Licheng Zheng

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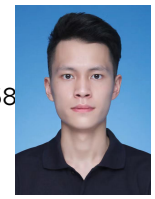

Skill Set

- Familiar with C++, Python, HTML, CSS.
- Basic experience in Vue, JavaScript, Java, SQL, CUDA programming.
- Hands-on experience in Ubuntu and git on daily basis.
- Comprehend C-Compiling methods, machine learning, deep learning.

Education

Shanghai University Artificial Intelligence major GPA 84.7/100 Sep 2021-Now

Projects

School Research — Research on automatic descriptor acquisition method for NASICON electrolyte — May 2022 - Mar 2023

Overview: Using the text mining method, descriptors can be extracted from small batch of NASICON solid electrolyte documents and trained based on this model to achieve automatic and efficient acquisition of NASICON solid electrolyte descriptors.

Content: Using **Vue** to develop front-end interfaces and the back-end deployment using **Springboot** to communicate with **MySQL** and **Neo4j** databases. BERT algorithm are deployed using **Pytorch** for paper processing, and the extracted descriptors are used to construct the knowledge map using **Neo4j** database.

Group Project — Computer Vision Algorithm Recognition System for RoboMaster Robots — Oct 2021 - Dec 2022

Overview: Through the video stream of industrial camera deployed on the robot, this project can identify enemy robots' armor plates, and publish the target coordinate information to lock the platform at the recognition center. Its performance is similar to a self-aiming plugin in First-person shooting games.

Content: The Yolo network is deployed on **Ubuntu** using **CUDA**. Kalman filter and trajectory model are used to improve the impact point of the projectile and achieve accurate strike.

Awards

- Third prize in The 21st National Undergraduate Robot Competition (RoboMaster 2022). Aug 2022
- First prize in The 35th Shanghai Youth Science and Technology Innovation Competition. Apr 2020
- First prize in Shanghai Youth Robot Knowledge and Practice Competition. Nov 2018, and Nov 2019
- First prize in Shanghai Youth AI Competition. Nov 2018