臺北市立大學資訊科學系

Department of Computer Science University of Taipei

> 碩士論文 Master's Thesis

中文財務情緒字典建構與其在財務新聞分析 之應用

On the Constructure and analysis of chinese financial sentiment lexciconon for Financial News

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中華民國一百零三年四月 April 103 孙多人

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中文摘要

本論文提出了一種音樂推薦方法基於結合各種相似度資訊 於分解機器(Factorization Machine)模型中。...



On the Constructure and analysis of chinese financial sentiment lexciconon for Financial News

Abstract

This paper proposes a music recommendation approach based on various similarity information via Factorization Machine (FM). ...

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Introduction

Music usually carries people's emotions, and people usually express their feelings by writing articles while listening to music. ...

Related Work

Recommendation systems are widely deployed in commercial business, with collaborative filtering (CF) being one of the most popular models. ...

2.1 Contextual Recommendation Systems

Traditional recommendation methods can be separated into two main categories: Collaborative Filtering and Content-based Filtering. Many famous commercial recommendation systems are based on these methods, such as the ones used by Youtube or Amazon [1]. ...

2.2 Factorization Machines

Many studies ...

多戏为多人

Methodology

Our proposed approach further integrates the similarity information with the framework to capture the similar patterns from the referred objects. Below we further describes the Factorization Machines and the difference between our approach.

3.1 Standard Factorization Machine

Factorization Machines can act like most factorization models by feeding various types of features. ...

3.2 Grouping Factorization Machine

Factorization Machines provide a good framework for modeling the interactions between features, but sometimes similar type of features may cause confusion while learning, especially with a large number of features. ...

Experimental Results

4.1 Experimental Settings

4.1.1 Dataset

Our experiments are performed on a real-world dataset collected from a commercial websites – LiveJournal ¹.

4.1.2 Evaluation Metrics

We employed two metrics to evaluate the recommendation performance: the truncated mean average precision at k (MAP@k) and recall.

4.2 Contextual Recommendation System

This section we focus on presenting the work of how to model the relationship between user's mood and user's listening behavior. ...

4.2.1 CF-based Recommendations

Our first evaluation focuses on the use of CF information only for music recommendation. We compare FM with the following three well-know CF methods: user-based CF, itembased CF, and a SVD-based approach. Below we describe the main ideas of the methods.

•••

http://www.livejournal.com/

Conclusions

In a conclusion ...



Bibliography

[1] Factorization machines with libfm. *ACM Trans. Intell. Syst. Technol.*, 3(3):57:1–57:22, May 2012.