Zhongyuan ZHU

also known as Raphael Shu

PERSONAL DATA

PLACE AND DATE OF BIRTH: Shanghai, 2 Aug 1989

ADDRESS: 807 Juneshion Takahashi, 1467-1 Futatsugi, Matsudo,

Chiba pref., Japan

PHONE: +81 08031530802 EMAIL: raphael@uaca.com LINK TO ME: raphae.uaca.com

RESEARCH INTEREST

· Natural language processing

- Machine translation

- Conversational models

WORK EXPERIENCE

Apr 2014 - present

Research & Development, Weblio Inc.

Concentrations in the work:

- · Applying machine learning techniques to enhance existing products
- · Research on Machine Translation

Outcomes:

- Spell correction based on statistical translation models (released at 2014)
- Fast implementation of AlexNet for handwriting recognition (released at 2015)
- A novel conversation engine based on model combination (released at 2015)
- Neural machine translation models for Workshop on Asian Translation (WAT) 2015
- Syntactic pre-ordering statistical machine translation models for Workshop on Asian Translation (WAT) 2014

2012 - 2013 Teaching Assistant, Knowledge and Natural Language Processing, University of Tsukuba

Instructing students to work on NLP experiments.

May - Aug 2012 Google Summer of Code 2012 (Internship)

Mentor: Itamar Turner-Trauring

The purpose of this internship is to improve an open-source network engine "Twisted", which is maintained by Python Software Foundation (PSF). I worked with two Google engineers and a start-up founder in this project.

Contributions:

- Code contribution to Twisted engine
- Automatic code quality tracking for test-driven development

EDUCATION

Apr 2012 - Mar 2014 MEng in Computer Science, University of Tsukuba

Natural Language Processing Lab. (http://www.nlp.mibel.cs.tsukuba.ac.jp)
Thesis: Statistical Machine Translation Models Utilizing Tree Combination

Advisor: Prof. Mikio Yamamoto Grade: A+: 1/14, A: 11/14, B: 2/14

Dec 2011 - Mar 2012 Research Student in Computer Science, University of Tsukuba

Concentration: Satistical machine translation

Advisor: Prof. Mikio Yamamoto

Sep 2008 - Jul 2011 BA in Japanese Language, Shanghai International Studies University

This is a 3-year minor degree programme for studying Japanese language together with

major programme.

Thesis: Research on keyword extraction for Japanese language

GPA: 3.23

Sep 2007 - Jul 2011 BSc in Computer Science, East China University of Political Science and Law

Graduation project: User action analysis system based on Natural Language Processing

GPA: 3.11

PUBLICATIONS

Zhongyuan Zhu. (2015). Evaluating Neural Machine Translation in English-Japanese Task. In: Proceedings of the 2nd Workshop on Asian Translation, pp. 61-68.

Zhongyuan Zhu. (2014). Weblio Pre-reordering Statistical Machine Translation System. In Proceedings of the 1st Workshop on Asian Translation.

Zhongyuan Zhu, Masanori Taniguchi, Chenchen Ding and Mikio Yamamoto. (2014). A preordering method using head-restructured CFG parse tree for SMT. In: Proceedings of the 20th Annual Meeting of the Association for Natural Language Processing, pp. 594–597.

Zhongyuan Zhu, Jun-ya Norimatsu, Toru Tanaka, Takashi Inui, and Mikio Yamamoto. (2013). TSUKU Statistical Machine Translation System for the NTCIR-10 PatentMT Task. In Proceedings of NTCIR-10.

HONOURS / ACHIEVEMENTS

2014 Workshop on Asian Translation 2014, Second prize in English-Japanese

translation task. Invited presentation in University of Tokyo.

2010 China National IEEE Standard Micromouse Competition, First prize

2009 China National IEEE Standard Micromouse Competition, Second prize

LANGUAGES

MANDARIN CHINESE: Mothertongue

ENGLISH: Fluent (IELTS band score: 7.0)

JAPANESE: Fluent

SPANISH: Basic knowledge

HIGHLIGHTED PERSONAL PROJECTS

deepy Highly extensible deep learning framework based on Theano https://github.com/uaca/deepy/