

# One Class Collaborative Filtering Rong Pan

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### One Class Collaborative Filtering Rong

#### **One-Class Collaborative Filtering - Rong Pan**

One-Class Collaborative Filtering Rong Pan<sup>1</sup> Yunhong Zhou<sup>2</sup> Bin Cao<sup>3</sup> Nathan N Liu<sup>3</sup> Rajan Lukose<sup>1</sup> Martin Scholz<sup>1</sup> Qiang Yang<sup>3</sup> 1HP Labs, 1501 Page Mill Rd, Palo Alto, CA, 94304, US {rongpan,rajanlukose,scholz}@hpc.com

#### **One-Class Collaborative Filtering - HP Labs**

collaborative filtering, one-class, missing values Abstract: Many applications of collaborative filtering (CF), such as news item recommendation and bookmark recommendation, are most naturally thought of as one-class collaborative filtering (OCCF) problems In these problems, the training data usually consist simply of binary data

#### **A Bayesian Approach toward Active Learning for ...**

A Bayesian Approach toward Active Learning for Collaborative Filtering Rong Jin Luo Si Department of Computer Science and Engineering Michigan State University rong@csecmuedu Language Technology Institute School of Computer Science Carnegie Mellon University Pittsburgh, PA ...

#### **Collaborative Filtering with Multi-component Rating for ...**

Collaborative Filtering with Multi-component Rating for Recommender Systems Nachiketa Sahoo Ramayya Krishnan George Duncan James P Callan Heinz School Heinz School Heinz School Language Technology Institute FMM with one rating component by Luo Si and Rong Jin[11], (b)

#### **Flexible Mixture Model for Collaborative Filtering**

discusses previous work The proposed flexible mixture model for collaborative filtering is presented in Section 3 The extended version of flexible mixture model with the decoupling of rating and preference is discussed in Section 4 Section 5 presents experiments results Conclusions and future work are discussed in Section 6 2

**Preference-based Graphic Models for Collaborative Filtering**

Preference-based Graphic Models for Collaborative Filtering Rong Jin, Luo Si School of Computer Science Carnegie Mellon University Pittsburgh, PA 15232 {rong,lsi}@cscmuedu Abstract Collaborative filtering is a very useful general technique for exploiting the preference patterns of a group of users to predict the utility of items

**A Study of Methods for Normalizing User Ratings in ...**

A Study of Methods for Normalizing User Ratings in Collaborative Filtering Rong Jin Dept of Computer Science and Engineering Michigan State University East Lansing, MI 48824 rongjin@csemsuedu Luo Si School of Computer Science Carnegie Mellon University ...

**Preference-based Graphic Models for Collaborative Filtering**

Preference-based Graphic Models for Collaborative Filtering Rong Jin, Luo Si ChengXiang Zhai School of Computer Science Carnegie Mellon University Pittsburgh, PA 15232 {rong,lsi}@cscmuedu Department of Computer Science University of Illinois at Urbana-Champaign Urbana, IL 61801 czhai@csuiucedu Abstract

**A Study of Methods for Normalizing User Ratings in ...**

A Study of Methods for Normalizing User Ratings in Collaborative Filtering Rong Jin Dept of Computer Science and Engineering Michigan State University East Lansing, MI 48824 rongjin@csemsuedu Luo Si School of Computer Science Carnegie Mellon University Pittsburgh, PA 15213 lsi@cscmuedu ABSTRACT The goal of collaborative filtering is to

**An Automatic Weighting Scheme for Collaborative Filtering**

An Automatic Weighting Scheme for Collaborative Filtering Rong Jin Dept of Computer Science and Engineering Michigan State University East Lansing, MI 48824 rongjin@csemsuedu Joyce Y Chai Dept of Computer Science and Engineering Michigan State University East Lansing, MI 82 jchai@emud Luo Si School of Computer Science Carnegie Mellon University Pittsburgh, PA 15213 lsi@cscmuedu

**A Bayesian Approach toward Active Learning for ...**

A Bayesian Approach toward Active Learning for Collaborative Filtering Rong Jin Luo Si Department of Computer Science and Engineering work on collaborative filtering, followed by the previous work on active filtering data points of one class and stars represent data points of the other class

**Scalable Collaborative Filtering Using Cluster-based ...**

Scalable Collaborative Filtering Using Cluster-based Smoothing\* Gui-Rong Xue<sup>1</sup>, Chenxi Lin<sup>1</sup>, Qiang Yang<sup>3</sup>, WenSi Xi<sup>4</sup>, Hua-Jun Zeng<sup>2</sup>, Yong Yu<sup>1</sup>, Zheng Chen<sup>2</sup> <sup>1</sup>Computer Science and Engineering Shanghai Jiao-Tong University Shanghai 200030, PRChina {grxue, linchenxi, yyu}@sjtueducn

**An Automatic Weighting Scheme for Collaborative Filtering**

and retrieval— Information Filtering Keywords Collaborative filtering, memory-based approach, leave one out method, item weighting scheme 1 INTRODUCTION Collaborative filtering predicts the utilities of items for a particular user based on the rating information for the ...

**Recency-Based Collaborative Filtering**

Recency-Based Collaborative Filtering Yi Ding Xue Li Maria E Orłowska School of Information Technology and Electrical Engineering University of Queensland ITEE, University of Queensland, QLD 4072, Australia Email: fding,xueli,mariag@iteeuq.edu.au Abstract Collaborative filtering is regarded as one of the most promising recommendation algorithms

**One-Class Collaborative Filtering - HP Labs**

One-Class Collaborative Filtering Rong Pan<sup>1</sup> Yunhong Zhou<sup>2</sup> Bin Cao<sup>3</sup> Nathan N Liu<sup>3</sup> Rajan Lukose<sup>1</sup> Martin Scholz<sup>1</sup> Qiang Yang<sup>3</sup> <sup>1</sup>:HP Labs, 1501

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### **Time Weight Collaborative Filtering**

Collaborative filtering is regarded as one of the most promising recommendation algorithms. The item-based approaches for collaborative filtering identify the similarity between two items by comparing users' ratings on them. In these approaches, ratings produced at different times are weighted equally.

### **Informative Household Recommendation with Feature-based ...**

Missing as negative and all missing as unknown. Rong Pan et al [15] proposed a collaborative filtering task called One-Class Collaborative Filtering (OCCF) which only has positive examples. In their work, they proposed two approaches, the weighting based approach and the sampling based method, to balance the extent of treating missing values.

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### **On Multi-component Rating and Collaborative Filtering for ...**

Collaborative filtering algorithms learn from the ratings of a group of users on a set of items to find recommendations for each user. Traditionally they have been designed to work with one dimensional ratings. With interest growing in recommending based on multiple aspects of items (Adomavicius and Kwon 2007,

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