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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 scenarios. 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 completed data and approximately the other is based on implicit ratings sampling. The experimental results show that our approaches significantly outperform the baseline.

www.computer.org, ACM in NetMag², News by Google³ etc. The central techniques used in these systems is collaborative rating 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 is generated by different users (such as a 1-5 scale in NetMag) 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 on articles and bookmark or not-bookmark. These kind of implicit ratings are more continuous and easier 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 scenarios 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 web pages which can be regarded as positive examples of the user's interests. But two possible explanations 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 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

¹<http://www.acm.com>
²<http://www.netmag.com>
³<http://www.google.com>

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Saman Izadpanah



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Software Design and Development: Concepts, Methodologies, Tools, and Applications Management Association, Information Resources, 2013-07-31 Innovative tools and techniques for the development and design of software systems are essential to the problem solving and planning of software solutions **Software Design and Development Concepts Methodologies Tools and Applications** brings together the best practices of theory and implementation in the development of software systems This reference source is essential for researchers engineers practitioners and scholars seeking the latest knowledge on the techniques applications and methodologies for the design and development of software systems

Computational Trust Models and Machine Learning Xin Liu, Anwitaman Datta, Ee-Peng Lim, 2014-10-29 **Computational Trust Models and Machine Learning** provides a detailed introduction to the concept of trust and its application in various computer science areas including multi agent systems online social networks and communication systems Identifying trust modeling challenges that cannot be addressed by traditional approaches this book Explains how reputation based systems are used to determine trust in diverse online communities Describes how machine learning techniques are employed to build robust reputation systems Explores two distinctive approaches to determining credibility of resources one where the human role is implicit and one that leverages human input explicitly Shows how decision support can be facilitated by computational trust models Discusses collaborative filtering based trust aware recommendation systems Defines a framework for translating a trust modeling problem into a learning problem Investigates the objectivity of human feedback emphasizing the need to filter out outlying opinions **Computational Trust Models and Machine Learning** effectively demonstrates how novel machine learning techniques can improve the accuracy of trust assessment Compatibility Modeling Xuemeng

Song, Liqiang Nie, Yinglong Wang, 2022-06-01 Nowadays fashion has become an essential aspect of people's daily life As each outfit usually comprises several complementary items such as a top bottom shoes and accessories a proper outfit largely relies on the harmonious matching of these items Nevertheless not everyone is good at outfit composition especially those who have a poor fashion aesthetic Fortunately in recent years the number of online fashion oriented communities like IQON and Chictopia as well as e-commerce sites like Amazon and eBay has grown The tremendous amount of real world data regarding people's various fashion behaviors has opened a door to automatic clothing matching Despite its significant value compatibility modeling for clothing matching that assesses the compatibility score for a given set of equal or more than two fashion items e.g. a blouse and a skirt yields tough challenges a the absence of comprehensive benchmark b comprehensive compatibility modeling with the multi-modal feature variables is largely untapped c how to utilize the domain knowledge to guide the machine learning d how to enhance the interpretability of the compatibility modeling and e how to model the user factor in the personalized compatibility modeling These challenges have been largely unexplored to date In this book we shed light on several state-of-the-art theories on compatibility modeling In particular to facilitate the research we first build three

large scale benchmark datasets from different online fashion websites including IQON and Amazon We then introduce a general data driven compatibility modeling scheme based on advanced neural networks To make use of the abundant fashion domain knowledge i e clothing matching rules we next present a novel knowledge guided compatibility modeling framework Thereafter to enhance the model interpretability we put forward a prototype wise interpretable compatibility modeling approach Following that noticing the subjective aesthetics of users we extend the general compatibility modeling to the personalized version Moreover we further study the real world problem of personalized capsule wardrobe creation aiming to generate a minimum collection of garments that is both compatible and suitable for the user Finally we conclude the book and present future research directions such as the generative compatibility modeling virtual try on with arbitrary poses and clothing generation

Network Connectivity Chen Chen, Hanghang Tong, 2022-05-31 Networks naturally appear in many high impact domains ranging from social network analysis to disease dissemination studies to infrastructure system design Within network studies network connectivity plays an important role in a myriad of applications The diversity of application areas has spurred numerous connectivity measures each designed for some specific tasks Depending on the complexity of connectivity measures the computational cost of calculating the connectivity score can vary significantly Moreover the complexity of the connectivity would predominantly affect the hardness of connectivity optimization which is a fundamental problem for network connectivity studies This book presents a thorough study in network connectivity including its concepts computation and optimization Specifically a unified connectivity measure model will be introduced to unveil the commonality among existing connectivity measures For the connectivity computation aspect the authors introduce the connectivity tracking problems and present several effective connectivity inference frameworks under different network settings Taking the connectivity optimization perspective the book analyzes the problem theoretically and introduces an approximation framework to effectively optimize the network connectivity Lastly the book discusses the new research frontiers and directions to explore for network connectivity studies This book is an accessible introduction to the study of connectivity in complex networks It is essential reading for advanced undergraduates Ph D students as well as researchers and practitioners who are interested in graph mining data mining and machine learning

