

Wenbo Huang

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1996-10



Education

Nanjing Tech University

Automation Bachelor College of Electrical Engineering and Control Science

Sep 2015 - Jun 2019

Nanjing, Jiangsu, China

Nanjing Normal University 211 Double 1st-Class

Electronic Information Master School of Electric and Automation Engineering/College of Computer and Electronic Information

Sep 2019 - Jun 2022

Nanjing, Jiangsu, China

Southeast University 985 211 Double 1st-Class

Computer Science and Tecnology (Artificial Intelligence) Doctor School of Computer Science and Engineering

Sep 2022 - Jun 2025

Nanjing, Jiangsu, China

- Excellent Ph.D Training Program

Research Interests

Video Analytic, Multimedia, and Ubiquitous Computing

Publication

Paper:

- **Wenbo.Huang**, Jinghui Zhang*, Xuwei Qian, et al. *SOAP: Enhancing Spatio-Temporal Relation and Motion Information Capturing for Few-Shot Action Recognition, the 32nd ACM International Conference on Multimedia, Melbourne, Australia (CCF Rank A, Accept rate 26.2%), 2024.*
- **Wenbo.Huang**, Lei.Zhang*, Hao.Wu, et al. *Channel-Equalization-HAR: A Light-weight Convolutional Neural Network for Wearable Sensor Based Human Activity Recognition, IEEE Transactions on Mobile Computing (CCF Rank A, IF=7.9, ESI Top 1% Highly Cited), 2022.*
- **Wenbo.Huang**, Lei.Zhang*, Shuoyuan.Wang, et al. *Deep Ensemble Learning for Human Activity Recognition Using Wearable Sensors via Filter Activation, ACM Transactions on Embedded Computing Systems (CCF Rank B, IF=2.0, ESI Top 1% Highly Cited), 2022.*
- **Wenbo.Huang**, Lei.Zhang*, Qi.Teng, et al. *The Convolutional Neural Networks Training with Channel-Selectivity for Human Activity Recognition Based on Sensors, IEEE Journal of Biomedical and Health Informatics (Old Name : IEEE Transactions on Information Technology in Biomedicine, CCF Rank C, IF=7.7), 2021.*
- **Wenbo.Huang**, Lei.Zhang*, Wenbin.Gao, et al. *Shallow Convolutional Neural Networks for Human Activity Recognition using Wearable Sensors, IEEE Transactions on Instrumentation and Measurement (CIS Rank T1, CAA Rank B, IF=5.6), 2021.*
- Wenbin.Gao, Lei.Zhang*, **Wenbo.Huang**, et al. *Deep Neural Networks for Sensor Based Human Activity Recognition Using Selective Kernel Convolution, IEEE Transactions on Instrumentation and Measurement (CIS Rank T1, CAA Rank B, IF=5.6), 2021.*
- Xing.Wang, Lei.Zhang*, **Wenbo.Huang**, et al. *Deep convolutional networks with tunable speed-accuracy trade-off for human activity recognition using wearables, IEEE Transactions on Instrumentation and Measurement (CIS Rank T1, CAA Rank B, IF=5.6), 2021.*
- Shige.Xu, Lei.Zhang*, **Wenbo.Huang**, et al. *Deformable Convolutional Networks for Human Activity Recognition Using Wearable Sensors, IEEE Transactions on Instrumentation and Measurement (CIS Rank T1, CAA Rank B, IF=5.6), 2022.*
- ChaoLei.Han, Lei.Zhang*, Yin.Tang, **Wenbo.Huang**, et al. *Human Activity Recognition Using Wearable Sensors by Heterogeneous Convolutional Neural Networks, Elsevier Expert Systems with Applications (CCF Rank C, IF=8.5), 2022.*
- Shuoyuan.Wang, Lei.Zhang*, Xing.Wang, **Wenbo.Huang**, et al. *A novel all-MLP architecture for real-time human activity recognition in wearable devices, IEEE Transactions on Biometrics, Identity and Behavior, 2024.*

Academic Work

Reviewer for ACM MM 2024, NeurIPS 2024, IEEE Transactions on Knowledge and Data Engineering, Elsevier Neurocomputing. 2023.

Honor & Award

- Freshman Scholarship of Southeast University in 2022
- Outstanding Graduate student of Nanjing Normal University in 2022
- National Scholarship for Postgraduate Students in 2021 (rank 1, total 65)
- First-class Academic Scholarship of Nanjing Normal University in 2021 (rank 6, total 65)
- Outstanding Postgraduate of Nanjing Normal University in 2021 (rank 3, total 31)
- The third provincial prize of "Black Science and Technology" special Competition of the 17th "Challenge Cup" National College Students Extracurricular Academic Science and Technology Works Competition in 2021

Skills

- **Programming:** Proficient in Using Python libraries such as NumPy, Pandas, and SciKit-learn
- **Languages:** CET-4 522, CET-6 494
- **Activities:** Improving mathematical and algorithmic foundations of learning: Data Structure, Calculus, Probability and Statistics, Matrix Theory, Machine Learning (Zhihua Zhou), Deep Learning (CS231n)

Summary

- Homepage: wenbohuang1002.github.io
- Google Scholar Cited 400+.
- I was mainly engaged in the Video Analysis and Ubiquitous Computing under the guidance of my supervisor. I have the ability to read and write English papers. During my study, I was able to actively track CVPR, NIPS, ICML and other top papers, carefully analyze Github codes and get used to paper with code mode. I have mastered the typesetting skills of LaTeX papers.
- I am familiar with Python language, PyTorch, TensorFlow, Keras and other deep learning frameworks. I studied CS231n and other deep learning courses, and participated in the horizontal project of machine vision (Suzhou Futai Information Technology Co., LTD., Garbage classification video processing system based on deep learning).
- I used to work as a laboratory administrator, can skillfully use Ubuntu operating system and be responsible for the maintenance of laboratory deep computing server (5 RTX3090, 1 RTX2080ti and 1 GTX1080ti).