Yansong Li

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RESEARCH INTERESTS

Reinforcement Learning; Game Theory; Optimization algorithms; Control and autonomy

EDUCATION

Ph.D. in Electrical and Computer Engineering 06/2025
University of Illinois Chicago, Chicago, IL
Advisor: Shuo Han
Thesis: *TBD*

B.E. in Financial Mathematics 07/2020
Southern University of Science and Technology, Shenzhen, China

PUBLICATIONS

Preprints

[1] Yansong Li, Zeyu Dong, and Shuo Han, "Bayes-Optimal, Robust, and Distributionally Robust Policies for Uncertain MDPs," Oct. 2024. DOI: 10.25417/uic.27138990.v1.

[2] Yansong Li, Zeyu Dong, and Shuo Han, "Removing Redundant Partner Policies May Be Unnecessary for Ad Hoc Teamwork," Oct. 2024. DOI: 10.25417/uic.27139116.v1.

Peer-Reviewed Conference Publications

[1] Zeyu Dong, Yimin Zhu, Yansong Li, Kevin Mahon, and Yu Sun, "Generalizing end-to-end autonomous driving in real-world environments using zero-shot LLMs," in *8th Annual Conference on Robot Learning*, 2024.

[2] Yansong Li and Shuo Han, "Efficient collaboration with unknown agents: Ignoring similar agents without checking similarity," in *Proceedings of the 23rd International Conference on Autonomous Agents and Multiagent Systems, AAMAS 2024, Auckland, New Zealand, May 6-10, 2024*, Mehdi Dastani, Jaime Simão Sichman, Natasha Alechina, and Virginia Dignum, Eds., International Foundation for Autonomous Agents and Multiagent Systems / ACM, 2024, pp. 2363–2365. DOI: 10.5555/3635637.3663161.

[3] Yansong Li and Shuo Han, "Solving strongly convex and smooth stackelberg games without modeling the follower," in *American Control Conference, ACC 2023, San Diego, CA, USA, May 31 - June 2, 2023*, IEEE, 2023, pp. 2332–2337. DOI: 10.23919/ACC55779.2023.10156010.

[4]   Yansong Li and Shuo Han, "Accelerating model-free policy optimization using model-based gradient: A composite optimization perspective," in *Learning for Dynamics and Control Conference, L4DC 2022, 23-24 June 2022, Stanford University, Stanford, CA, USA*, Roya Firoozi, Negar Mehr, Esen Yel, Rika Antonova, Jeannette Bohg, Mac Schwager, and Mykel J. Kochenderfer, Eds., ser. Proceedings of Machine Learning Research, vol. 168, PMLR, 2022, pp. 304–315.

PROFESSIONAL SERVICE

Reviewer

Conferences

International Conference on Learning Representations (ICLR)
IEEE Conference on Decision and Control (CDC)

INVITED TALKS

1. "Bayes-Optimal, Robust, and Distributionally Robust Policies for Uncertain MDPs", RINGS informal seminar, Rutgers University-New Brunswick, 08/2024.

2. "Efficient Collaboration with Unknown Agents: Ignoring Similar Agents without Checking Similarity", Digital Economy Lecture, Beijing Normal University & Hong Kong Baptist University United International College, 10/2023.

3. "Solving Strongly Convex and Smooth Stackelberg Games Without Modeling the Follower", 2023 American Control Conference, San Diego, 06/2023.