Miss Lu FAN

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RESEARCH INTERESTS

Graph Mining, Recommender Systems, Image Processing

EXPERIENCE

CCCN, EE, CityU

SAR, Hongkong

Oct. 2017-Apr. 2018

Research Assistant

• Researching and analyzing an opinion dynamic model so-called Naming Game on adaptive networks.

IVSN Group, ZJUT

Hangzhou, Zhejiang

Sep. 2016-Aug. 2017

Undergraduate Research

- Involved in 4 research projects including
 - 1. Improved spectral clustering based on Node2vec features and personalized recommendation [1,3].
 - 2. Local recommendation framework based on geographical and categorical information (Thesis).
 - 3. Link prediction using supervised learning [2].
 - 4. Rating prediction based on MLR and semantic analysis [4].
- In the process I
 - Cleaned data, did exploratory data analysis and generated reports.
 - Extracted up to 23 common topology features for the project 3, defined an R structure which works well on both directed or undirected weighted

network, and is easy to extend.

- Implemented machine learning solutions and recommendation techniques.
- Designed the local recommendation architecture present in the thesis. Instigated the direction and completed most of the experimental research in the project 1. Wrapped a single wrapper function to easily subsetting the correlation matrix and extend recommender.
- Visualization. Made most of the map and figures in all 4 projects.
- Writing work in the project 1, 2 and 4.
- Published a browser demo for my own thesis: https://floatsd.shinyapps.io/GeoCUI/

DJI Technology Co., Ltd

Shenzhen, Guangdong

Jul. 2016-Aug. 2016

Intern

Developed and optimized the object detection, tracking and positioning algorithm, make it practical on the DJI
 Matrice 100 drone and won the bronze prize in the championship.

PUBLICATIONS	
[1] Jinyin Chen, Yangyang Wu, Lu Fan, Xiang Lin, Haibin Zheng, Shanqing Yu, Qi Xuan.	IWCSN2017
Improved Spectral Clustering Collaborative Filtering with Node2Vec Technology. 2017	
[2] Chenbo Fu, Minghao Zhao, Lu Fan, Xinyi Chen, Jinyin Chen, Zhefu Wu, Yongxiang Xia, Qi	IEEE TKDE
Xuan. Link Weight Prediction Using Supervised Learning Methods and Its Application to Yelp	Under Review
Layered Network	
[3] Jinyin Chen, Yangyang Wu, Lu Fan, Qi Xuan. N2VSCDNNR: A Clustering Recommender	In Progress
System Based on Node2vec and Rich Information Network	
[4] Yewei Yu, Lu Fan, Zhongyuan Ruan, Qi Xuan. Prediction of Restaurant Score Based on	In Progress
Multiple Linear Regression	

EDUCATION

Information Engineering Department, Zhejiang University of Technology

Sep. 2013- Jun. 2017

Bachelor of Engineering

Grade GPA: 84.2/100 Rank: 17/119

Honors Department Outstanding Thesis 2017

ZJUT Third-class Scholarship

Jun. 2017

2013/14, 2015/16

SKILLS

- Advanced in R
- Experienced in Matlab, C/C++, mySQL, Spark, OpenCV, Cuda and Linux
- Experienced in Data Mining, Implementing Machine Learning Solutions and Recommenders, Parallelized computing and Visualization
- Productivity Tools Seeker

APPENDIX		
Individual	• Extracted the MFCC and other three common audio features over 700+ bird	Mar. 2016
Project	song records. Developed an SVM classifier over 6 kinds of birds.	-Jun. 2016
	• Detected and tracked cars in video, count cars in flow and exam the speed of	Feb. 2016
	the vehicles, developed using Matlab and mean-shift algorithms.	
Eglish	• Cet-6: 517, Toefl: 83, Speak fluent English.	
Control	 Developed an oven temperature controller based on Cortex M4. 	Jun. 2016
Theroy &	• Developed a matlab user interface to visualize the performance of linear	May. 2016
Embedded	control model.	
System	 Developed a game application based on development board TM4C1294. 	Sep. 2015
	• Tested five controller based on Matlab Simulink. Emulation based on	May. 2014
	GML2001 maglev levitation ball systems and wrote part of documents.	-Sep. 2015
Habit	 ZJUT Arial Radio Control Model Team Member, build and control owned 	Mar. 2013
	drones and fixed wings, won the third prize in RC model control events,	-Current
	China Aeromodelling Design Challenge in Oct. 2015.	
Volunteer &	• Planned and Started the volunteer project of helping retired old to use	Jul. 2014
Organizatioal	modern high tech devices. Up to now it has become a long term project and	
capability	services hundreds of times.	
	• Planned and arranged two ZJUT eyas cup speech contest, one ZJUT	Oct. 2013
	Zongheng cup debate competition and multiple Volunteer activities.	-Jan. 2015



