

Xin Zhou

GRADUATE STUDENT

Buffalo, New York, US

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Education

The State University of New York at Buffalo

PHD IN INDUSTRIAL AND SYSTEMS ENGINEERING

Buffalo, New York, US

Aug. 2024 - present

University of Science and Technology of China

MS IN SOFTWARE ENGINEERING

Heifei, Anhui, China

Sep. 2020 - Jun. 2023

Anhui Jianzhu University

BS IN COMPUTER SCIENCE AND TECHNOLOGY

Heifei, Anhui, China

Sep. 2016 - Jun. 2020

Publications

Human-Computer Interaction

SUPERVISOR: [PROF. CAN WANG](#) & [PROF. XIAOJIANG PENG](#)

- **X. Zhou** and X. Peng, "Multi-scale spatiotemporal representation learning for EEG-based emotion recognition", 2024 ([arXiv preprint arXiv:2404.07589](#)).
- **X. Zhou**, C. Lin, C. wang, and X. Peng, "Efficient sEMG-based Cross-Subject Joint Angle Estimation via Hierarchical Spiking Attentional Feature Decomposition Network", 2024 ([arXiv preprint arXiv:2404.07517](#)).
- **X. Zhou**, C. wang, L. Zhang, J. liu, G. Liang and X. Wu, "Continuous Estimation of Lower Limb Joint Angles from Multi-stream Signals Based on Knowledge Tracing", *IEEE Robotics and Automation Letters*, 2023 (JCR Q2, IF=5.2, [Paper Link](#)).
- **X. Zhou**, J. Ye, C. Wang, J. Zhong and X. Wu, "Time-Frequency Feature Transform Suite for Deep Learning-Based Gesture Recognition Using sEMG Signals", *Robotica*, 2022 (JCR Q3, IF=2.7, [Paper Link](#)).
- J. Liu, **X. Zhou**, B. He, P. Li, C. wang and X. Wu, "A Novel Method for Detecting Misclassifications of the Locomotion Mode in Lower-Limb Exoskeleton Robot Control", *IEEE Robotics and Automation Letters*, 2022 (JCR Q2, IF=5.2, [Paper Link](#)).

Big Data Management and Analytics

SUPERVISOR: [PROF. XIKE XIE](#)

- **X. Zhou**, Z. Zhang, L. Zhang, X. Zhang and X. Xie, "Generative Decoder for Knowledge Tracking based on Sparse Attention", Universal Access in the Information Society (IF=2.4), under review.

Work & Competition Experiences

Shenzhen Technology University

DEPARTMENT: COLLEGE OF BIG DATA AND INTERNET

Shenzhen, China

Nov. 2023 - Jul. 2024

- Research Assistant: Supervised by [Prof. Xiaojiang Peng](#).

Shenzhen Institutes of Advanced Technology, Chinese Academy of Sciences

DEPARTMENT: GUANGDONG PROVINCIAL KEY LAB OF ROBOTICS AND INTELLIGENT SYSTEM

Shenzhen, China

Aug. 2021 - Jun. 2023

- Intern: Supervised by [Prof. Can Wang](#).

Kaggle: Riid Answer Correctness Prediction (Track knowledge states of 1M+ students in the wild)

Kaggle

BRONZE MEDAL, RANKING: 198/3395, TOP 6%

Nov. 2020 - Jan. 2021

- Technologies used: LightGBM, SAKT model and model fusion technology.

Language and Intelligence Technology Competition: Machine Reading Comprehension

Baidu Company

RANKING: 9/1290, TOP 1%

Mar. 2021 - May. 2021

- Technologies used: Pytorch, Lightning Framework, BERT model.

Skills

Programming

Python, Pytorch

English Proficiency

IELTS (Overall Band: 6.5, Listening: 7, Reading: 7, Writing: 6, Speaking: 6)