



Second Workshop on Context Awareness for Proactive Systems (CAPS 2006)

**June 12-13, 2006
Kassel, Germany**

<http://www.comtec.eecs.uni-kassel.de/caps2006>

Workshop Description and Objectives

Proactive computing systems are connected to the physical world by means of sensors and actuators which are used to both measure and manipulate the physical surroundings. The gathered environmental data serve proactive systems as stimuli to which they respond in terms of providing users with appropriate resources, information, and services.

In order to fulfil this task, proactive systems need to and benefit from taking users' contexts into account, i.e. using the gathered sensor data to infer users' state, activities, goals, and so on and to adjust their proactive behaviour accordingly.

In addition, mobile and pervasive environments have turned out to be a promising application area for proactive systems. Deploying proactive systems in such rapidly changing environments enforces the need to make them context-aware.

Context awareness in proactive systems opens up a lot of novel opportunities, however, it also poses new challenges upon proactive computing technology. The major objective of the workshop is to study and explore these challenges and proposed ways of meeting them. This includes research on modelling and representing context in proactive computing systems, frameworks and architectures for context handling, sensor and actuator management, context reasoning, learning, and prediction as well as on modelling, recognising and fulfilling user demand.

Topics of Interest

We appreciate submissions from all areas contributing to the development of context-aware proactive systems. Topics of interest include, but are not limited to:

- Sensor and actuator management
- Context modelling and representation
- Context data management
- Frameworks and architectures for context-aware systems
- Context learning and prediction techniques
- Context reasoning
- User demand recognition and modelling
- Context-based resource, information, and service provisioning
- Infrastructures for proactive systems

Intended Audience

The target group of the workshop includes researchers and practitioners from both industry and academia who are interested in developing and applying context-aware proactive systems. The workshop aims at providing a forum where ideas concerning the gathering, management, and use of context, in particular in proactive systems, can be exchanged among all participants.

Workshop Organisation and Venue

CAPS 2006 will be organised as a two day workshop. The workshop language will be English for both papers and presentations.

CAPS 2006 will be held at the University of Kassel, Wilhelmshöher Allee 73, Germany.

Important Dates

- * Submission of papers and posters: 10 February 2006
- * Notification of acceptance: 3 March 2006
- * Camera ready copies: 24 March 2006
- * CAPS 2006 workshop: 12-13 June 2006

* Early registration 100,- euros by 3 May 2006

* Late registration 150,- euros from 4 May 2006

Submissions

Paper submissions should be a maximum of 10 pages (including figures and references) in LNCS camera ready style (<http://www.springer.de/comp/lncs/authors.html>).

Poster submissions should be a maximum of 5 pages (including figures and references).

Software demonstration proposals should be a maximum of 2 pages describing the contents of the demonstration.

All papers must be written in English and submitted in PDF format.

The papers will be published in the proceedings of the workshop as well as on the web. At least one author of each accepted paper or poster must register for the workshop and present the contribution in order to be published in the workshop proceedings.

Details regarding the submission process can be found on the CAPS website.

Programme Committee

Heikki Ailisto, VTT, Finland, Guy Bernard, Institut National des Telecommunications, France, David Bonnefoy, Motorola, France, Klaus David, University of Kassel, Germany, Olaf Drögehorn, University of Kassel, Germany, Patrik Floréen, Helsinki Institute for Information Technology HIIT, Finland, Stefan Gessler, NEC, Germany, Sandra Haseloff, University of Kassel, Germany, Heikki Helin, TeliaSonera, Finland, Theo Kanter, Ericsson, Sweden, Mika Klemettinen, Nokia, Finland, Herma van Kranenburg, Telematica, the Netherlands, Martti Mäntylä, Helsinki Institute for Information Technology HIIT, Finland, Bernd Mrohs, Fraunhofer FOKUS, Germany, Kimmo Raatikainen, University of Helsinki, Finland, Kurt Rothermel, University of Stuttgart, Germany, Matthias Wagner, DoCoMo Euro-Labs, Germany

Organizing Committee

Sandra Haseloff, Olaf Drögehorn, and Klaus David, University of Kassel, Germany