

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 (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 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)