Zhiming Huang

EDUCATION

University of Victoria, BC, Canada

- Ph.D. in Computer Science
- Advisor: Dr. Jianping Pan — Since Sep 2020
- M.Sc. in Computer Science — Sep 2018 – Aug 2020
- Advisor: Dr. Jianping Pan

Northwestern Polytechnical University, Shaanxi, China

- B.Eng. in Communication Engineering — Sep 2014 – Jun 2018

RESEARCH INTERESTS

- **Wireless Communications and Computer Networks**
  Hetnet selection, wireless caching, routing and end-to-end congestion control.
- **Learning and Optimization**
  Game-theoretic online learning, multi-armed bandit problems.

PUBLICATIONS

JOURNAL PUBLICATIONS

[1] TSOR: Thompson Sampling-based Opportunistic Routing
Z. Huang, Y. Xu, J. Pan
IEEE Transactions on Wireless Communications (TWC), May 2021.

[2] Caching by User Preference with Delayed Feedback for Heterogeneous Cellular Networks
Z. Huang, B. Hu, J. Pan
IEEE Transactions on Wireless Communications (TWC), vol. 20, no. 3, pp. 1655-1667, Mar 2021.

[3] EQRC: A Secure QR Code-based E-coupon Framework Supporting Online and Offline Transactions
R. Liu, J. Song, **Z. Huang**, J. Pan
Journal of Computer Security (JCS), vol. 28, no. 5, pp. 577-605, Sep 2020.

[4] A Framework of Multipath Clustering based on Space Transformed Fuzzy c-Means and Data Fusion for Radio Channel Modeling
Z. Huang, R. Zhang, J. Pan, Y. Jiang, and D. Zhai
IEEE Transactions on Vehicular Technology (TVT), vol. 69, no. 1, pp 4-15, Jan 2020.

[5] Uncertainty Measurement with Belief Entropy on Interference Effect in Quantum-Like Bayesian Networks
Z. Huang, L. Yang, and W. Jiang
Applied Mathematics and Computation (AMC), vol. 347, pp. 417-428, Nov 2018.

[6] A New Method to Evaluate Risk in Failure Mode and Effects Analysis under Fuzzy Information
Z. Huang, W. Jiang, and Y. Tang
Soft Computing (SOCO), vol. 22, no. 14, pp. 4779-4787, Jul 2017.

CONFERENCE PUBLICATIONS

[1] A Near-optimal High-probability Swap-Regret Upper Bound for Multi-agent Bandits in Unknown General-sum Games
Z. Huang, and J. Pan
In Proc. Uncertainty of Artificial Intelligence (UAI), Aug 2023.

[2] End-to-end Congestion Control as Learning for Unknown Games
Z. Huang, K. Liu and J. Pan
In Proc. IEEE International Conference on Distributed Computing Systems (ICDCS), Jul 2023.

[3] Poster: Multi-agent Combinatorial Bandits with Moving Arms (Best Poster Award)
Z. Huang, B. Hu, and J. Pan
In Proc. IEEE International Conference on Distributed Computing Systems (ICDCS), Jul 2021.

[4] Intelligent Caching Algorithms in Heterogeneous Wireless Networks with Uncertainty
B. Hu, Y. Chen, **Z. Huang**, N. Mehta, and J. Pan
In Proc. IEEE International Conference on Distributed Computing Systems (ICDCS), Jul 2019.

[5] Distributed Learning of Unknown Games for HetNet Selection
Z. Huang, and J. Pan
In Preparation, Jul 2022

TEACHING EXPERIENCE	▪ **TA Leader, Lab and Tutorial Instructor for CSC361**	Sep 2022 – Apr 2023
	▪ **Lab Instructor for CSC503**	May 2022 – Aug 2022
	▪ **Tutorial Instructor for CSC361**	Sep 2021 – Aug 2022
	▪ **Tutorial Instructor for CSC361**	Sep 2021 – Apr 2022
	▪ **Assistant in CSC361 Lab Redesign and Development**	Jul 2020 – Aug 2020
	▪ **Teaching Assistant in CSC361: Computer Communications and Networks**	Sep 2019 – May 2020
	▪ **Consultant in UVic Computer Science Assistance Centre**	Jan 2019 – Aug 2019

PROFESSIONAL ACTIVITIES	**IEEE VICTORIA SECTION WEBMASTER**	
	▪ Maintain the official website for IEEE Victoria section.	May 2023
	IEEE DAY REGION 7 AMBASSADOR	
	▪ Organize the IEEE Day activities for IEEE Canada region.	Oct 2021

AWARDS & SCHOLARSHIPS	▪ **Melva J. Hanson Graduate Scholarship**	Dec 2022
	For outstanding academic performance during graduate study.	
	▪ **M.A. & D.E. Breckenridge Graduate Awards**	Dec 2022
	For outstanding academic performance during graduate study.	
	▪ **UVic Department Graduate Award**	Jul 2022
	For outstanding academic performance during graduate study.	
	▪ **IEEE ICDCS 2021 Best Poster Award**	May 2021
	For the distinguished poster work and presentation at IEEE ICDCS 2021.	
	▪ **IEEE ICDCS 2021 Student Registration Award**	May 2021
	For graduate students to participate in ICDCS 2021.	
	▪ **John and Myrtle Tilley Graduate Scholarship**	Dec 2020
	For outstanding academic performance during graduate study.	
	▪ **Robert W. Ford Graduate Scholarship**	Dec 2020
	For outstanding academic performance during graduate study.	
	▪ **Howard E. Petch Research Scholarship**	Dec 2020
	For the outstanding research performance during graduate study.	
	▪ **UVic Graduate Fellowship**	Sep 2020
	For outstanding academic performance during graduate study.	
	▪ **IEEE Pacific Rim Wu-Sheng Lu Graduate Scholarship**	Nov 2019
	For excellent academic performance.	
	▪ **ICDCS 2019 Travel Grant Award**	Jun 2019
	For graduate students and post-doctoral researchers to participate in ICDCS 2019.	
	▪ **UVic Department Graduate Award**	Jun 2019
	For outstanding academic performance during graduate study.	
	▪ **Mitacs Graduate Fellowship**	Sep 2018
	For former Globalink research interns who return to Canada for research-based graduate studies at eligible Mitacs academic partners.	
	▪ **The Best Final Thesis Award**	Jun 2018
	For the outstanding final thesis, top 5% undergraduate awardees in the university.	
	▪ **The Excellent Graduate Award**	Jun 2018
	For outstanding academic performance during undergraduate study, top 5% in the university.	
	▪ **Scholarship of Ministry of Industry and Information Technology of China**	Oct 2017
	For outstanding performance in academic research, top 0.01% in the university.	
	▪ **Scholarship of China Scholarship Council**	Jun 2017
	Full-tuition scholarship with a stipend for an undergraduate research internship at UVic, one of 4 undergraduate awardees in the university.	
	▪ **Scholarship of Ministry of Industry and Information Technology of China**	Oct 2016
	For outstanding performance in academic research, top 0.01% in the university.	