



Modeling and Retrieval of Context

Call for Papers

September 2004
University of Ulm
Germany

www.mrc2004.de.ms

Objectives

Context and **context-awareness** are two of the most stressed but nevertheless important concepts for modern information and communication systems. Determination and assignment of context is a necessary factor to provide services and applications that are suited to a user and the user's current situation. Beginning with the idea of location-based services some years ago, in the age of mobility and mobile devices, context-awareness became a crucial point for IT applications.

Information on context is important for supporting and automating decisions. Further, it is expected that users get informed about the operations of **intelligent IT applications** such as, e.g., shopping adviser and support systems. Applied methods and given advices have to be explained, so the user can understand the process and agree on decisions.

An important prerequisite for using context information is an appropriate **context management**. To operate within context, models and tools are needed providing mechanisms and models for structured storage of context information, an effective way for retrieving it, and the possibility to connect context to depending knowledge.

With the use of mobile devices and current research on ubiquitous computing, the topic of context-awareness is a major issue for upcoming IT applications. Modeling and retrieving context provide means to be integrated in modern knowledge management processes. Intelligent solutions are needed to apply context, e.g., to cope with the fuzziness of context information and, especially because of mobility, rapidly changing environments and unsteady information sources. Advanced methodologies for concluding on or assigning a context to a situation are to be applied, which introduces the main fields of Artificial Intelligence mechanisms into context-aware applications.

Submissions and Style

Conference submission is electronic, in pdf or postscript format. The submission system will be available on the workshop's website in Mid-April. Submitted papers must not exceed 12 pages and should conform to Springer LNCS style. Papers must be written in English. At least one author of each accepted paper must register for the workshop and present the contribution. For further instructions and updated information, visit the workshop's website.

Submission deadline: April 26th, 2004

Topics of Interest

The major goal of the workshop is to bring researchers, scientists from both industry and academics, and representatives from different communities together to study, understand, and explore the handling of context in IT applications. Besides contributions and invited talks, this workshop will offer organized and open spaces for targeted discussions. As a result, a common understanding on the topic of modeling context and ways of retrieving it within such models shall originate.

The areas of interest include, but are not limited to:

- Generic context models
- Retrieval of context
- Matching context and situation
- Context and explanation
- Context-awareness in applications
- Mobile context

Invited talks

Two invited talks will be given by

- Albrecht Schmidt, on context-aware programming
- Kal Ahmed, on context in the topic maps standard

Workshop Chairs

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