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 Investigated deep learning-based image recognition models aimed at enhancing the accuracy and speed of image processing software.

Relevant Coursework

- Data Mining
- Software Methodology
- Algorithms Analysis
- Database Management
- Artificial Intelligence
- Internet Technology
- Systems Programming
- Computer Architecture

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 Based On Graph Neural Network **JMSE**
*Jiangnan Zhang[1,2], **Yongshuo Liu**[3], Fengjuan Cui[4] , Zhenxing Liu[3], and Junyu Dong[1,*]* *Under 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 **August 2019 - August 2022**
Construction of Agricultural Science and Technology Service Application System

- System Design and Implementation: Spearheaded the development of the Science and Technology Special Commissioner System, ensuring streamlined operations and enhanced service delivery.
- Algorithm Development for Image Segmentation: Engineered advanced image segmentation algorithms to enhance the extraction of features from raw data, significantly improving the system's analytical capabilities.
- Innovative Image Processing Algorithms: Developed cutting-edge image processing algorithms aimed at increasing the accuracy and speed of pest and disease detection in crops, directly contributing to enhanced agricultural productivity.
- Patents Awarded:Song Caixia,Xu Pengmin,**Yongshuo Liu**,Qi Zhiguo (2020). A reservation system for science and technology special commissioners, Chinese Patent CN111931964A.
- Patents Awarded:Zhang Jiangnan,Dong Junyu,Gao Feng,Wang Hai,Li Wenbo, **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, Google Cloud Platform
Technologies/Frameworks: Linux, Pytorch, Tensorflow, Flask, sklearn, Keras

Honors & Awards

2020 **National Inspirational Scholarship,** Recognizes outstanding computer majors, nominated by faculty.
2021 **Third-Class Scholarship,** Recognizes outstanding computer majors, nominated by faculty.
2021 **Third Prize, National Undergraduate Mathematical Modeling Contest,** nominated by the Shandong Education Department.
2022 **Third Prize, National Undergraduate Mathematical Modeling Contest,** nominated by the Shandong Education Department.
2023 **Third-Class Scholarship,**Recognizes outstanding computer majors, nominated by faculty.
2023 **Outstanding Bachelor's Thesis,**selected by Qingdao Agricultural University