

## Chuan Wu (Curriculum Vitae)

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PRESENT APPOINTMENT	Professor Department of Computer Science The University of Hong Kong Pokfulam Road Hong Kong	Assistant Dean of Faculty of Engineering (Research) Office: CB 427 Phone: (852) 2857 8459 Email: cwu@cs.hku.hk Web: <a href="http://www.cs.hku.hk/~cwu">http://www.cs.hku.hk/~cwu</a>
CURRENT RESEARCH INTERESTS	Modeling, optimization, design and implementation of cloud computing systems, big data analytics/distributed machine learning systems, smart elderly/health care technologies.	
ACADEMIC QUALIFICATION	<ul style="list-style-type: none"> <li>◇ <b>B.Eng.</b>, Computer Science and Technology, <b>Tsinghua University</b>, Beijing, China, September 1996 — July 2000</li> <li>◇ <b>M.Eng.</b>, Computer Science and Technology, <b>Tsinghua University</b>, Beijing, China, September 2000 — July 2002</li> <li>◇ <b>Ph.D.</b>, Electrical and Computer Engineering, <b>University of Toronto</b>, Toronto, Ontario, Canada, September 2004 — July 2008</li> </ul>	
PROFESSIONAL MEMBERSHIP	<ul style="list-style-type: none"> <li>◇ Senior Member, the Institute of Electrical and Electronic Engineers (IEEE) and IEEE Communications Society (ComSoc)</li> <li>◇ Member, the Association for Computing Machinery (ACM)</li> </ul>	
HONORS AND AWARDS	<ul style="list-style-type: none"> <li>◇ Amazon Research Award (ARA) on AWS AI, 2021.</li> <li>◇ IEEE Transactions on Cloud Computing (TCC) Editorial Excellence and Eminence Award: 2019, 2020.</li> <li>◇ MSRA Collaborative Research Award, 2018.</li> <li>◇ Selected as one of the 10 female associate professors in HKU to participate in HKU-10 Mentorship Programme (inaugural cohort), 2017-2018.</li> <li>◇ Best Paper Award in the Seventh ACM International Conference on Future Energy Systems (ACM e-Energy), 2016.</li> <li>◇ Distinguished Member of TPC, IEEE INFOCOM 2015, 2016, 2019, 2020.</li> <li>◇ Prolific Reviewer of IEEE Transactions on Parallel and Distributed Systems, 2012.</li> <li>◇ Best Paper Award in the 4th International Workshop on Hot Topics in Peer-to-Peer Computing and Online Social Networking (HotPOST'12), in conjunction with IEEE ICDCS 2012.</li> <li>◇ IEEE Outstanding Leadership Award, 2011.</li> <li>◇ Amazon Web Service (AWS) in Education Research Grant Award, 2011.</li> <li>◇ University of Toronto Fellowship, 2004 — 2008.</li> <li>◇ Outstanding Master Thesis, Tsinghua University, 2002.</li> <li>◇ Tsinghua University Excellent Graduate Scholarship, 2001.</li> <li>◇ Outstanding Graduate, Tsinghua University, 2000.</li> <li>◇ Tsinghua University Social Work Scholarship for Excellence in Social Work, 1999.</li> <li>◇ Tsinghua-Legend Scholarship for Outstanding Undergraduate Students, 1999.</li> <li>◇ Tsinghua University First-Class Scholarship (awarded to the top 5% undergraduate students), 1998.</li> <li>◇ Tsinghua University Excellent Undergraduate Student Scholarship, 1997.</li> <li>◇ Tsinghua-Haolaixi Scholarship for Outstanding Undergraduate Students, 1996.</li> </ul>	
PUBLICATIONS	◇ <b>Book Chapters:</b>	

[B1] Linqun Zhang, **Chuan Wu**, Zongpeng Li, Chuanxiong Guo, Minghua Chen, Francis C.M. Lau. "Moving Big Data to the Cloud: Online Cost-Minimizing Algorithms", pp. 75-102 in *Networking for Big Data*, Chapman & Hall/CRC, August 3, 2015.

[B2] Yixin Bao, **Chuan Wu**. "Geo-Distributed Big Data Analytics Systems: An Online Learning Approach for Dynamic Deployment", pp. 161-190 in *Smart Data: State-of-the-Art Perspectives in Computing and Applications*, Chapman & Hall/ CRC Big Data Series, March 13, 2019.

◇ **Journal Publications:**

[J1] **Chuan Wu**, Yufei Ma, Yuwen He, Yuzhuo Zhong, Hongjiang Zhang. "Event Recognition by Semantic Inference in Sports Videos", in *Elsevier Journal of Tsinghua Science and Technology*, Vol. 43, No. 4, pp. 507-510, April 2003.

[J2] **Chuan Wu**, Baochun Li. "Diverse: Application-Layer Service Differentiation in Peer-to-Peer Communications," in *IEEE Journal on Selected Areas in Communications, Special Issue on Peer-to-Peer Communications and Applications*, Vol. 25, No. 1, pp. 222-234, January 2007.

[J3] **Chuan Wu**, Baochun Li, Shuqiao Zhao. "Characterizing Peer-to-Peer Streaming Flows," in *IEEE Journal on Selected Areas in Communications, Special Issue on Advances in Peer-to-Peer Streaming Systems*, Vol. 25, No. 9, pp. 1612-1626, December 2007.

[J4] **Chuan Wu**, Baochun Li. "rStream: Resilient and Optimal Peer-to-Peer Streaming with Rateless Codes," in *IEEE Transactions on Parallel and Distributed Systems*, Vol. 19, No. 1, pp. 77-92, January 2008.

[J5] **Chuan Wu**, Baochun Li, Zongpeng Li. "Dynamic Bandwidth Auctions in Multioverlay P2P Streaming with Network Coding," in *IEEE Transactions on Parallel and Distributed Systems*, Vol. 19, No. 6, pp. 806-820, June 2008.

[J6] **Chuan Wu**, Baochun Li, Shuqiao Zhao. "Exploring Large-Scale Peer-to-Peer Live Streaming Topologies," in *ACM Transactions on Multimedia Computing, Communications and Applications*, Vol. 4, Issue 3, No. 19, August 2008.

[J7] Xuanjia Qiu, Wei Huang, **Chuan Wu**, Francis C.M. Lau, Xiaola Lin. "InstantLeap: an Architecture for Fast Neighbor Discovery in Large-scale P2P VoD Streaming," in *Springer Multimedia Systems Journal*, vol. 16, No. 3, pp. 183-198, Springer-Verlag, June 2010.

