Zhiming Huang

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EDUCATION

University of Victoria, BC, Canada

- Ph.D. in Computer Science   Sep 2020 – Aug 2023 (Expected)
- 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 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] 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.

[2] 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.

[3] 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.

[4] 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), Pre-press, Pages 1-29, Jul 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,
Submitted to IEEE Transactions on Mobile Computing (TMC).

[2] **Z. Huang**, Y. Xu, B. Hu, Q. Wang, J. Pan, Thompson Sampling for Combinatorial Semi-bandits with Sleeping Arms and Long-Term Fairness Constraints,
arXiv preprint arXiv:2005.06725.

[3] **Z. Huang**, B. Hu, J. Pan, Caching by User Preference with Delayed Feedback for Heterogeneous Cellular Networks,
Major revisions to IEEE Transactions on Wireless Communications (TWC).

[4] **Z. Huang**, J. Pan, on Multi-agent Bandits,
In progress.

AWARDS & SCHOLARSHIPS

- **UVic Graduate Award**,   Aug 2020

For the 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 Graduate Award**,   Jun 2019

  For the 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 the outstanding academic performance during undergraduate study, top 5% in the university.

- **Scholarship of Ministry of Industry and Information Technology of China**,   Oct 2017

  For the outstanding performance in academic research, top 0.01% in the university.

- **Scholarship of China Scholarship Council**,   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**,   Oct 2016

  For the outstanding performance in academic research, top 0.01% in the university.

PROFESSIONAL ACTIVITIES

PAPER REVIEWER

- IEEE VTC-Fall 2020

MEMBERSHIP

- ACM Student Member   Sep 2019 – Now
- IEEE Student Member   Apr 2019 – Now

TEACHING EXPERIENCE

- **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