

The Seventh Workshop on

Artificial Intelligence in Mobile Systems 2007 (AIMS'07)

<http://w5.cs.uni-sb.de/~baus/aims07>

In conjunction with the AISB convention 2007

April 2-5, 2007, Newcastle upon Tyne, UK

Today's information technology is rapidly moving small computerised consumer devices and hi-tech personal appliances from the desks of research labs onto sales shelves and into our daily life. These include PDAs, embedded computers in cameras, cars, and mobile phones as well as high performance wearable computers and tablet PCs. Many of these devices are becoming essential tools that we increasingly rely on both in private and in professional settings. In addition, a growing number of locations are being outfitted with a ubiquitous infrastructure and networking access. This may enhance the capabilities of mobile devices in supporting us when solving daily tasks and may enable new applications. However, it also poses new challenges that AI methods may help to address, for example:

- * limited resources (in terms of computing power, storage, bandwidth, screen real estate etc.)
- * context dependency (location, social context, mental state of the user)
- * ambiguity in interaction (speech, gestures, multi-modal interaction)
- * adaptation (to a user, to (partial) outages of services and infrastructures)
- * modelling the world (what and where things are)

Scope:

Hence, the AIMS 2007 workshop intends to bring together researchers working in various areas of (applied) AI to discuss solutions to these challenges and further ones posed by mobile and ubiquitous computing. The main objective of the workshop is a lively discussion and exchange of ideas based on technical papers. The scope of interest includes but is not limited to the following topics (in no particular order):

- * mechanisms for location and context awareness (e.g. knowledge-based acquisition of contextual information, inference of location)
- * spatio-temporal issues and methods in mobile and ubiquitous computing (e.g. correlation between spatial abstractions and different interface modalities)
- * multi-modal interfaces for mobile and ubiquitous systems
- * user interfaces that adapt to the current situation as well as to resource availability (e.g. modelling the trade-offs between reasoning capabilities, resource consumption and real-time constraints)
- * plan-based approaches for interaction and adaptation
- * user modelling for mobile and ubiquitous computing
- * scalable ontologies

Important dates:

Jan 08, 2007: Deadline for submissions to AIMS 2007
Feb 05, 2007: Notification of acceptance to authors
Feb 23, 2007: Deadline for preparing camera-ready copies
Apr 2-5, 2005: AISB convention

Organising Committee:

Joerg Baus (Saarland University, Germany)
Christian Kray (Newcastle University, UK)

Program Committee:

Thomas Barkowsky (Bremen University, Germany)
Andreas Butz (LMU Munich, Germany)
Keith Cheverst (Lancaster University, UK)
Hartwig Hochmair (St. Cloud State University, USA)
Antonio Krueger (Münster University, Germany)
Rainer Malaka (Bremen University, Germany)
Thomas Rist (University of Applied Sciences Augsburg, Germany)
Albrecht Schmidt (TU Munich, Germany)
Georg Schneider (University of Applied Sciences Trier, Germany)
Massimo Zancanaro (IRST, Italy)

Paper Submission:

We encourage submissions from researchers and practitioners in academia, industry, government, and consulting. Students, researchers and practitioners are invited to submit papers (up to 6 pages) describing original, novel, and inspirational work. All submissions will be reviewed by an international group of researchers and practitioners. Submission should be sent by Jan 08, 2007, to Joerg Baus (baus@cs.uni-sb.de)

Location:

AIMS 2007 will be held in conjunction with the AISB convention 2007 in Newcastle Upon Tyne, UK. For more information about the event, refer to <http://www.aisb.org.uk/convention/aisb07>.