

Curriculum Vitae - Victor C. M. Leung

Department of Electrical and Computer Engineering
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Research Areas:

Wireless networks and mobile systems. ICT applications, system architectures, cloud computing, software defined networks, network function virtualization, radio access, protocols, management algorithms, performance evaluations.

Academic Qualifications:

- BAsC (Honors) in Electrical Engineering, UBC, 1977
- PhD in Electrical Engineering, UBC, 1982

Professional Experience:

- Distinguished Professor of Computer Science and Software Engineering, Shenzhen University (2019 –)
- Emeritus Professor of Electrical and Computer Engineering, UBC (2019 –)
- TELUS Mobility Research Chair in Advanced Telecommunications Engineering, UBC (2000 – 2018)
- Professor of Electrical and Computer Engineering, UBC (1999 – 2018)
- Associate Head for Graduate Affairs, Dept. Electrical and Computer Engineering, UBC (2004 – 2006)
- Associate Professor of Electrical and Computer Engineering, UBC (1994 – 1999)
- Assistant Professor of Electrical Engineering, UBC (1989 – 1994)
- Lecturer, Dept. of Electronics, Chinese University of Hong Kong (1988)
- Visiting Assistant Professor, School of Engineering Science, Simon Fraser University, BC (1986 – 1987)
- Senior Member of Technical Staff, Microtel Pacific Research Ltd., Burnaby, BC (1981 – 1987)
- Consultants to Transport Canada, MPR Teltech, Inside Software and Strategy Management, Telesat, VISTAR Canada, IMT Communications Systems, OMNEX Control Systems, and Ontario Council of Graduate Studies.

Honours:

Fellowships:

- (2013) Elected Fellow of Royal Society of Canada, Academy of Science
- (2009) Elected Fellow of Engineering Institute of Canada
- (2008) Elected Fellow of Canadian Academy of Engineering
- (2003) Elected Fellow of IEEE (Institute of Electrical and Electronics Engineers)

Research Chair, Professorships, Lectureship

- (2000–2018) Inaugural holder of TELUS Mobility Research Chair in Advanced Telecommunications Engineering
- (2009–2012) IEEE ComSoc Distinguished Lecturer
- (2010–2020) Honorary Guest Professor, Beijing University of Posts and Telecommunications
- (2010–2016) Adjunct Professor, The Hong Kong Polytechnic University
- (2009–2012) Honorary Guest Professor, South China University of Technology
- (2008–2011) Honorary Guest Professor, Beijing Jiaotong University
- (2006–2012) Honorary Guest Professor, Jilin University

Invited Keynote Presentations (Past Five Years):

- “Integrated Networking, Caching and Computing: A Deep Reinforcement Learning Approach”, 16th IEEE International Conference on Communication Systems (ICCS), Chengdu, China, Dec. 2018.
- “Mobile Edge Caching for 5G Networks and Beyond”, 15th International Symposium on Pervasive Systems, Algorithms, and Networks (MSWIM), Montreal, Canada, Oct. 2018.
- “Mobile Edge Caching for 5G Networks and Beyond”, 21st ACM International Conference on Modeling, Analysis and Simulation of Wireless and Mobile Systems, Yichang, China, Oct. 2018.
- “Mobile Edge Caching for 5G Networks and Beyond”, 2nd Global Future Network Development Summit, Nanjing, China, May 2018.
- “Internet of Things – Some Challenges and Recent Results”, NST/ITCOMM, Danshui, Taiwan, Jan. 2018.
- “Internet of Things – Some Challenges and Recent Results”, E-health, IoT and Big Data Forum, Dongguan, China, Nov. 2017.
- “Internet of Moving Things as Enabler of Industry 4.0”, International Conference on Enterprise Systems (ES 2017), Beijing, China, Sep. 2017.

