Honglin Yu

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Research Interests   Data Mining, Machine Learning, Online Social Network Analysis

Education

Australian National University   Aug. 2011 - present

Ph.D. in Computer Science

- Thesis Topic: Popularity Analysis of YouTube Videos
- Thesis will be submitted before Aug. 2015

Southeast University, China   Aug. 2009 - Jul. 2011

Finished master course in Automation

Southeast University, China   Aug. 2005 - June 2009

Bachelor of Automation

- Rank: 4/120
- Best Graduation Thesis (2 out of 120)

Skill Highlights

- Firm programming skills, especially of **C/C++** and **python**
    - Also familiar with Javascript, R, Julia
    - Use Linux everyday for more than 6 years, skilled emacs user
- Broad knowledge in **Machine Learning**
    - Deep understanding of most used algorithms (SVM, Random Forest, ANN etc.)
    - Experienced in carrying out experiments and **feature engineering**
- Experienced in collecting and analyzing large scale Internet data
    - Skilled in implementing various online data **crawlers**
    - Familiar with mainstream databases
- Domain Knowledge related to Computational Social Science Research
    - **YouTube** video popularity analysis
    - Twitter user network analysis
- Basic Controller Design
    - Undergraduate major

Research Projects   Please see http://yuhonglin.github.io/project/ for more details

- Analyzing Twitter-driven **YouTube** Views
    - Contributions: Most of the ideas; All the Software implementation, data collection, analysis and prediction; Demo website.
- Data Mining on **YouTube** Video Shot Sequences
    - Contributions: Part of the ideas and data collection; All the implementation, data preprocessing and analysis
- Exploring the Phases of Popularity Evolution of **YouTube** Videos
    - Contributions: Most of the ideas; All the software implementation, data collection, analysis and prediction

Software Highlights

- YTcrawl: a YouTube video history viewcount crawler
- SegFit : a time series segmentation algorithm written in C++
- Shotdetect : a video shot detection program written in C++

Papers

- **Honglin Yu**, Lexing Xie and Scott Sanner, Twitter-driven YouTube Views: Beyond Individual Influencers. Published in ACM Mutimedia 2014.
- **Honglin Yu**, Lexing Xie and Scott Sanner, Exploring the Popularity Phases of YouTube Videos: Observations, Insights, and Prediction. In preparation for resubmission.

Teaching Experience

- Computational Social Science Summer Short Course   Jul. 2013
  Teaching Assistant, Beihang University, China
- Computer Network   2011
  Teaching Assistant, Southeast University, China

Awards

- Excellent Graduation Dissertation of Southeast University (2 out of 150)   2009
- Champion of the 3D Soccer Simulation League, Robocup Worldcup   2008
- National Mathematical Modeling Contest Third Prize of Jiangsu Province   2008
- Higher Mathematics Competition of Jiangsu Province, Third Prize   2006

Review Experience

- International World Wide Web Conference (WWW)
- ACM International Conference on Web Search and Data Mining (WSDM)

References

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