[J8] **Chuan Wu**, Baochun Li, Shuqiao Zhao. "On Dynamic Server Provisioning in Multichannel P2P Live Streaming," in *IEEE/ACM Transactions on Networking*, vol. 19, No. 5, pp. 1317-1330, October 2011.

[J9] Zhi Wang, **Chuan Wu**, Lifeng Sun, Shiqiang Yang, "Strategies of Collaboration in Multi-Swarm Peer-to-Peer Content Distribution," in *Elsevier Journal of Tsinghua Science and Technology*, Vol. 17, No. 1, pp. 29-39, February 2012.

[J10] **Chuan Wu**, Baochun Li, Shuqiao Zhao. "Diagnosing Network-wide P2P Live Streaming Inefficiencies," in *ACM Transactions on Multimedia Computing, Communications and Applications*, Vol. 8s, Issue 1, No. 13, February 2012.

[J11] **Chuan Wu**, Zongpeng Li, Xuanjia Qiu, Francis C.M. Lau, "Auction-based P2P VoD Streaming: Incentives and Optimal Scheduling," in *ACM Transactions on Multimedia Computing, Communications and Applications*, Vol. 8s, Issue 1, No. 14, February 2012.

[J12] Jian Zhao, **Chuan Wu**. "Characterizing Locality-aware P2P Streaming," in *Journal of Communications*, Vol. 7, No. 3, pp. 222-231, March 2012.

[J13] Xingwei Wang, Jiajia Sun, Hongxing Li, **Chuan Wu**, Min Huang. "A Reverse Auction Based Allocation Mechanism in the Cloud Computing Environment", in *Applied Mathematics & Information Sciences*, vol. 7, pp. 75-84, February 2013.

[J14] Zhi Wang, **Chuan Wu**, Lifeng Sun, Shiqiang Yang. "Peer-Assisted Social Media Streaming With Social Reciprocity," in *IEEE Transactions on Network and Service Management*, vol. 10, No. 1, pp. 84-94, March 2013.

[J15] Zhizhong Zhang, **Chuan Wu**, David W.L. Cheung. "A Survey on Cloud Interoperability: Taxonomies, Standards, and Practice," in *ACM SIGMETRICS Performance Evaluation Review*, vol. 40, No. 4, pp. 13-22, March 2013.

[J16] Yu Wu, Zhizhong Zhang, **Chuan Wu**, Zongpeng Li, Francis C.M. Lau. "Cloud-MoV: Cloud-based Mobile Social TV," in *IEEE Transactions on Multimedia, Special Issue on Cloud-Based Mobile Media – Infrastructure, Services and Applications*, vol. 15, No. 4, pp. 821-832, June 2013.

[J17] Ruiting Zhou, Zongpeng Li, **Chuan Wu**, Carey Williamson. "Signal Alignment: Enabling Physical Layer Network Coding for MIMO Networking," in *IEEE Transactions on Wireless Communications*, vol. 12, No. 6, pp. 3012-3023, June 2013.

[J18] Hongxing Li, **Chuan Wu**, Dongxiao Yu, Qiang-Sheng Hua, Francis C.M. Lau. "Aggregation Latency-Energy Tradeoff in Wireless Sensor Networks with Successive Interference Cancellation," in *IEEE Transactions on Parallel and Distributed Systems*, vol. 24, No. 11, pp. 2160-2170, November 2013.

[J19] Linqun Zhang, **Chuan Wu**, Zongpeng Li, Chuanxiong Guo, Minghua Chen, Francis C.M. Lau. "Moving Big Data to the Cloud: An Online Cost-Minimizing Approach," in *IEEE Journal on Selected Areas in Communications, Special Issue on Networking Challenges in Cloud Computing Systems and Applications*, vol. 31, No. 12, pp. 2710-2721, December 2013.

[J20] Hongxing Li, Qiangsheng Hua, **Chuan Wu**, Francis C.M. Lau. "Latency-Minimizing Data Aggregation in Wireless Sensor Networks under Physical Interference Model," in *Elsevier Ad Hoc Networks Journal*, vol. 12, pp. 52-68, January 2014.

[J21] Tang Xiahou, Zongpeng Li, **Chuan Wu**, Jiaqing Huang. "A Geometric Perspective to Multiple-Unicast Network Coding," in *IEEE Transactions on Information Theory*, vol. 60, No. 5, pp. 2884 - 2895, May 2014.

[J22] Wei Huang, **Chuan Wu**, Zongpeng Li, Francis C.M. Lau. "The Performance and Locality Tradeoff in BitTorrent-like File Sharing Systems," in *Springer Peer-to-Peer Networking and Applications Journal*, vol. 7, no. 4, pp. 469 - 484, December 2014.

[J23] Jian Zhao, **Chuan Wu**, Xiaojun Lin. "Locality-aware Streaming in Hybrid

P2P-Cloud CDN Systems”, in *Springer Peer-to-Peer Networking and Applications Journal, Special Issue on P2P Cloud Systems*, vol. 8, no. 2, pp. 320-335, March 2015.

[J24] Zhi Wang, Lifeng Sun, **Chuan Wu**, Shiqiang Yang. “Enhancing Internet-scale Video Service Deployment Using Microblog-based Prediction”, in *IEEE Transactions on Parallel and Distributed Systems*, vol. 26, no. 3, pp. 775 - 785, March 2015.

[J25] Yu Wu, **Chuan Wu**, Bo Li, Linqun Zhang, Zongpeng Li, Francis C.M. Lau. “Scaling Social Media Applications into Geo-Distributed Clouds,” in *IEEE/ACM Transactions on Networking*, vol. 23, no. 3, pp. 689 - 702, June 2015.

[J26] Zhi Wang, Lifeng Sun, **Chuan Wu**, Wenwu Zhu, Qidong Zhuang, Shiqiang Yang. “A Joint Online Transcoding and Delivery Approach for Dynamic Adaptive Streaming,” in *IEEE Transactions on Multimedia*, vol. 17, no. 6, pp. 867-879, June 2015.

[J27] Xuanjia Qiu, Hongxing Li, **Chuan Wu**, Zongpeng Li, Francis C.M. Lau. “Cost-Minimizing Dynamic Migration of Content Distribution Services into Hybrid Clouds”, in *IEEE Transactions on Parallel and Distributed Systems*, vol. 26, no. 12, pp. 3330-3345, December 2015.

[J28] Ruiting Zhou, Zongpeng Li, **Chuan Wu**, Minghua Chen. “Demand Response in Smart Grids: A Randomized Auction Approach,” in *IEEE Journal on Selected Areas in Communications - Series in Green Communications and Networking (JSAC-SGCN)*, vol. 33, No. 12, pp. 2540-2553, December 2015.

