
Aml * 11

PROGRAMME GUIDE www.ami-11.org



INTERNATIONAL JOINT CONFERENCE ON
AMBIENT INTELLIGENCE

16-18 NOVEMBER 2011
AMSTERDAM

AMI-11: SHAPING THE NEXT DECADE

Ambient Intelligence (AmI) represents a vision of the future in which products and services will be responsive to the user context, offering a rich variety of applications in the professional and consumer domains.

Following the publication of early scenarios on Ambient Intelligence in 2001 by the European Commission's Joint Research Centre, the theme of the AmI-11 conference is focused on the "The Road Ahead, Shaping the Next 10 years".

The choice of the two plenary speakers reflects this.

THURSDAY, NOVEMBER 17



MARGIE MORRIS
Intel Labs

'Left to our own devices'

FRIDAY, NOVEMBER 18



ALBRECHT SCHMIDT
University of Stuttgart

'Beyond UbiComp:
Computing is changing the
way we live'

MARGIE MORRIS

PLENARY SPEAKER: THURSDAY, NOVEMBER 17

We proudly announce Senior researcher Margaret Morris from Intel as plenary speaker at the AmI-11 conference!

LEFT TO OUR OWN DEVICES

Advances in technology, particularly social media and mobile phones, have converged with constrained health care budgets, inviting a new resourcefulness in how we take care of ourselves. We use our devices to navigate personal transitions, including those related to wellbeing. Mobile phones have arguably provided a gateway to ubiquitous computing, setting high expectations among the general public. But how close are we to this promise of integration? The missing piece relates to emotion. Only if technology approaches motivation from a psychological perspective, will it be integrated in a way that allows people to make meaningful change. I will share ethnographic findings about motivational conflicts and guidelines for applying psychology to promote behavior change and wellbeing.

ALBRECHT SCHMIDT

PLENARY SPEAKER: FRIDAY, NOVEMBER 18

We proudly announce Professor Albrecht Schmidt as plenary speaker at the AmI-11 conference!

Albrecht Schmidt is a professor for Human Computer Interaction at the University of Stuttgart. Previously he was a Professor at the University of Duisburg-Essen and had a joint position between the University of Bonn and the Fraunhofer Institute for Intelligent Analysis and Information Systems (IAIS). He studied computer science in Ulm and Manchester and received a PhD from the Lancaster University in the UK in 2003. His research interest is in human computer interaction beyond the desktop, including user interfaces for mobile devices and cars.

Albrecht published well over 100 refereed archival publications and his work is widely cited. He is co-founder of the ACM conference on Tangible and Embedded Interaction (TEI) and initiated the conference on Automotive User Interfaces (auto-ui.org). He is an area editor of the IEEE Pervasive Computing Magazine and edits a column on invisible Computing in the IEEE Computer Magazine.



Albrecht's blog: <http://albrecht-schmidt.blogspot.com>

BEYOND UBICOMP: COMPUTING IS CHANGING THE WAY WE LIVE

Albrecht Schmidt: “Over the last 20 years ubiquitous computing has become reality. Phones, household appliances, TVs, and cars have essentially become computers. Many of them are networked and offer specific capabilities for human-computer interaction. Computing technologies become an integral part of our life and they shape more and more how we perceive the world and how we interact with each other. By creating ubiquitous computing technologies we essentially have the means to change the way people live and hence the stakes are high! Developing ubiquitous computing systems raises again many engineering challenges, that we regarded as solved for traditional computing systems. We have to fundamentally re-think all steps in the design and development process – from requirements engineering, to computer and system architecture, to concepts for iterative design, to implementation, and deployment.

In the talk, the technology trends that enable a new generation of computing systems will be highlighted. Examples of interactive ubiquitous computing and ambient intelligence will be discussed to outline key challenges in engineering novel interactive computing systems. Furthermore an outlook of upcoming modalities and user interface concepts is presented. The talk concludes with a vision that suggests computing systems that enable perception and interaction without temporal and spatial boundaries. With this example the fundamental tension between what is feasible and what is desirable is raised.”

