Special Issue on Adaptation and Personalization for Ubiquitous Computing

Ubiquitous computing takes a human-centered paradigm that aims to provide users with adaptive and personalized services according to their surrounding context. Adaptation and personalization technologies are thus the basis of ubiquitous computing. They are also the core for realizing context-awareness in pervasive service provisioning. In ubiquitous computing environments, people are surrounded by a lot of networked computers (e.g. PCs, TVs) and mobile devices such as PDAs, cellular phones, etc.. They intend to access their desired content anytime anywhere with the accessible devices. To offer the right information to users at the right place in the right way is challenging due to many reasons, such as various user interests, heterogeneous environments and devices, dynamic networks, information overload, user privacy, and so on.

This special issue aims to explore the adaptation and personalization services and technologies for ubiquitous computing. It will provide an overview of underlying technologies and typical applications to help understand the key design issues of such a system. We also hope that the key issues presented here will advance the discussion in the community towards future ubiquitous personalized systems. This special issue will accept original research papers including topics like user modeling, context modeling and reasoning, recommendation technologies, content adaptation, intelligent user interface, privacy, etc. The papers will be peer reviewed and will be selected on the basis of their quality and relevance to the theme of this special issue. Topics include (but are not limited to):

- User modeling for ubicomp applications
- Context modeling and reasoning
- User preference mining in a mobile and ubiquitous context
- Capturing and processing implicit and explicit feedback
- Domain knowledge and ontology for ubiquitous personalization
- Context-awareness
- Conflict resolution
- Recommendation technologies
- Hybrid recommender systems
- Group recommendation and collaboration
- Content adaptation
- Intelligent user interface
- Personalized and adaptive views
- Privacy in personalization
- Semantic web approaches for ubiquitous user modeling
- Social, cultural, and cognitive factors in personalization
- User studies and experiences
- Evaluation of ubiquitous personalization systems
- Applications, such as entertainment, e-learning, healthcare, smart home, and smart meeting

Important Dates

Full manuscript due:	Nov. 30, 2010
Notification of the first review process:	Feb. 15, 2011
Final acceptance notification:	Apr. 20, 2011
Final manuscript due:	May 10, 2011
Publication date:	Fall 2011 (Tentative)

Submission Guidelines

Submissions should be prepared according to the author instructions available at the journal homepage, http://www.springer.com/computer/user+interfaces/journal/779. Manuscripts must be submitted in the form of PDF

file to the corresponding editor Zhiwen Yu (zhiweny@gmail.com). Information about the manuscript (title, full list of authors, corresponding author's contact, abstract, and keywords) must be included in the submission email. Relevant best papers of UIC 2010 (The 7th International Conference on Ubiquitous Intelligence and Computing, http://www.nwpu.edu.cn/uic2010/) can be extended and invited to this special issue. The UIC 2010 extended versions must have at least 30% difference from their original papers and will receive further peer review.

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