[J29] Linqun Zhang, Zongpeng Li, **Chuan Wu**, Shaolei Ren. “ Online Electricity Cost Saving Algorithms for Co-Location Data Centers,” in *IEEE Journal on Selected Areas in Communications - Series in Green Communications and Networking (JSAC-SGCN)*, vol. 33, No. 12, pp. 2906-2919, December 2015.

[J30] Can Zhao, Xiaojun Lin, **Chuan Wu**. “The Streaming Capacity of Sparsely-Connected P2P Systems with Distributed Control”, in *IEEE/ACM Transactions on Networking*, vol. 24, no. 1, pp. 58-71, February 2016.

[J31] Hongxing Li, **Chuan Wu**, Zongpeng Li, Francis C.M. Lau. “Virtual Machine Trading in a Federation of Clouds: Individual Profit and Social Welfare Maximization,” in *IEEE/ACM Transactions on Networking*, vol. 24, no. 3, pp. 1827 - 1840, June 2016.

[J32] Weijie Shi, Linqun Zhang, **Chuan Wu**, Zongpeng Li, Francis C.M. Lau. “An Online Auction Framework for Dynamic Resource Provisioning in Cloud Computing,” in *IEEE/ACM Transactions on Networking*, vol 24, no. 4, pp. 2060 - 2073, August 2016.

[J33] Can Zhao, Jian Zhao, Xiaojun Lin, **Chuan Wu**. “Capacity of P2P On-Demand Streaming with Simple, Robust and Decentralized Control”, in *IEEE/ACM Transactions on Networking*, vol. 24, no. 5, pp. 2607 - 2620, October 2016.

[J34] Linqun Zhang, Shaolei Ren, **Chuan Wu**, Zongpeng Li. “A Truthful Incentive Mechanism for Emergency Demand Response in Geo-distributed Colocation Data Centers,” in *ACM Transactions on Modeling and Performance Evaluation of Computing Systems*, vol. 1, no. 4, September 2016.

- [J35] Qihang Sun, **Chuan Wu**, Zongpeng Li, Shaolei Ren. "Colocation Demand Response: Joint Online Mechanisms for Individual Utility and Social Welfare Maximization," in *IEEE Journal on Selected Areas in Communications - Series on Green Communications and Networking*, vol. 34, no. 12, pp. 3978 - 3992, December 2016.
- [J36] Yu Wu, Zhizhong Zhang, **Chuan Wu**, Chuanxiong Guo, Zongpeng Li, Francis C.M. Lau. "Orchestrating Bulk Data Transfers across Geo-Distributed Datacenters", in *IEEE Transactions on Cloud Computing*, vol. 5, no. 1, pp. 112 - 125, January-March 2017.
- [J37] Xiaoxi Zhang, Zhiyi Huang, **Chuan Wu**, Zongpeng Li, Francis C.M. Lau. "An Online Stochastic Buy-Sell Mechanism for VNF Chains in the NFV Market," in *IEEE Journal on Selected Areas in Communications (JSAC) - Special Issue on Game Theory for Networks*, vol. 35, No. 2, pp. 1-15, February 2017.
- [J38] Sijia Gu, Zongpeng Li, **Chuan Wu**, Huyin Zhang. "Virtualized Resource Sharing in Cloud Radio Access Networks Through Truthful Mechanisms," in *IEEE Transactions on Communications*, vol. 65, No. 3, pp. 1105 - 1118, March 2017.
- [J39] Weijie Shi, **Chuan Wu**, Zongpeng Li. "An Online Auction Mechanism for Dynamic Virtual Cluster Provisioning in Geo-Distributed Clouds," in *IEEE Transactions on Parallel and Distributed Systems*, vol. 28, No. 3, pp. 677-688, March 2017.
- [J40] Xiaoxi Zhang, Zhiyi Huang, **Chuan Wu**, Zongpeng Li, Francis C.M. Lau. "Online Auctions in IaaS Clouds: Welfare and Profit Maximization with Server Costs", in *IEEE/ACM Transactions on Networking*, vol. 25, No. 2, pp. 1034 - 1047, April 2017.
- [J41] Ruiting Zhou, Zongpeng Li, **Chuan Wu**, Zhiyi Huang. "An Efficient Cloud Market Mechanism for Computing Jobs with Soft Deadlines", in *IEEE/ACM Transactions on Networking*, vol. 25, No. 2, pp. 793-805, April 2017.
- [J42] Jingpu Duan, **Chuan Wu**, Franck Le, Alex X. Liu, Yanghua Peng. "Dynamic Scaling of Virtualized, Distributed Service Chains: A Case Study of IMS," in *IEEE Journal on Selected Areas in Communications (JSAC) Special issue on Emerging Technologies in Software-driven Communication*, vol. 35, no. 11, pp. 2501-2511, November 2017.
- [J43] Mohammad H. Hajiesmaili, Lok To Mak, Zhi Wang, **Chuan Wu**, Minghua Chen. "Cost-Effective Low-Delay Cloud Video Conferencing," in *IEEE Transactions on Multimedia*, vol. 19, no. 12, pp. 2760-2774, December 2017.
- [J44] Ruiting Zhou, Zongpeng Li, **Chuan Wu**. "Virtualized Resource Sharing in Cloud Radio Access Networks: An Auction Approach", in *Elsevier Computer Communications Journal*, vol. 114, no. C, pp. 22-35, December 2017.
- [J45] Weijie Shi, **Chuan Wu**, Zongpeng Li. "A Shapley-value Mechanism for Bandwidth On Demand between Datacenters," in *IEEE Transactions on Cloud Computing*, vol. 6, no. 1, pp. 19-32, January-March 2018.
- [J46] Ruiting Zhou, Zongpeng Li, **Chuan Wu**. "Scheduling Frameworks for Cloud Container Services," in *IEEE/ACM Transactions on Networking*, vol. 26, no. 1, pp. 436-450, February 2018.

