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 Model for Adaptive Traffic Signal Control." *Expert Systems with Applications*. (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 (i) technical program committee reviewer for WCCI 2024 and (ii) reviewer for Engineering Applications of Artificial Intelligence. Feb. 2024 & May. 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 Graduates 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 Graduates of University of Electronic Science and Technology of China Nov. 2024

Skills

Programming: Python, Java, C

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