Baotian Hu

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Education

2012/09-Present	Harbin Institute of Technology Shenzhen Graduate School	PhD Student in Computer Science and Technology, Supervisor: Prof.Qingcai Chen
2010/09-2012/07	Harbin Institute of Technology Shenzhen Graduate School	Master in Computer Science and Technology, Supervisor: Prof.Xiaolong Wang
2006/09-2010/07	Shandong University of Science and Technology	Bachelor in Information and Computing Science

Research

From Mar. 2013, I mainly research on machine learning techniques, especially deep learning methods and their applications in multimedia and natural language processing. The key issue that I want to address is to develop novel learning algorithms that can discover non-trivial patterns or even deep knowledge from big data.

From Sep. 2011 to Dec. 2012, my research focused on the automatic image annotation (AIA). During this time, I participated in the project "The Key Technology to the Intelligent Analysis of New Media". I implemented several machine learning methods to AIA and designed a framework of the Web-based automatic image annotation approach which combines the text representation of images, content-based image retrieval, and natural language processing techniques. At the same time, I finished my thesis for the Master Degree. At the end of the project, we submitted three patent applications.

From Sep. 2010 to Sep. 2011, my research focused on natural language processing and QA system. During this time, I participated in the development and improvement of the QA system(比•特) in ICRC. I also have experience of implementation of index of the QA system's data.

Experiences

1. Mar. 2015 - Sep. 2015 Research Intern, Huawei Noah's Ark Lab, Hong Kong. Supervised by **Zhengdong Lu & Hang Li**

- Research on deep model for text matching.

- Deep model for Machine Ttranslation and Dialog.

2. Mar. 2014 - Sep. 2014 Research Intern, Huawei Noah's Ark Lab, Hong Kong. Supervised by **Zhengdong Lu & Hang Li**

- Research on deep model for reasoning
- Deep Neural network for rule assimilation and Learn to use rules.

Project

1. 2010.09 —2011.09   The development and improvement the QA system(比•特)
2. 2011.09 —2012.12   The Key Technology to the Intelligent Analysis of New Media
3. 2013.04 —2013.05   Handwriting Chinese Characters Recognition Based on Deep Belief Networks and MQDF
4. 2013.06 —2013.10   Word Embedding Learning Model Using the Dissociation between Nouns and Verbs
5. 2013.11 —2013.12   Name entity Recognition and Chunking using CRF and Word Embeddings
6. 2014.01 —2014.06   Convolutional Neural Network Architectures for Matching Natural Language Sentences
7. 2014.08— 2014.10   Learning Sentence Representation Using Convolutional Neural Network

Publications

- **Baotian Hu**, Buzhou Tang, Qingcai Chen, and Longbiao Kang, "A Novel Word Embedding Learning Model Using the Dissociation between Nouns and Verbs", Neurocomputing, 2015.

- **Baotian Hu**, Qingcai Chen and Fangze Zhu , "LCSTS: A Large Scale Chinese Short Text Summarization Dataset", EMNLP, 1967-1972, 2015

- **Baotian Hu**, Zhaopeng Tu, Zhengdong Lu, Hang Li and Qingcai Chen, "Context-Dependent Translation Selection Using Convolutional Neural Network", ACL, 536-541, 2015

- **Baotian Hu**, Zhengdong Lu, Hang Li, Qingcai Chen. Convolutional Neural Network Architectures for Matching Natural Language Sentences. In proceedings of Advances in Neural Information Processing Systems(NIPS2014), 2042-2050,2014.

- Xiaoqiang Zhou,**Baotian Hu**,Qingcai Chen,and Xiaolong Wang, "Answer Sequence Learning with Neural Networks for Answer Selection in Community Question Answering", ACL, 713-718, 2015.

- Yongshuai Hou, Yaoyun Zhang, Xiaolong Wang, Qingcai Chen, Yuliang Wang and **Baotian Hu**, "Recognition and Retrieval of Time-sensitive Question in Chinese QA System.", Journal of Computer Research and Development, 2015. [in Chinese]

- Shengyu Liu, Qingcai Chen, Shengmei Luo, Lixia Liu , **Baotian Hu**, Xiaolong Wang. A Web-based Approach for automatic image Annotation [J]. Journal of computational information systems, 2012, Volume 9, number 6:2667-2174.

- Longbiao Kang, **Baotian Hu,** Qingcai Chen. A Short Texts Matching Method Using Shallow features and Deep feature. Conference on Natural Language Processing & Chinese Computing(NLPCC2014), 150-159, 2014.

Selected Awards

- 2010.09, Harbin Institute of Technology Shenzhen Graduate School, **First-Class Scholarship**

- 2010.05,Shandong University of Science and Technology, **Excellent Graduates in SDUST**

- 2009.05, Shandong University of Science and Technology, **North Area of Jiangsu Undergraduate Mathematical Contest in Modeling   Third-class award(team leader)**

- 2009.04, Shandong University of Science and Technology, **SDUST Mathematical Contest in Modeling First-class award(team leader)**

- 2008.12, Shandong University of Science and Technology, **Mathematical Contest in Modeling(MCM) Successful Participant award**

- 2009.05, Shandong University of Science and Technology, **First-Class Scholarship for Excellence in Overall Quality**

- 2009.11, Shandong University of Science and Technology, **Merit Student**

- 2008.05, Shandong University of Science and Technology, **First-Class Scholarship for Excellence in Overall Quality**

Skills

- Computer Skills: I am familiar with the C,C++ and matlab language and can use these language to program easily.

- Language Skills: I passed the CET-6 and can use English to read, write, and speak fluently.