- [J47] Ruiting Zhou, Zongpeng Li, **Chuan Wu**. “An Online Emergency Demand Response Mechanism for Cloud Computing,” in *ACM Transactions on Modeling and Performance Evaluation of Computing Systems*, vol. 3, no. 5, February 2018.
- [J48] Yongzheng Jia, **Chuan Wu**, Zongpeng Li, Franck Le, Alex Liu. “Online Scaling of NFV Service Chains across Geo-distributed Datacenters,” in *IEEE/ACM Transactions on Networking*, vol. 26, no. 2, pp. 699-710, April 2018.
- [J49] Ruiting Zhou, Zongpeng Li, **Chuan Wu**. “A Truthful Online Mechanism for Location-Aware Tasks in Mobile Crowd Sensing,” in *IEEE Transactions on Mobile Computing*, vol. 17, no. 8, pp. 1737-1749, August 2018.
- [J50] Jingpu Duan, Xiaodong Yi, Shixiong Zhao, **Chuan Wu**, Heming Cui, Franck Le. “NFVactor: A Resilient NFV System using the Distributed Actor Model,” in *IEEE Journal on Selected Areas in Communications (JSAC) Special issue on Network Softwarization & Enablers*, vol. 37, no. 3, pp. 586-599, March 2019.
- [J51] Jingpu Duan, Xiaodong Yi, Junjie Wang, **Chuan Wu**, Franck Le. “NetStar: a Future/Promise Framework for Asynchronous Network Functions,” in *IEEE Journal on Selected Areas in Communications (JSAC) Special issue on Network Softwarization & Enablers*, vol. 37, no. 3, pp. 600-612, March 2019.
- [J52] Ruiting Zhou, Zongpeng Li, **Chuan Wu**. “An Efficient Online Placement Scheme for Cloud Container Clusters,” in *IEEE Journal on Selected Areas in Communications (JSAC) Special issue on Network Softwarization & Enablers*, vol. 37, no. 5, pp. 1046 - 1058, May 2019.
- [J53] Ziyue Luo, **Chuan Wu**, Zongpeng Li, Wei Zhou. “Scaling Geo-distributed Network Function Chains: A Prediction and Learning Framework,” in *IEEE Journal on Selected Areas in Communications (JSAC) Special issue on Network Softwarization & Enablers*, vol. 37, no. 8, pp. 1838 - 1850, August 2019.
- [J54] Jin Wang, Jianping Wang, **Chuan Wu**, Kejie Lu, Naijie Gu. “Enhancing the Anonymity in Information Diffusion Based on Obfuscated Coded Data,” in *IEEE Transactions on Network Science and Engineering*, vol. 6, no. 4, pp. 968-982, October-December 2019.
- [J55] Qihang Sun, Shaolei Ren, **Chuan Wu**. “Fair Online Power Capping for Emergency Handling in Multi-Tenant Cloud Data Centers,” in *IEEE Transactions on Cloud Computing*, vol. 8, No. 1, pp. 152-166, January-March 2020.
- [J56] Xiaotong Li, Ruiting Zhou, Lei Jiao, **Chuan Wu**, Zongpeng Li. “Online Placement and Scaling of Geo-distributed Machine Learning Jobs via Volume-discounting Brokerage,” in *IEEE Transactions on Parallel and Distributed Systems*, vol. 41, No. 4, pp. 948-966, April 2020.
- [J57] Ziyue Luo, **Chuan Wu**. “An Online Algorithm for VNF Service Chain Scaling in Datacenters,” in *IEEE/ACM Transactions on Networking*, vol. 28, No. 3, pp. 1061-1073, June 2020.
- [J58] Xiaoxi Zhang, **Chuan Wu**, Zongpeng Li, Francis C.M. Lau. “A Truthful  $(1-\epsilon)$ -Optimal Mechanism for On-demand Cloud Resource Provisioning,” in *IEEE Transactions on Cloud Computing*, vol. 8, No. 3, pp. 735-748, July-September 2020.

[J59] Xiaoyang Zhao, Zhi Zhu, MingShan Liu, Chongyu Zhao, Yafei Zhao, Jia Pan, Zheng Wang, **Chuan Wu**. “A Smart Robotic Walker with Intelligent Close-proximity Interaction Capabilities for Elderly Mobility Safety,” in *Frontiers in Neurorobotics*, October 2020.

[J60] Xiaoxi Zhang, Zhiyi Huang, **Chuan Wu**, Zongpeng Li, Francis C.M. Lau. “Dynamic VM Scaling: Provisioning and Pricing through an Online Auction,” in *IEEE Transactions on Cloud Computing*, vol. 9, No. 1, pp. 131-144, January-March 2021.

[J61] Le Fang, Yu Wu, **Chuan Wu**, Yizhou Yu. “A Non-Intrusive Elderly Home Monitoring System,” in *IEEE Internet of Things Journal*, vol. 8, No. 4, pp. 2603-2614, February 2021.

[J62] Yanghua Peng, Yixin Bao, Yangrui Chen, **Chuan Wu**, Chen Meng, Wei Lin. “ $DL^2$ : A Deep Learning-driven Scheduler for Deep Learning Clusters,” in *IEEE Transactions on Parallel and Distributed Systems*, vol. 32, No. 8, pp. 1947-1960, August 2021.

[J63] Bingqian Du, Zhiyi Huang, **Chuan Wu**. “Adversarial Deep Learning for Online Resource Allocation,” in *ACM Transactions on Modeling and Performance Evaluation of Computing Systems*, vol. 6, No. 4, pp. 1-25, December 2021.

[J64] Menglu Yu, Jia Liu, **Chuan Wu**, Bo Ji, Elizabeth S. Bentley. “Toward Efficient Online Scheduling for Distributed Machine Learning Systems,” to appear in *IEEE Transactions on Network Science and Engineering*.

[J65] Shiji Zhou, Zhi Wang, Chenghao Hu, Yinan Mao, Haopeng Yan, **Chuan Wu**, Shanghang Zhang, Wenwu Zhu. “Caching in Dynamic Environments: a Near-optimal Online Learning Approach,” to appear in *IEEE Transactions on Multimedia*.

[J66] Xiaoyang Zhao, **Chuan Wu**. “Large-scale Machine Learning Cluster Scheduling via Multi-agent Graph Reinforcement Learning,” to appear in *IEEE Transactions on Network and Service Management*.

[J67] Ruiting Zhou, Jinlong Pang, Qin Zhang, **Chuan Wu**, Lei Jiao, Yi Zhong, Zongpeng Li. “Online Scheduling Algorithm for Heterogeneous Distributed Machine Learning Jobs,” to appear in *IEEE Transactions on Cloud Computing*.

#### ◇ International Conference Papers:

[C1] **Chuan Wu**, Yuwen He, Li Zhao, Yuzhuo Zhong. “Motion Feature Extraction Scheme for Content-based Video Retrieval”, in the Proceeding of *SPIE Storage and Retrieval for Media Databases 2002*, Vol. 4676, pp. 296-305, San Jose, California, January 23-25, 2002.

