

Capturing knowledge of User Preferences: Ontologies in Recommender Systems

Stuart E. Middleton, David C. De Roure and Nigel R. Shadbolt

Department of Electronics and Computer Science

University of Southampton

Southampton, SO17 1BJ, UK

Email : {sem99r,dder,nrs}@ecs.soton.ac.uk

ABSTRACT

Tools for filtering the World Wide Web exist, but they are hampered by the difficulty of capturing user preferences in such a dynamic environment. We explore the acquisition of user profiles by unobtrusive monitoring of browsing behaviour and application of supervised machine-learning techniques coupled with an ontological representation to extract user preferences. A multi-class approach to paper classification is used, allowing the paper topic taxonomy to be utilised during profile construction. The Quickstep recommender system is presented and two empirical studies evaluate it in a real world setting, measuring the effectiveness of using a hierarchical topic ontology compared with an extendable flat list.

Keywords

Ontology, recommender system, user profiling, machine learning

INTRODUCTION

The mass of content available on the World-Wide Web raises important questions over its effective use. With largely unstructured pages authored by a massive range of people on a diverse range of topics, simple browsing has given way to filtering as the practical way to manage web-based information – and for most of us that means search engines.

Search engines are very effective at filtering pages that match explicit queries. Unfortunately, most people find articulating what they want extremely difficult, especially if forced to use a limited vocabulary such as keywords. The result is large lists of search results that contain a handful of useful pages, defeating the purpose of filtering in the first place.

Recommender Systems Can Help

Now people may find articulating what they want hard, but they are very good at recognizing it when they see it. This

insight has led to the utilization of relevance feedback, where people rate web pages as interesting or not interesting and the system tries to find pages that match the interesting examples (positive examples) and do not match the not interesting examples (negative examples). With sufficient positive and negative examples, modern machine learning techniques can classify new pages with impressive accuracy.

Obtaining sufficient examples is difficult however, especially when trying to obtain negative examples. The problem with asking people for examples is that the cost, in terms of time and effort, of providing the examples generally outweighs the reward they will eventually receive. Negative examples are particularly unrewarding, since there could be many irrelevant items to any typical query.

Unobtrusive monitoring provides positive examples of what the user is looking for, without interfering with the users normal activity. Heuristics can also be applied to infer negative examples, although generally with less confidence. This idea has led to content-based recommender systems, which unobtrusively watch users browse the web, and recommend new pages that correlate with a user profile.

Another way to recommend pages is based on the ratings of other people who have seen the page before. Collaborative recommender systems do this by asking people to rate explicitly pages and then recommend new pages that similar users have rated highly. The problem with collaborative filtering is that there is no direct reward for providing examples since they only help other people. This leads to initial difficulties in obtaining a sufficient number of ratings for the system to be useful.

Hybrid systems, attempting to combine the advantages of content-based and collaborative recommender systems, have proved popular to-date. The feedback required for content-based recommendation is shared, allowing collaborative recommendation as well. A hybrid approach is used by our Quickstep recommender system.

This work follows the tradition of over 30 years of knowledge acquisition. Knowledge acquisition above the normal workflow is intrusive and counterproductive. We present a system with a low level of intrusiveness, driven by

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Rundensteiner, Markus Kirchberg, Michaela Bertolotto, Mathias Brochhausen, Phoebe Chen, Samira Sisaid Cherfi, Martin Doerr, Hyoil Han, Sven Hartmann, Jeffrey Parsons, Geert Poels, Colette Rolland, Eric Yu, Esteban Zimlanyi, 2007-11-13 This book constitutes the refereed joint proceedings of six workshops held in conjunction with the 26th International Conference on Conceptual Modeling Topics include conceptual modeling for life sciences applications foundations and practices of UML ontologies and information systems for the semantic Web quality of information systems requirements intentions and goals in conceptual modeling and semantic and conceptual issues in geographic information systems **Databases and**

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Intelligent Support for Knowledge Capture and Construction Ana Gabriela Maguitman,2004

Handbook of Research on Web Log Analysis Bernard J. Jansen,Amanda Spink,Isak Taksai,2009 This book reflects on the multifaceted themes of Web use and presents various approaches to log analysis Provided by publisher

Data Mining IV Nelson F. F. Ebecken,C. A. Brebbia,A. Zanasi,2004 Sixty three papers from a December 2003 conference describe recent advances in data mining problems encompassing both original research results and practical development experience The goal is to develop algorithms and data structures that facilitate analysis of large amounts of data Contributors from academia and industry cover such diverse areas as machine learning databases statistics knowledge acquisitions data visualization and knowledge based systems Papers are organized in sections on data and text mining clustering categorization CRM case studies post processing and knowledge evaluation genomics and bioinformatics novel applications and scalable algorithms and high performance platforms There is no subject index The US office of WIT Press is Computational Mechanics Annotation 2004 Book News Inc Portland OR booknews com

Encyclopedia of Multimedia Technology and Networking Margherita Pagani,2008-08-15 This publication offers a research compendium of human knowledge related to the emerging multimedia digital metamarket Provided by publisher

Proceedings of the ... International Conference on Knowledge Capture ,2003

Digital Libraries ,2003

ACM Transactions on Information Systems ,2004 Considers the design performance and evaluation of computer systems that facilitate the presentation of information in a variety of media as well as the underlying technologies that support these systems Major themes include information retrieval and information filtering information interfaces natural language processing knowledge and information representation multimedia information systems networked information systems organizational interfaces and social impact of information systems and design and evaluation

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IEEE/WIC International Conference on Web Intelligence Jiming Liu,2003

Hypertext 03 Conference on Hypertext and Hypermedia (14, 2003, Nottingham),2003

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Capturing knowledge of user preferences with recommender systems Stuart Edward Middleton,2003

Ambient Intelligence, Wireless Networking, and Ubiquitous Computing Athanasios Vasilakos,Witold Pedrycz,2006 Ambient

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Capturing Knowledge Of User Preferences Ontologies In Introduction

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