Jingwei Zhang
Résumé

WORKING EXPERIENCE

2012 **Data Mining Intern @Tencent(QQ) Inc.**

Unveiling the Unique Features of Tencent Weibo

- Used Hadoop to process collected data of more than 320M users and 3.7B microblogs;
- Studied Tencent Weibo from both macro and micro levels, discovered interesting difference between Tencent Weibo and Twitter.

User-level Microblog Recommendation based on Semi-Supervised Algorithm

- We Proposed a Factor Graph based microblog recommendation algorithm TSI-WR (Topic-Level Social Influence based Weibo Recommendation), and our model outperforms several baseline methods.
- Mainly responsible for data cleaning in the group.

PROFESSIONAL EXPERIENCE

2013 **Bachelor thesis @EE, THU**

Greedy forwarding for mobile social networks embedded in hyperbolic spaces

- Designed and evaluated (using R) a novel greedy message forwarding algorithm using metrics in hyperbolic spaces, obtained competitive performance in terms of message delivery ratio and cost;
- Poster presented in SIGCOMM'13.

2011 **Course project @EE, THU**

Terrain Classification Based on Locally Stationary Wavelet Model

- Implemented locally stationary wavelet model in matlab.
- Designed terrain classification algorithm, tested in Brodatz textures and Google Earth database with robust results.

Music transcription method based on poisson point process model and beat detection

- Improved point process MCMC method for music transcription with beat detection based on constant Q transform.
- Reduced the computational complexity while accuracy rate almost unchanged.

2010 **Course project @EE, THU**

Test and Evaluation of Background Extraction Algorithms

- Implemented some background extraction algorithms using C++, analyzed the applicabilities of each algorithm in varied conditions.

Vocabulary-building software

- Designed an application using MFC and XML, integrated multiple words lists and dictionaries, aims to enhance memorization speed.

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EDUCATION

2013– **MSc in Coumpter Science**
MACHINE LEARNING TRACK
Columbia University, New York

2009–2013 **BSc in Electronic Engineering**
Tsinghua University, Beijing

CONTEST

2013 **Rank 18th**
Kaggle Contest: Multi-label Bird Species Classification - NIPS 2013
Kaggle.com rank: 964th / 136,948 users

2010 **Rank 2nd** (team leader)
Baidu Cup Tsinghua Duishi AI Contest

2010 **Rank 3rd**
Tsinghua QuanHuang AI Contest

2009 **Rank 4th / $\sim$ 500,000 students**
National Physics Contest for high school students in China

SCHOLARSHIPS

2010 **Samsung Scholarship** (CNY 3,000)
Tsinghua University

2009 **School of Information Sci. and Tech. Scholarship** (CNY 20,000)
Tsinghua University

PUBLICATIONS

Jingwei Zhang. *Greedy forwarding for mobile social networks embedded in hyperbolic spaces. SIGCOMM 2013*: 555–556, poster.

Daifeng Li, **Jingwei Zhang**, Golden Guo-zheng Sun, Jie Tang, Ying Ding and Zhipeng Luo. *What is the Nature of Chinese MicroBlogging: Unveiling the Unique Features of Tencent Weibo*. arXiv:1211.2197.

SKILLS

GOOD LEVEL	R, C++, Matlab, Python, Hadoop, LaTeX, Vim
BASIC LEVEL	Java, MySQL, Linux, Shell script