PROGRAM: QUICK OVERVIEW

16 November: Workshops & doctoral colloquium

08:00 - 09:00	Registration
09:00 - 12:30	Workshops
12:30 - 13:30	Lunch
13:30 - 17:00	Workshops

17 November: Aml conference Day 1

08:00 - 09:00	Registration	
09:00 - 09:30	Opening: Emile Aarts, Philips Research (UvA 3+4)	
09:30 - 10:30	Keynote: Margie Morris	
10:30 - 11:00	Break	
11:00 - 12:00	Session 1: Haptic Interfaces (UvA 4)	Session 3: Smart Environments 1 (UvA 3)
12:00 - 12:40	Session 2: Smart Sensing (UvA 4)	
12:40 - 12:50		
12:50 - 14:00	Lunch, Posters & Demos	
14:00 - 16:00	Session 4: New interaction technology	Industrial presentations
16:00 - 16:30	Break	
16:30 - 17:00	Workshop Summaries (UvA 3+4)	
17:00 - 17:40	Landscape Session 1	
17:40 - 18:00	Poster Pitches	
18:00 - 19:00	Posters and Drinks	
19:00 - 20:00	Social Event - Boat ride	
20:00 - END	Social Event - Dinner 'in de Waag'	

18 November: Aml conference Day 2

08:30 - 09:00	Registration	
09:00 - 09:05	Opening (UvA 3+4)	
09:05 - 10:30	Ambient Assisted Living (AAL) Session 1 (UvA 3+4)	
10:30 - 11:00	Break	
11:00 - 12:10	Ambient Assisted Living (AAL) Session 2 (UvA 3+4)	
12:10 - 12:50	Landscape Session 2 (UvA 3+4)	
12:50 - 13:50	Lunch	
13:50 - 14:50	Session 5: Affecting Human Behavior (UvA 4)	Session 6: Smart Environments 2 (UvA 3)
	Session 7: Privacy & Trust (UvA 4)	Session 8: Smart Environments 3 (UvA 3)
15:35 - 15:50		
15:50 - 16:20	Break	
16:20 - 17:20	Closing Keynote: Albrecht Schmidt (UvA 3+4)	
17:20 - 18:00	Conference Closure	

AMSTERDAM

Let us welcome you to Amsterdam, a city of many inspiring and surprising faces. No other city mixes cosmopolitan style with a laid-back atmosphere quite like Amsterdam. Our friendly nature draws a more diverse population than most any city in the world. We invite you to join us and make our global village your own during your stay here.

Home to some of the world's most acclaimed artistic works, more canals than Venice, more bridges than Paris and nearly 7,000 monumental buildings, our compact floating city offers a buffet of historic and cultural treasures. It is no wonder Amsterdam's city centre has been recently added to the UNESCO's World Heritage list.

Maybe you will visit our world-famous diamond factories, discover the city's tradition as a jazz-music hub, or simply soak up the local nightlife in a casual café. Whatever you choose, we hope you experience our vibrant, open spirit. Welcome to Amsterdam!

Transport to/from Amsterdam

Amsterdam Schiphol Airport is about 20 km from the centre of the city. There is a good and frequent train connection to/from Amsterdam Central Station (six trains every hour during daytime), costs EUR 3.70 for a one way trip of fifteen minutes.

Public Transport in Amsterdam

The OV-chipkaart (PT Smart Card) is the only way to pay for public transport in Amsterdam. You can travel using just one card, whether it is in the train, bus, tram or metro. The OV-chipkaart is the size of a credit card and has a built-in chip. For conference visitors a disposable OV-chipkaart is advised. You can buy disposable cards at GVB Tickets & Info

(Municipal Transport Company) across from the Central Station or at Metrostation Weesperplein, the Ticket Vending and Add Value machines and with tram and bus drivers and conductors. At the Ticket Vending and Add Value machines you can pay cash and with PIN, chip or credit card. Some hotels also sell the cards.

