

CHEN LIU

BASIC INFORMATION

FIRST NAME: Chen
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EDUCATION

2011-2015 B.E in COMPUTER SCIENCE & TECHNOLOGY
Tsinghua University, Beijing, China
GPA: 91.34/100
Rank: 9/123
[Transcript](#)

RESEARCH INTERESTS

Natural Language Processing(NLP), Deep Learning(DL), Pattern Recognition(PR) and Machine Learning(ML)

RESEARCH EXPERIENCE

<i>June 2015</i>	Recurrent Convolutional Neural Network for Sentence Classification
<i>Dec 2014</i>	<i>Supervised by Xiaolin Hu, Associate Processor</i> <i>National Laboratory for Information Science and Technology</i> Recently, convolutional neural network(CNN) has achieved great success in areas such as pattern recognition because of its fewer parameters and power to extract hierarchical features. By adding recurrent connections in CNN, the model called recurrent convolutional neural network(RCNN) can even extract hierarchical features within a layer. RCNN has already shown state-of-art performance in object recognition. My work is to apply this technology to the field of NLP to solve the problem of sentence classification. Unlike objection recognition, I will build a new model combined classic CNN, RCNN and MLP to complete this task. This is partly because of the latent representation of words and flexible length of sentences. This project is the base of my bachelor thesis.
<i>July 2014</i>	Class-Based Summarization of Multi-Language Microblogs
<i>Mar 2014</i>	<i>Supervised by Hua Xu, Associate Processor</i> <i>National Laboratory for Information Science and Technology</i> In times of big data, there are millions of microblogs posted every day. It is necessary to generate summarizations of these microblogs automatically. However, many developed systems and algorithms like The Phrase Reinforcement and Hybrid TF-IDF ignores some context relations and performs poorly especially in Chinese corpus. This is partly because much more different or informal expression in microblog delivering the same meaning weaken the power of words-cooccurrence-based algorithms. My research focuses on designing a class-based algorithm to generate summaries of both English and Chinese microblogs. It firstly uses machine learning algorithms to distribute words of the same meaning into one classification. Then we use a tree pattern reinforcement algorithms to generate summaries based on the classification in the first step.

PROFESSIONAL SKILLS

Programming Languages:

C/C++,Java,Python,Golang

About Artificial Intelligence:

SVM, DecisionTree, Deep Learning Package(Theano etc), Topic Model Tools etc.

Software-Level:

Git, SVN, HTML, Javascript

Hardware-Level:

VHDL, MIPS Pipeline CPU

More detailed information, demos and projects are on github and my homepage.

SOCIAL SERVICE

<i>Jul 2012</i>	‘Caring Girls in Gansu’ Summer Practice Captain of this detachment. Investigate living conditions of girls in two state-level poverty-stricken county in Gansu Province, western China. Second prize of the national competition.
<i>May 2014</i>	Youth League of the Department
<i>Jun 2012</i>	Member(2013) and director(2014) in the group of practice.

AWARDS

<i>July 2015</i>	Outstanding Graduates of Department of Computer Science and Technology in Tsinghua University
<i>Oct 2014</i>	Scholarship of Academic Excellence in Tsinghua University (2014)
<i>Oct 2013</i>	Scholarship of Academic Excellence in Tsinghua University (2013)
<i>Oct 2013</i>	Scholarship of Social Work in Tsinghua University (2013)
<i>Dec 2012</i>	First prize of Physics Competition for College Students in Beijing

Latest Update: Sept 4th, 2015