Fujian Wu

🔗 https://ng-fukgin.gitee.io/   ⭗ github.com/ng-fukgin   📱 (+86) 13427667789   ✉ wfj.0000@gmail.com
✉ wufj165279@stu.nfu.edu.cn
📍 2F, 115 Cheung Shue Tan Village, Tai Po, New Territories, Hong Kong
ℹ Feb 1996, Lianzhou, Qingyuan, Guangdong Province, China

Research Assistant

Bio. I am currently a software engineer at Pong Yuen Holdings Limited, Research recommendation systems, target detection and other deep learning algorithms,as well as the use of ros to achieve car navigation 。

Research interests . My research work involves a series of problems : **recommendation systems, object detection, object tracking, ensemble learning,ROS**. Currently, I am interested in various deep learning methods (CNN, GAN, Deep Bayesian Learning, etc.).。

🎓 Education

Sep 2016 – Jun 2020	**Bachelor of Engineering** , Nanfang College of Sun Yat-sen University (NFSYSU), GuangZhou
	Electrical Engineering and its Automation
	Advisor : Prof. ChouJun Zhan
	Major :*Further Mathematics,Complex analysis,Fundamentals of Electric Circuit*
	GPA : *3.64/5.0* | **Rank** : *5/272*

📖 Publications

> Zhan, C., **Wu, F.**, Huang, Z. et al. Analysis of collective action propagation with multiple recurrences. Neural Comput & Applic 32, 13491–13504 (2020). https ://doi.org/10.1007/s00521-020-04756-3.

> Z. Wu, **F. Wu**, J. Chai, C. Zhan and Z. Yu, "Prediction of Daily Precipitation Based on Deep Learning and Broad Learning Techniques," 2019 IEEE 14th International Conference on Intelligent Systems and Knowledge Engineering (ISKE), 2019, pp. 513-519, doi : 10.1109/ISKE47853.2019.9170361.

> Wu, Shuangyan & Zheng, YuFan Lai, Zhikang & **Wu, Fujian** & Zhan, Choujun. (2019). Movie box office prediction based on ensemble learning. 1-4. 10.1109/ISPCE-CN48734.2019.8958631.

> Z. Wu, **F. Wu**, J. Chai, C. Zhan and Z. Yu, "Prediction of Daily Precipitation Based on Deep Learning and Broad Learning Techniques," 2019 IEEE 14th International Conference on Intelligent Systems and Knowledge Engineering (ISKE), 2019, pp. 513-519, doi : 10.1109/ISKE47853.2019.9170361.

☰ Skills

Programming Skills :	**Python**, C, LaTeX, Matlab.
Machine Learning :	*master in* **Ensenble Leaning,Deep Leaning.**
	familiar with most predicted machine learning.
Computer Vision :	*have a certain understanding of* image processing (segmentation, classification, etc.)

</> Projects & Experiences

May 2022 Oct 2021	ROS navigation, PongYuen, Python > Use Isaac sim to build a repository environment with physical properties ; > Use actiongraph in isaac sim to publish radar data information to ROS ; > ROS reads the radar information and uses the relevant navigation algorithms to control the movement of the car ROS navigation
May 2022 Oct 2021	Recommendation system, PongYuen, Python > Recommend favorite movies based on movies the user has seen ; > By analyzing the preferences of multiple users, it can recommend other movies that people who have seen that movie like to watch to users based on the information that users have seen a certain movie. Recommendation system Machine Learning
Oct 2021 Oct 2021	Speech recognition, PongYuen, Python > Identify what the user is saying by the frequency and ripple of the voice. Speech recognition RIVA

Sept 2021 May 2021	**Solar radiation prediction, PongYuen, Python** › Analyze periodicity of solar radiation using Python and predict solar radiation using ensemble learning； › Calculate the relationship between solar radiation and power generation through the azimuth angle of the sun, the zenith angle, the position of the solar panel, and the physical properties； `Deep learning` `ensemble learning`
Jul 2020 May 2020	**Spodoptera frugiperda identification, PongYuen, Python** › Spodoptera frugiperda identification； › The collected images are processed through geometric transformations such as translation, transposition, mirroring, rotation, scaling, etc., to correct the systematic errors of the image acquisition system and the random errors of the instrument position (imaging angle, perspective relationship, and even the lens itself). › Classification predictions (cocoons, larvae, adults) of Spodoptera frugiperda using deep learning `Deep learning` `Image graying` `Image graying`
May 2020 Oct 2017	**Time series forecasting, Nanfang College of Sun Yat-sen University, Matlab/Python** › *Rain Forecast*Based on rain classification forecast implemented by Matlab.； › *Rain Forecast*Based on rain classification forecast implemented by python. › Box Office Prediction with Ensemble Learning and Deep Learning. › We consider actions that propagate in a social network with multiple communities and find the growth in the propagation breadth of collective action can be explained by a simple mathematical model with an analytical solution. `Ensemble learning` `Deep learning` `Broad learning` `complex networks`

♟ Honors & Awards

Spring 2020	Outstanding graduates student of Nanfang College of Sun Yat-sen University.
Fall 2019	First-class scholarship for outstanding students in Nanfang College of Sun Yat-sen University(<2%).
Fall 2018	First-class scholarship for outstanding students in Nanfang College of Sun Yat-sen University(<2%).
Fall 2017	Second-class scholarship for outstanding students in Nanfang College of Sun Yat-sen University(<7%).
2017-2020	Provincial Undergraduate Training Program for Innovation and Entrepreneurship (two times)
2017-2020	University-level Undergraduate Training Program for Innovation and Entrepreneurship

♀ Interests

Sports：	Table tennis, badminton.
Games	Mobile games, PC games,Board games
Movies :	Funny, Suspenseful, Historical, Scary .

(last update : 13 Feb. 2022)