Miss Lu FAN

23D 44 Airong Road, Nanshan, Shenzhen, Guangdong, China 518000

https://floatsdsds.github.io

(+86) 159-9005-4622

floatsd.edu@gmail.com

INTERESTS

Data Mining, Recommender Systems, Spatial-Temporal Data, Graph Mining, Computer Vision

SKILLS

- Advanced in R
- Experienced in Matlab, C/C++, OpenCV, mySQL and Linux
- Exploring Spark, python and Tensorflow
- Experienced in Data Preprocessing, Exploratory Data Analysis, Implementing Machine Learning Solutions and Recommenders, Visualization
- Productive Tools Seeker

EXPERIENCE

ZJUT Information Processing and Automative Tech Laboratory

Sep. 2016-Current

Undergraduate Research

- Involved in 4 research projects including
 - 1. Improved spectral clustering based on Node2vec features and personalized recommendation.
 - 2. Thesis:Local recommendation framework based on geographical and categorical information.
 - 3. Link prediction using supervised learning.
 - 4. Rating prediction based on MLR and semantic analysis.
- 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

Intern & Team Member

Shenzhen, Guangdong

Jun. 2016-Aug. 2016

- Proposed the final used game plan for the team at the first.
- 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.

EDUCATION

Information Engineering Department, Zhejiang University of Technology

Sep. 2013- Jun. 2017

Bachelor of Engineering

Grade GPA: 3.27/4

Honors Department Outstanding Thesis 2017

ZJUT Third-class Scholarship

Jun. 2017

2013/14, 2015/16

PUBLICATIONS		
Jinyin Chen, Yangyang Wu, Lu Fan, Shanqing Yu. Personalized Recommendation	Will be submitted to	
Method with Spectral Clustering Based on Dynamic Nearest-Neighbors. 2017.	IWCSN2017	
Chenbo Fu; Minghao Zhao; Lu Fan; Xinyi Chen; Jinyin Chen; Zhefu Wu; Yongxiang	Submitted to	
Xia; Qi Xuan. Link Weight Prediction Using Supervised Learning Methods and Its	TKDE	
Application to Yelp Layered Network. 2017		

	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: 525, 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

SUMMARY

Recent graduate, an entry-level data scientist with computer vision and signal processing background. Experienced in implementing recommenders, graph mining algorithms and machine learning techniques on real-world datasets, especially on spatial-temporal data. Skilled in data visualization and generating data report. Highly motivate and creative. Familiar with browsing literature in the immediate area. Great passionate about tech and research.