



## Program - Wednesday 12<sup>th</sup> October

09:00 - 09:30 Registration

09:30 - 10:00 **Welcome** : Paul Jacquet - *President of the National Polytechnic Institute of Grenoble (France)*

10:00 - 11:00 **Invited speaker** : Alex Waibel (*Germany*) - "**CHIL Computing to Overcome Techno-Clutter**"

11:00 - 11:20 Pause

11:20 - 12:30 **Oral session** : **New interaction devices**

- Lauri Pohjanheimo, Heikki Keränen, Heikki Ailisto (*Finland*) - "**Implementing TouchMe Paradigm with a Mobile Phone**"
- Panikos Heracleous, Yoshitaka Nakajima, Hiroshi Saruwatari, Kiyohiro Shikano (*Japan*) - "**A tissue-conductive acoustic sensor applied in speech recognition for privacy**"
- Jamie A. Ward, Paul Lukowicz, Gerhard Tröster (*Switzerland*) - "**Gesture Spotting Using Wrist Worn Microphone and 3-Axis Accelerometer**"
- Xiaojun Bi, Yuanchun Shi, Xiaojie Chen, Peifeng Xiang (*China*) - "**Facilitating Interaction with Large Displays in Smart Spaces**"

12:30 - 14:00 Lunch

14:00 - 16:00 **Invited session** : **RFID Technology** - *organized by Joël Dansou-Eloi (France)*

- *Target Speaker* : Dominique Paret (*France*) - "**Technical State of Art of 'Radio Frequency Identification - RFID' and implications regarding standardization, regulations, human exposure, privacy**"
- François Vacherand (*France*) - "**New Technologies for Contactless Microsystems**"
- Smail Tedjini, Tan-Phu Vuong, Vincent Beroulle (*France*) - "**Antennas for RFID tags**"
- Raghu Das (*UK*) - "**Chip versus chipless for RFID applications**"
- Anne Blayo, Bernard Pineaux (*France*) - "**Printing Processes and their Potential for RFID Printing**"

16:00 - 16:30 **Poster session** : **Context-aware systems**

- Alfonso Gárate, Nati Herrasti, Antonio López (*Spain*) - "**GENIO : An Ambient Intelligence application in home automation and entertainment environment**"
- Stephan Raidt, Gérard Bailly, Frédéric Elisei (*France*) - "**Basic components of a Face-to-Face interaction with a Conversational Agent : Mutual Attention and deixis**"
- Carlos Bento, Nuno Gil (*Portugal*) - "**Text Input Disambiguation Supported on a Hierarchical User Model**"
- Oliver Brdiczka, Patrick Reignier, James L. Crowley (*France*) - "**Supervised Learning of an Abstract Context Model for an Intelligent**"
- Eleni Christopoulou, Christos Goumopoulos, Achilles Kameas (*Greece*) - "**An ontology-based context management and reasoning process for UbiComp**"
- Thomas Heider, Thomas Kirste (*Germany*) - "**Multimodal Appliance Cooperation based on Explicit Goals : Concepts & Potentials**"
- Alessandro Saffiotti, Mathias Broxvall (*Sweden*) - "**Peis Ecologies : Ambient Intelligence meets Autonomous Robotics**"

16:30 - 17:00 Pause + Posters

17:00 - 18:00 **Oral session** : **Usage and case studies**

- Carsten Röcker, Norbert Streitz, Maddy D. Janse (*Germany*), Nathalie Portolan (*France*) - "**User Requirements for Intelligent Home Environments : A Scenario-Driven Approach and Empirical Cross-Cultural Study**"
- Fabrice Forest (*France*), Leena Arhippainen (*Finland*) - "**Social acceptance of proactive mobile services : observing and anticipating cultural aspects by a Sociology of User Experience method**"
- Elise van den Hoven, Berry Eggen (*The Netherlands*) - "**Personal souvenirs as Ambient Intelligent objects**"
- Jan M.V. Misker, Jasper Lindenberg, Mark A. Neerinx (*The Netherlands*) - "**Users Want Simple Control over Device Selection**"

20:00 ... **Gala dinner** - "La Taverne" (*access map page 11*)



09:00 - 10:00 **Invited speaker** : Emile AARTS (*The Netherlands*) - "Ambient Intelligence : Visualising the Future"

10:00 - 10:20 Pause

10:20 - 11:30 **Oral session** : Smart environments and multimodal interaction

- Peter Ford Dominey (*France*), Alfredo Weitzenfeld (*Mexico*) - "Levels of Interaction Allowing Humans to Command, Interrogate and Teach a Communicating Object : Lessons Learned From Two Robotic Platform"
- Fahim Kawsar, Kaori Fujinami, Tatsuo Nakajima (*Japan*) - "Augmenting Everyday Life with Sentient Artefacts"
- Albrecht Schmidt, Matthias Kranz, Paul Holleis (*Germany*) - "Interacting with the Ubiquitous Computer-Towards Embedding Interaction"
- Christian Elting (*Germany*) - "Orchestrating Output Devices - Planning Multimedia Presentations for Home Entertainment with Ambient Intelligence"

11:30 - 12:30 **Oral session** : Analyzing users activities

- Tâm Huynh, Bernt Schiele (*Germany*) - "Analyzing Features for Activity Recognition"
- Soumya Hamlaoui, Franck Davoine (*France*) - "Facial action tracking using particle filters and active appearance models"
- Sonja Gievska, John Sibert (*USA*) - "Using Task Context Variables for Selecting the Best Timing for Interrupting"