A disposable card already carries a travel product and can not be recharged. Costs for different travel products are shown in the table below:

- GVB 1-hour ticket EUR 2.60
- GVB 24-hour ticket EUR 7.00
- GVB 48-hour ticket EUR 11.50 Not sold in trams and busses
- GVB 72-hour ticket EUR 15.50 Not sold in trams and busses
- GVB 96-hour ticket EUR 19.50 Not sold in trams and busses
- The Amsterdam All in 1 Travel Ticket

At schiphol airport you can buy the 24, 48, 72 and 96 hour tickets including a two-way trainticket Schiphol-Amsterdam Central. The Amsterdam All in 1 Travel Ticket is only available at the Holland Tourist Information desk at Schiphol Airport (opposite Arrival Hall 2, open daily from 07.00 – 22.00 hrs.)

Sight-seeing Amsterdam

Amsterdam has a lot to offer: the historic centre along the canals, the museums, churches, arts & craft stores, antique stores, the contemporary architecture in the former harbour areas, and the theaters and concert halls that offer both classic and modern repertoire.

You can explore Amsterdam and its surroundings on foot, by bike, coach or boat. Information is available at the Amsterdam

VVV Offices (Tourist Information Office) at Platform 2 of the Amsterdam Central Station, at Stationsplein across the Central Station and at the Holland Information desk at Schiphol Plaza.

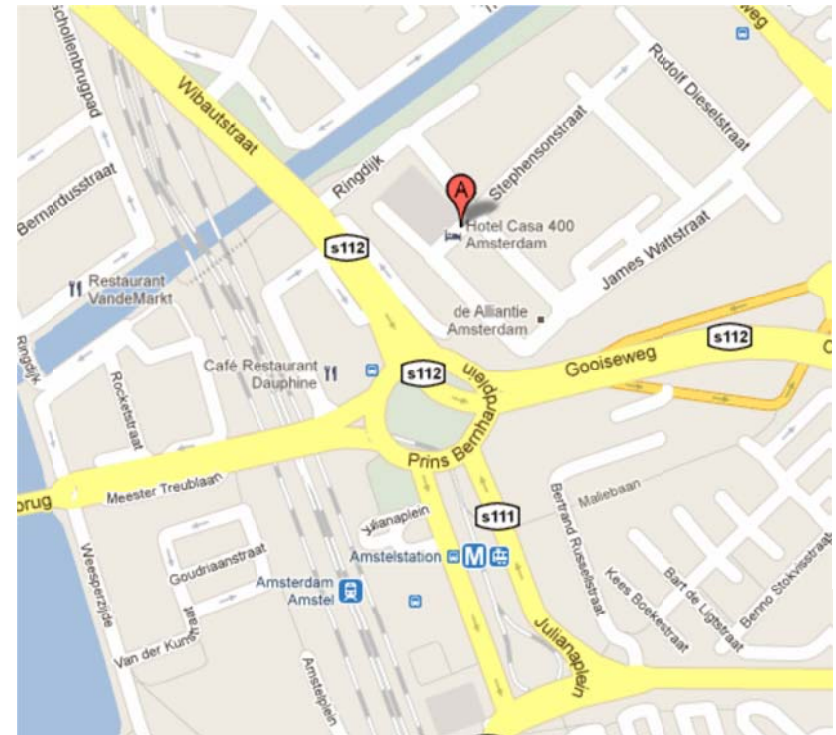
Conference venue

The conference will take place in Casa400 in Amsterdam. Casa 400 is located at the edge of the centre of Amsterdam. Amsterdam Amstel station is only a three minute walk and offers trains, busses, trams and underground. Public transport will take you to the heart of Amsterdam in 10 minutes. By car, the A10 ring road is within easy reach.

Hotel Casa 400
Eerste Ringdijkstraat 4
1097 BC Amsterdam

Public transport to Casa 400

Within three minutes walk from the Amstel Station you will arrive in Hotel Casa 400. The train, metro, tram or bus will take you to the Amsterdam Amstel Station. At the Amstel Station you will follow the directions to the 'Julianaplein'. You can take the traffic lights on the right of the roundabout towards the ABN-AMRO building. At the ABN-AMRO building on the left side you can take the tunnel. Take the first street on your right and then the first street on your left which is the Eerste Ringdijkstraat. From there you will already be able to see the hotel at the end of the street.