Educational Recommender Systems and Technologies: Practices and Challenges Santos, Olga C., 2011-12-31 Recommender systems have shown to be successful in many domains where information overload exists This success has motivated research on how to deploy recommender systems in educational scenarios to facilitate access to a wide spectrum of information Tackling open issues in their deployment is gaining importance as lifelong learning becomes a necessity of the current knowledge based society Although Educational Recommender Systems ERS share the same key objectives as recommenders for e commerce applications there are some particularities that should be considered before directly applying existing solutions from those applications Educational Recommender Systems and Technologies Practices and Challenges aims to provide a comprehensive review of

state of the art practices for ERS as well as the challenges to achieve their actual deployment Discussing such topics as the state of the art of ERS methodologies to develop ERS and architectures to support the recommendation process this book covers researchers interested in recommendation strategies for educational scenarios and in evaluating the impact of recommendations in learning as well as academics and practitioners in the area of technology enhanced learning

Mastering Machine Learning with R Cory Lesmeister,2017-04-24 Master machine learning techniques with R to deliver insights in complex projects About This Book Understand and apply machine learning methods using an extensive set of R packages such as XGBOOST Understand the benefits and potential pitfalls of using machine learning methods such as Multi Class Classification and Unsupervised Learning Implement advanced concepts in machine learning with this example rich guide Who This Book Is For This book is for data science professionals data analysts or anyone with a working knowledge of machine learning with R who now want to take their skills to the next level and become an expert in the field What You Will Learn Gain deep insights into the application of machine learning tools in the industry Manipulate data in R efficiently to prepare it for analysis Master the skill of recognizing techniques for effective visualization of data Understand why and how to create test and training data sets for analysis Master fundamental learning methods such as linear and logistic regression Comprehend advanced learning methods such as support vector machines Learn how to use R in a cloud service such as Amazon In Detail This book will teach you advanced techniques in machine learning with the latest code in R 3 3 2 You will delve into statistical learning theory and supervised learning design efficient algorithms learn about creating Recommendation Engines use multi class classification and deep learning and more You will explore in depth topics such as data mining classification clustering regression predictive modeling anomaly detection boosted trees with XGBOOST and more More than just knowing the outcome you ll understand how these concepts work and what they do With a slow learning curve on topics such as neural networks you will explore deep learning and more By the end of this book you will be able to perform machine learning with R in the cloud using AWS in various scenarios with different datasets Style and approach The book delivers practical and real world solutions to problems and a variety of tasks such as complex recommendation systems By the end of this book you will have gained expertise in performing R machine learning and will be able to build complex machine learning projects using R and its packages *Index to IEEE Publications* Institute of Electrical and Electronics Engineers,1998 Issues for 1973 cover the entire IEEE technical literature **Chinese journal of computers** ,2005

Utilizing One-class Collaborative Filtering Using Clustering and Top-K Nearest Neighbor Saman Izadpanah,2015 **Improving One-class Collaborative Filtering with Manifold Regularization by Data-driven Feature Transformation** [] [],2016 One-class Collaborative Filtering with Latent Embeddings Ga Wu,2020 Systems that recommend personalized lists of items to users are increasingly prevalent in our online experience and critical for the commercial success of online services such as Amazon Netflix and Youtube An important subclass of recommendation is the

one class setting where only positive feedback is directly observed e.g likes purchases clicks While one class recommendation tasks are challenging due to the lack of explicit negative feedback collaborative filtering CF methods that leverage the collective preferences of a large user population have proved to be effective especially CF methods that rely on latent embeddings This thesis aims to extend the state of the art one class collaborative filtering OC CF with latent embeddings and focuses on three unresolved problems in this research area 1 existing methods for learning latent embeddings tend to be popularity biased and thus can perform poorly for items in the long tail 2 in cases where user interests are diverse existing latent embedding methods tend to be over confident and fail to model a user s full preference spectrum 3 as recommender systems become more interactive little work has addressed how to co embed rich e.g language based user feedback in the same latent space as user preferences To address 1 we leverage a method known as noise contrastive estimation NCE to learn de popularized embeddings in both linear and deep learning OC CF methods To address 2 we extend methods for Variational Auto encoders VAEs for stochastic embeddings that avoid over confidence To address 3 we provide a novel variational extension of neural collaborative filtering that allows co embedding of language based feedback to support an interactive recommendation setting We empirically validate all contributions in comparison to a variety of state of the art OC CF methods and demonstrate the advantages of our previously outlined contributions In summary the thesis makes several significant novel contributions to both improve and extend OC CF methods based on latent embeddings

Generating class recommendations through collaborative filtering David Steeves,2004 **Transfer Learning in Collaborative Filtering** Weike Pan,2012 [Slope One in Collaborative Filtering](#) Bo Xu,2006 **A Learning-based Model in Clickstream-based Collaborative Filtering** Dong Ho Kim,2005

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