Wenbo Huang

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Education

Nanjing Tech University Sep 2015 - Jun 2019
Automation Bachelor College of Electrical Engineering and Control Science Nanjing, Jiangsu, China

Nanjing Normal University 211 Double 1st-Class Sep 2019 - Jun 2022
Electronic Information Master School of Electric and Autumation Engineerning/College of Computer and Electronic Information Nanjing, Jiangsu, China

Southeast University 985 211 Double 1st-Class Sep 2022 - Jun 2025
Computer Science and Tecenology (Artificial Intelligence) Doctor School of Computer Science and Engineerning Nanjing, Jiangsu, China

- Excellent Ph.D Training Program (The class of 2022 has only 50 members)

Research Interests

I focus on Video Analytic, Multimedia, and Ubiquitous Computing, Google Scholar citations 400+, of which ESI Top 1% high cited 2 articles.

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.**

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 Python, C#, Kotlin and other languages, master PyTorch, TensorFlow, Keras and other deep learning frameworks.
- **Languages:** CET-4 522, CET-6 494
- **Typesetting:** Proficient in LaTeX paper typesetting skills, able to efficiently produce professional and standardized academic paper documents.

Experiences

- **Reviewers:** ACM MM 2024, NeurIPS 2024, IEEE TKDE, IEEE TMM, Elsevier Neurocomputing, etc.
- **Teching assitant:** Data structures, operating systems.
- **Laboratory administrator:** proficient in using Ubuntu operating system and responsible for the maintenance of laboratory deep computing server.

Summary

- **Self-drive ability and research passion:** Have a strong self-drive and love of research, committed to in-depth exploration of personal interest areas.
- **English paper literacy:** The ability to read and write English papers independently, and to accurately understand and express academic ideas.
- **Top conference paper tracking:** Actively track the latest papers of CVPR, ICCV, NIPS, ICML and other top academic conferences to maintain sensitivity to cutting-edge research.
- **Code analysis and practice:** Carefully analyze the code on Github, deepen the understanding of the theory of the paper through practice, improve the programming and problem solving ability.
- **Combining paper with code:** Accustomed to the research mode of "paper with code", combining theory with practice to improve the depth and breadth of research.