Dingqquan Wang

CONTACT INFORMATION

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RESEARCH INTERESTS

Information Retrieval, Data Mining, Machine Learning, Natural Language Processing, and Recommender Systems

EDUCATION

Shanghai Jiao Tong University, Shanghai, China
Computer Science and Technology(ACM Honored Class)
B.S., Engineering, July, 2011

- Dissertation Topic: "Intent Based Query Clustering on User Logs"
- Major GPA: 3.74/4.3 (4/29)

PUBLICATIONS AND MANUSCRIPTS

Dingqquan Wang, Weinan Zhang, Gui-Rong Xue, and Yong Yu: Deep Classifier for Large Scale Hierarchical Text Classification, In *the 1st PASCAL Challenge on Large Scale Hierarchical Text Classification*

Weinan Zhang, **Dingqquan Wang**, Gui-Rong Xue, and Hongyuan Zha: Advertising Keywords Recommendation for Short-text Web Pages using Wikipedia, *ACM Transactions on Intelligent Systems and Technology*, Accepted and pending for publish

Dingqquan Wang, Ruihua Song, Jian-Yun Nie, and Ji-Rong Wen. Aggregating Click-Throughs of Similar Queries for Web Search , Submission for SIGIR 2012, pending for review

HONORS AND AWARDS

Microsoft Excellent Internship Award, April,2011
Microsoft Young Fellowship Award(3/1000), May, 2010
1st place in Task 2, PASCAL challenge: LSHTC[1] , November, 2009
Excellent Academic Scholarship, Shanghai Jiao Tong University, Class B(Three times), 2007–2010
Gold Medal of the 3rd Pan Pearl River Delta Physics Olympiad (5th place), 2007
First prize of the province degree in the Chinese National Physics Olympiad (Twice), 2005, 2006

PROFESSIONAL EXPERIENCE

Full-time internship, Web Search Management Group, Microsoft Research Asia

Query clustering on user logs **July, 2010 - February, 2011**

- I mainly work on query related project in MSRA. I implement an efficient query clustering program. Query similarity is evaluated on three levels–lexical, syntactic and semantic level. Techniques such as NLP, SMT and hierarchical clustering are incorporated.

Intent analysis and trends detection on query logs **July, 2011 - September, 2011**

- Now I'm working on our paper "From queries to intents: a study of search logs" as SIGIR 2012 submission.

Shanghai Jiao Tong University

Verifier: Chinese version of "Foundations of Semantic Web Technologies" **Spring, 2011**

Teaching Assistant: Computer Organization Lab., 08 ACM Honored Class. **Spring, 2010**

[1] Large Scale Hierarchical Text Classification

Academic Experience

Shanghai Jiao Tong University

Research Assistant, Apex Data&Knowledge Management Lab. **June, 2009 - present**

Content and advertisement-sensitive PageRank for keywords recommendation, September, 2009–June, 2011

- Paper "Advertising Keywords Recommendation on Short-text Web Pages using Wikipedia" was accepted by ACM TIST, pending for publish.

Query clustering by user intents, February, 2011–June, 2011

- Excellent dissertation "Intent Based Query Clustering on User Logs" with grade A.

KDD Cup 2011, March, 2011–June, 2011

- Our team(InnerPeace) won the 3rd place on Track 1.

Dragon Star Machine Learning Program Membership, 98/100 on final grade. August, 2010
KDD Cup 2010, March, 2010–June, 2010

- Score prediction on education data using collaborative filtering.

Restricted Boltzmann Machine for Collaborative Filtering. March, 2010–June, 2010
Mining taxonomy information from DBpedia, March, 2010–June, 2010
PASCAL challenge: LSHTC[2]. July, 2009–November, 2009

- Implement a two-stage text classifier in this challenge. Achieve the 1st place on Task 2.
- Our paper "Deep Classifier for Large Scale Hierarchical Text Classification" was accepted by the challenge committee.

Undergraduate Student, ACM Honored Class **September, 2007 - July, 2011**

Principle and Practice of Computer Algorithm, Summer, 2008

- Solve 4 chapters of algorithm problems on USACO[3].

Project Workshop of Complier Principles, Spring, 2009

- Implement a complier for Tiger programming language, with advanced optimization such as inline expansion ,97/100 on finial grade.

Computer Organization Lab., Spring, 2009

- Implement a MIPS processor using SystemC simulation language, with 5-level pipeline, L2-cache and dynamic branch prediction ,91/100 on finial grade.

Course Project of Information Retrieval, Spring, 2009

- Index building for Wikipedia ,90/100 on finial grade.

Project Workshop of Operating System, Fall, 2009

- Implement a Linux styled operating system called Nachos, with INode block indexing strategy in the file system ,95/100 on finial grade.

Project Workshop of Computer Network, Fall, 2009

- Simulate a computer network, with TCP/IP protocol and implement a immediate messenger based on this network ,95/100 on finial grade.

Course Project of Object Oriented Programming, Fall, 2009

- Implement a online game called Laputa, using SSH web service organization .I'm the group leader in this project.

Project Workshop of Data Base Management System, Spring, 2010

- Implement the query processing end, with the optimization on query rewriting and index join ,92/100 on finial grade.

Computer Skills

OS, Tools and IDEs: Linux, Latex, Gnuplot, Vim, Eclips
Programming Skills:: C, C++, C#, Java, Perl, JavaScript, JSP, XML, Bash, ASP.net, SystemC

[2] Large Scale Hierarchical Text Classification
[3] USA Computing Olympiad