

Yang Yang

Tel: +86-13261562938 Email: yangyangfuture@gmail.com

State Key Laboratory of Software Development Environment, Beihang University, 100191, China

Personal Homepage: <http://yblog.aliapp.com>

RESEARCH INTEREST

I am broadly interested in Social Networks, Machine Learning, NLP and Complex Networks.

- | | |
|---|---|
| ❖ Machine Learning theory <ul style="list-style-type: none">✓ Sparse Learning✓ Deep Learning✓ Applications: bully & drug effects detection | ❖ Mathematics & Social Network <ul style="list-style-type: none">✓ Information Diffusion✓ Influence Propagation✓ Real Analysis |
|---|---|

EDUCATION

- ❖ **Beihang University**, Beijing, China. **(2013.9 ~ Present)**
The second year Ph.D. candidate in Computer Software and Theory
Supervisor: Zhoujun Li
- ❖ **Xidian University**, Xian, China. **(2010.9 ~ 2013.3)**
Master's degree (Software Engineering)
Thesis: Community Detection Algorithms on Complex Networks
Supervisor: Lin Gao
- ❖ **Xidian University**, Xian, China. **(2006.9 ~ 2010.7)**
Bachelor's degree (Computer Science and Technology)
Thesis: A Novel Ranking Measure Based on the Subgraph Centrality

PUBLISHED PAPERS

- ❖ **Yang Yang**, Peng Gang Sun, Xia Hu, Zhou Jun Li, Closed walks for community detection, *Physica A: Statistical Mechanics and its Applications*, Volume 397, 1 March 2014, Pages 129-143 [SCI IF=1.676] [JCR=2]
(Citing articles: 2)
- ❖ **Yang Yang**, Zhoujun Li, Senzhang Wang, Improving the robustness of complex networks with preserving community structure. *PLOS ONE*. [SCI IF=3.534] [JCR=2]
- ❖ **Yang Yang**, Yan Chen, Zhoujun Li, Senzhang Wang, CO-Influence: Identifying Topic-specific Influential Users with Controllability and Observability.
- ❖ **Yang Yang**, Xia Hu, Xiaoming Zhang, Zhoujun Li, Understanding and Detecting Human Trafficking Information on Social Networks. (ICDM 2015). Submitted.
- ❖ Xiaoming Zhang, Zhoujun Li, Senzhang Wang, **Yang Yang**, Xueqiang Lv. Location Prediction of Social Images via Generative Model. *The ACM International Conference on Multimedia Retrieval (ICMR 2015)*,.
- ❖ Peng Gang Sun, **Yang Yang**, Methods to find community based on edge centrality, *Physica A: Statistical Mechanics and its Applications*, Volume 392, Issue 9, 1 May 2013, Pages 1977-1988 [SCI IF=1.676] [JCR=2]
(Citing articles: 4)
- ❖ Peng Gang Sun, Lin Gao, **Yang Yang**, Maximizing modularity intensity for community partition and evolution, *Information Sciences*, Volume 236, 1 July 2013, Pages 83-92. [SCI IF=3.643] [JCR=1]
(Citing articles: 3)

RESEARCH/PROJECT EXPERIENCE

- ❖ **2008 Spark Cup Contest**: Design and construct a robot which have many functions: Wireless controllability, Trace the dark line, Identify the traffic light and Walk labyrinth game.
 - ✓ With my best friend Shuai Liu

- ✓ Responsible for designing algorithm and coding
- ❖ 2009 **National Undergraduate Electronic Design Contest Selection Match**: Design and construct spectrum analyzer and the **National Undergraduate Electronic Design Contest**: Design a robot which can detect sound source.
 - ✓ With my best friend Shuai Liu and my roommate Han Han.
 - ✓ Responsible for designing algorithm, 51/Msp430 system board and coding
- ❖ 2010 Participate in Natural Science Foundation of China “**Theory and Key Technology of Data Analysis and Mining on Biological Network**”. No.60933009
 - ✓ With Professor Lin Gao.
 - ✓ Responsible for designing algorithm of centrality measures.
- ❖ 2012.10-2013.1 “**Predicting the Baltic Dry Index (BDI) with SVM**”
 - ✓ With Maggie Wang
 - ✓ Responsible for designing the experiment and parameter optimization.
- ❖ 2011-2012 Participate in Natural Science Foundation of China “**Research on Mining Dynamic Evolution of Biomolecular Network**”. No.61100157
 - ✓ With Professor Lin Gao and Penggang Sun.
 - ✓ Responsible for designing algorithm for community detection.
- ❖ 2013.4-2013.8 Teaching Assistant on Discrete Math
 - ✓ With Professor Zhoujun Li.
 - ✓ Responsible for exercise class and QA.
- ❖ 2013-2014 Participate in Natural Science Foundation of China “**Research of Hot Topic Detection and Spread in Social Network**”. No.61370126
 - ✓ With Professor Zhoujun Li
 - ✓ Responsible for designing algorithms for quantifying information diffusion and finding topic-specific authorities

AWARDS/HONORS

- ❖ 2006 College ACM Selection Match, The Third Prize
- ❖ 2006-2007 College Excellent Student, The Third Prize Scholarship
- ❖ 2008-2009 College Excellent Student, The Third Prize Scholarship
- ❖ 2008.12 The 20th “Spark Cup” Contest, The Second Prize
- ❖ 2009 College Excellent Student, The Second Prize Scholarship
- ❖ 2009 National Undergraduate Electronic Design Contest Selection Match, The Second Prize
- ❖ 2010 The Third Prize Scholarship
- ❖ 2011 Special Scholarship, Excellent Postgraduate, The First Prize Scholarship of Academy
- ❖ 2012 The Second Prize Scholarship, Outstanding Graduates Award
- ❖ 2014 Outstanding research paper award at Beihang University
- ❖ 2013-2014 Merit Student of Beihang University
- ❖ 2015 College Excellent Student of Beihang University

ENGLISH SKILLS

- ❖ CET-4: 477 CET-6: 499
- ❖ TOEIC: 775/990 (Listening: 375/495 Reading: 400/495)
- ❖ Good reading and writing skills.

COMPUTER SKILLS

- ❖ Familiar with C/C++, Python, Matlab
- ❖ Familiar with knowledge of Complex Networks and Social Networks

- ❖ Interested in Machine Learning, Data Mining and NLP
- ❖ Familiar with toolkit: NLTK, Word2vec, Graphlab, Cytoscape, Gephi, Pycharm, Libsvm...
- ❖ Skilled management and design database using SQL and MongoDB

SELF-ASSESSMENT

- | | |
|------------------------------------|----------------------------------|
| ❖ Self-motivated | ❖ Honest |
| ❖ A strong sense of responsibility | ❖ Positive attitude towards life |
| ❖ Good at cooperation | ❖ Hardworking |

PROFESSIONAL SERVICE

- ❖ Reviewer for The 16th International Conference on Web-Age Information Management (WAIM 2015)
- ❖ Reviewer for <PLOS ONE>
- ❖ Reviewer for The 2015 IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining (ASONAM 2015)
- ❖ Reviewer for The 2015 IEEE International Conference on Healthcare Informatics (ICHI 2015)
- ❖ Reviewer for The 2015 IEEE International Conference on Big Data (BigData 2015)
- ❖ Reviewer for The ACM International Conference on Web Search and Data Mining (WSDM 2015)