

International Workshop on Adaptivity and User Modeling (ABIS)

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ABIS 2014 - 20th International Workshop on Adaptivity and User Modeling

Mirjam Augstein¹, Boris Brandherm², Dominikus Heckmann³, Eelco Herder⁴, Wolfgang Wörndl⁵

University of Applied Sciences Upper Austria, Hagenberg¹

DFKI, Saarbrücken²

OTH Amberg-Weiden³

L3S Research Center, Hannover⁴

TU München⁵

Abstract

ABIS 2014 is an international workshop, organized by the SIG on Adaptivity and User Modeling of the German Gesellschaft für Informatik¹. For the last 19 years, the ABIS Workshop has been a highly interactive forum for discussing the state of the art in personalization and user modeling. Latest developments in industry and research are presented in plenary sessions, forums, and tutorials. Researchers, Ph.D. students and Web professionals obtain and exchange novel ideas, expertise and feedback on ongoing research before submitting their work to major conferences such as CHI, UMAP, WWW and SIGIR.

1 Introduction

User modeling and adaptive systems deal with creating and maintaining a user model with the aim to adapt interactive systems. User models can be inferred from implicitly observed user behavior or explicitly entered information, such as the user's profile data, the user's current location or items that the user browsed, searched, tagged or bought earlier. Applications of personalization include recommendations of items, location-based services, updates on friend activities, interest-based portal sites, educative games and personalized guidance or help.

¹ <http://abis.l3s.uni-hannover.de/>

With the ongoing transition from desktop computers to mobile devices and ubiquitous environments, the need for more and better user modeling and personalization to adapt to changing contexts in various situations is even more important. But this also poses new challenges, including privacy problems and questions of user control. Systems may draw wrong conclusions about a user's search actions, limit functionality due to badly designed personalized menus, or may inadvertently disclose sensitive information to colleagues and friends.

In addition, the user experience is becoming more important in a mobile and connected world. It may not be only important to deliver the absolute best recommendations, but have fast and "good enough" recommendations. On the one hand, there is a battle for the attention of users. On the other hand, the cost of wrong adaptation is very high, users may quickly switch to different applications and service, if he or she is getting annoyed.

Personalization does not need to be limited to generating lists of recommendations: adaptations such as personalized maps, tailored menus, link annotation and scripting potentially have a greater effect on the user experience. A particular design issue is the explanation of why items are recommended, or which interface elements have been adapted - and how this can be made undone, if needed. And how can one encourage users to inspect and adjust their user profiles, collected information and privacy settings?

2 Organizers

All except one of the organizers are current board members of the ABIS SIG on Adaptivity and User Modeling. Below you find their short biographies with links to their homepages for more information.

Mirjam Augstein. Professor for Collaborative Systems at University of Applied Sciences Upper Austria in Hagenberg. Her research interests include personalization, user modeling, educational data mining and assistive technologies. Organizer of ABIS 2009 and ABIS 2012.

<http://research.fh-ooe.at/de/staff/2450>

Boris Brandherm. Senior researcher at German Research Center for Artificial Intelligence GmbH (DFKI). Research interests include but are not restricted to: Dynamic Bayesian Networks, Embedded Systems, Ambient Assisted Living, Smart Homes, Smart Grids, and Smart Cities. Local Organizer of LWA 2005 (Saarbrücken), Local Chair and Submission Chair of IVA 2008 (Tokyo / Japan), and Local Chair of KI 2012 (Saarbrücken / Germany).

<http://www.dfki.de/web/kontakt/mitarbeiter?uid=bobr01>

Dominikus Heckmann. Professor for Human-Computer-Interaction at the University of Applied Science Amberg-Weiden, former Senior researcher at DFKI. Research topics include personalization, semantic web and ubiquitous computing. Current vice-chair of ABIS. Organizer of several UbiqUM and ABIS workshops.

<http://w5.cs.uni-sb.de/staff/show/dominik>

Eelco Herder. Senior researcher at the L3S Research Center in Hannover and current chair of ABIS. His research interests include user modeling, personalization, web usage mining and user studies. Program chair of Hypertext 2014, workshop chair of UMAP 2012, poster and demo chair of UMAP 2013, publicity chair of CHI 2012.

<http://www.l3s.de/~herder/>

Wolfgang Wörndl. Wolfgang Wörndl. Senior researcher and lecturer at TU München. Current research interests include user modeling and recommender systems, especially in mobile scenarios. Member of the organization team and student volunteer chair of the Communities&Technologies 2013 and Mensch und Computer 2014 conferences.

<http://www11.in.tum.de/lehrstuhl/personen/woerndl>

3 Program Committee

- Martin Atzmueller, University of Kassel, Germany
- Mirjam Augstein, Upper Austria University of Applied Sciences, Austria
- Maria Bielikova, Slovak University of Technology in Bratislava, Slovakia
- Gerd Bruder, University of Hamburg, Germany
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- Dominikus Heckmann, Ostbayerische Technische Hochschule Amberg-Weiden, Germany
- Eelco Herder, L3S Research Center, Germany
- Rong Hu, Swiss Federal Institute of Technology in Lausanne, Switzerland
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