Yaxuan Wang

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Education

Sichuan University

Automation 3.75 GPA 2019.09-2020.08

Computer Science(Top-notch Program) 3.86 GPA 2020.09-Present

IELTS 7.0

Coursework: Data Structures/Algorithms, Discrete Math, Statistics/Probability,Robotics Programming with ROS, Introduction to Deep Learning, Introduction to Pattern Recognition

Activities: Team Leader of The RoboMaster University AI Challenge, president of 3D Printing Association

Research

SLAM-based Research on Automated Unmanned Infantry **2021.09-Present**

- Aim to create an automated unmanned infantry with SLAM, target detection, path planning, intelligent decision-making technologies to participate in The RoboMaster University AI Challenge.
- Coordinate the perception, planning, and decision-making. Mainly responsible for the SLAM technology research and Multi-intelligence reinforcement learning.

Research on Urban Safety Perception **2021.10-Present**

- Explore the factors affecting pedestrian safety perception by designing segmentation networks to segment the street scene images. Then use them to quantify the perception and evaluate city safety.
- Responsible for improvement of street view segmentation algorithm and the construction of City Perception Safety Evaluation Model.

Application Research of Artificial Intelligence Technology Based on CBCT to Automatically Determine Alveolar Bone Density **2021.10-Present**

- Segmentation from the oral CBCT image to the alveolar bone part, and calculate the gray value.

NLP-based Data Analysis of Commodity Research Reports **2021.11-Present**

- Extract useful information from PDF research documents by using NLP technology.
- Responsible for NLP processing based on the research information in the PDF to extract useful information to assist users' investment decisions.

Portable Vision Integrated Real-time Detection and Tracking System for Rare Animals **2020.10-2021.09**

- A gimbal-based portable system is designed to carry a real-time target detection and tracking system with high robustness.
- Responsible for the research of target tracking algorithm based on optical flow method.

Skills

- Familiar with using multiple programming languages, such as Python, Java, C++, etc.
- Familiar with the commonly used deep learning framework PyTorch, and systematically learned the basic theoretical knowledge of pattern recognition and deep learning.
- Full-stack development experience and master the flask development framework.
- Familiar with database and the technics of web crawler, with basic data analysis capabilities.
- Possess good literature reading and comprehension skills and English writing skills, familiar with LaTeX

Awards

National Scholarship CK Power Scholarship School-level first-class scholarship 2021

The 14th China University Student Computer Design Competition - National First Prize 2021

The RoboMaster University Championship - South Division First Prize 2021

The RoboMaster University League - Provincial First Prize 2021

Outstanding Student of Sichuan University 2020

Outstanding Cadre of Sichuan University Library Volunteer Team 2020

The Eighth Sichuan University Student Engineering Training Comprehensive Ability Competition - First Prize at School Level 2020

Second Prize of College-level English Speech Contest of Electrical Engineering 2019