Amsterdam city centre: 9 minutes by underground
Schiphol Airport: 26 minutes by train/ 20 minutes by taxi (call TCA taxi: 0031 (0)20 6531000) RAI Exhibition and Congress centre: 7 minutes by underground / bus 15

Car

Casa 400 is easy to reach from all directions. On the A10 ring road you take exit S112 and follow signs for Centrum. De Goiseweg takes you to the roundabout at the Amstel station. Go straight on and then turn right at the second traffic lights onto the Ringdijk. You will see Hotel Casa 400 on your right.

MAP CASA 400

CONFERENCE LEVEL 1st floor



Parking possibilities

When you arrive at Casa 400 you can park your car in our conveniently and accessible car park. Hotel Casa 400 offers a private parking garage for up to 100 cars. At our underground car park you can park your car at a reduced rate of €2,50 per hours with a maximum of €17,50 per 24 hours. We work with the first-come first-serve policy. If our car park is full, you can park in the street at an hourly rate of €3,00; Monday to Saturday from 9.00 to 21.00 or at a daily rate of €21,60. If you leave your car in an unattended area, please consider to put “no valuables inside” warning behind the windows.

Conference dinner

In the evening of Thursday 17 November, a boat will bring you to the location of the restaurant In de Waag, where the conference dinner will take place.

Boarding boat (pick-up point): 19:00 at Cafe Hesp,
Weesperzijde 130- 131

Unboard boat: 20:00 at the nearest dock at In de Waag.

Address

Restaurant-Café In de Waag
Nieuwmarkt 4, 1012 CR Amsterdam

WORKSHOPS 16 NOVEMBER

WS1: **Aesthetic Intelligence: Designing Smart and Beautiful Architectural Spaces**

(9.00-12.30, Cambridge)

This workshop will provide a platform for interested researchers and practitioners to discuss the visual and perceptual possibilities that arise from the use of Ambient Intelligence technology in public as well as private space. The focus of the workshop will be on the relevance of beauty and aesthetic values for Ambient Intelligence and the meaning of aesthetically pleasing design for usability, technology acceptance, and well-being in technology-enhanced spaces. The workshop aims to bring together researchers from different disciplines to discuss the interrelation of functional, architectural, and aesthetic factors and their consequences for the design, use and acceptance of smart environments.

WS2: **Role of Ambient Intelligence in Future Lighting Systems** (9.00-17.00, Cornell)

LED-based lighting systems have introduced radically new possibilities in the area of artificial lighting. Being physically small the LED can be positioned or embedded into luminaires, materials and even the very fabric of a building or environment. Together with new functionality and flexibility comes complexity; the simple light switch is not anymore sufficient to control our light. The light switch therefore in many situations will need to be enhanced or fully replaced by intelligent controls and smart environments that are sensitive to the context and responsive to the presence of people. Future lighting systems will become a part of the Ambient Intelligence (Aml). This workshop explores how the vision and principles of the Aml paradigm can be applied to future lighting controls, where lighting is not anymore only a functional on/off system, but a flexible system capable of creating a large range of functional/decoration and ambient light effects.

WS4: **Interactive Human Behavior Analysis in Open or Public Spaces** (9.00-17.00, University of Amsterdam 1)

In open spaces, whether public or private, humans exhibit a much larger and interesting range of behaviors, from their interaction with the environment (how groups of people occupy the space or how they manipulate/use objects within it) to the way they communicate with each other. The advancement in video sensor technology in terms of resolution for automatically understanding and recognizing these behaviors enables also improvements in the types of automated analysis that can be done. The goal of the workshop is to bring together experts and researchers from different fields (computer scientists, sociologists, governmental agencies and industry) to share their experience and expertise about the opportunities on the development of tools for automated social analysis in open spaces.

WS5: **Workshop on User Interaction Methods for Elderly, People With Dementia** (13.30-17.00, Cambridge)

The development of dementia in later life is a common ailment for people reaching an older age. Thus, AAL solutions need to take into account the necessary steps for making AAL technology suitable to this significant part of the target group. This workshop aims at the development of a set of guidelines for the development of such solutions. It draws on existing developments being done in this field, ranging from end-user research to interaction development and evaluations.

