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 	network, and is ea	sy to extend.		
1. Improved spectral clustering based on Node2vec	 Implemented ma 	chine learning solutions and		
features and personalized recommendation [1,3].	recommendation t	recommendation techniques.		
2. Local recommendation framework based on	 Designed the loca 	l recommendation architecture		

- 3. Link prediction using supervised learning [2].
- 4. Rating prediction based on MLR and semantic analysis [4].

geographical and categorical information (Thesis).

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
- 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 and 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;	IEEE TKDE
Qi Xuan. Link Weight Prediction Using Supervised Learning Methods and Its Application to	Under Revision
Yelp Layered Network	
[3] Jinyin Chen, Yangyang Wu, Lu Fan and Qi Xuan. N2VSCDNNR: A Clustering	Submitted to
Recommender System Based on Node2vec and Rich Information Network	TKDE
[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



