

Zhiming Huang

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EDUCATION

University of Victoria, BC, Canada

Sep 2018 – Apr 2020

- M.S. in Computer Science, GPA: 8.75 / 9.
- Advisor: Dr. Jianping Pan
- Core Courses: Analysis of Algorithms (A+), Machine Learning Theory (A+), Advanced Optimization (A+), Operation Research (A).

Northwestern Polytechnical University, Shaanxi, China

Sep 2014 – Jun 2018

- B.Eng. in Communication Engineering, GPA: 87.39 / 100, Rank: 3/72.
- Core Courses: Information Theory (92), Principles of Communication (93), Computer Network (89), Probability and Statistics (93), Linear Algebra (95), Calculus (94).

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.

▪ **Statistical Inference and Decision Making**

Bayesian networks, quantum probability theory, and information fusion techniques.

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
To appear on *IEEE Transactions on Vehicular Technology (TVT)*, Oct 2019.
- [2] Uncertainty Measurement with Belief Entropy on Interference Effect in Quantum-Like Bayesian Networks (*Citations: 20, ESI Highly Cited Paper*)
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 (*Citations: 7*)
Z. Huang, W. Jiang, and Y. Tang
Soft Computing (SOCO), Volume 22, Issue 14, Pages 4779-4787, Jul 2017.

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 ACM MOBIHOC 2020, Dec 2019
- [1] **Z. Huang**, Y. Xu, B. Hu, Q. Wang, J. Pan, on combinatorial multi-arm bandits and Thompson sampling algorithms
Submitted to an ACM conference for a double-blind review, Oct 2019
- [2] **Z. Huang**, B. Hu, J. Pan, on caching problems with delayed feedback
In Progress

RESEARCH PROJECTS

- **Sequential Learning for Opportunistic Routing**
Advisor: Dr. Jianping Pan Sep 2018 – Oct 2019
- **Sequential Learning in Wireless Caching Systems**
Advisor: Dr. Jianping Pan Sep 2018 – Oct 2019
- **Automatic Clustering in Radio Channel Modeling**
Advisors: Dr. Ruonan Zhang and Dr. Jianping Pan Sep 2017 – Jun 2018
- **Long-range Wireless Communication System**
Advisors: Dr. Ruonan Zhang and Dr. Bin Li Sep 2016 – Jun 2018
- **The Quantum Probability Theory in Bayesian Networks**
Advisors: Dr. Wen Jiang and Dr. Yong Deng Sep 2016 – Jun 2017
- **The Application of Information Fusion Techniques in Fault Diagnosis and Decision Making**
Advisors: Dr. Wen Jiang and Dr. Yong Deng Sep 2015 – Jun 2016

AWARDS & SCHOLARSHIPS

- **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 INFOCOM

MEMBERSHIP

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

TEACHING EXPERIENCE

- **Teaching Assistant in CSC361: Computer Communications and Networks,** Sep 2019 – Dec 2019
- **Consultant in UVic Computer Science Assistance Centre.** Jan 2019 – Aug 2019

REFERENCES

- **Dr. Jianping Pan**
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- **Dr. Ruonan Zhang**
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[CV compiled on 2019-12-19]