12:30 - 14:00 Lunch

14:00 - 16:00 **Invited session** : Everyday Robotics - organized by Frédéric Kaplan (*France*)

- *Target speaker* : Frédéric Kaplan (*France*) - "Everyday robotics : robots as everyday objects"
- Sara Ljungblad, Lars Erik Holmquist (*Sweden*) - "Designing Robot Applications For Everyday Environments"
- Patrizia Marti, Leonardo Giusti, Alessandro Pollini, Alessia Rullo (*Italy*) - "Experiencing the flow : design issues in human-robot interaction"
- Jean-Christophe Baillie (*France*) - "Universal Programming Interfaces for Robotic Devices"
- Rachid Alami, Aurélie Clodic, Vincent Montreuil, Emrah Akin Sisbot, Raja Chatila (*France*) - "Task planning for Human-Robot Interaction"

16:00 - 16:30 **Poster session** : Embedded technologies

- Ghislain Despesse, Jean-Jacques Chaillout, Thomas Jager, Jean-Michel Léger, Apostol Vassilev Skandar Basrou, Benoît Charlot (*France*) - "High Damping Electrostatic System For Vibration Energy Scavenging"
- Yasser Ammar, Aurélien Buhrig, Marcin Marzencki, Benoît Charlot, Skandar Basrou, Marc Renaudin (*France*) - "Wireless sensor network node with asynchronous architecture and vibration harvesting micro power generator"
- Michael Bocquet, Christophe Loyez, Aziz Benlarbi-Delai (*France*) - "Millimeter wave up-converted UWB based positioning system"
- Sylvain Bacquet, Hélène Rouault, Hélène Lhermet, Elisabeth Crochon, Hélène Lignier, Sébastien Martinet, Michel Martin, Laurent Sourgen (*France*) - "PEACPocket : a technological demonstrator for future multimedia smart card"
- Ali Asghar Nazari Shirehjini, Felix Klar (*Germany*) - "3DSim : Rapid Prototyping Ambient Intelligence"

16:30 - 17:00 Pause + Posters

17:00 - 18:00 **Oral session** : Reconfigurability and location-based services

- Giulio Mori, Fabio Paternò (*Italy*) - "Automatic Semantic Platform-dependent Redesign"
- Joëlle Coutaz, Stanislaw Borkowski, Nicolas Barralon (*France*) - "Coupling Interaction Resources : an Analytical Model"
- Simon Dobson (*Ireland*) - "Leveraging the subtleties of location"
- Ichiro Satoh (*Japan*) - "A Location Model for Ambient Intelligence"

19:00... **Reception** - Town Hall of Grenoble (*access map page 11*)



## Program - Friday 14<sup>th</sup> October

09:00 - 10:00 **Invited speaker** : Hans Gellersen (*UK*) - "Cooperative Systems of Physical Objects"

10:00 - 10:20 Pause

10:20 - 11:30 **Oral session** : **Middleware**

- Michael Hellenschmidt (*Germany*) - "Distributed Implementation of a Self-Organizing Appliance Middleware"
- Ali Asghar Nazari Shirehjini (*Germany*) - "A Generic UPnP Architecture for Ambient Intelligence Meeting Rooms and a Control Point allowing for integrated 2D and 3D Interaction"
- Diego López de Ipiña, Iñaki Vázquez, Daniel García, Javier Fernández, Iván García (*Spain*) - "A Reflective Middleware for Controlling Smart Objects from Mobile Devices"
- Christian Floerkemeier, Matthias Lampe (*Switzerland*) - "RFID middleware design - addressing application requirements and RFID constraints"

11:30 - 12:30 **Oral session** : **Ad-hoc networking and sensor networks**

- Laurent Maleysson, Christophe Dugas (*France*) - "Configuring and managing a large-scale monitoring network Solving real world challenges for Ultra Low Powered and long-range wireless mesh networks"
- Byung Ryong Kim, Ki Chang Kim, Yoo Sung Kim (*Korea*) - "Securing Anonymity in P2P Network"
- Sarah Mount, Elena Gaura, Robert M. Newman, Alastair R. Beresford, Sam R. Dolan, Michael Allen (*UK*) - "Trove : a Physical Game Running on an Ad-Hoc Wireless Sensor Network"

12:30 - 14:00 Lunch

14:00 - 16:30 **Invited session** : **Ambient functionality** - organized by Pekka Silvennoinen (*Finland*)

- *Target Speaker* : Francis Jutand (*France*) - "Ambient fonctionnalité : Human interfaces for the digital life"
- Pascal Ancey (*France*) - "Ambient functionality in MIMOSA from technology to services"
- Petri Vuorinen (*Finland*) - "Applying the RFID technology for Field Force Solution"
- Hughes Metras (*France*) - "RFID tags for ambient intelligence: present solutions and future challenges"
- Minoru Sekiguchi, Hirohisa Naito, Akinobu Ueda, Toru Ozaki, Masao Yamasawa (*Japan*) - "'UBWALL', ubiquitous wall changes an ordinary wall into the smart ambience"
- Eija Kaasinen, Timo Tuomisto, Pasi Välikkynen (*Finland*) - "Ambient Functionality – Use Cases"

16:30 - 17:00 **Conclusions**