Zhiming Huang

Email: zhiminghuang@uvic.ca • Personal Page: http://zhiminghuang.me/

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 a conference for double-blind review.
- [2] **Z. Huang**, B. Hu, J. Pan, on caching problems with delayed feedback *To be submitted*.

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,

For the outstanding academic performance during graduate study.

Mitacs Graduate Fellowship,

Sep 2018

Jun 2019

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

Professor of Computer Science University of Victoria, BC, Canada pan@uvic.ca

■ Dr. Ruonan Zhang

Professor of Electronics and Information Northwestern Polytechnical University, Shaanxi, China rzhang@nwpu.edu.cn

■ Dr. Wen Jiang

Professor of Electronics and Information

Northwestern Polytechnical University, Shaanxi, China

jiangwen@nwpu.edu.cn