WS6: **Empowering and integrating senior citizens with virtual coaching** (9.00-17.00, Stellenbosch)

With Europe's aging population and an increasing number of older people living alone or geographically distant from kin, loneliness is turning into a prevalent issue. This might involve deleterious consequences for both the older person and society, such as depression and increased use of healthcare services. The workshop will discuss the effects of virtual

coaches on elderly users and how they can be used to improve the quality of life by aiding in planning daily life activities and mediating meaningful relationships to maintain and expand the social network of the elderly persons. Additional applications of virtual coaches and avatars in AAL specific context will be discussed. Furthermore it will explore intuitive interaction between the user and virtual entities.

WS7: Workshop: Integration of AMI and AAL platforms in the Future Internet (FI) Platform initiative
9.00-17.00, Sorbonne)

The digital agenda of the European Commission includes plans for the building of Information and Communication Technology based on a new generation of networks, or the Internet of the Future. To this end, the Future Internet Privacy Public Partnership (FI-PPP) has been established with the help of the European Commission. It will involve the building of a proof of concept FI platform in the coming two years. One of the main challenges of this platform is to be generic while serving the needs of specific application sectors. This workshop will focus on the challenges of integrating AMI and AAL platforms with such kind of platform. Participants to the workshop will include both members of the AMI/AAL platform community, members of the FI community and policy makers.

WS8: Ambient Gaming(9.00-12.30, Harvard)

Ambient Gaming aims to create novel player experiences in games by taking inspiration from aspects of ambient intelligence (context-aware, personalized, adaptive, and anticipatory) and translating these into a gaming context. In this one-day workshop on Ambient Gaming, we intend to discuss various issues regarding this new and emerging field of research from different perspectives (game design, games research and technology) and uncover the potential of ambient technology for play and games in various contexts.

WS9: 2nd Int. Workshop on Human Behavior Understanding: Inducing Behavioral Change (9.00-17.00, Oxford)

The workshop deals with the problem of modeling human behavior under its multiple facets (expression of emotions, display of complex social and relational behaviors, performance of individual or joint actions, etc.), with particular attention to systems that aim to induce behavioral change in their users.

WS10: Privacy, Trust and Interaction in the Internet of Things (13.30-17.00, Harvard)

The workshop addresses topics of increasing importance in the emerging area of the Internet of Things (IoT): privacy, trust and related interaction concepts. The aim of the workshop is to bring together experts from different relevant areas to cover the complexity of the questions involved and to provide a forum for developing new ideas and approaches on how to address some of the major challenges in the field considering both a scientific and an industrial viewpoint. The workshop targets to identify the most pressing open questions in the field and to develop a research agenda for trusted and privacy-respecting computing in the internet of things. Special attention within the workshop is given on whether and how experiences with privacy and trust from related areas (such as e.g. ubiquitous computing) can be applied to the IoT, where existing conceptualizations need to be extended or modified and where radically new concepts are required.

Doctoral Colloquium (9.00-17:00, Heidelberg)

The AMI Doctoral Colloquium is a forum in which Ph.D. students can meet and discuss their work with each other and a panel of experienced AMI researchers and practitioners. The doctoral consortium will offer Ph.D. students the opportunity to present, discuss, and receive feedback on their research in an interdisciplinary and international atmosphere.

PROGRAMME THU 17 NOVEMBER

RP: regular paper (20 mins)
LB: late breaking paper (15 mins)

Opening: Emile Aarts, Philips Research (9:00-9:30)

Keynote: Margie Morris, Intel Labs (9.30-10.30)

Session 1: Haptic Interfaces (Thu 11:00-12:00, UvA 4)
Chair: Norbert Streitz

HapticArmrest: Remote Tactile Feedback on Touch Surfaces
Using Combined Actuators
Hendrik Richter, Alexander Wiethoff and S. Loehmann (RP)

Interacting With the Steering Wheel: Potential Reductions in
Driver Distraction
*Sebastian Osswald, Manfred Tscheligi, David Wilfinger and
Alexander Meschtscherjakov (RP)*