[C2] **Chuan Wu**, Yufei Ma, Hongjiang Zhang, Yuzhuo Zhong. “Events Recognition by Semantic Inference for Sports Video”, in the Proceeding of the *IEEE International Conference on Multimedia and Expo 2002 (IEEE ICME 2002)*, pp. 805-808, Lausanne, Switzerland, August 26-29, 2002.

[C3] **Chuan Wu**, Baochun Li. “rStream: Resilient Peer-to-Peer Streaming with Rateless Codes,” in the Proceedings of *ACM Multimedia 2005*, pp. 307-310, Singapore, November 6-12, 2005.

[C4] **Chuan Wu**, Baochun Li. "Optimal Peer Selection for Minimum-Delay Peer-to-Peer Streaming with Rateless Codes," in the Proceedings of *ACM Workshop on Advances in Peer-to-Peer Multimedia Streaming (P2PMMS 2005)*, in conjunction with *ACM Multimedia 2005*, pp. 69-78, Singapore, November 6-12, 2005.

[C5] **Chuan Wu**, Baochun Li. "Echelon: Peer-to-Peer Network Diagnosis with Network Coding," in the Proceedings of the *Fourteenth IEEE International Workshop on Quality of Service (IEEE IWQoS 2006)*, pp. 20-29, Yale University, New Haven, Connecticut, June 19-21, 2006.

[C6] **Chuan Wu**, Baochun Li. "Strategies of Conflict in Coexisting Streaming Overlays," in the Proceedings of *IEEE INFOCOM 2007*, pp. 481-489, Anchorage, Alaska, May 6-12, 2007.

[C7] **Chuan Wu**, Baochun Li. "Optimal Rate Allocation in Overlay Content Distribution," in the Proceedings of *IFIP Networking 2007, also Lecture Notes in Computer Science, Springer*, vol. 4479, pp. 678-690, Atlanta, Georgia, May 14-18, 2007.

[C8] **Chuan Wu**, Baochun Li. "Outburst: Efficient Overlay Content Distribution with Rateless Codes," in the Proceedings of *IFIP Networking 2007, also Lecture Notes in Computer Science, Springer*, vol. 4479, pp. 1208-1216, Atlanta, Georgia, May 14-18, 2007.

[C9] **Chuan Wu**, Baochun Li, Shuqiao Zhao. "Magellan: Charting Large-Scale Peer-to-Peer Live Streaming Topologies," in the Proceedings of the *27th IEEE International Conference on Distributed Computing Systems (IEEE ICDCS 2007)*, pp. 62-69, Toronto, Ontario, Canada, June 25-29, 2007.

[C10] **Chuan Wu**, Baochun Li. "On Meeting P2P Streaming Bandwidth Demand with Limited Supplies," in the Proceedings of the *Fifteenth Annual SPIE/ACM International Conference on Multimedia Computing and Networking (MMCN 2008)*, Vol. 6818, pp. 68180C-1—68180C-12, San Jose, California, January 30-31, 2008.

[C11] **Chuan Wu**, Baochun Li, Shuqiao Zhao. "Multi-channel Live P2P Streaming: Refocusing on Servers," in the Proceedings of *IEEE INFOCOM 2008*, pp. 1355-1363, Phoenix, Arizona, April 14-17, 2008.

[C12] Zimu Liu, **Chuan Wu**, Baochun Li, Shuqiao Zhao. "Distilling Superior Peers in Large-Scale P2P Streaming Systems," in the Proceedings of *IEEE INFOCOM 2009*, pp. 82-90, Rio de Janeiro, Brazil, April 19-25, 2009.

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[C14] Zimu Liu, **Chuan Wu**, Baochun Li, Shuqiao Zhao. "Why Are Peers Less Stable in Unpopular P2P Streaming Channels?" in the Proceedings of *IFIP Networking 2009, also Lecture Notes in Computer Science, Springer*, vol. 5550, pp. 274-286, Aachen, Germany, May 11-15, 2009.

[C15] Xuanjia Qiu, **Chuan Wu**, Xiaola Lin, Francis C.M. Lau, "InstantLeap: Fast Neighbor Discovery in P2P VoD Streaming," in the Proceedings of the *19th International Workshop on Network and Operating Systems Support for Digital Audio and Video (NOSSDAV 2009)*, pp. 19-24, Williamsburg, Virginia, June 3-5, 2009.



[C16] Zimu Liu, **Chuan Wu**, Baochun Li, Shuqiao Zhao. "UUSee: Large-Scale Operational On-Demand Streaming with Random Network Coding," in the Proceedings of *IEEE INFOCOM 2010*, pp. 2070-2078, San Diego, California, March 15-19, 2010.

[C17] Wei Huang, **Chuan Wu**, Francis C.M. Lau. "The Performance and Locality Tradeoff in BitTorrent-like P2P File-Sharing Systems," in the Proceedings of *IEEE International Conference on Communications (IEEE ICC 2010)*, Cape Town, South Africa, May 23-27, 2010.

[C18] Shun-Yun Hu, **Chuan Wu**, Eliya Buyukkaya, Chien-Hao Chien, Tzu-Hao Lin, Maha Abdallah, Jehn-Ruey Jiang, Kuan-Ta Chen. "A Spatial Publish Subscribe Overlay for Massively Multiuser Virtual Environments," in the Proceedings of the *2010 International Conference on Electronics and Information Engineering (ICEIE 2010)*, pp. V2-314 — V2-318, Kyoto, Japan, August 1-3, 2010.

[C19] Hongxing Li, Qiangsheng Hua, **Chuan Wu**, Francis C.M. Lau. "Minimum-Latency Aggregation Scheduling in Wireless Sensor Networks under Physical Interference Model," in the Proceedings of the *13th ACM International Conference on Modeling, Analysis and Simulation of Wireless and Mobile Systems (ACM MSWiM 2010)*, pp. 360-367, Bodrum, Turkey, October 17-21, 2010.

[C20] Zhi Wang, **Chuan Wu**, Lifeng Sun, Shiqiang Yang. "Strategies of Collaboration in Multi-channel P2P VoD Streaming," in the Proceedings of *IEEE Globecom 2010*, Miami, Florida, December 6-10, 2010.

[C21] Jin Wang, Jianping Wang, **Chuan Wu**, Kejie Lu, Naijie Gu. "Anonymous Communication with Network Coding against Traffic Analysis Attack," in the Proceedings of *IEEE INFOCOM 2011*, pp. 1008-1016, Shanghai, China, April 10-15, 2011.

