P R O C E E D I N G S

The 7th International Workshop on
Intelligent Techniques for Web Personalization
& Recommender Systems

ITWP 2009

Editors:
Sarabjot Singh Anand, Bamshad Mobasher, Alfred Kobsa, Dietmar Jannach

July 11, 2009
Pasadena, California, USA

In conjunction with
The 21st International Joint Conference on
Artificial Intelligence - IJCAI 2009
# Table of Contents

## Long Papers

Online Selection of Mediated and Domain-Specific Predictions for Improved Recommender Systems  
*Stephanie Rosenthal, Manuela Veloso, Anind Dey*  .......................................................... 1

Using Gaussian Spatial Processes to Model and Predict Interests in Museum Exhibits  
*Fabian Bohnert, Ingrid Zukerman, and Daniel F. Schmidt*  ............................................ 13

Optimal Set Recommendations based on Regret  
*Paolo Viappiani, Craig Boutilier*  ................................................................. 20

Uncovering Functional Dependencies in MDD-Compiled Product Catalogues  
*Tariq Hadzic and Barry O'Sullivan*  ............................................................. 32

Effectiveness of different recommender algorithms in the Mobile Internet: A case study  
*Kolja Hegelich and Dietmar Jannach*  ............................................................. 41

Adapting K-Nearest Neighbor for Tag Recommendation in Folksonomies  
*Jonathan Gemmell, Thomas Schimoler, Maryam Ramezani, Bamshad Mobasher*  .......... 51

Analysis of Web Usage Patterns in Consideration of Various Contextual Factors  
*Jinhyuk Choi, Jeongseok Seo and Geehyuk Lee*  ......................................................... 63

## Short Papers

*Houda Oufaida*  ................................................................. 75

Intelligent Web Navigation Using Virtual Assistants  
*Eduardo Eisman*  ................................................................. 81

Collaborative Filtering With Adaptive Information Sources  
*Neal Lathia, Xavier Amatriain and Josep M. Pujol*  ......................................................... 87