

Wenbo Huang

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Birthdate： 1996-10

Institute of SCIENCE TOKYO

Education

Institute of Science Tokyo (Formerly Tokyo Institute of Technology) Aug 2025 - Jan 2026
Artificial Intelligence Doctor Department of Computer Science Tokyo, Japan
- Government-Sponsored Visiting

Southeast University Sep 2022 - Jun 2025
Artificial Intelligence Doctor School of Computer Science and Engineering Nanjing, Jiangsu, China
- Excellent Ph.D Training Program (The class of 2022 has only 50 members)

Nanjing Normal University Sep 2019 - Jun 2022
Electronic Information Master School of Electric and Autumation Engineering Nanjing, Jiangsu, China

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

Research Interests

I focus on Video Analysis, Multimedia, and Ubiquitous Computing, Google Scholar citations 800+, 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)

Full publication list available on Google Scholar——Wenbo Huang.

- First Author. Otter: Mitigating Background Distractions of Wide-Angle Few-Shot Action Recognition with Enhanced RWKV, the 40th Annual AAAI Conference on Artificial Intelligence, Singapore (Oral, Accept Rate 17.6%), 2026.
- Corresponding Author. DeepSenseMoE: Harnessing Power of Time Series Foundation Models for Few-Shot Human Activity Recognition, the 40th Annual AAAI Conference on Artificial Intelligence, Singapore (Accept Rate 17.6%), 2026.
- First Author. Manta: Enhancing Mamba for Few-Shot Action Recognition of Long Sub-Sequence, the 39th Annual AAAI Conference on Artificial Intelligence, Philadelphia, USA (Accept Rate 23.4%), 2025.
- 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 (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 (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 (ESI Top 1% Highly Cited), 2022.
- Co-Author. Generalizable Sensor-Based Activity Recognition via Categorical Concept Invariant Learning, the 39th Annual AAAI Conference on Artificial Intelligence, Philadelphia, USA (Accept Rate 23.4%), 2025.
- Co-Author. Deconfounding Causal Inference through Two-Branch Framework with Early-Forking for Sensor-Based Cross-Domain Activity Recognition, the 27th ACM International Joint Conference on Pervasive and Ubiquitous Computing, Espoo, Finland, 2025.
- Co-Author. E2E-MFD: Towards End-to-End Synchronous Multimodal Fusion Detection, the 38th Annual Conference on Neural Information Processing Systems, Vancouver, Canada (Oral, Accept Rate 25.8%), 2024.
- First Author. The Convolutional Neural Networks Training with Channel-Selectivity for Human Activity Recognition Based on Sensors, IEEE Journal of Biomedical and Health Informatics, 2021.
- First Author. Shallow Convolutional Neural Networks for Human Activity Recognition using Wearable Sensors, IEEE Transactions on Instrumentation and Measurement, 2021.

Honor & Award

- **Scholarship:** National Scholarship in 2025 (Southeast University), Freshman Scholarship of Southeast University in 2022, Outstanding Graduate Student of Nanjing Normal University in 2022, National Scholarship in 2021 (Nanjing Normal University), First-class Academic Scholarship of Nanjing Normal University in 2021, Outstanding Postgraduate of Nanjing Normal University in 2021.

Professional Services

- **Conference Reviewer/Program Committee Number:** CVPR 2026, ICCV 2025, ICML 2025, ICLR 2025 2026, NeurIPS 2024 2025, ACM MM 2024~2025 (Outstanding Reviewer for two consecutive years), AAAI 2026, IJCAI 2025 2026, KDD 2025, etc.
- **Journal Reviewer:** IEEE TIP, IEEE TMM, Elsevier PR, 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-driven research:** Strong initiative and passion for deep exploration in areas of interest.
- **English paper proficiency:** Able to read and write academic papers independently, accurately conveying complex ideas.
- **Top conference awareness:** Regularly follow CVPR, ICCV, NeurIPS, ICML, and other leading conferences to stay on top of cutting-edge research.
- **Code analysis & practice:** Built solid programming skills through documentation study and hands-on debugging, before large language models became widespread.
- **Paper-with-code approach:** Combine theory with practice to deepen and broaden research insights.
- **Research collaboration hub:** Act as a central connector in long-term collaborations with scholars in China, Japan, and Australia, driving effective communication and consistent research output.