



CAPS 2006



Second Workshop on Context Awareness for Proactive Systems

June 12-13, 2006 • Kassel, Germany • <http://www.comtec.eecs.uni-kassel.de/caps2006>

Important Dates

- * Submission deadline:
10 February 2006
- * Author notification:
3 March 2006
- * Camera ready copies:
24 March 2006
- * Early registration:
3 May 2006

Programme Committee

- * Heikki Ailisto, VTT, Finland
- * Guy Bernard, Institut National des Telecommunications, France
- * David Bonnefoy, Motorola, France
- * Klaus David, Univ. of Kassel, Germany
- * Olaf Drögehorn, Univ. of Kassel, Germany
- * Patrik Floréen, Helsinki Institute for Information Technology HIIT, Finland
- * Stefan Gessler, NEC, Germany
- * Sandra Haseloff, Univ. 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, Univ. of Helsinki, Finland
- * Kurt Rothermel, Univ. of Stuttgart, Germany
- * Matthias Wagner, DoCoMo EuroLabs, Germany

Organizing Committee

Sandra Haseloff, Olaf Drögehorn, and Klaus David, Univ. of Kassel, Germany

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 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.