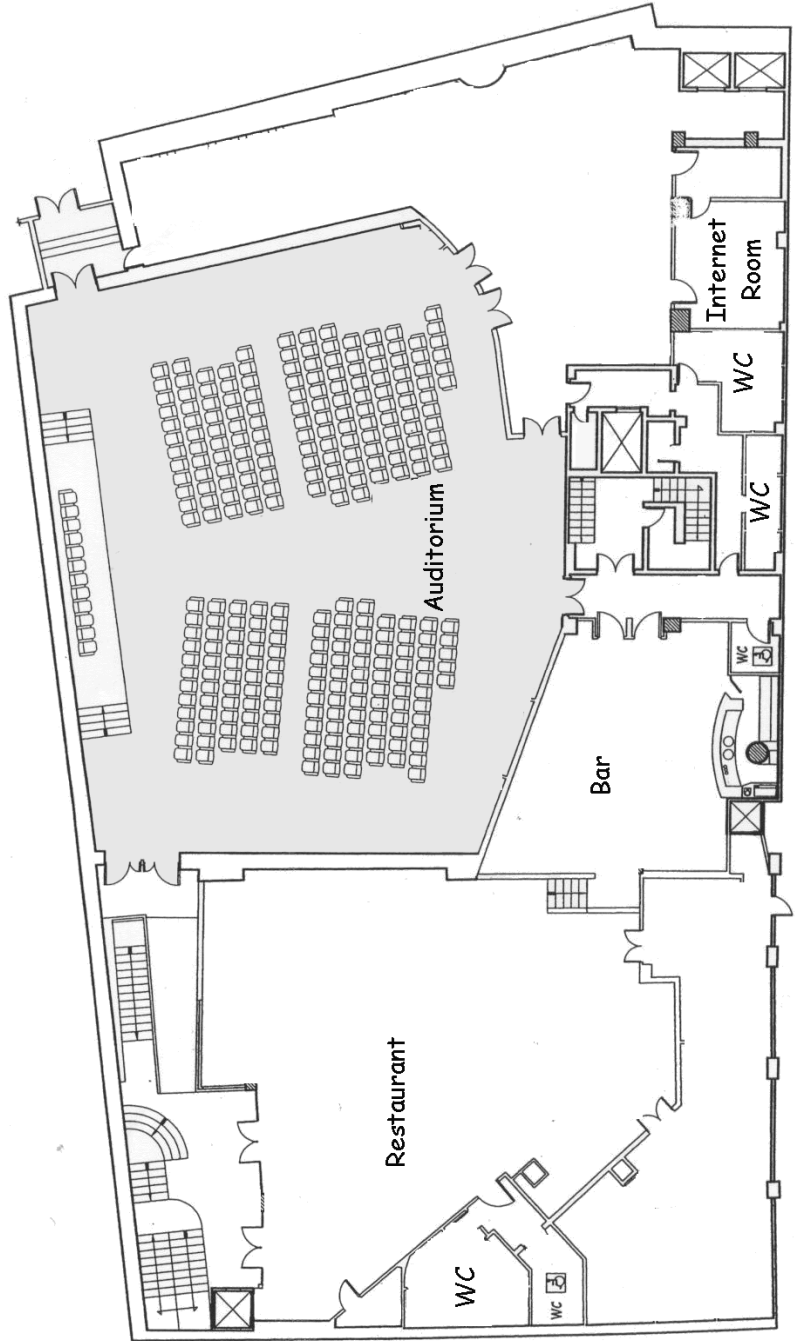
# Frentani Congress Center

First floor below street level



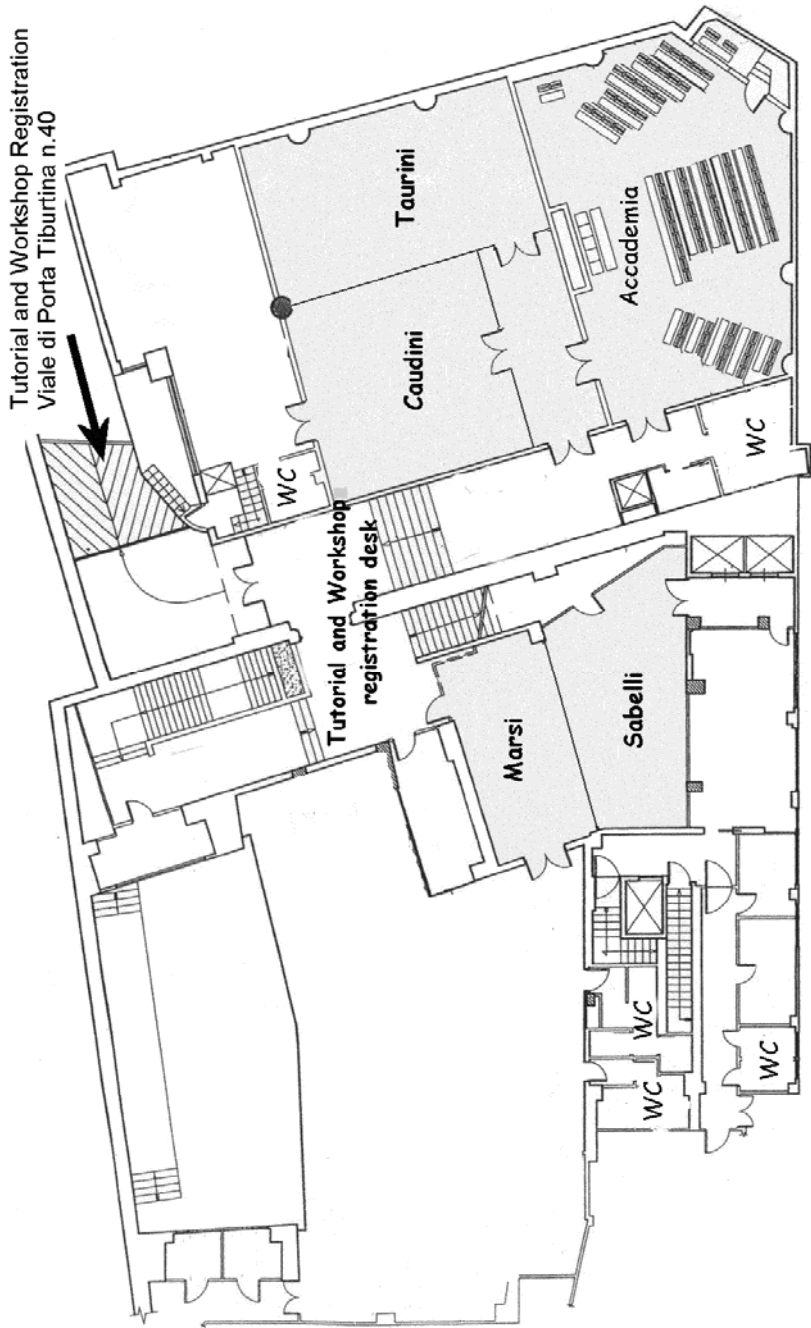
# Frentani Congress Center

Second floor below street level



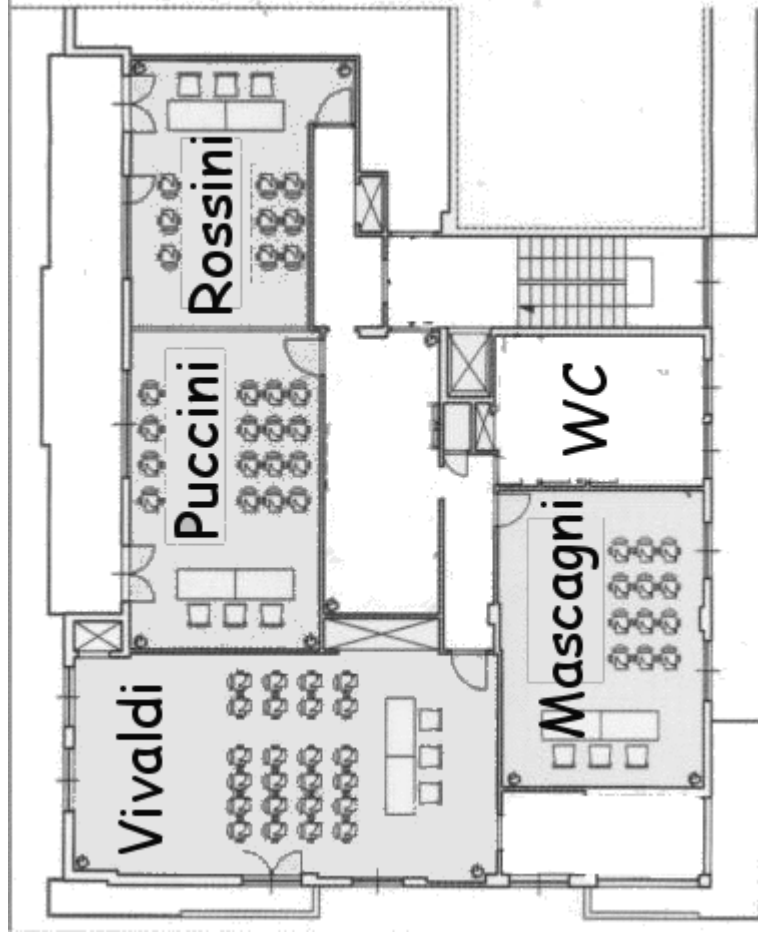
# Frentani Congress Center

Rooms for Workshops: WS1, WS4, WS5, WS6, WS7, WS9, WS10, WS13  
First floor below street level



# Frentani Congress Center

Rooms for Workshops: WS3, WS11, WS12, WS14  
and for Tutorials: T1, T3, T4, T9, T11  
Viale di Porta Tiburtina n. 36, third floor



## Sponsors



INTERACT 2005 is under the patronage of Comune di Roma