

Haijun Xiong | CV

📍 School of Electronic Information and Communications, HUST
Wuhan – China

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Education Background

Huazhong University of Science and Technology (HUST) **Wuhan, China**
Master of Engineering, Information and Communication Engineering Sept 2022–Jun 2025

Huazhong University of Science and Technology (HUST) **Wuhan, China**
Bachelor of Engineering, Electronic and Information Engineering Sept 2018–Jun 2022
GPA: 3.86/4.0, GRADE: 88.7/100, RANK: 4/26

Awards & Achievements

First-class Scholarship for Postgraduates (HUST) Dec 2022
Outstanding Graduate (HUST) Jun 2022
Scholarship for National Encouragement Dec 2021
Outstanding Communist Party Member (EIC) Jul 2021
Outstanding Communist Youth League Cadre (HUST) May 2021
Outstanding Student Cadres (HUST) Dec 2020

Projects

Research on Intelligent Vision Algorithm for Fall Recognition Mar 2021–Jul 2022

- First, YOLOv5 and ByteTrack are used to identify and track pedestrians in the surveillance.
- Then using the sliding window in the same ID sequence obtained, 16 consecutive frames of images are stitched together into a large image, which is sent to the fall recognition network. The backbone of the fall recognition model is ResNet18.
- I am mainly responsible for algorithm development and porting.

Competition on Human Identification at a Distance 2021 Mar 2021–Jun 2021

- The Multi-branch Diverse Region Feature Generator module (MDFG) is employed in both Set-level and Frame-level to generate visual clues in diverse regions for fine-grained feature learning;
- The Global and Micro Motion Capturing Module (GMCM) contains two parts: Micro-motion Template Builder (MTB) and Global-motion Template Builder (GTB). GMCM is proposed for global-local temporal feature learning.

Design of digital voltmeter based on MCS51 (C) Mar 2021–Jun 2021

- Utilized C to achieve the 8-bit PCF8591 chip to convert the voltage signal collected by the MCS51 into a digital signal;
- Employed IIC to control LCD screen to display three and a half digits of the result;

- Adopted button for ranging conversions, and display positive or negative polarity and over-range errors

Languages & Computer Skills

English: CET-6 479

IT: Extensive knowledge of Linux, Python, C, C++ and could use Python packages including Pytorch, Numpy, pandas, Sciki-learn, Opencv, and so on fluently.

Publications

[1] Shiqi Yu, Yongzhen Huang, Liang Wang, Yasushi Makihara, Edel B García Reyes, Feng Zheng, Md Atiqur Rahman Ahad, Beibei Lin, Yuchao Yang, Haijun Xiong, et al. Hid 2021: Competition on human identification at a distance 2021. In *2021 IEEE International Joint Conference on Biometrics (IJCB)*, pages 1–7. IEEE, 2021.