Frank Z. Xing

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ACADEMIC QUALIFICATIONS

Nanyang Technological University,   2016 — Present
- PhD Student in School of Computer Science and Engineering, Research Assistant
- Research Topic: Sentiment Analysis, Stochastic Processes, Financial Forecasting
- Advisor: Prof. Erik Cambria

Peking University,   2011 — 2015
- B.Sc. in Information Systems and B.A. in Economics
- Research Topic: Natural Language Processing, Machine Learning, Computer Vision
- Advisor: Prof. Yang Xu, Prof. Win-Bin Huang
- GPA: 3.5/4.0

City University of Hong Kong,   2013
- Exchange student in Department of Information Systems
- Course: Business Intelligence and Analytics, Database System, etc.
- GPA: 3.9/4.3

RESEARCH PROJECTS

Natural Language Based Forecasting (NLBF) for Business Analytics,   2015 — Present
- Conducting Literature Review
- Toolkit programming

Image Segmentation Survey & Implementation,   2014 — 2015
- I surveyed over 100 papers in the field of image segmentation, with the help of some open source codes, I implemented fundamental image processing algorithms, such as superpixel generation (SLIC, watershed), feature extraction (SIFT, GIST, STF) and format conversion. These components were then leveraged to learn a CRF based model for segmentation.
- I wrote the system in MATLAB, and had about 6,000 lines of codes.

Irony Detection in Chinese Internet Texts,   2013 — 2014
- I worked on a specific perspective of sentiment analysis in Chinese, a.k.a. irony detection with the support of Undergraduate Research & Training Program. I came up with the computational formalization for key ironic patterns, and conducted empirical research with data crawled from some main Chinese news forums. A logistic regression model is used for detection.
- I wrote the program in Java, ~1,500 lines of codes.

PUBLICATIONS

F. Z. Xing, E. Cambria, W.-B. Huang and Y. Xu, Weakly supervised semantic segmentation with superpixel embedding, *IEEE International Conference on Image Processing (ICIP)*, Phoenix, 2016, pp. 1269-1273.

ACTIVITIES

Student Member, *Computational Intelligence Society,* IEEE Singapore Section   2016
Invited Talk, *Stock Market Prediction: What Information to Retrieve and How*, NTU   2016
Poster, *Markov Model Based Suggestions to Collection Development*, PKU   2014

TEACHING

Tutorial Instructor, *CZ2002 Object Oriented Design & Programming*,   Spring 2016
Teaching Assistant, *CZ4034 Introduction to Information Retrieval,*   Spring 2016

SERVICE

Reviewer: IEEE Computational Intelligence Magazine, Knowledge-Based Systems, Information
Processing & Management; IJCNN 2016
PC Member: SENTIRE ICDM 2016,

HONORS&AWARDS

Research Scholarship Award, *Temasek Laboratories@NTU,*   2016
Outstanding Graduation Thesis, *Peking University,*   2015
The May Fourth Scholarship and Merit Student, *Peking University,*   2013
Wang Jin-Yun Scholarship, *Wuhan No2 High School,*   2011

SKILLS

Computer:

- Proficient with MATLAB, R, SAS, HTML, LaTeX
- Experienced with Python, SQL

Language:

- Fluent in Chinese (*Mandarin, Cantonese and Hokkien*) and English
- Learning Russian (*чуть-чуть*) and Dutch (*niet veel*)

Misc.: I play clarinet and ukulele, also a modest waltz dancer

REFERENCE

Prof. Yang Xu,
Department of Information Management, Peking University, Email: yang.xu@pku.edu.cn

Prof. Erik Cambria,
School of Computer Engineering, Nanyang Tech. University, Email: cambria@ntu.edu.sg