

YONGSHUO LIU

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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 Zhang¹, Hai Wang², Yongshuo Liu², Zhenxing Liu² and Junyu Dong^{1,}*

June 2023

**Research On Multi-Source Ship Trajectory Processing And Matching Method
Based On Graph Neural Network**

JMSE

Jiangnan Zhang^{1,2}, Yongshuo Liu³, Fengjuan Cui⁴, Zhenxing Liu³, and Junyu Dong^{1,}*

Under peer review

**Research On Maize Disease Identification Methods In Complex Environments
Based On Cascade Networks And Two-Stage Transfer Learning**

Scientific Reports

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

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Dr. Hongtao Shi

Associate Professor of Computer Science at Qingdao Agricultural University,**Email:** sht@qau.edu.cn

Dr. Limiao Deng

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