Table-Top Interface Using Fingernail Images and Real Object
Recognition
Kenta Hara, Noriko Takemura, Yoshio Iwai and K. Sato (RP)

Session 2: Smart Sensing (Thu 12:00-12:40, UvA 4)
Chair: Alexander Meschtscherjakov

Discrimination of Multiple Objects and Expanding Positioning
Area for Indoor Positioning Systems using Ultrasonic Sensors
*Hiroshi Tanaka, Hikaru Sunaga, Takashi Hada, Masaki Akiyama
and Shigenori Irooi (RP)*

A Wearable User Interface for Measuring Reaction Time
Burcu Cinaz, Gerhard Tröster, Bert Arnrich and C. Vogt (RP)

Session 3: Smart Environments 1 (Thu 11:00-12:50,
UvA 3) Chair: Gwenn Englebienne

Using Constraint Optimization for Conflict Resolution and Detail
Control in Activity Recognition
Chrysi Filippaki, Grigoris Antoniou and Ioannis Tsamardinos (RP)

Knowledge-based Systems for Ambient Social Interactions
*Xiang Su, T. Latkowski, P. Kwiatkowski, B. Wójtowicz, A. Pröbstl,
J. Riekkki and E. Gilman (RP)*

Augmenting Mobile Localization with Activities and Common
Sense Knowledge
N. Biccocchi, F. Zambonelli, M. Mamei and G. Castelli (RP)

Hierarchical Activity Recognition using Automatic Clustering of
Actions
Tim van Kasteren, Gwenn Englebienne and Ben Kröse (RP)

Real-Time Analysis of Localization Data Streams for Ambient
Intelligence Environments
Dimokritos Stamatakis, D. Grammenos and K. Magoutis (LB)

The Autonomic Computing Paradigm in Adaptive Building /
Ambient Intelligence Systems
Aliaksei Andrushevich, Stephan Tomek and A. Klapproth (LB)

Session 4: Novel Interaction Technologies (Thu
14:00-16:00, UvA 4) Chair: Mary Lou Maher

FORE-Watch - The clock that tells you when to use: Persuading
users to align their energy consumption with green power
availability
*Johann Schrammel, Cornelia Gerdenitsch, Astrid Weiss, Patricia
Kluckner and Manfred Tscheligi (RP)*

Flexible, Non-Emissive Textile Display
*Roshan Lalintha Peiris, Adrian David Check and Owen Noel
Newton Fernando (LB)*

Voice control in smart homes using distant microphones: a VoiceXML-based approach
Gloria López, Victor Peláez, Roberto González and Vanesa Lobato (RP)

Design and Analysis of Interactions with Museum Exhibits
Takashi Kiriya and Masahiko Sato (RP)

Cut and Paste: Ambient Interaction using Annotated Cut-outs
Geert Vanderhulst and Lieven Trappeniers (LB)

A dynamic AR marker for a paper based temperature sensor
Roshan Lalintha Peiris, Adrian David Cheok and Owen Noel Newton Fernando (LB)

On developing a platform for mobile outdoor gaming for children
Iris Soute, Herman Aartsen and Chet Bangaru (LB)

Industrial track (Thu 14:00-16:00 UvA 3)

Chair: Bart van Rumste

SenseTale: towards user created applications on the Internet-of-Things (IoT)
Lieven Trappeniers, Alcatel Bell-labs

EagleGrid: Multisensor tracking with stereo cameras
Wojtek Zajdel, EagleVision

Outside-in vs inside-out: how user experience motivates our choices
Adriaan Wormgoor, Fource Labs

Ambient Intelligence: from academic knowledge to products that sell
Lucas Noldus, Noldus BV.

