

Shilei Cao

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Education

Sun Yat-sen University

B.E. in Artificial Intelligence (GPA: 3.8/4.0)

Guangdong, China

Sept 2020 - Present

Research Experience

An Adaptive Training Tool for Critical Paper Reading

Human-computer Interaction Laboratory, Sun Yat-sen University

Research assistant advised by Prof. Zhenhui Peng

Guangdong, China

Sept 2022 - Apr 2023

- **Accepted by UIST 2023 (CCF-A) as the co-first author**
- **Project description:** Develop a tutoring tool for critical paper reading, which facilitates critical thoughts with three-stage training.
- **Main Responsibilities:** Conduct related work research and formative study to identify the design requirements; propose critical questions generated model and implement the backend; perform between-subject user experiments and data analysis

Publications

CONFERENCE PROCEEDINGS

1. CriTrainer: An Adaptive Training Tool for Critical Paper Reading

Kangyu Yuan*, Hehai Lin*, **Shilei Cao***, Zhenhui Peng, Qingyu Guo, and Xiaojuan Ma (***equal contribution**)
ACM Symposium on User Interface Software and Technology (UIST), 2023

PATENTS

1. Yunxiao Shan, Guohao Li, Jundong Zhang, **Shilei Cao**, Xinlong Du, Zijie He, Wei Qiu. **Multi-robot Cooperative Pursuit Method Based on Elliptic Robust Control**. 2023101368382. (2023, in Chinese Patent filing process)
2. Yunxiao Shan, Haotian Bai, Guohao Li, **Shilei Cao**, Xinlong Du, Zijie He, Wei Qiu. **Multi-Robot Obstacle Avoiding Pursuit Method Based on Voronoi Diagrams**. 2023101532796. (2023, in Chinese Patent filing process)

Skills

Programming: Python (Pandas, PyTorch, NumPy, Scikit-learn. etc.), C/C++, Matlab, SQL

AI Algorithm: Machine Learning, Computer Vision, Natural Language Processing, Statistical Analysis and Modeling