

Jianing Chen

PHD CANDIDATE

City University of Hong Kong & Harbin Institute of Technology

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Education

City University of Hong Kong (QS 63, ranked 5 in Hong Kong)

Hong Kong

PH.D. IN SYSTEMS ENGINEERING

2023.09 - present

- Advisor: Prof. Chuangyin Dang
- Dissertation: Distributed equilibrium seeking algorithms for noncooperative games in complex environments

Harbin Institute of Technology (QS 256, ranked 11 in China)

China

PH.D. IN APPLIED MATHEMATICS

2021.09 - present

- Advisor: Prof. Sitian Qin

Harbin Institute of Technology

China

B.SC. IN APPLIED MATHEMATICS

2017.09 - 2021.06

- Relevant Coursework: Game Theory, Optimization, Functional Analysis.

Research Interests

Network games; Distributed optimization; Economic and computation

Professional Experience

2025 **Research Assistant**, City University of Hong Kong

Publications

JOURNAL ARTICLES

- Jianing Chen**, Yuxuan Li, Yuhan Xue, Sitian Qin*, Event-triggered adaptive Nash equilibrium seeking algorithm over unbalanced digraph, IEEE Transactions on Automatic control, 70(8): 5507-5514, 2025.
- Jianing Chen**, Sichen Qian, Chuangyin Dang, Sitian Qin*, Fully-distributed neural-network-based approaches for monotonic game with finite-time disturbance rejection, IEEE Transactions on Cybernetics, 56(1): 42-53, 2026.
- Jianing Chen**, Yihua Yang, Sitian Qin*, A distributed optimization algorithm for fixed-time flocking of second-order multiagent systems, IEEE Transactions on Network Science and Engineering, 11(1): 152-162, 2023.
- Jianing Chen**, Sichen Qian, Sitian Qin*, An adaptive generalized Nash equilibrium seeking algorithm under high-dimensional input dead-zone, Information Sciences, 626: 354-369, 2023.
- Jianing Chen**, Shuangyu Liu, Sitian Qin*, Disturbed Euler-Lagrange-based neurodynamic approach for nonsmooth noncooperative game with communication delay, Neural Networks, 195: 108225, 2026.
- Jianing Chen**, Zhijie Chen, Sitian Qin, Xinrui Jiang*, Predefined-time event-triggered generalized Nash equilibrium seeking for aggregative games and its application to smart charging system, ISA Transactions, 167: 1147-1156, 2025.
- Mengxin Wang, **Jianing Chen**, Changyun Wen, Sitian Qin*, Adaptive generalized Nash equilibrium seeking algorithm for nonsmooth aggregative game under dynamic event-triggered mechanism, Automatica (Regular Paper), 169: 111835, 2024.

Ying Gao, **Jianing Chen**, Yue Fang, Chuangyin Dang, Qin Su*, A game-theoretic model for enterprises cloud computational resource allocation based on predefined-time distributed algorithm, IISE Transactions, 2025.

SUBMITTED AND WORKING PAPERS

- Jianing Chen**, Sichen Qian, Chuangyin Dang, Sitian Qin*, Continuous-time distributed seeking for generalized Nash equilibrium of online game, IEEE Transactions on Automatic control (Regular Paper), Major revision.
- Jianing Chen**, Chuangyin Dang, Ying Gao*, An adaptive collaborative neurodynamic approach to compute Nash equilibrium in normal-form games, IEEE Transactions on Automatic control (Regular Paper), Major revision.

Jianing Chen, Sitian Qin, Chuangyin Dang*, Robust Nash equilibrium seeking based on semi-Markov switching topologies, IEEE Transactions on Automatic control, Major revision.

Awards, Fellowships, & Grants

2025	Youth Talent Support Engineering Doctoral Program , CAST	¥40,000
	National Scholarship for Doctoral Students , Ministry of Education of China	¥30,000
2021	First Class Postgraduate Studentship , Harbin Institute of Technology	¥30,000

Conferences

August 2024. *Predefined-time generalized Nash equilibrium seeking for aggregative games with event-triggered communication*. The 7th World Congress of the Game Theory Society.

May 2023. *An adaptive generalized Nash equilibrium seeking algorithm under high-dimensional input dead-zone*. The 7th Conference on Systems Science of China.

Teaching Experience

Fall 2022	Algebraic Geometry , Teaching Assistant	HIT
Fall 2021	Linear Algebra , Teaching Assistant	HIT

Mentoring

2021-2022	Sichen Qian , Undergraduate, now PhD student at Southeast University	China
2022-2023	Shuangyu Liu , Undergraduate, now graduate student at Dalian University of Technology	China
2023-2024	Yuxuan Li , Undergraduate, Harbin Institute of Technology	China

Outreach & Professional Development

PEER REVIEW

IEEE Transactions on Automatic Control, Automatica, IEEE Transactions on Cybernetics, Neural Networks, Nonlinear Dynamics, International Journal of Systems Science, The Journal of Supercomputing

PROFESSIONAL MEMBERSHIPS

Member of the Game Theory Society

References

Prof. Chuangyin Dang

HEAD AND PROFESSOR, DEPARTMENT OF SYSTEMS ENGINEERING

- Email: mecdang@cityu.edu.hk
- Homepage: <https://www.cityu.edu.hk/stfprofile/CYDang.htm>

City University of Hong Kong
Relationship: PhD Supervisor

Prof. Sitian Qin

HEAD AND PROFESSOR, SCHOOL OF SCIENCE

- Email: qinsitian@hitwh.edu.cn
- Homepage: <https://homepage.hit.edu.cn/qin?lang=zh>

Harbin Institute of Technology
Relationship: PhD Supervisor

Prof. Yuhu Wu

HEAD AND PROFESSOR, SCHOOL OF CONTROL SCIENCE AND ENGINEERING

- Email: wuyuhu@dlut.edu.cn
- Homepage: <https://faculty.dlut.edu.cn/wuyuhu/en/index.htm>

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