- “Internet of Moving Things as Enabler of Industry 4.0”, Academician Forum on Industry 4.0 and Made in China 2025, Yiwu, China, Sep. 2017.
- “Video Game as a Service – Cloud Computing Enabled Video Gaming Anywhere on Any Device”, IEEE TrutCom/BigDataSE/ISPA 2016, Tianjin, China, Aug. 2016.
- “AURORA – A Test Bed for Connected Vehicle Research”, 2nd International Conference on Internet of Vehicles (IoV 2015), Chengdu, China, Dec. 2015.
- “Green Internet of Things for Smart Cities”, SWANSITY – Smart Wireless Networks for Smart City Workshop at IEEE SECON 2015, Seattle, WA, July 2015.
- “The AURORA Test Bed – Lighting Up the UBC Campus for ITS Research”, 3rd International Conference on Transportation Information and Safety (ICTIS 2015), Wuhan, China, June 2015.
- “Green Internet of Things for Smart Cities”, International Workshop on Smart Cities and Urban Informatics at IEEE Infocom 2015, Hong Kong, China, Apr. 2015.
- “Green Internet of Things”, 4th IEEE Online Conference on Green Communications, Nov. 2014.
- “Video Game as a Service – Cloud Computing Enabled Mobile Video Gaming”, 28th IEEE International Conference on Advanced Information Networking and Applications (AINA), Victoria, BC, May 2014.

Best Paper Awards:

- (2018) Best Paper Awards in Globecom 2018 GCSN Symposium, selected by IEEE Communications Society Technical Committee on Green Communications & Computing (TCGCC) and IEEE Communications Society Transmission, Access, and Optical Systems (TAOS) Technical Committee, for paper titled “Energy-Efficient Resource Allocation in NOMA Heterogeneous Networks with Energy Harvesting”.
- (2018) Best Journal Paper Award of IEEE Communications Society Communications Systems Integration & Modeling (CSIM) Technical Committee for paper titled “Energy Efficient User Association and Power Allocation in Millimeter Wave Based Ultra-Dense Networks” in IEEE Journal on Selected Areas in Communications, vol. 35, no. 9, pp. 1936-1947, Sep. 2017
- (2018) Best Paper Award of IEEE International Symposium on Power Line Communications and its Applications (ISPLC), Manchester, UK, Apr. 2018 for paper titled “Grid Surveillance and Diagnostics Using Power Line Communications”.
- (2017) IEEE Systems Journal Best Paper Award for paper titled “A Novel Sensory Data Processing Framework to Integrate Sensor Networks with Mobile Cloud”, IEEE Systems Journal, vol. 10, no. 3, pp. 1125-1136, Sep. 2016.
- (2017) IEEE ComSoc Fred W. Ellersick Prize awarded to the best original paper in any ComSoc magazine in the previous 3 calendar years, for the paper “Cache in the Air: Exploiting Content Caching and Delivery Techniques for 5G Systems”, IEEE Communications Magazine, Vol. 52, Issue 2, Page 131-139, February 2014.
- (2017) Best Paper Award of IEEE/CIC International Conference on Communications in China (ICCC), Qingdao, China, Oct. 2017 for paper titled “Energy Efficient Resource Allocation for the Software-Defined VLC and RF Small Cells”.
- (2017) Best Paper Award of IEEE VTC2017-Spring, Sydney, Australia, June 2017 for paper titled “Internal Collusive Eavesdropping of Interference Alignment Networks”.
- (2016) Best Paper Award of 7th IEEE INFOCOM Workshop on Mobility Management for the Networks of the Future World (MobiWorld), San Francisco, USA, Apr. 2016 for paper titled “Simplified Wireless Connectivity for 5G Machine Type Communication”.
- (2014) Best Paper Award of 6th IEEE International Conference on Cloud Computing Technology and Science (CloudCom), Singapore, Dec. 2014.
- (2014) Best Paper Award of 1st International Conference on Smart Computing (SmartComp), Hong Kong, China, Nov. 2014 for paper titled “Reputation-based Multiplayer Fairness for Ad-hoc Cloudlet-assisted Cloud Gaming System”.
- (2012) Best Paper Award of 2nd IEEE International Conference on Cloud Computing and Intelligence Systems, Hangzhou, China, Oct. 2012 for paper titled “Multiple Tags Identification for Short ID RFID Networks”.
- (2009) Best Paper Award of 1st International Conference on Evolving Internet (INTERNET 2009), Cannes/La Bocca, French Riviera, France, Aug. 2009 for paper titled “Collision Avoidance and Mitigation in Cognitive Wireless Local Area Network over Fibre”.
- (2009) Best Paper Award of IEEE/IFIP International Symposium on Trusted Computing and Communications, Vancouver, BC, Aug. 2009 for paper titled “Distributed Node Selection for Threshold Key Management with Intrusion Detection in Mobile Ad Hoc Networks”.
- (2008) Best Paper Award of IEEE PIMRC, Cannes, France, Sep. 2008 for paper titled “Reducing Re-authentication Delays During UMTS-WLAN Vertical Handovers”.
- (2008) Best Paper Award of IEEE Broadnets, London, UK, Sep. 2008 for paper titled “A Cross-layer Scheduling Scheme for Wireless Multimedia Transmissions with Adaptive Modulation and Coding”.
- (2008) Best Paper Award of ChinaCom, Hangzhou, China, Aug. 2008 for paper titled “Energy-efficient Tree-based Message Ferrying Routing Schemes for Wireless Sensor Networks”.

