

Zhiming Huang

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EDUCATION

University of Victoria, BC, Canada

- Ph.D. in Computer Science, GPA: 9/9 Sep 2020 – Aug 2023 (Expected)
- M.Sc. in Computer Science, GPA: 8.75/9 Sep 2018 – Aug 2020
- Advisor: Dr. Jianping Pan

Northwestern Polytechnical University, Shaanxi, China

- B.Eng. in Communication Engineering, GPA: 87.16/100, Rank: 3/72 Sep 2014 – Jun 2018

RESEARCH INTERESTS

▪ Wireless Communications and Mobile Networks

Machine learning & stochastic analysis in radio channel modeling, wireless caching systems, ad hoc networks, and crowdsourcing.

▪ Statistical Learning and Optimization

Decision-theoretic online learning, multi-armed bandit problems, online decision making and control.

PUBLICATIONS

JOURNAL PUBLICATIONS

- [1] Caching by User Preference with Delayed Feedback for Heterogeneous Cellular Networks
Z. Huang, B. Hu, J. Pan
IEEE Transactions on Wireless Communications (TWC), Nov 2020.
- [2] 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), Volume 69, Pages 4-15, Jan 2020.
- [3] 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), Volume 347, Pages 417-428, Nov 2018.
- [4] 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), Volume 22, Issue 14, Pages 4779-4787, Jul 2017.
- [5] EQRC: A Secure QR Code-based E-coupon Framework Supporting Online and Offline transactions, Rui Liu, Jun Song, **Z. Huang**, Jianping Pan
Journal of Computer Security (JCS), Volume 28, No. 5, Pages 577-605, Sep 2020.

CONFERENCE PUBLICATIONS

- [1] Intelligent Caching Algorithms in Heterogeneous Wireless Networks with Uncertainty
B. Hu, Y. Chen, **Z. Huang**, N. Mehta, J. Pan
In Proc. the 39th IEEE International Conference on Distributed Computing Systems (ICDCS), Jul 2019.
- [2] EQRC: An Enhanced QR Code-based Secure E-coupon Transaction Framework
R. Liu, J. Song, **Z. Huang**, J. Pan
In Proc. the 53rd IEEE International Conference on Communication (ICC), May 2019.

IN PROGRESS

- [1] **Z. Huang**, Y. Xu, J. Pan, TSOR: Thompson Sampling-based Opportunistic Routing
Major Revision to IEEE Transactions on Wireless Computing (TWC).
- [2] **Z. Huang**, Y. Xu, B. Hu, Q. Wang, J. Pan, FairTS: Thompson Sampling for Combinatorial Semi-bandits with Sleeping Arms and Fairness Guarantees
Submitted to IEEE Transactions on Network Science and Engineering (TNSE).
- [3] **Z. Huang**, B. Hu, J. Pan, Multi-agent bandits with Moving Arms
submitted to ICDCS 2021 Poster.

AWARDS & SCHOLARSHIPS

- John and Myrtle Tilley Graduate Scholarship \$981 Dec 2020

	For the outstanding academic performance during graduate study.	
	▪ Robert W. Ford Graduate Scholarship \$2,019	Dec 2020
	For the outstanding academic performance during graduate study.	
	▪ Howard E. Petch Research Scholarship \$5,000	Dec 2020
	For the outstanding research performance during graduate study.	
	▪ UVic Graduate Fellowship \$15,000	Sep 2020
	For the outstanding academic performance during graduate study.	
	▪ UVic Graduate Award \$613	Aug 2020
	For the outstanding academic performance during graduate study.	
	▪ IEEE Pacific Rim Wu-Sheng Lu Graduate Scholarship \$1,650	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 Graduate Award \$4,000	Jun 2019
	For the outstanding academic performance during graduate study.	
	▪ Mitacs Graduate Fellowship \$15,000	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 the outstanding academic performance during undergraduate study, top 5% in the university.	
	▪ Scholarship of Ministry of Industry and Information Technology of China \$4,000	Oct 2017
	For the outstanding performance in academic research, top 0.01% in the university.	
	▪ Scholarship of China Scholarship Council \$4,500	Jun 2017
	Full-tuition scholarship with stipend for undergraduate research internship at UVic, one of 4 undergraduate awardees in the university.	
	▪ Scholarship of Ministry of Industry and Information Technology of China \$4,000	Oct 2016
	For the outstanding performance in academic research, top 0.01% in the university.	
PRESENTATIONS AND TALKS	▪ On Fast Intra Size Decision and Mode Decision Algorithm	Sep 2019
	IEEE Pacific Rim Conference on Communications, Computers and Signal Processing (PACRIM).	
	▪ On Clustering Multi-path Components with Self-organizing Map	Sep 2018
	Northwestern Polytechnical University, Xian, China.	
	▪ On Clustering Multi-path Components in Radio Channels	Sep 2017
	University of Victoria, BC, Canada.	
PROFESSIONAL ACTIVITIES	PAPER REVIEWER	
	▪ IEEE VTC-FALL 2020	
	▪ IEEE INFOCOM 2019	
	VOLUNTEER	
	▪ IEEE PACRIM 2019	
	▪ IEEE PACRIM 2017	
	MEMBERSHIP	
	▪ ACM Student Member	Sep 2019 – Now
	▪ IEEE Student Member	Apr 2019 – Now
TEACHING EXPERIENCE	▪ Teaching Assistant in CSC361: Computer Communications and Networks	Sep 2020 – May 2021
	▪ 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