

Wednesday, November 14th 2012

08:30–09:00	Registration
09:00–09:30	Welcome <i>Fabio Paternò (CNR-ISTI) & Boris de Ruyter (Philips Research), Conference Chairs</i>
09:30–10:30	Societal impacts of Internet of Things Invited Talk <i>Dr. Florian Michahelles (ETH Zürich)</i>
10:30–11:00	Coffee break
Session	Evaluation and Behaviour Analysis
11:00–13:00	Chair: Juan Carlos Augusto (<i>Middlesex University</i>)
11:00–11:30	Combining Implicit and Explicit Methods for the Evaluation of an Ambient Persuasive Factory Display <i>E. Strasser, A. Weiss, T. Grill, S. Osswald and M. Tscheligi. University of Salzburg</i>
11:30–12:00	Contextual Wizard of Oz - A framework combining contextual rapid prototyping and the wizard of Oz method <i>D. Zachhuber, T. Grill and M. Tscheligi. University of Salzburg</i>
12:00–12:30	Evolutionary Feature Extraction to Infer Behavioral Patterns in Ambient Intelligence <i>L. S. Shafti, P. Haya, M. García-Herranz and E. Perez. Universidad Autonoma de Madrid</i>
12:30–13:00	Automatic Behavior Understanding in Crisis Response Control Rooms (1) <i>J. Ijsselmuiden</i> , (2) <i>A. Grossefinger</i> , (3) <i>D. Muench</i> , (4) <i>M. Arens</i> and (5) <i>R. Stiefelwagen</i> . (1)(2)(3)(4) <i>Fraunhofer IOSB</i> , (5) <i>Karlsruhe Institute of Technology</i>
13:00–14:00	Lunch
Parallel Session	Social Interactive Aspects in Ambient Intelligence (Room 27)
14:00–15:30	Chair: Alexander Meschtscherjakov (<i>Salzburg Univ.</i>)
14:00–14:30	Exploring Non-Verbal Communication of Presence between Young Children and Their Parents through the Embodied Teddy Bear (1) <i>K. Väänänen-Vainio-Mattila</i> , (2) <i>T. Haustola</i> , (3) <i>J. Häkkinen</i> , (4) <i>M. Karukka</i> and (5) <i>K. Kytökorpi</i> . (1)(2) <i>Tampere University of Technology</i> , (3)(5) <i>Soul4Design</i> , (4) <i>Nokia Research Center</i>
14:30–15:00	Recognizing the User Social Attitude in Multimodal Interaction in Smart Environments <i>B. De Carolis, S. Ferilli and N. Novielli. Dipartimento di Informatica Università di Bari</i>
15:00–15:30	PermissionWatcher: Creating User Awareness of Application Permissions in Mobile Systems (1) <i>E. Struse</i> , (2) <i>J. Seifert</i> , (3) <i>S. Uellenbeck</i> , (4) <i>E. Rukzio</i> and (5) <i>C. Wolf</i> . (1)(3)(5) <i>Horst Görtz</i>

