Honglin Yu

School of Computer Science, Australian National University, NICTA Email: honglin.yu@anu.edu.au

Homepage: http://yuhonglin.github.io Mobile: +61 406502886

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
- Work at Machine Learning group of NICTA
- 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: 4/140
- Best Graduation Thesis (2 out of 140)

Skill Highlights

• Experienced in Data Science and Statistical Analysis

- Classification, regression, clustering, time series analysis
- Data exploration and visualization (matplotlib, R, d3.js)
- Working on large scale **real data** for >3 years
- Broad knowledge in Machine Learning
 - Deep understanding of main-stream algorithms (SVM, Random Forest, ANN etc.)
 - Experienced in carrying out experiments and **feature engineering**
- \bullet Firm programming skills, especially in C/C++ and python
 - Also familiar with SQL, Javascript, R, Julia
 - Use Linux everyday for more than 6 years, skilled emacs user
- Experienced in collecting and analyzing large scale Internet data
 - Skilled in implementing various online data crawlers
- Domain knowledge related to Computational Social Science Research
 - YouTube video popularity analysis
 - Twitter user network analysis
- Basic controller design

Research Projects

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

- Analyzing Twitter-driven YouTube Views
 - Predicting videos' viewcount with Twitter's feed (**Demo**)
 - Contributions: Most of the ideas; All the Software implementation, data collection, analysis and prediction
- Data Mining on YouTube Video Shot Sequences
 - Mining frequent remixed shots from large number of videos
 - Contributions: Part of the ideas and data collection; All the implementation, data preprocessing and analysis
- Exploring the Phases of Popularity Evolution of YouTube Videos
 - Understanding viewcount dynamics by novel time series segmentation techniques
 - Contributions: Most of the ideas; All the software implementation, data collection, analysis and prediction

Software	YTcrawl: a YouTube video history viewcount crawler	
Highlights	• SegFit : a time series segmentation algorithm written in C++	
	• Shot detect : a video shot detection program written in C++	
Media Coverage	• ANU Reporter How the viral video star is born. August 2015. http://www.anu.edu.au/news/all-news/how-the-viral-video-star-is-bo	orn
	• NCI Research News Predicting popularity. September 2015. http://nci.org.au/2015/09/30/predicting-popularity/	
Papers	• Honglin Yu, Lexing Xie and Scott Sanner, Exploring the Popularity Phases of Videos: Observations, Insights, and Prediction. In proceeding of International Africa on Web and Social Media (ICWSM) 2015.	
	• Honglin Yu, Lexing Xie and Scott Sanner, Twitter-driven YouTube Views: dividual Influencers. In proceeding of ACM Multimedia Conference (ACMM)	
Teaching Experience	• Computational Social Science Summer Short Course Teaching Assistant, Beihang University, China	Jul. 2013
	• Computer Network Teaching Assistant, Southeast University, China	2011
Awards	• Excellent Graduation Dissertation of Southeast University (2 out of 140)	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	• International World Wide Web Conference (WWW)	

• ACM International Conference on Web Search and Data Mining (WSDM)

English (fluent)

Experience

Language

Chinese (native)