- (2008) Best Paper (Runner-up) Award of Qshine, Hong Kong, China, July 2008, for paper titled “Directional Controlled Fusion in Wireless Sensor Networks”.

Academic and Technical Awards

- (2018) International Conference on Modeling, Analysis and Simulation of Wireless and Mobile Systems (MSWiM) Reginald Fessenden Award
- (2018) Distinguished Technical Achievement Recognition Award of IEEE Communications Society Green Communications & Computing Technical Committee
- (2017) Canadian Award for Telecommunications Research
- (2012) UBC Killam Research Prize
- (2011) IEEE Vancouver Section Centennial Award
- (1977-1981) NSERC Postgraduate Scholarship
- (1977) APEBC Gold Medal as head of graduating class in Faculty of Applied Science, UBC

Graduate Supervision:

- 35 PhD’s, 84 MASc/MEng’s completed
- 6 PhD’s, 3 MASc/MEng in progress

Selected Recent Research Projects (as Principal Investigator):

- "Next Generation Software-defined Intelligent Radio Access Network (SIRAN) – Leveraging Deep Learning for Autonomous and Intelligent Service Provisioning", NSERC Discovery Grant 2019-2024 \$455,000 total, (top award in 2019 NSERC Discovery Grant competition for electrical & computer engineering).
- “Smart Infrastructures for Radio Access as a Service (SIRAS) - Software-defined Wireless Access Networks for Future Generations”, NSERC Discovery Grant 2014-2019 and NSERC Discovery Accelerator Supplement Grant (2014-2017), \$525,000 total, (top award in 2014 NSERC Discovery Grant competition for electrical & computer engineering).
- “Cognitive platform for ubiquitous cloud-based gaming”, NSERC Strategic Project Grant, 2013-2017, \$495,000 total.
- “Wireless Sensor Networks for Video Surveillance”, BCIC NRAS Grant, 2011-2013, \$300,000 total.
- “Scalable detection of dense RFID tags”, NSERC I2I Grant, 2011-2012, \$125,000 total.
- Project Grants from NSERC DIVA Strategic Research Network – Developing Next Generation Intelligent Vehicular Networks and Applications, 2010-2015, \$ 939,500 total.
- “Context-aware Services in Next Generation Networks with Applications to Vehicular Networking Environments”, TELUS Grant, 2010-2015, \$400,000 total.
- “Next generation broadband wireless access employing fibre-connected massively distributed antennas”, NSERC Strategic Project Grant, \$687,000 total, 2010-2013.
- “Exploiting cognition and adaptivity in advanced wireless network system designs”, NSERC Discovery Grant, 2009-2014, \$280,000 total.
- “Distributed antenna system and signal processing platform for broadband wireless communications”, NSERC Research Tools and Instrument Grant, 2009-2010, \$150,000 total.
- “Enabling Technologies for Secure and Reliable Wireless Body Area Sensor Networks”, NSERC Strategic Project Grant, 2008-2011, \$615,100 total.
- “Vehicular Telematics over WiFi and WiMax Multihop Networks”, AUTO21 and Nokia Grants, 2008-2013, \$836,125 total.

