Miss Lu FAN

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RESEARCH INTERESTS

Graph Mining, Recommender Systems, Spatio-temporal Data Analysis

EXPERIENCE				
CCCN, EE, CityU	SAR, Hongkong	Oct. 2017-Apr. 2018		
Research Assistant				
 Researching and analyzing an opinion dy. 	namic model so-called Naming Game or	n adaptive networks.		

IVSN Group, ZJUT
Undergraduate Research

Hangzhou, Zhejiang

Sep. 2016-Aug. 2017

- 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	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	

EDUCATION

Informa	tion Engineering Department, Zhejiang University of Technology	Sep. 2013- Jun. 2017
Bachelo	r of Engineering	
Grade	GPA: 84.2/100 (91.6/100 in the last two school years)	Overall Rank: 17/119
Honors	Department Outstanding Thesis 2017	Jun. 2017
	ZJUT Third-class Scholarship	2013/14, 2015/16

SKILLS

•	Ads	anced	ın	к

- Experienced in Matlab, C/C++, mySQL, Spark, OpenCV, Cuda and Linux
- Productivity Tools Seeker

Experienced in Data Analysis, Graph Mining, Implementing Machine Learning Solutions and Recommenders, Parallelized Computing and Visualization

	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-class prize in RC model control	-Current	
	events, 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	



