

4th Workshop on AI Techniques for Ambient Intelligence (AITAmI'09)

Technical Program

Welcome to the fourth edition of our workshop on *Artificial Intelligence Techniques for Ambient Intelligence*. Thanks to the joint effort of authors and organizers (at EI'09 and AITAmI) we have an exciting program which, we hope, will stimulate a fruitful interchange of ideas and lead to further developments in the area:

| Time | Activities DAY 1 |
|-------|---|
| 8:30 | Registration |
| 9:30 | Welcome by JC. Augusto |
| 9:45 | Keynote |
| 10:30 | Posters |
| 11:00 | coffee break |
| 11:30 | Papers Session I (3 papers x 30') – Chair: JC. Augusto |
| 13:00 | Lunch |
| 14:30 | Papers Session II (3 papers x 30') – Chair: J. O'Donoghue |
| 16:00 | coffee break |
| 16:30 | Papers Session III (2 papers x 30') – Chair: A. Sgorbissa |
| 17:30 | Debate |
| 18:00 | Closure |

Keynote: "Emotions Sensing in Daily Life" by Martin Ouwerkerk

Papers for Oral Presentation (20 minutes each):

Session 1:

“Synthetic Training Data Generation for ADL Modeling” by Dorothy Monekosso and Paolo Remagnino

“An AI-Planning based Service Composition Architecture for Ambient Intelligence” by Florian Marquardt, and Adelinde Uhrmacher

“Adaptive Neuro-Fuzzy Systems for Context Aware Offices” by Christian Giovanni Quintero Monroy and Jorhabib Eljaik Gómez

Session 2: (“Intelligent Environments Supporting Healthcare and Well-being”)

“Collaborating context reasoners as basis for affordable AAL Systems” by Jan Kresser, Michael Klein, Sebastian Rollwage and Peter Wolf

“Caring of Old People: Features of Cognitive Technologies Development” by Amedeo Cesta, Gabriella Cortellessa and Lorenza Tiberio

“Support for Context-aware Monitoring in Home Healthcare” by Alessandra Mileo, Davide Merico, and Roberto Bisiani

Session 3: (“Mobile Robots in Automated Building Systems”)

“Robotic Furniture in a Smart Environment: The PEIS Table” by Enrico Di Lello, Amy Loutfi, Federico Pecore and Alessandro Saffiotti

“Context Assessment Strategies for Ubiquitous Robots” by F. Mastrogiovanni, A. Sgorbissa and R. Zaccaria

Posters Session:

“Genetic Programming Application for User Capabilities Determination” by Kseniya Zablotskaya

“Why We Need a User Interface Resource Server for Intelligent Environments” by Gottfried Zimmermann

“Context-Awareness in Sensing and Actuation Augmented Pervasive Environments: Based HMDC with MAS” by Salahideen M. Alhaj

“Feeling Market System: A rational support for the trader” by Javier Martinez Fernandez, Esther Prada Ochoa, and Ralf Seepold

We would also like to thank the Philips, sponsor of AITAmI for their support and contribution towards the quality of our technical program and the success of this event:

**Juan Carlos Augusto
Diane Cook
(co-Chairs of AITAmI'09)**