[C22] Ajay Gopinathan, Zongpeng Li, **Chuan Wu**. "Strategyproof Auctions for Balancing Social Welfare and Fairness in Secondary Spectrum Markets," in the Proceedings of *IEEE INFOCOM 2011*, pp. 3020-3028, Shanghai, China, April 10-15, 2011.

[C23] Can Zhao, Xiaojun Lin, **Chuan Wu**. "The Streaming Capacity of Sparsely-Connected P2P Systems with Distributed Control," in the Proceedings of *IEEE INFOCOM 2011*, pp. 1449-1457, Shanghai, China, April 10-15, 2011.

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  - ◇ Associate Editor, IEEE Transactions on Circuits and Systems for Video Technology (TCSVT), February 2019 - Dec 31, 2022
  - ◇ Associate Editor, IEEE/ACM Transactions on Networking (ToN), January 2021 - present
- TEACHING ACTIVITIES
- ◇ Serving as Departmental Curriculum Development Committee Chair (2018—2021): handling various curriculum development and course revamp matters
  - ◇ Serving as the programme coordinator of HKU-Tsinghua CS dual degree program (to start in Fall 2021), and responsible for designing the dual-degree curriculum
  - ◇ COMP9602 - Convex Optimization: taught in Fall 2009, Fall 2010, Fall 2011, Spring 2014, Spring 2015, Spring 2017, Fall 2018
  - ◇ CSIS0234B/COMP3234 - Computer and Communication Networks: taught in Spring 2009, Spring 2010, Spring 2011, Spring 2012, Spring 2020
  - ◇ CSIS0322/COMP3322 - Modern Technologies on World Wide Web: taught in Fall 2012, Fall 2013, Spring 2015, Fall 2015, Fall 2016, Fall 2017, Spring 2018, Spring 2019, Fall 2019.
  - ◇ CSIS7304 - The Wireless Internet and Mobile Computing: taught in Spring 2009
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  - ◇ Chao Tu, "A Scheduler Mobile App for Tutors and Parents", 2017-2018
  - ◇ Ni Zhang, Haoning An, Xiaohan Jiang, "Planning, Pricing and Implementation of a Reservation-based Taxi Service", 2016 — 2017
  - ◇ Shuran Li, Wangning Xu, Chen Wu, "Indoor Localization and Navigation for Mobile Robot", 2016 — 2017
  - ◇ Duo Zhao, "A Personal Intelligent Fitness Assistant on iOS Platform", 2016 — 2017
- SUPERVISION OF FINAL YEAR PROJECTS
- ◇ Anant Garg, Yujie Liu, "An AI Piano Tutor App", 2019-2020
  - ◇ Anushka Vashishtha, "Robot Path Planning in Wireless Communication Using Reinforcement Learning", 2018-2019
  - ◇ Fang Wan, "PDSecretary: A Mobile App for Recommending Exercise to Parkinson's Disease Patients", 2018-2019
  - ◇ Apoorva Katta, "Ping Based Digital Marketing Service", 2017 — 2018
  - ◇ Ka Lok Chan, Hilary Ho, Siu Wai Lam, "A Cloud-based Mobile App for Tutors and Parents", 2017 — 2018
  - ◇ Shun Cheung Lee, "An Easy-to-Use Mobile App for Personal Finance", 2016 — 2017
  - ◇ Chun Man Cheung, Ka Hei Chow, "An Easy-to-Use Mobile App for Personal Buy and Sell", 2014 — 2015
  - ◇ Brian Kwan Hon See, Chun Ka Hung, Kin Chung Wong, "A Crowdsourcing Shopping Website with Incentives", 2013 — 2014
  - ◇ Chun Wai Fu, Casey Wing Yan Tang, Cheuk Hang Wong, "An Easy-to-Use Mobile System for Calling Taxi", 2013 — 2014 (1st runner-up in the departmental

FYP competition)

- ◇ Euky Chan, “A Drawing-Board Mobile Cloud App”, 2012 — 2013
- ◇ Ka Shing Yip, “A Cloud-based Mobile Shopping Mashup”, 2012 — 2013
- ◇ Kit Yin Lam, “A Crowdsourcing Online Shopping Network with Incentives”, 2011 — 2012
- ◇ Zhidi Liang, Shining Sun, “A Crowdsourcing Online Shopping Network with Incentives”, 2011 — 2012
- ◇ Tsz Wai Chow, Ping Lam Or, Chun Hin Yu, “A Group-on Mobile Cloud Application”, 2011 — 2012
- ◇ Yan Kit Ng, Ho Tse, Chak Sum Lam, “An Online Social Network for Virtual Shopping”, 2010 — 2011
- ◇ Shing Ki Wong, Tsz Fung Ho, “An Online Social Network for Virtual Shopping”, 2010 — 2011
- ◇ Ka Yui Chan, Wai Yin Chung, Chi Long Wong, “An Emulation Framework for Peer-to-Peer Applications”, 2009 — 2010

INTERNATIONAL  
PROFESSIONAL  
SERVICE

- ◇ Steering committee member, IEEE/ACM International Symposium on Quality of Service (IWQoS), January 1, 2019 - January 1, 2022.
- ◇ Steering committee member, the 15th EAI International Conference on Heterogeneous Networking for Quality, Reliability, Security and Robustness (QShine 2019), Hong Kong.
- ◇ Steering committee member, the International Workshop on Intelligent Cloud Computing and Networking (ICCN) in conjunction with IEEE INFOCOM, 2019-present.
- ◇ Area TPC Chair, IEEE INFOCOM, Vancouver, Canada, 2021.
- ◇ Workshop Co-Chair, IEEE INFOCOM, Toronto, Canada, 2020.
- ◇ Demo/Poster Co-Chair, IEEE INFOCOM, Paris, France, 2019.
- ◇ TPC Co-Chair, the 26th IEEE/ACM International Symposium on Quality of Service (IWQoS), Banff, Canada, 2018.
- ◇ TPC Co-Chair, the 28th ACM SIGMM Workshop on Network and Operating Systems Support for Digital Audio and Video (NOSSDAV), Amsterdam, The Netherlands, 2018.
- ◇ Area Chair (“Multimedia Transport and Delivery” Track), ACM Multimedia Conference, Seoul, South Korea, 2018.
- ◇ Co-Chair for Special Session “Cloud-based Multimedia”, ACM Multimedia Systems Conference (ACM MMSys), Taipei, Taiwan, 2017.
- ◇ Demo/Poster Co-Chair, IEEE ICNP, Toronto, Canada, 2017.
- ◇ Poster Co-Chair, ACM e-Energy, Hong Kong, 2017.
- ◇ Demo Co-Chair, ITC 29, Genoa, 2017.
- ◇ Demo/Poster Co-Chair, IEEE INFOCOM, Hong Kong, 2015.
- ◇ Demo Chair, ACM Multimedia Systems Conference (ACM MMSys), Portland, Oregon, 2015.
- ◇ Chair of Interest Group on Multimedia services and applications over Emerging Networks (MEN), IEEE Multimedia Communication Technical Committee

(MMTC), 2012-2014.