Ambient Intelligence: Options for start-ups
Hamid Aghajan, Stanford

Landscape Session 1 (Thu 17:00-17:40)

Chair: Juan Carlos Augusto

Free Play in Contemplative Ambient Intelligence
Doug Fisher and Mary Lou Maher

A Student-Centric Intelligent Classroom
Asterios Leonidis, George Margetis, Maria Korozi, Stavroula Ntoa, Margherita Antona and Constantine Stephanidis

Poster Session (Thu 13:00-19:00 and Fri 9.00-18.00)

Ambient Monitoring from an Elderly-Centred Design Perspective: What, Who and How
Marije Kanis, Sean Alizadeh, Jesse Groen, Milad Khalili, Saskia Robben, Sander Bakkes and Ben Kröse

Poetic Communication: Interactive Carpet for subtle family communication and connectedness
Mili John Tharakan, Jose Sepulveda, Wendy Thun and Adrian David Cheok

Selective Inductive Powering in Hardware-based Paper Computing
Kening Zhu, Hideaki Nii, Owen Noel Newton Fernando and Adrian David Cheok

Digital Taste: Electronic Stimulation of Taste Sensations
Nimesha Ranasinghe, Ponnampalam Gopalakrishnakone, Owen Noel Newton Fernando, Hideaki Nii and Adrian David Cheok

NOCTURNAL Ambient Assisted Living
J. C. Augusto, W. Carswell, H. Zheng, M. Mulvenna, S. Martin, P. McCullagh, H. Wang, J. Wallace, and P. Jeffers

Just Saying 'Hi' Means a Lot: Designing Subtle Interactions for Social Connectedness
Thomas Visser, Martijn Vastenburg and David Keyson

PROGRAMME FRI 18 NOVEMBER

Ambient Assisted Living (AAL) Session 1 (Fri 9:05-10:30) Chair: Martijn Vastenburger

Evaluation of AAL Platforms according to Architecture-based Quality Attributes
Pablo Oliveira Antonino, Daniel Schneider, Cristian Hofmann and Elisa Yumi Nakagawa (RP)

CommunityNet: Mediating Care at the Local Community Level
Bas Stroemer, Martijn Vastenburger and David Keyson (RP)

Experience Tags: Enriching Sensor Data in an Awareness Display for Family Caregivers
Martijn H. Vastenburger and Natalia Andrea Romero Herrera (LB)

Comparison of health measures to movement data in aware homes
Brian O'Mullane, Brennon Bortz, Ann O'Hanlon, John Loane and R. Benjamin Knapp (LB)

Context Assessment during Blood Pressure Self-measurement utilizing the Sensor Chair
Stefan Wagner, Olav Wedege Bertelsen and Thomas Skjødberg Toftegaard (LB)

Ambient Assisted Living (AAL) Session 2 (Fri 11:00-12:10) Chair: Panos Markopoulos

Enhancing Accessibility through Speech Technologies on AAL Telemedicine — Services for iTV
Héctor Delgado, Aitor Rodriguez-Alsina, Antoni Gurguá, Enric Martí, Javier Serrano and Jordi Carrabina (RP)

Touch versus In-Air Hand Gestures: Evaluating the acceptance of seniors on Human Robot Interaction
Anouar Znaoui Hassani, Betsy van Dijk, Henk Eertink and Geke Ludden (LB)

Classification of user postures with capacitive proximity sensors in AAL-environments
Tobias Alexander Große-Puppendahl, Alexander Marinc and Andreas Braun (RP)

"Maybe it becomes a buddy, but do not call it a robot" — Seamless Cooperation between Companion Robotics and Smart Homes
Claire Huijnen, Atta Badii, Herjan van den Heuvel, Praminda Caleb-Solly and Daniel Thiemert (LB)

Landscape Session 2 (Fri 12:10-12:50)

Chair: Juan Carlos Augusto

Sensing, Actuation Triggering and Decision Making for Service Robots Deployed in Smart Homes
Mortaza S. Bargh, Henk Eertink, Isken Melvin, Dietwig Lowet, Niels Snoeck and Benjamin Hebgén

Fusion of Radio and Video Localization for People Tracking
Massimiliano Dibitonto, Antonio Buonaiuto, Gian Luca Marcialis, Daniele Muntoni, Carlo Maria Medaglia and Fabio Roli

Session 5: Affecting Human Behavior (Fri 13:50-14:50, UvA 4) Chair: Natalia Romero Herrera

Personalized Persuasion in Ambient Intelligence: the APStairs System
Ryo Sakai, Sarah van Peteghem, Leoni van de Sande, Peter Banach and Maurits Kaptein (LB)

