

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

研究生：張津挺

指導教授：王釗茹

中華民國一百零三年四月

April 103

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張津挺

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Sentiment Lexciconon for Financial News

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張津挺

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中文摘要

我們平時可以在財務新聞中得知許多訊息，可以從中得知一家公司的好壞，在自然語言處理中(Natural Language Processing)，情緒字分析(Sentiment Analysis)是一項熱門的研究

本篇研究主要在於建立在財務界中的情緒性字典，並做分析。

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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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Chapter 1

Introduction

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

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Chapter 2

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 [?]. ...

2.2 Factorization Machines

Many studies ...

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Chapter 3

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. ...

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Chapter 4

Experimental Results

4.1 Experimental Settings

4.1.1 Dataset

Our experiments are performed on a real-world dataset collected from a commercial web-sites – 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, item-based CF, and a SVD-based approach. Below we describe the main ideas of the methods. ...

¹<http://www.livejournal.com/>

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Chapter 5

Conclusions

In a conclusion ...

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