Capturing knowledge of User Preferences: Ontologies in Recommender Systems

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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 work 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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Advances in Conceptual Modeling - Foundations and Applications Jean-Luc Hainaut,Elke Al. 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 Information Systems VI** Marite Kirikova,2011 Selected Papers from the Ninth International This volume presents papers from the Ninth International Baltic Conference on Databases and Information Systems Baltic DBIS 2010 which took place in Riga Latvia in July 2010 Since this successful biennial series began in 1994 the Baltic DBIS confer **Databases and Information Systems VII** Albertas Caplinskas,Gintautas Dzemyda,Audrone Lupeikiene,Olegas Vasilecas,2013 Conference held July 8 11 2012 in Vilnius Lithuania **Intelligent Information and Database Systems** Ngoc Thanh Nguyen,Satoshi Tojo,Le Minh Nguyen,Bogdan Trawiński,2017-03-23 The two volume set LNAI 10191 and 10192 constitutes the refereed proceedings of the 9th Asian Conference on Intelligent Information and Database Systems ACIIDS 2017 held in Kanazawa Japan in April 2017 The total of 152 full papers accepted for publication in these proceedings was carefully reviewed and selected from 420 submissions They were organized in topical sections named Knowledge Engineering and Semantic Web Social Networks and Recommender Systems Text Processing and Information Retrieval Intelligent Database Systems Intelligent Information Systems Decision Support and Control Systems Machine Learning and Data Mining Computer Vision Techniques Advanced Data Mining Techniques and Applications Intelligent and Context Systems Multiple Model Approach to Machine Learning Applications of Data Science Artificial Intelligence Applications for E services Automated Reasoning and Proving Techniques with Applications in Intelligent Systems Collective Intelligence for Service Innovation Technology Opportunity E Learning and Fuzzy Intelligent Systems Intelligent Computer Vision Systems and Applications Intelligent Data Analysis Applications and Technologies for Internet of Things Intelligent Algorithms and Brain Functions Intelligent Systems and Algorithms in Information Sciences IT in Biomedicine Intelligent Technologies in the Smart Cities in the 21st Century Analysis of Image Video and Motion Data in Life Sciences Modern Applications of Machine Learning for Actionable Knowledge Extraction Mathematics of Decision Sciences and Information Science Scalable Data Analysis in Bioinformatics and Biomedical Informatics and Technological Perspective of Agile Transformation in IT organizations Artificial Intelligence Applications and Innovations Vladan Devedžic,2006-04-11 Artificial Intelligence and Innovations AIAI will interest researchers IT professionals and consultants by examining technologies and applications of demonstrable value The

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