Wenhao Sun
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Educational Background

School：Institute of Computing Technology, Chinese Academy of Sciences　　**Grade**：MS of First Grade

Basic Skills

Programming Skill：C/C++，Python，Verilog，PLC(ST), ASM(AT&T、RISCV)

English Test Skill：TOEFL(103/120)

Professional Skill：TensorFlow/Pytorc，Linux，LLVM，Verilog，CODESYS

Published Papers：

（1）Landslide Identification Method Based on the FKGRNet Model for Remote Sensing Images, Remote Sensing, 2023

[2] Geographical name culture sharing query service system for the "Belt and Road", Journal of Education, Humanities and Social Sciences, 2023

Research Experience

1.Researching of a multi-source global geographical name database and shared platform for the "Belt and Road" — excellent conclusion of National College Student Innovation Training Project

• **Relate Works**：
（1）Data crawler: Write crawler programs for Boya Place Name Network, GeoNames, Meituan and other websites
（2）Text Mining: Using LSTM network and LDA topic model to perform sentiment analysis
（3）Software development: Use vue framework and Android Studio to build a visualization platform
（4）Paper : Fusion of knowledge graph and ResNet, proposed model solving the problem of landslide data

2.HFUT "Process Optimization and Intelligent Decision-making" Key Laboratory-Internship Student

• **Relate Works**：
（5）Algorithm design: Design surgical robot control algorithm based on reinforcement learning strategy
（6）Patent writing: Writing an invention patent: Multi-degree-of-freedom flexible nasopharyngeal swab sampler
（7）Group meetings: Participate in laboratory group meetings, study and report on cutting-edge academic papers

3. Institute of Computing Technology, Chinese Academy of Sciences - Guest Student

• **Relate Works**：
（8）Model migration: Migrate the CUDA version of the YOLO-V5 model to MLU220
（9）System optimization: Optimize the RTOS based on Xenomai patch, improve the real-time performance of the industrial intelligent computer system, and conduct testing in complex environments
（3）Participation projects: Participated in the CAS leading B-type project to complete the simulation of the storage and computing integrated chip and the transplantation of the YOLO-Tiny model on the storage and computing integrated chip.

intellectual Property

Multi-degree-of-freedom flexible nasopharyngeal swab sampler	Patent,China	Fifth Author
A qualitative location spatial range construction method based on knowledge graph	Patent,China	Third Author
An autonomous obstacle avoidance and stabilization device for UAV	Utility model patents,China	Second Author
A new type of intelligent drone delivery device	Utility model patents,China	Third Author
ML intelligent paperless conference management and control system	Software Copyright	First Author
Database visualization system based on big data	Software Copyright	First Author

Received Honor

The 14th International Aquatic Robot Competition	National Third Prize
The 10th National College Student Process Equipment Practice and Innovation Competition	National Second Prize
The 12th National Surveying and Mapping Paper Competition for College Students	National Second Prize
The 16th CIMC "Siemens Cup" China Challenge (East China Division)	Provincial First Prize
The 8th Anhui "Internet +"College Students Innovation and Entrepreneurship Competition	Provincial First Prize
2022 Anhui Internet of Things Innovation Design Competition	Provincial Second Prize
2022 China Robot and Artificial Intelligence Competition (Anhui Division)	Provincial Third Prize
The 13th HFUT College Students Mathematics Competition	First Prize in the School (Sixth in the School)
Outstanding Graduates of Anhui Province	
University of Chinese Academy of Sciences Postgraduate Academic Scholarship	