Qi Deng

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Education

University of Electronic Science and Technology of China Chengdu, China

Master in Computer Technology. Advised by Prof. Lijun Wu Sep. 2022 – Jun. 2025

Chengdu University of Information Technology Chengdu, China

Bachelor in Software Engineering. Sep. 2018 – Jun. 2022

Research Interests

- Reinforcement Learning: Exploring methods for intelligent agents to learn optimal policies through trial-and-error interactions with the environment, guided by explicit reward mechanisms or implicit human feedback.
- Multimodal Machine Learning: Investigating approaches to integrate and leverage information from different modalities (e.g., vision, text, audio) to enhance the performance and generalization capabilities of AI models.
- Game Theory: Modeling strategic interactions among a large number of rational agents where their behaviors influence each other, and exploring equilibrium solutions in various game settings.
- LLM-based Agents: Employing large language models as the core of agents, enhancing their perception and action capabilities via multimodal inputs and tool utilization, seen as promising steps toward AGI.

Publications

[1] **Qi Deng**, Lijun Wu, Kaile Su, Wei Wu, Zhiyuan Li and Weiwei Duan. "Hierarchical Fusion Framework for Multimodal Dialogue Response Generation," *2024 International Joint Conference on Neural Networks (IJCNN)*, Yokohama, Japan, 2024, pp. 1-8, doi: 10.1109/IJCNN60899.2024.10650044. (Oral Presentation)

[2] **Qi Deng**, Lijun Wu, Zhiyuan Li, Kaile Su, Wei Wu, and Weiwei Duan. "Multi-Agent Neighborhood Coordinated and Holistic Optimized Actor-Critic Framework for Adaptive Traffic Signal Control." *Applied Intelligence*. (Under Review)

[3] Weiwei Duan, Lijun Wu, **Qi Deng**, Zhiyuan Li. "Adaptive Graph Attention Networks with Interactive Learning for Attributed Graph Clustering." *Engineering Applications of Artificial Intelligence*. (Under Review)

Experience

- Serve as teaching assistant for the graduate course "Formal Method". Sep. 2023 - Jan. 2024
- Invited to serve as reviewer for (i) IJCNN 2024 (ii) Engineering Applications of Artificial Intelligence (iii) IJCNN 2025. Feb. 2024 & May. 2024 & Dec. 2024
- During my internship at Chengdu KeHongda Technology Co., Ltd., I contributed to constructing an intelligent target tracking system and was primarily responsible for researching and reproducing the state-of-the-art occluded face recognition algorithms. Mar. 2024 - Jul. 2024

Honors and Awards

Academic Scholarship of Chengdu University of Information Technology 4 times in 2018-2022

Youth Role Model of Chengdu University of Information Technology (top 0.5%) May. 2021

Outstanding Graduate of Chengdu University of Information Technology Dec. 2021

Academic Scholarship of University of Electronic Science and Technology of China 3 times in 2022-Present

The 2^{nd} Prize in CCF CAT National Algorithm Elite Competition Mar. 2024

Outstanding Graduate of University of Electronic Science and Technology of China Nov. 2024

Skills

Proficient in Python and PyTorch on Linux system for AI programming and GPU-accelerated computing.

Languages: Chinese (native), English (fluent, IELTS 6.5)