15:30–15:45	<i>Institute, Ruhr University Bochum</i> , (2)(4) <i>Ulm University</i>
15:30–15:45	Understanding Complex Environments with the Feedforward Torch <i>J. Vermeulen, K. Luyten and K. Coninx. Hasselt University</i>
Parallel Ses.	Ambient Assisted Living (Room 28)
14:00–15:30	Chair: Carmen Santoro (<i>CNR-ISTI</i>)
14:00–14:30	Context-Based Fall Detection using Inertial and Location Sensors <i>H. Gjoeski, M. Luštrek and M. Gams. Department of Intelligent Systems - Jozef Stefan Institute</i>
14:30–15:00	Back of the Steering Wheel Interaction: The Car Braille Keyer <i>S. Osswald, A. Meschtscherjakov, N. Mirnig, K. Kraessig, D. Wilfinger, M. Murer and M. Tscheligi. University of Salzburg</i>
15:00–15:15	Towards the Generation of Assistive User Interfaces for Smart Meeting Rooms Based on Activity Patterns <i>M. Zaki and P. Forbrig. University of Rostock</i>
15:15–15:30	Reducing Dementia Related Wandering Behaviour with an Interactive Wall <i>S. Robben, K. Bergman, S. Haitjema, Y. de Lange and B. Kröse. Amsterdam University of Applied Sciences</i>
15:30–16:00	Coffee break
Parallel Ses.	Activity Recognition (Room 28)
16:00–17:30	Chair: Ben Krose (<i>University of Amsterdam</i>)
16:00–16:30	Enhancing Accelerometer-based Activity Recognition with Capacitive Proximity Sensing (1) <i>T. Grosse-Puppenthal</i> , (2) <i>E. Berlin</i> and (3) <i>M. Borazio</i> . (1) <i>Fraunhofer IGD</i> , (2)(3) <i>TU Darmstadt</i>
16:30–17:00	Multi-Classifer Adaptive Training: Specialising an Activity Recognition Classifier Using Semi-Supervised Learning <i>B. Cvetkovic, M. Lustrek, B. Kaluza and M. Gams. Department of Intelligent Systems - Jozef Stefan Institute</i>
17:00–17:30	Using Markov Logic Network for On-line Activity Recognition from Non-Visual Home Automation Sensors (1) <i>P. Chahuaara</i> , (2) <i>A. Fleury</i> , (3) <i>F. Portet</i> and (4) <i>M. Vacher</i> . (1)(3)(4) <i>Laboratoire d'Informatique de Grenoble</i> , (2) <i>Université Lille Nord de France</i>
Parallel Ses.	Landscape (Room 27)
16:00–17:30	Chair: Boris de Ruyter (<i>Philips Research</i>)
16:00–16:18	Towards accessibility in ambient intelligence environments <i>G. Margetis, M. Antona, S. Ntoa and C. Stephanidis. Foundation for Research and Technology – Hellas (FORTH)</i>
16:18–16:36	INCOME - Multi-Scale Context Management for the Internet of Things (1) <i>J. Arcangeli</i> , (2) <i>A.</i>

16:36–16:54	New Forms of Work Assistance by Ambient Intelligence <i>A. Dr. Windel and M. Hartwig. Bundesanstalt für Arbeitsschutz und Arbeitsmedizin</i>
16:54–17:12	Living labs as educational tool for ambient intelligence <i>B. Krose, M. Veenstra, S. Robben and M. Kanis. Amsterdam University of Applied Sciences</i>
17:12–17:30	Intel Collaborative Research Institute - Sustainable Connected Cities (1) <i>J. Schöning</i> , (2) <i>Y. Rogers</i> , (3) <i>J. Bird</i> , (4) <i>L. Capra</i> , (5) <i>J. A. McCann</i> , (6) <i>D. Prendergast</i> , (7) <i>C. Sheridan</i> . (1)(2)(3)(4) <i>University College London</i> , (1)(2)(4)(5)(6)(7) <i>Intel Collaborative Research Institute - Sustainable Connected Cities</i> , (5) <i>Imperial College London</i> , (1) <i>Hasselt University</i>
17:45–18:30	Bus for the Social Event
18:30–20:00	Guided tour of the Natural History Museum
20:00–22:30	Social Dinner
22:30–23:00	Return to Pisa with two stops: 1 st) <i>CNR Research Area</i> 2 nd) <i>City center (Largo Parlascio, next to Borgo Stretto and near the leaning tower)</i>

Thursday, November 15th

Session	Adaptation
09:00–10:30	Chair: Panos Markopoulos (<i>TU Eindhoven</i>)
09:00–09:30	Context awareness and adaptation in ambient systems by an adaptive multi-agent approach <i>V. Guivarch, V. Camps and A. Péninou. IRIT</i>
09:30–10:00	Adaptive User Interfaces for Smart Environments with the Support of Model-based Languages (1) <i>S. Bongartz</i> , (2) <i>Y. Jin</i> , (3) <i>F. Paternò</i> , (4) <i>J. Rett</i> , (5) <i>C. Santoro</i> and (6) <i>L. D. Spano</i> . (1)(2)(4) <i>SAP AG</i> , (3)(5)(6) <i>CNR-ISTI</i>
10:00–10:30	Personalization of Content on Public Displays driven by the Recognition of Group Context <i>E. Kurdyukova, S. Hammer and E. Andre. Augsburg University</i>

