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 eas	y to extend.		
1. Improved spectral clustering based on Node2vec	 Implemented macl 	nine learning solutions and		
features and personalized recommendation [1,3].	recommendation te	chniques.		
2. Local recommendation framework based on	 Designed the local 	recommendation architecture		
geographical and categorical information (Thesis).	present in the thesis	s. Instigated the direction and		

- 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
- 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	Accepted	
Layered Network. 2018		
[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		

Information Engineering Department, Zhejiang University of Technology Bachelor of Engineering Grade GPA: 84.2/100 (91.6/100 in the last two school years) Honors Department Outstanding Thesis 2017 ZJUT Third-class Scholarship EDUCATION Sep. 2013- Jun. 2017 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



