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Abstract

Many applications of collaborative filtering (CF), such as large scale recommendation and bookmark recommendations, are most naturally thought of as matrix factorization filtering (MCF) problems. In these problems, the missing data usually consist simply of binary data representing user's actions or reactions, such as page visits or the case of user like recommendations. Thus an webpage bookmarking or the bookmarking activities. Usually this kind of data are extremely sparse. In small fraction are positive examples. Therefore user likely errors in the interpretation of the independent variables. Negative examples and unlabeled positive examples are mixed together and we are typically unable to distinguish them. For example, we cannot really attribute a user not bookmarking a page to a lack of interest or lack of awareness of the page. Previous research addressing this non-linear problem only considered it as an optimization task. In this paper, we consider the non-linear problem under the CF setting. We propose two frameworks for hybrid MCF. One is based on simplified low rank approximation, the other is based on implicit matrix completion. The experimental results show that our approaches significantly outperform the baseline.

1 Introduction

Personalized services are becoming increasingly indispensable in the Web, ranging from providing search results to product recommendations. Examples of such systems include recommending products at Amazon

com.com¹, DVDs at Netflix², News by Google³ etc. The central techniques used in these systems is collaborative filtering (CF) which aims at predicting the preference of users for a particular user based on the items previously rated by all users. The rating information in different users (such as a 1-5 scale in Netflix) can be explicitly given by users in many of these systems. However, in many other situations, it also can be implicitly represented by users' behaviors such as click or purchase and bookmark or not-bookmark. These kinds of implicit ratings are more continuous and harder to obtain.

Although the advantages are clear, a drawback of implicit rating, especially in situations of data sparsity, is that it is hard to identify representative negative examples. All the negative examples and unlabeled positive examples are mixed together and cannot be distinguished. We refer to collaborative filtering with only positive examples given as Chao-Chuan Collaborative Filtering (CCCF). CCCF differs in different connection with two examples as follows:

- **Social Bookmarks:** Social bookmarks are very popular in Web 2.0 services such as del.icio.us. In such a system, each user bookmarks a set of webpages which can be regarded as positive examples of the user's interests. But two possible explanations there can be made for the behavior that a user did not bookmark a webpage. The first case is, this page is of the user's interest but she did not use the page before the current one in that user had seen this page but at a cost of low interest. We cannot account all the page not in his bookmarks as negative examples. Similar examples include email newsletters, etc.

¹<http://www.amazon.com>
²<http://www.netflix.com>
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