Motivate: Context aware mobile application for activity recommendation

Yuzhong Lin, Joran Jessurun, Bauke de Vries and Harry Timmermans (LB)

AULURA: Engaging Users with Ambient Persuasive Technology
Jabe Piter Faber, Panos Markopoulos, Pavan Dadlani and Aart van Halteren (LB)

Human Behavior Analysis in Ubiquitous Environments for Energy Efficiency Improvement
Ovidiu Artoni and Viorel Negru (LB)

Session 6: Smart Environments 2 (Fri 13.50 – 14.50, UvA 3) Chair: Tim van Kasteren

Using Active Learning to Allow Activity Recognition on a Large Scale
Hande Alemdar, Tim van Kasteren and Cem Ersoy (RP)

Tagging Space from Information Extraction and Popularity of Points of Interest
Ana Alves, Filipe Rodrigues and Francisco C. Pereira (RP)

Context-aware Integration of Smart Environments in Legacy Applications
Philipp Lehsten, Djamshid Tavangarian and Alexander Gladisch (RP)

Session 7: Privacy & Trust (Fri 14.50 – 15.35, UvA 4) Chair: David Keyson

Friend or Foe? Relationship-based Adaptation on Public Displays
Ekaterina Kurdyukova, Karin Bee and Elisabeth André (RP)

To trust upon that someone trusts upon yourself: Influences of trust and other factors on an Intranet based leader strategy
Anette Löfström and Mats Edenius (LB)

Session 8: Smart Environments 3 (Fri 14.50 – 15.50, UvA 3) Chair: Reiner Wichert

A Lightweight Distributed Service Registry Architecture for Unstable and Ad-Hoc Networks
Paulo Ricca, Kostas Stathis and Nick Peach (LB)

Hall Effect Sensing Input and Like Polarity Haptic Feedback in the Liquid Interface System
Kasun Karunanayaka, Adrian David Cheok, Eishem Bilal Naik and Jeffrey Tzu Kwan Valino Koh (LB)

Self-configuration of “Home Abstraction Layer” via Sensor-Actuator Network
Zheng Hu, Gilles Privat, Stephane Frenot and Bernard Tourancheau (LB)

Predicting Sleeping Behaviors in Long-Term Studies with Wrist-Worn Sensor Data
Marko Borazio and Kristof Van Laerhoven (LB)

Closing Keynote: Albrecht Schmidt (16.20-17.20)

Announcement of next Aml (17.20-17.30)

DEMOS AND EXHIBITIONS

(Thu 13:00-19:00 and Fri 9.00-18.00)

Cocoon: A Context-Aware Content Aggregator
Fatoumata Camara, Rachel Demumieux, and Gaelle Calvary

A Toolset for the End-user Programming of Smart Space Applications
Marko Palviainen, Jarkko Kuusijärvi, and Eila Ovaska

Ambient Intelligence for Indoor Surveillance
Rok Piltaver, Bogdan Pogorelc, Matjaž Gams

UbiBee: Easy Prototyping of Ambient Intelligent Applications.
Alfredo Perez Fernandez

DAI Virtual Lab: a virtual lab for the co-design, development and validation of Aml services and technologies.
Mario Nieto-Hidalgo, Antonio Limiñana-Benito, Rafael Torregrosa-Jorqués, José Ramón Padilla-López, Miguel Cabo-Díez, Francisco Javier Ferrández-Pastor, Francisco Flórez-Revuelta

TimeMachine: Mobile Application and Tools
Nuno Correia, Jared Hawkey, Sofia Oliveira, Olivier Perriquet, Cristiano Lopes

Monitoring Health of Elderly with Ambient Assisted Living
Bogdan Pogorelc, Estefania Constanza Lomonaco

Personal trainer for at-home rehabilitation
Bogdan Pogorelc, Estefania Constanza Lomonaco

Camera surveillance for fall detection: the FallLab set-up
Tim van Oosterhout, Ben Kröse

Synthesizing Sequential Bayesian Filters for Plan and Activity Recognition from extended Precondition-Effect rules
Frank Krüger and Thomas Kirste

ORGANIZERS

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