Yihao Feng

Software Engineering, College of Software, Beihang University,
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EDUCATIONAL BACKGROUND

Beihang University 08/2012 – 06/2016(expected)

BE Candidate, Major in software Engineering
Rank: 4 /134 Overall GPA: 3.74 / 4(Major GPA: 3.85 / 4)

Awards and Honors

- National Scholarship For Excellent Academic Performance (top 2%) 09 / 2013
- National Endeavor Scholarship(top 5%) 09 / 2014
- **1st** prize of Beijing in China Undergraduate Mathematical Contest in Modeling 09 / 2014
- **Meritorious** Winner of 2015 Mathematical Contest In Modeling 04 / 2015

Programming skills:

- **Programming Languages :** C/C++, Java, C#, PHP, Python, JavaScript, Scala
- **Programming Framework:** Node.js, Django, Android, WPF
- **Scientific Software & System:** Matlab, Mathematics, Weka, Hadoop, openSMILE, Torch, LightSide

RESEARCH & WORK EXPERIENCE

ArticuLab, Carnegie Mellon University, American Jul.2015-Sept.2015

Research topic: Modelling rapport in human or human-virtual peer conversation in a multimodal way
Adviser: Prof. Justine Cassell & Dr. Alexandros Papangelis

- Extracted visual and acoustic features by using openSMILE and CLM-Framework and synthesized them.
- Dealt with cleaning data, feature selection, imbalanced data problems and ran baseline algorithms using Weka.
- Applied linear-CRF to model rapport in a temporal way and achieved a result of 74% accuracy.
- Tried to capture inner correlation of rapport by using HCRF and achieved a result of 70% accuracy.

State Key Laboratory of Machine Perception, Peking University, China Oct.2014-Present

Research topic: **Inferring social relations among users in mobile social network**
Adviser: Prof. Guojie Song

- Proposed a method to extract geographical context meaning from LBS service based on **TF-IDF.**
- Ameliorated imbalanced problem by applying a distribution-sensitive learning parameter in graphs.
- Built a Triadic factor in the model by adopting the Structural Balance Theory in our specific mobile social network.
- Built a model called BTFG(Balanced Triadic Factor Graph) based on factor graph model and bellowing discovery.

Mathematical Modeling & Algorithms Laboratory, University of Tsukuba, Japan

Research topic: Basic research realization in Image Recognition July.2014
Adviser: Dr. Yasuyuki Maeda

- Learned Basic Machine Learning method(SVM, PCA) to solve Image Recognition problem.
- Applied the PCA,SVD method to Recognize simple handwriting numbers by using Matlab.

Software Engineer, Zhiquan Inc., China Feb.2015- June.2015

Project: **Zhiquan Android App Platform**

- Built the IM chat and social relation part of the Android App.
- Implemented the initial version of User Recommendation System based on **User-Based** algorithms

PUBLICATION

Y. Feng, G. Song, J. Tang, Inferring Social Relations in mobile network. (To submit to KDD 2016)

MISCELLANEOUS

Area of Interests: Probabilistic Graphical Models, Social Network, Multimodal, Data Mining
English: TOFEL: 96/120 GRE: V148/170, Q168/170, AW: 3.0 / 6
Personal Website: http://lewiskit.github.io