

YUE WANG

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EDUCATION	Ph.D. in Computer Engineering (GPA: 3.859) University of Delaware, Newark, DE, USA	2011.9 ~ 2018.6 (expected)
	M.E. in Electrical Engineering (GPA: 3.779) University of Southern Denmark, Sønderborg, Denmark	2009.9 ~ 2011.6
	B.E. in Electronic Information Engineering Beijing University of Technology, Beijing, China	2005.9 ~ 2009.6
	B.E. in Information Technology Mikkeli University of Applied Sciences, Mikkeli, Finland	2008.9 ~ 2009.6
WORKING EXPERIENCE	Research Assistant Advisor: Dr. Hui Fang, Department of Electrical and Computer Engineering, University of Delaware.	2011.9 ~ Present
	Teaching Assistant Giving lectures and hold office hours for three courses: <i>Search and Data Mining</i> , <i>Introduction to Computer Systems Engineering</i> and <i>Computer Systems Design</i>	2012.9 ~ 2014.5
	Software QA Engineer Beijing EMN Information & Technology Corporation, Beijing, China	2008.6 ~ 2008.8
AWARDS	ACL Student Travel Award , ACL, 2014 Association for Computational Linguistics (ACL) provide a small amount of funding for students who are participating the conference hold by ACL. I was honored to win the Student Travel Award for ACL 2014 when I went for the conference in Baltimore, MD, USA.	
	University Dissertation Fellow Award , University of Delaware, 2015 The Dissertation Fellow award is established by the Office of the Provost to enable and support Ph.D. students to devote full attention to the completion of their doctoral dissertation. I was honored to win the University Dissertation Fellow Award for academic year 2015-2016.	
PROJECTS	Mining Mobile Apps for Early Bug Identification (On going)	2015.4 ~ Now
	<ul style="list-style-type: none">• Task: identify the sentences describing a buggy features for mobile apps.• Challenges: with limited training resources, given a review for a mobile app, we are trying to verify weather the review reports a bug. If so, we want to identify which sentences are describing the bug, and which type of bug this review is reporting.	
	Integrated Search System for JPMC	2014.8 ~ 2015.11
	<ul style="list-style-type: none">• Task: developing an integrated search demo system with a team at JP Morgan Chase.• Challenges: integrated searching objects across different domain. Identify concepts with similar semantic meanings from different resources.• Solutions: we built a integrated search system on top of Solr and MangoDB, which could automatically identify similar terms in each domain and convert natural language search queries into SQL style queries, then perform the retrieval task.	

Medical Domain Retrieval System

2012.9 ~ 2014.6

- Task: identify patients matching a set of clinical criteria based on their medical records for research purpose.
- Challenges: correctly identify and match the clinical terms for the disease, negation handling in the natural language.
- Solutions: we first converted term based representation to concept based representation, and then we proposed two weighting regularization methods to overcome the inaccurate mapping generated by the NLP tool.
- Achievements: our initial system ranked 6th place out of 88 submitted systems in TREC Medical Record Retrieval Track 2012. The improved system later achieved similar performance as state-of-the-art methods in TREC 2012 using less external resources and achieving a faster processing time.

Microblog Retrieval

2013.3 ~ 2013.12

- Task: build a real-time ad-hoc retrieval system for tweets collection.
- Challenges: tweets are shorter than normal documents, so traditional retrieval signals may not work well. In addition, no future information is allowed in the system due to nature of time sensitivity of tweets.
- Solutions: we extended the frame work of tie-breaking with query expansion and document expansion techniques.
- Achievements: our system could be ranked among top 3 groups based on the TREC Microblog Track 2012.

Software Requirement Specification Disambiguation

2011.10 ~ 2012.8

- Task: identify possible ambiguous concepts from software requirement specification.
- Challenges: the candidate concepts may not have a clear definition and the total number of ambiguous concepts is different from project to project.
- Solutions: we proposed two feature-based information retrieval techniques to rank all the important concepts based on their ambiguity scores.
- Achievements: our paper is one of the first papers that aims to detect ambiguous terminology from software requirements specification. Experiment results over four real-world data sets show that the proposed methods are effective.

PUBLICATIONS

Yue Wang and Hui Fang. Extracting Useful Information from Clinical Notes. In Proceedings of the 2016 Text REtrieval Conference, 2016.

Yue Wang, Xitong Liu and Hui Fang. A Study of Concept-based Weighting Regularization for Medical Records Search. In Proceeding of the 52nd Annual Meeting of the Association for Computational Linguistics, 2014.

Yue Wang, Hao Wu and Hui Fang. An Exploration of Tie-Breaking for Microblog Retrieval. In Proceedings of the 36th European Conference on Information Retrieval, 2014.

Yue Wang and Hui Fang. Exploring the Query Expansion Methods for Concept Based Representation. In Proceedings of the 2014 Text REtrieval Conference, 2014.

Yue Wang, Irene Manotas, Kristina Winbladh and Hui Fang. Automatic Detection of Ambiguous Terminology for Software Requirements. In Proceedings of the 18th International Conference on Application of Natural Language to Information Systems, 2013.

Yue Wang, Jerry Darko and Hui Fang. Tie-breaker: A New Perspective of Ranking and Evaluation for Microblog Retrieval. In Proceedings of the 2013 Text REtrieval Conference, 2013.

Miguel A. Callejas P, **Yue Wang** and Hui Fang. Exploiting Domain Thesaurus for Medical Record Retrieval. In Proceedings of the 2012 Text REtrieval Conference, 2012.