10:30–11:00	Coffee break
Session	Smart Environments
11:00–13:00	Chair: Kaisa Väänänen-Vainio-Mattila (TUT)
11:00–11:30	Gesture Profile for Web Services: An Event-driven Architecture to Support Gestural Interfaces for Smart Environments (1) R. Vatavu, (2) C. M. Chera and (3) W. Tsai. (1) University Stefan cel Mare of Suceava, (2) Politehnica University of Bucharest, (3) Arizona State University
11:30–12:00	Towards Fuzzy Transfer Learning For Intelligent Environments J. Shell and S. Coupland. De Montfort University
12:00–12:30	Sound Environment Analysis in Smart Home (1) M. Sehili, (2) B. Lecouteux, (3) D. Istrate, (4) M. Vacher, (5) F. Portet, (6) B. Dorizzi and (7) J. Boudy. (1)(3) Esigetel, (2)(4)(5) Laboratoire d'Informatique de Grenoble, (6)(7) Telecom SudParis
12:30–12:45	Gesture based Semantic Service Invocation for Human Environment Interaction C. Stocklöv. Fraunhofer Institute for Computer Graphics
12:45–13:00	Open Objects for Ambient Intelligence P. Ricca and K. Stathis. Royal Holloway, University of London
13:00–14:00	Lunch
Session	Demo & Posters
14:00–15:30	
Demo	Developing Touchless Interfaces with GestIT L. D. Spano. CNR-ISTI
Demo	Tool Support for Probabilistic Intention Recognition using Plan Synthesis F. Krüger, K. Yordanova and T. Kirste. University of Rostock
Poster	IE Sim – A Flexible Tool for the Simulation of Data Generated within Intelligent Environments J. Synnott, L. Chen, C. Nugent and G. Moore. University of Ulster
Poster	Intention Recognition with Clustering F. Sadri, W. Wang and A. Xafi. Imperial College London
Poster	Behavior modeling and recognition methods to facilitate transitions between application-specific personalized assistance systems (1) A. Ramakrishnan, (2) Z. W. Bhatti, (3) D. Preuveneers, (4) Y. Berbers, (5) A. Andrushevich, (6) R. Kistler and (7) A. Klapproth. (1)(2)(3)(4) KU Leuven, (5)(6)(7) Lucerne University of Applied Sciences and Arts
Poster	LumaFluid: a responsive environment to stimulate social interaction in public spaces (1) G. Monaci, (2) T. Gritti, (3) M. van Beers, (4) A. Vermeulen, (5) B. Nab, (6) I. Thomassen, (7) M. Heijboer, (8) S.

	<i>Suijkerbuijk, (9) W. Walmlink and (10) M. Hendriks. (1)(2)(3)(4) Philips Research, (5)(6)(7)(8) Eindhoven University of Technology, (9) studio:ludens, (10) Little Mountain</i>
Poster	A Cost-Based Model for Service Discovery in Smart Environments S. Chessa, M. Girolami and F. Furfari. (1) University of Pisa, (2)(3) CNR-ISTI
Poster	On the Use of Video Prototyping in Designing Ambient User Experiences N. Batalas and P. Markopoulos. Eindhoven University of Technology
Poster	Automatic Power-Off for Binaural Hearing Instruments (1) B. Tessorodorf, (2) P. Derleth, (3) M. Feilner, (4) D. Roggen, (5) T. Stiefmeier and (6) G. Tröster. (1)(4)(5)(6) ETH Zurich, (2)(3) Phonak AG
Poster	Proposal and Demonstration of Equipment Operated by Blinking M. Kato, T. Kobori, T. Suzuki, S. Ioroi and H. Tanaka. Kanagawa Institute of Technology
Poster	CASi – A Generic Context Awareness Simulator for Ambient Systems J. Cassens, F. Schmitt, T. Mende and M. Herczeg. University of Lübeck
Poster	A Conceptual Framework for Supporting Adaptive Personalized Help-on-Demand Services (1) W. Burns, (2) L. Chen, (3) C. Nugent, (4) M. Donnelly, (5) K. Skillen and (6) I. Solheim. (1)(2)(3)(4)(5) University of Ulster, (6) Norwegian Computing Centre
15:30–16:00	Coffee Break
16:00–17:00	Bringing Social Computing to Ambient Environments: Synergies and Challenges Prof. Elisabeth André (Augsburg University)
17:00	Goodbye + AMI'13

International Joint Conference on Ambient Intelligence



Pisa, Italy
CNR Research Area

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<http://www.ami-12.org>

Conference Program

Supporting Institutions and Sponsors

