AmI-07 Workshop: Ambient Assisted Living

Darmstadt, Germany, 10 November 2007

http://www.ami-07.org/workshops.html

Most industrialized countries face severe demographical and social changes: the average lifespan rises, more and younger people suffer from chronic diseases, the number of single-households with elderly or handicapped people increases, etc. As a result our society invested a growing share of its GNP into people in need of care, while at the same time the quality of this care does not rise and often even drops. *Ambient Assisted Living* (AAL) is a promising approach to overcome these problems. AAL provides equipment and automated services that enable senior citizens to live longer independently and self-determined in their own homes. This reduces the need for special medical care and nursing services; and it improves the quality of these services, often at lower cost for the society.

Central to each AAL solution is a sound awareness of the elders' situation and their actual need for assistance and an adequate presence of the solutions. In particular, *Ambient Assisted Living* provides

- automated support to carry out daily activities
- health and activity monitoring
- enhanced safety and security
- access to social, medical, and emergency systems
- promotion of social contacts
- context-based infotainment and entertainment.

This workshop will bring together experts from academia and industry to identify and discuss specific demands, approaches, and solutions with regard to awareness and presence in the AAL domain. Therefore, we solicit workshop submissions that present novel approaches and technologies in ambient intelligence, describe new applications of existing such technologies in AAL, or that propose future challenges for research in that application domain.

The workshop will consist of the presentations of the peer-reviewed papers and a panel discussion session that shall stimulate future research in AAL with respect to practical needs for AAL. Papers will thus be selected not only on their technical quality but also based on their potential to stimulate this discussion.

Topics of interest include but are not limited to:

- Assistance demands of elders in general
- Reports on AAL field studies and their outcomes
- Specific demands of elders regarding awareness and presence
- Sensors to monitor location, behaviour, and physical state of humans
- Modelling human behaviour and identifying behavioural patterns
- Impact of monitoring technologies on the individual life
- Identification of health risks using various sensor data
- Models used to interpret and process the collected data of an individual
- Design criteria for human-machine interfaces and communication devices for seniors
- Human-machine interfaces which adapt dynamically to the capabilities of humans
- Dynamically adaptable and adaptive system architectures and platforms for AAL services
- Technology acceptance of assistance devices

Submission

Papers can be submitted of at most 10 pages in Springer LNCS format (as for the AmI'07 conference). Proceedings will be available at the workshop. The intention is to realize publication of extended postproceedings as a book on the workshop theme by a recognized publisher after the workshop.

- Aug 17, 2007 Submission deadline (extended)
- Sep. 20, 2007 Notification of acceptance
- Oct. 30, 2007 Camera ready version due

Please submit your papers to floeck@eit.uni-kl.de.

Workshop chairs

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