Yongshuo Liu

No.2 Poyanghu Road,Shinan Dist,Qingdao,Shandong,China

📞 086-15154723247 ✉ liuyongshuo@stu.qau.edu.cn ⭘ YongshuoLiu.github.io in linkedin.com/in/yongshuoliu

Education

Qingdao Agricultural University   **Sep. 2019 - May. 2023**
Bachelor of Engineering in Computer Science,GPA:3.33/4.0   *Qingdao,Shandong*
Thesis: Design and Implementation of Face Recognition Sign-in System Based on Deep Learning and Flask
Research focus: Application of deep learning in navigational systems

Publications

Research into Ship Trajectory Prediction Based on An Improved LSTM Network   **JMSE**
*Jiangnan Zhang[1], Hai Wang[2], **Yongshuo Liu**[2], Zhenxing Liu[2] and Junyu Dong[1,*]*   *June 2023*

Research On Multi-Source Ship Trajectory Processing And Matching Method   **JMSE**
Based On Graph Neural Network
*Jiangnan Zhang[1,2], **Yongshuo Liu**[3], Fengjuan Cui[4] , Zhenxing Liu[3], and Junyu Dong[1,*]*   *Under peer review*

Research On Maize Disease Identification Methods In Complex Environments   **Scientific Reports**
Based On Cascade Networks And Two-Stage Transfer Learning
*Hongxin Liu, Haichen Lv, Jiajun Li, **Yongshuo Liu** and Limiao Deng*   *November 2022*

Projects

Shandong Province Agricultural Science and Technology Service Project   **Aug. 2019 - May. 2022**
Construction of Agricultural Science and Technology Service Application System

- **System Design and Implementation:** Participate in the development of the Science and Technology Special Commissioner System, ensuring streamlined operations and enhanced service delivery.
- **Target Detection Algorithm Development:** Developed a Faster R-CNN-based approach to extract features from pest and disease-affected areas, significantly enhancing classification accuracy.
- **Efficient Classification Model Development:** Implemented dynamic convolution and early exit mechanisms to boost both model accuracy and computational efficiency.
- **Patents Awarded:**Caixia Song,Pengmin Xu,**Yongshuo Liu**,Zhiguo Qi (2020). A reservation system for science and technology special commissioners, **Chinese Patent CN111931964A.**
- **Patents Awarded:**Jiangnan Zhang,Junyu Dong,Feng Gao,Hai Wang,Wenbo Li, **Yongshuo Liu**(2022). Method for identifying multiple types of crop leaf diseases using dynamic neural networks, **Chinese Patent CN114022872A.**

Technical Skills

Languages: Python, C, C++, HTML/CSS, JavaScript, SQL
Developer Tools: Pycharm, Eclipse
Technologies/Frameworks: Pytorch, Tensorflow, Flask, Sklearn, Linux

Honors & Awards

2020 **National Inspirational Scholarship(top5%),** Recognizes outstanding computer majors, nominated by faculty.
2021 **Third-Class Scholarship(top15%),** Recognizes outstanding computer majors, nominated by faculty.
2021,2022 **Third Prize in Mathematical Modeling Competition(top15%),** Nominated by the Shandong Education Department.
2023 **Outstanding Bachelor's Thesis(top5%),** Selected by Qingdao Agricultural University.
2023 **First-Class Scholarship(top2%),** Recognizes outstanding computer majors, nominated by faculty.
2019-2023 **Merit Student(top15%),** Recognizes outstanding computer majors, nominated by faculty.

Referees

Dr. Jingtao Jiang
Professor of Mechanical and Electrical Engineering at Qingdao Agricultural University,**Email**: jjtao_2518@163.com
Dr. Hongtao Shi
Associate Professor of Computer Science at Qingdao Agricultural University,**Email**: sht@qau.edu.cn
Dr. Limiao Deng
Associate Professor of Computer Science at Qingdao Agricultural University,**Email**: lmdeng@qau.edu.cn