- ◇ Publication Chair, the 2011 International Conference on Cloud and Service Computing (CSC2011), Hong Kong, December 12-14, 2011.
- ◇ Program Track Co-Chair (“Pervasive, Grid, P2P and Cloud Computing” track), the 6th International Conference on Frontier of Computer Science and Technology (FCST-11), Changsha, China, November 16-18, 2011.
- ◇ Poster Session Co-Chair, the 17th IEEE International Workshop on Quality of Service (IEEE IWQoS 2010), Beijing, China, June 16-18, 2010.
- ◇ Regularly Refereeing for Academic Journals:
  - IEEE Transactions on Parallel and Distributed Systems (TPDS)
  - IEEE/ACM Transactions on Networking (TON)
  - IEEE Journal on Selected Areas in Communications (JSAC)
  - IEEE Transactions on Multimedia (TMM)
  - IEEE Transactions on Mobile Computing (TMC)
  - IEEE Transactions on Wireless Communications (TWC)
  - IEEE Transactions on Circuits and Systems for Video Technology (TCSVT)
  - IEEE Transactions on Computers (TC)
  - IEEE Transactions on Communications (TCOM)
  - IEEE Transactions on Cloud Computing (TCC)
  - IEEE Transactions on Services Computing (TSC)
  - IEEE Transactions on Vehicular Technology (TVT)
  - IEEE Transactions on Network and Service Management (TNSM)
  - IEEE Transactions on Cognitive Communications and Networking (TCCN)
  - ACM Computing Surveys (CSUR)
  - ACM Transactions on Sensor Networks (TOSN)
  - ACM Transactions on Multimedia Computing, Communications, and Applications (TOMM)
  - ACM Transactions on Modeling and Performance Evaluation of Computing Systems (TOMPECS)
  - Springer Multimedia Systems Journal
  - Springer Peer-to-Peer Networking and Applications Journal (PPNA)
  - Elsevier Journal of Computer Networks (JCN)
  - Elsevier Journal of Parallel and Distributed Computing (JPDC)
  - Elsevier Computer Networks Journal (COMNET)
  - Elsevier Performance Evaluation Journal (PEVA)
  - IEEE Network
  - IEEE Multimedia
  - IEEE Communications Magazine
  - IEEE Communications Letters
  - Journal of Communications (JCM)
- ◇ Membership in Technical Program Committees:
  - IEEE INFOCOM: 2011—2022
  - ACM Mobihoc: 2020
  - ACM International Conference on Information and Knowledge Management (CIKM): 2019
  - ACM SIGMETRICS: 2016
  - ACM International Conference on Multimedia (ACM Multimedia): 2018, 2016, 2014, 2012, 2011, 2009
  - ACM Multimedia Systems Conference (MMSys): 2013
  - IEEE International Conference on Data Mining (ICDM): 2018

IEEE International Conference on Distributed Computing Systems (ICDCS): 2011  
 IEEE International Conference on Network Protocols (ICNP): 2011  
 IEEE International Conference on Communications (ICC): 2018, 2010-2016  
 IEEE Global Communications Conference (GLOBECOM): 2017, 2012, 2011, 2010, 2009  
 IEEE International Conference on Parallel and Distributed Systems (ICPADS): 2016, 2012  
 IEEE International Conference on Computer Communications and Networks (ICCCN): 2011, 2010  
 IEEE International Conference on Multimedia and Expo (ICME): 2017  
 IEEE International Symposium on the Modeling, Analysis, and Simulation of Computer and Telecommunication System (MASCOTS): 2017  
 IEEE International Conference on Mobile Ad-hoc and Sensor Systems (MASS): 2018  
 IEEE Wireless Communications and Networking Conference (WCNC): 2013  
 IEEE International Conference on Mobile Ad-hoc and Sensor Networks (MSN): 2012  
 IEEE Consumer Communications and Networking Conference (CCNC): 2011, 2010  
 IEEE International Conference on Cloud Engineering (IC2E): 2018  
 IFIP Networking: 2020, 2019, 2017, 2012  
 ACM/IEEE International Symposium on Quality of Service (ACM/IEEE IWQoS): 2014-2017, 2019, 2020  
 ACM Workshop on Network and Operating Systems Support for Digital Audio and Video (NOSSDAV): 2017, 2014, 2013, 2012  
 ACM e-Energy: 2018  
 IEEE/ACM International Symposium on Cluster, Cloud and Grid Computing (CCGrid): 2013

LOCAL  
 PROFESSIONAL  
 SERVICE

External Examiner on Ph.D. Thesis Committee:

- ◇ Mr. Yu, Yinghao, "Towards Efficient, Fair and Load-Balanced Cluster Caching for Big Data Analytics", Department of Electronic and Computer Engineering, Hong Kong University of Science and Technology, 2019.
- ◇ Mr. Hu, Shuihai, "Towards High Speed Data Center Network: Challenges and Solutions", Department of Computer Science and Engineering, Hong Kong University of Science and Technology, 2019.
- ◇ Mr. Ma, Shiyao, "On the Fairness of Network Resource Allocation for Data-Parallel Applications", Department of Computer Science and Engineering, Hong Kong University of Science and Technology, 2018.
- ◇ Mr. Wang, Yuqi, "Cross Domain Data Analytics for Urban Computing", Department of Computing, The Hong Kong Polytechnic University, 2018.
- ◇ Ms. Mei, Xinxin, "Energy Conservation Techniques for GPU Computing", Department of Computer Science, Hong Kong Baptist University, 2016.
- ◇ Mr. Yuan, Xingliang, "Private and Versatile Search over Very Large Encrypted Datasets", Department of Computer Science, City University of Hong Kong, 2016.
- ◇ Mr. Zhang, Jin, "Design of Effective Digital Rights Management Strategies: The Role of Economics", Department of Computing, The Hong Kong Polytechnic University, 2014.
- ◇ Mr. Yuan, Yi, "Efficient Big Data System in the Cloud: Resource Provisioning and Scheduling", Department of Computing, The Hong Kong Polytechnic University, 2014.

