

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)