Xinyi Zhuang (庄新一)

Second-Year Direct-Track Ph.D. Student
School of Information Science and Technology
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RESEARCH INTERESTS

Networks for Artificial Intelligent:

- Distributed Training and Inference of Large AI Models
- Mobile Edge Computing and Edge intelligence

Artificial Intelligent for Networking:

- Generative Artificial Intelligence and Network Optimization
- Multi-Agent Reinforcement Learning and Its Applications

EDUCATION

Northwestern Polytechnical University (NWPU), Xi'an, Shaanxi, China — Aug. 2019 | Jul. 2023
Bachelor of Engineering in Communication Engineering, Outstanding Graduate — Cumulative GPA: 3.8/4.1
Thesis Title (Outstanding Graduation Thesis): Task Offloading Strategy in Internet of Vehicles Based on Multi-Agent Reinforcement Learning

Harbin Institute of Technology, Shenzhen (HITsz), Shenzhen, Guangdong, China — Aug. 2023 | Now
Doctor of Philosophy in Information and Communication Engineering (Expected) — Cumulative GPA: 3.4/4.0

SELECTED FIRST-AUTHOR PAPERS

[1] **Xinyi Zhuang**, J. Wu, H. Wu, T. Zhang, and L. Gao, "Joint optimization of model inferencing and task offloading for MEC-empowered large vision model services," in *Proc. IEEE Int. Conf. Comput. Commun. (INFOCOM)*, London, United Kingdom, May 2025, pp. 1-10. (**CCF A**)

[2] **Xinyi Zhuang**, J. Wu, H. Wu, M. Tang, and L. Gao, "QoS-driven hybrid inference scheme for generative diffusion models in MEC-enabled AI-generated content networks," in *Proc. IEEE Int. Conf. Commun. (ICC)*, Accepted, 2025. (CCF C)

FULL PUBLICATIONS

Journal Papers:

Summary: 1 out of 1 journal papers are published in CCF A journals, 1 out of 1 journal papers are published in SCI Q1 journals, and 1 out of 1 journal papers are published in JCR Q1 journals.

[1] **Xinyi Zhuang**, Jiaqi Wu, Yuan Luo, Ming Tang, Lin Gao, Qinyu Zhang, Huaizhe Liu, and Hongjia Wu, "A novel hybrid inference scheme for diffusion-based AIGC services," *IEEE J. Sel. Areas Commun. (JSAC)*, Under Revision. (**CCF A**, **SCI Q1**, **JCR Q1**)

[2] J. Wu, **Xinyi Zhuang**, M. Tang, and L. Gao, "QoE-aware offloading and resource allocation for MEC-empowered AIGC services," *IEEE Trans. Mobile Comput. (TMC)*, Early Access, 2025. (**CCF A**, **SCI Q1**, **JCR Q1**)

Conference Papers:

Summary: 1 out of 3 conference papers are published in CCF A conference proceedings, and 2 out of 3 conference papers are published in CCF A/B/C conference proceedings.

[1] X. Guo, C. Zhang, X. Chen, D. Zhao, **Xinyi Zhuang***, J. Wu, H. Liu, and L. Gao, "Joint optimization of offloading, scheduling, and inferencing for MEC-empowered AIGC services," in *Proc. IEEE Global Commun. Conf.*, Under Revision. (*Corresponding Author) (CCF C)

[2] **Xinyi Zhuang**, J. Wu, H. Wu, M. Tang, and L. Gao, "QoS-driven hybrid inference scheme for generative diffusion models in MEC-enabled AI-generated content networks," in *Proc. IEEE Int. Conf. Commun. (ICC)*, Accepted, 2025. (CCF C)

[3] **Xinyi Zhuang**, J. Wu, H. Wu, T. Zhang, and L. Gao, "Joint optimization of model inferencing and task offloading for MEC-empowered large vision model services," in *Proc. IEEE Int. Conf. Comput. Commun. (INFOCOM)*, London, United Kingdom, May 2025, pp. 1-10. (**CCF A**)

[4] H. Liu, J. Wu, **Xinyi Zhuang**, H. Wu, and L. Gao, "Joint communication and computation scheduling for MEC-enabled AIGC services based on generative diffusion model," in *Int. Symp. Model. Optim. Mobile, Ad Hoc, Wireless Netw. (WiOpt)*, Seoul, Republic of Korea, Oct. 2024, pp. 345-352.

AWARDS

Outstanding Graduation Thesis Northwestern Polytechnical University, 2023
Outstanding Graduate Northwestern Polytechnical University, 2023
Soaring Scholarship Beijing International Trust Co., Ltd., 2022

TALKS

- Multi-Task Hybrid Inference Optimization for Large Vision Models (with my mentor Prof. Lin Gao), International Conference on Intelligent Networks and Communication Systems.

ENGLISH

IELTS (Academic): 6.5 (overall score) Test Date: May 2022
CET-4: 581 (overall score) Test Date: Dec. 2019