FACULTY AND  
DEPARTMENTAL  
SERVICE

- ◇ Member of Physical Sciences and Engineering Panel of the University Selection and Promotion Committee (USPC): March 1, 2022 — November 30, 2023
- ◇ Assistant Dean of Faculty of Engineering (Research) and Director of Research Student Centre: June 28 2021 — June 27 2022
- ◇ Faculty Committee on Undergraduate Curricula: member, 2018 — 2021
- ◇ Faculty Curriculum Development Committee: member 2018
- ◇ Faculty Human Resource Committee: member 2016 — present
- ◇ Board of Studies in BBA(IS) / Engineering (CS): 2017 — present
- ◇ Associate Department Head: January 2018— June 2019
- ◇ Programme Coordinator for HKU-Tsinghua Dual Degree: 2019 — present
- ◇ Departmental Curriculum Development Committee: Chair, 2018— present
- ◇ Departmental Advisory Committee: member, 2018 — present
- ◇ Departmental Staff-Student Consultative Committee: member, 2018 — present
- ◇ Departmental Search Committee: member, 2017 — present
- ◇ Departmental Research Committee: member, 2016 — present
- ◇ Departmental Research Postgraduate Committee: member, 2009 — present
- ◇ Programme Committee for the Computer Engineering Course: member, 2009 — present
- ◇ Workgroup on Space Issues: member, 2015 — 2019
- ◇ OBL Workgroup: member, 2014 — 2017
- ◇ Exchange Students Coordinator: 2012 — 2018
- ◇ Programme Committee for MSc(CompSc): member, 2011 — 2018
- ◇ Admissions Committee: member, 2009 — 2018
- ◇ China Programme Development Committee: Deputy Chair, 2009 — 2012
- ◇ Mainland UG Student Recruitment Committee: Deputy Chair, 2009 — 2012
- ◇ Mainland Exchange Students Coordinator: 2009 — 2012
- ◇ Committee on Advanced Undergraduate Training: member, 2009 — 2011
- ◇ Served as interviewer in the University’s mainland undergraduate interview trips to Beijing and Xi’an, in January and June 2010, respectively
- ◇ Internal Examiner on Ph.D. Thesis Committee:
  - Ms. Caihua Shan, “Effective Algorithm for Processing Crowdsourced Data”, CS, The University of Hong Kong, 2019.
  - Mr. Jie Xiao, “High-performance Interconnection Networks Design”, EEE, The University of Hong Kong, 2019.
  - Ms. Dongzhu Liu, “Beyond Rate Maximization: Wireless Communication Techniques for Edge Information Systems”, EEE, The University of Hong Kong, 2019.
  - Mr. Ning Kang, “Online Algorithms for Combinatorial Optimization Problems”, CS, The University of Hong Kong, 2019.
  - Mr. Zhihao Tang, “Revenue Maximization with Incomplete Information”, CS, The University of Hong Kong, 2018.
  - Mr. Wang Shuai, “Wireless Power and Information Transmission: Nonlinear Model and Beamforming Optimization”, EEE, The University of Hong Kong, 2018.
  - Mr. You Changsheng, “Energy-Efficient Mobile Edge Computing: Computation Offloading and Resource Management”, EEE, The University of Hong Kong, 2018.
  - Mr. Yang Yuxiang, “Compression and Replication of Quantum Information”, CS, The University of Hong Kong, 2018.
  - Mr. Zhang Chenzi, “Graph Partitioning Problems through Spectral Analysis and Heuristics”, CS, The University of Hong Kong, 2018.
  - Mr. Li, Yupeng, “Coflow Scheduling and Resource Sharing in Congested Networks”, CS, The University of Hong Kong, 2017.

- Mr. Zhao, Zhichao, "Private, Secure and Truthful Multi-Party Protocols", CS, The University of Hong Kong, 2016.
- Mr. Kan, Ying Yeung Edward, "A Sound and Efficient Program Testing and Execution Framework in Green Computing", CS, The University of Hong Kong, 2015.
- Mr. He, Xin, "Quadratically Perturbed Chance Constrained Programming: Theory and Application in Transceiver Design", EEE, The University of Hong Kong, 2015.
- Mr. Halepoto, Imtiaz Ali, "Scheduling and Flow Control in CMT-SCTP", CS, The University of Hong Kong, 2014.
- Mr. Zhou, Haojie, "Auction-based Resource Allocation in Selfish Networks", EEE, The University of Hong Kong, 2014.
- Mr. Chen, Fei, "Linear Programming Techniques for Algorithms with Applications in Economics", CS, The University of Hong Kong, 2014.
- Mr. Yu, Dongxiao, "Distributed Algorithmic Studies in Wireless Ad Hoc Networks", CS, The University of Hong Kong, 2014.
- Ms. Guo, Dingding, "On the Efficiency of Resource Utilization in Strategic Peer-to-Peer Systems", EEE, The University of Hong Kong, 2014.
- Mr. Zhai, Ke, "Budget-Sensitive Testing and Analysis Strategies and Their Applications to Concurrent and Service-based Systems", CS, The University of Hong Kong, 2014.
- Mr. Di, Sheng, "Optimal Divisible Resource Allocation for Self-Organizing Cloud", CS, The University of Hong Kong, 2011.
- Mr. Ma, Ka Kui, "Lightweight Task Mobility Support for Elastic Cloud Computing", CS, The University of Hong Kong, 2011.
- Mr. Tan, Haisheng, "Minimizing Interference in Wireless Sensor Networks", CS, The University of Hong Kong, 2011.
- Mr. Mei, Lijun, "XML-Manipulating Techniques for the Testing and Analysis of XML-Manipulating Services", CS, The University of Hong Kong, 2010.
- Mr. Hua, Qiangsheng, "Scheduling Wireless Links with SINR Constraints", CS, The University of Hong Kong, 2009.
- Mr. Chiu, Hon Sun, "Channel Assignment and Routing in Multi-Channel Multi-Interference Wireless Networks", EEE, The University of Hong Kong, 2009.

◇ Internal Examiner on MPhil. Thesis Committee

- Mr. Tang Wenbin, "Distributed Network and Spatial Protocols on Big Data", CS, The University of Hong Kong, 2015.
- Mr. Xin Zhang, "Gossip-based Publish-Subscribe Systems in Peer-to-Peer Networks", EEE, The University of Hong Kong, 2014.
- Mr. Zheming Xu, "WAVNet: Wide-Area Virtual Networks for Dynamic Provisioning of IaaS", CS, The University of Hong Kong, 2010.

February 11, 2022