

Recommending HTML-documents using Feature Guided Automated Collaborative Filtering

Gabriela Polčicová¹

¹ Comenius University, Faculty of Mathematics and Physics, Institute of Informatics,
Mlynská dolina
842 15 Bratislava, Slovakia
polcicova@fmph.uniba.sk

Abstract. We proposed the system that utilizes Feature Guided Automated Collaborative Filtering for recommending relevant HTML-documents to the users. While browsing the World Wide Web, user expresses his opinions on documents by rating them. The system "learns" user's opinions and searches for like-minded users in order to recommend him unseen relevant documents of interest.

1 Introduction

Exponential growth of the number of information sources accessible through the Internet makes searching for relevant information complicated. One of the approaches how to tackle this problem is Information Filtering. Filtering systems that learn user's preferences and recommend to the user only information suitable for his needs are also termed Recommender systems. The method for recommending appropriate information using opinions of users with similar preferences is called Automated Collaborative Filtering (ACF). The recommender system - described in this paper - uses a particular type of the ACF method called Feature Guided Automated Collaborative Filtering (FGACF) for recommending HTML-documents to the users.

2 Feature Guided Automated Collaborative Filtering

Information Filtering (IF) is a term used to describe a variety of processes involving the delivery of information to the people who need it [2]. One type of automated IF is Automated Collaborative Filtering. ACF leverages the collective intelligence of the people in a community to assist individuals in finding personally relevant information. This filtering is based on the hypothesis that users who had similar preferences in the past will probably have similar preferences again [7]. Recommender systems using ACF operate by collecting user's opinions on a set of items via ratings of these items. By comparing ratings they search through the community of users to detect users with similar opinions. Opinions of those like-minded users about items