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   Nanjing, Jiangsu, China
Electronic Information
Southeast University 985 211 Double 1st‑Class   Sep 2022 - Jun 2025
Intelligence Science and Technology 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 Analysis, Multimedia, and Ubiquitous Computing, Google Scholar citations 500+, of which ESI Top 1% high cited 2 articles. My research can be applied to sports events and health monitoring. For coaches and athletes, my studies can help them analyze technical movements and find potential room for improvement to improve athletic performance. For doctors and patients, my studies can assess posture and movement, and develop more accurate rehabilitation plans.

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

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