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 500+, of which ESI Top 1% high cited 2 articles. My research is for civilian use and can be applied to sports events and health monitoring.

Publication (Partial)

- First Author. Manta: Enhancing Mamba for Few-Shot Action Recognition of Long Sub-Sequence, the 39th Annual AAAI Conference on Artificial Intelligence, Philadelphia, USA (CCF Rank A, Accept rate 23.4%), 2025.
- Co-Author. Generalizable Sensor-Based Activity Recognition via Categorical Concept Invariant Learning, the 39th Annual AAAI Conference on Artificial Intelligence, Philadelphia, USA (CCF Rank A, Accept rate 23.4%), 2025.
- Co-Author. . E2E-MFD: Towards End-to-End Synchronous Multimodal Fusion Detection, the 38th Annual Conference on Neural Information Processing Systems, Vancouver, Canada (CCF Rank A, Oral Presentation, Accept Rate 25.8%), 2024.
- First Author. 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.
- First Author. 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.
- First Author. 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.
- First Author. The Convolutional Neural Networks Training with Channel-Selectivity for Human Activity Recognition Based on Sensors, IEEE Journal of Biomedical and Health Informatics (CCF Rank C, IF=7.7), 2021.
- First Author. Shallow Convolutional Neural Networks for Human Activity Recognition using Wearable Sensors, IEEE Transactions on Instrumentation and Measurement (IF=5.6), 2021.

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.
- **Typesetting:** Proficient in LaTeX paper typesetting skills, able to efficiently produce professional and standardized academic paper documents.

Experiences

- **Reviewers/Program Committee Number:** ICML 2025, ICLR 2025, ACM MM 2024 (Outstanding Reviewer), NeurIPS 2024, AISTATS 2025, 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, NeurIPS, 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.