



The 5th International Workshop on Ubiquitous User Modeling (UbiqUM'08)
Co-located with IUI 2008, Canary Islands:
<http://www.u2m.org/ubiquum2008/>

Background, Motivation and Goals:

In today's information world, small personal computerized devices, such as PDAs, smart phones and other smart appliances, become widely available and essential tools in many situations. The ongoing penetration of computers into everyday life leads to so-called *ubiquitous* environments, where computational power and networking capabilities are available (and used) everywhere. The strive of providing personal services to users made user modeling capability an essential part of any ubiquitous application.

Ubiquitous user modelling describes ongoing modeling and exploitation of user behaviour with a variety of systems that share their user models. These shared user models can either be used for mutual or for individual adaptation goals. Ubiquitous user modeling differs from *generic user modeling* by the three additional concepts: *ongoing modeling*, *ongoing sharing* and *ongoing exploitation*. Systems that share their user models will improve the coverage, the level of detail, and the reliability of the integrated user models and thus allow better functions of adaptation. Ubiquitous user modelling implies new challenges of scalability, scrutability and privacy. Furthermore, new issues of decentralization, communication and integration have to be addressed.

Currently, issues relating to ubiquitous user modelling are gaining more and more attention from research groups representing the user modeling community, the Human-Computer Interaction community and the ubiquitous computing community. The goal of this workshop is to bring together academic and industrial researchers from these communities to discuss the most innovative approaches to ubiquitous user modeling, to enhance the exchange of ideas and concepts, to determine the veins the research should proceed, and to go one step further towards personalization in ubiquitous computing and ongoing sharing. We expect that as a result of the workshop, new research directions will be defined and new collaborations among the workshop participants will be formed.

Topics of Interest:

Ubiquitous user modelling implies new challenges of scalability, scrutability and privacy. Furthermore, new issues of decentralization, communication and integration have to be addressed. The topics of interest include, but are not limited to:

- * User modelling in mobile and ubiquitous computing
- * Distributed and externalized user modelling
- * Integrated reasoning and inferences with user and context models
- * Spatial and temporal reasoning for ubiquitous user modelling
- * Construction and acquisition of distributed user models
- * Conflict resolution for ubiquitous user modelling
- * User modelling in intelligent environments like smart homes or smart cars
- * Semantic Web approaches and ontologies for distributed user modelling
- * Ubiquitous user modelling for entertainment and cultural heritage
- * Personalized user interfaces in pervasive computing
- * Privacy, security and trust in ubiquitous user modelling

Furthermore, the interoperability of applications like recommender systems, adaptive hypermedia, e-learning, adaptive navigation guides or personalized shopping guides is of special interest.

Submission Guidelines:

Full papers with up to 6 pages, position and short papers with up to 3 pages, posters and demonstration proposals with up to one page are accepted for the UbiqUM'08 workshop. The formatting guidelines are identical to the IUI2008 formatting guidelines and can be found at our webpage, where the submission process is described in detail.

Important Dates:

- * Paper submission deadline:
November 19th, 2007
- * Notification of acceptance:
December 3rd, 2007
- * Camera-ready papers due:
December 13th, 2007
- * UbiqUM 2008 workshop: January 13th, 2008

Workshop Format:

The suggested workshop will be a full day workshop in the following format:

09:00 – 10:00 An invited talk about state of the art in ubiquitous user modelling,

10:30 – 11:30, First session with position papers and papers about ubiquitous user modelling,

11:30 – 12:30, Demonstration and posters session of ubiquitous user modelling applications,

14:00 – 15:30 Second session with position papers and papers,

15:45 – 17:00, Closing discussion about research directions of ubiquitous user modelling and possible collaboration among the workshop participants in pursuing the defined research directions.

** At least one of the authors of an accepted paper is expected to register to the workshop (separately than IUI conference), attend the workshop and present the paper/poster/demo.*

Organizing Committee:

Shlomo Berkovsky, Department of Computer Science and Software Engineering, Melbourne University, Australia, shlomo@csse.unimelb.edu.au

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Program Committee – (an Initial list of people that already agreed to serve on the PC)

Liliana Ardissono, University of Torino, Italy.

Lora Aroyo, Free University Amsterdam, the Netherlands

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Francesca Carmagnola, University of Torino, Italy

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