

HONGYU ZHU

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Research Direction: Computer Vision, Biometrics, Data Augmentation.

EDUCATION

Chongqing Technology and Business University(CTBU), China <i>Master's Degree Candidate of Software Engineering</i>	Sept. 2022 - Present
Chongqing Technology and Business University(CTBU), China <i>Bachelor of Automation</i>	Sept. 2018 - June 2022

PROJECTS & RESEARCH EXPERIENCE

Chongqing Institute of Financial Technology: Vein Identification • Optimising algorithms for vein classification systems. • Researching finger vein recognition algorithms.	July 2023 – Sept. 2023
Chongqing Intelligence Perception and Block Chain Technology Key Lab • Researching Eye Movement Recognition and Data Augmentation algorithm, supervised by Prof. Huafeng Qin .	Sept. 2022 – Present
CAIRI AI Lab, Westlake University • Summarize and optimize Mixup algorithm, work with PhD.C Siyuan Li and Prof. Stan Z. Li .	Mar. 2024 – Present

SELECTED PUBLICATIONS (* denotes Co-author, † denotes corresponding author.)

A Survey on Mixup Augmentations and Beyond Xin Jin*, Hongyu Zhu *, Siyuan Li*, Zedong Wang, Zicheng Liu, Chang Yu, Huafeng Qin, Stan Z. Li†. 📄 List	arXiv, 2024
SUMix: Mixup with Semantic and Uncertain Information Huafeng Qin*, †, Xin Jin*, Hongyu Zhu *, Hongchao Liao, Mounim A. El-Yacoubi, Xinbo Gao.	ECCV, 2024
Relax DARTS: Relaxing the Constraints of Differentiable Architecture Search Hongyu Zhu *, Xin Jin*, Hongchao Liao, Yan Xiang, Mounim A. El-Yacoubi, Huafeng Qin†.	CCBR, 2024
StarLKNet: Star Mixup with Large Kernel Networks for Palm Vein Identification Xin Jin*, Hongyu Zhu *, Mounim A. El-Yacoubi, Hongchao Liao, Huafeng Qin, Yun Jiang†.	arXiv, 2024
EmMixfomer: Mix Transformer for Eye Movement (<i>Major Revision</i>) Huafeng Qin†, Hongyu Zhu , Xin Jin, Qun Song, Mounim A. El-Yacoubi, Xinbo Gao.	arXiv, 2024
EM-DARTS: Hierarchical Differentiable Architecture Search for Eye Movement Recognition Huafeng Qin†, Hongyu Zhu , Xin Jin, Xin Yu, Mounim A. El-Yacoubi, and Xinbo Gao.	arXiv, 2024
GANet: Gabor Attention Aggregation Network for Palmvein Identification (<i>Oral</i>) Hongchao Liao, Xin Jin, Hongyu Zhu , Yuming Fu, Mounim A. El-Yacoubi, Huafeng Qin†.	HSI, 2024

ADDITIONAL ACHIEVEMENTS

patents for invention:

An Eye Movement Recognition Method Based on Hybrid Transformer and LSTM Network. (substantive examination)
Qin Huafeng, [Zhu Hongyu](#), Jin Xin, Wu Yiquan, Liao Hongchao, Zhang Qin, Yang Kaiyuan

An Eye Movement Recognition Algorithm Based on Global Differentiable Architecture Search (substantive examination)
Qin Huafeng, [Zhu Hongyu](#), Jin Xin, Liao Hong-chao, Chen Jing, Xiang Yan

Certificate:

Mandarin (Level 2-B), English (CET-4), National Computer Rank Examination (NCRE, Grade 2)

Awards:

2021.09 **National Second Prize** of the National College Student Intelligent Car Competition.

2021.12 Second Prize of National University Student Mathematical Modeling Competition Chongqing Region.

2024.07 Silver Prize in the 14th "Challenge Cup" Chongqing Municipal Selection Competition.

2024.08 Silver Award in the China International Student Innovation Competition (2024) Chongqing