Shilei Cao

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Education

Sun Yat-sen University　　　　　　　　　　　　　　　　　　　　　　　*Guangdong, China*
　B.E. in Artificial Intelligence (GPA: 3.8/4.0)　　　　　　　　　　　　　　*Sept. 2020 - Jun. 2024*

Research Experience

High-Performance Geo-Computing Research Group, Tsinghua University　　*Beijing, China*
Visiting student advised by Prof. Haohuan Fu　　　　　　　　　　　　　　*Mar. 2024 - Present*

Human-computer Interaction Lab, Sun Yat-sen University　　　　　　　*Guangdong, China*
Research assistant advised by Prof. Zhenhui Peng　　　　　　　　　　　*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 and System Based on Elliptic Robust Control** (基于椭圆鲁棒性控制的多机器人协同追捕方法及系统). 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 and System Based on Voronoi Diagrams** (一种基于泰森多边形的多机器人追逃避障的方法及系统). 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