Xihuai Wang

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Google Scholar

Research Interests

Xihuai's research interests include *Reinforcement Learning* and *Multi-agent System*. Specifically, he is now focusing on

- Multi-agent Reinforcement Learning in Cooperative Scenarios;

- Large Language Models for Reinforcement Learning.

Education

Shanghai Jiao Tong University   *Sep. 2020 - present*
Doctor of Philosophy in Computer Science and Technology (expected July, 2025)
Advisor: Prof. Weinan Zhang

Sun Yat-sen University   *Sep. 2016 - July. 2020*
Bachelor of Engineering in Computer Science and Technology
Advisor: Prof. Liang Lin

Publications

Order Matters: Agent-by-agent Policy Optimization
Xihuai Wang, Zheng Tian, Ziyu Wan, Ying Wen, Jun Wang, Weinan Zhang
In The Eleventh International Conference on Learning Representations, ICLR 2023.

Model-based Multi-agent Policy Optimization with Adaptive Opponent-wise Rollouts
Zhang Weinan, **Wang Xihuai**, Shen Jian, Zhou Ming.
Proceedings of the Thirtieth International Joint Conference on Artificial Intelligence, IJCAI 2021.

Preprints

Model-based Model-based Multi-agent Reinforcement Learning: Recent Progress and Prospects
Xihuai Wang, Zhicheng Zhang, and Weinan Zhang.
https://arxiv.org/abs/2203.10603.

Research Internships

Shanghai Digital Brain Lab   *Apr. 2022 - May. 2023*
Intern Researcher
Game AI research.
Large Language Models research.

Tencent AI Platform   *July. 2020 - Jan. 2021*
Intern Researcher
Game AI research.

COMPETITIONS

Top 7 in the 2nd Tencent KaiWu Multi-Agent Reinforcement Learning Competition, 2022.

AWARDS & HONORS

Wenjun Wu Honored Ph.D. Class, 2020 - Present.

National Scholarship, 2017 - 2018 Academic Year.

National Scholarship, 2016 - 2017 Academic Year.