Service to the Technical and Academic Community

Selected Editorships:

- Guest editor, IEEE Multimedia, special issue on “5G Multimedia Communications: Theory, Technology, and Application”, vol. 26, no. 1, Jan.-Mar. 2019.
- Technical Editor, IEEE Network (2018 –)
- Associate Editor, IEEE Transactions on Cloud Computing, (2017-)
- Guest editor, IEEE Wireless Communications Magazine, special issue on “Content-centric collaborative edge caching in 5G mobile Internet”, 2017.
- Guest editor, IEEE Transactions on Emerging Topics in Computing, special issue on “Green Computing in Internet of Things”, 2017.
- Guest editor, IEEE Communications Magazine, special issue on “Internet of Things/M2M from Research to Standards”, 2015.
- Area Editor, IEEE Transactions on Green Communications and Networking, (2016-).
- Associate Editor, IEEE Access, (2015-2017).
- Editor, IEE E JSAC Series on Green Communications and Networking, (2015-2016).

- Guest editor, IEEE Transactions on Emerging Topics in Computing, special issue on “Advances in Mobile Cloud Computing”, 2015.
- Guest editor, IEEE Communications Magazine, special issue on “Internet of Things/M2M from Research to Standards”, 2015.
- Guest editor, IEEE Network, special issue on “Unveiling 5G Wireless Networks: Emerging Research Advances, Prospects, and Challenges”, 2014.
- Guest editor, IEEE Systems Journal, special issue on “Cloud Computing on Multimedia”, vol. 8, no. 1, Mar. 2014.
- Associate Editor, IEEE CloudLink (2013 -2016), an e-publication of the IEEE Cloud Computing Initiative.
- Guest editor, IEEE Network, special issue on “Cloud-Assisted Mobile Computing and Pervasive Services”, vol. 27, no. 5, Sep. 2013.
- Guest Editor, The Computer Journal, Special Issue on “Green Mobile Networking and Communications”, vol. 56, no. 8, August 2013.
- Guest editor, IEEE Wireless Communications, special issue on “Mobile Cloud Computing”, vol. 20, no. 3, June 2013.
- Guest editor, ACM/Springer Mobile Networks and Applications, special issue on “Recent Advances on Communications and Networking in China”, vol. 18, no. 2, Apr. 2013.
- Guest editor, ACM Transactions on Embedded Computing Systems, special issue on “Embedded Systems for Interactive Multimedia Services”, vol. 12, no. 2, Feb. 2013.
- Guest editor, Computer Communications, special issue on “Smart and Interactive Ubiquitous Multimedia Services”, vol. 35, no. 15, Sep. 2012.
- Senior Editor, IEEE Wireless Communications Letters (2011–2017)
- Associate Editor, IET Networks (2011–)
- Guest editor, ACM Trans. Embedded Computing Systems, Special Issue on Embedded Systems for Interactive Multimedia Services, 2011.
- Guest editor, IEEE VTS Magazine, Special Issue on WWRF 24th meeting, 2010.
- Guest editor, ACM/Springer Mobile Networks and Applications, Special Issue on Ubiquitous Body Sensor Networks, 2010.
- Editor, Journal of Communications and Networks (2009–2013)
- Area Editor, Computer Communications (2008–)
- Associate Editor, IEEE Transactions on Computers (2007–2012)
- Guest editor, IEEE Communications Magazine, vol. 45, no. 9, Feature Topic on Technologies in Multihop Cellular Networks, Sep. 2007.
- Guest editor, Signal Processing, vol. 87, no. 12, Special Issue on Information Processing and Data Management in Wireless Sensor Networks, December 2007.
- Guest editor, Journal of Wireless Communications and Mobile Computing, vol. 5, no. 4, Special Issue on Radio Link and Transport Protocol Engineering for Future-Generation Wireless Mobile Data Networks, June 2005.
- Editor, IEEE Transactions on Wireless Communications (2002–2009).
- Associate Editor, IEEE Transactions on Vehicular Technology (2001–2008).
- Editor, IEEE Journal on Selected Areas in Communications — Wireless Communications Series (1999–2001).

Selected Conference Organization and Technical Program Committee Participation:

- General Co-Chair, Computing, Communications and IoT Applications Conference (ComComAp2019), Shenzhen, China, Oct. 2019.
- General Co-Chair, 15th IEEE International Conference on Green Computing and Communications (GreenCom), Atlanta, GA, July 2019.
- General Chair, 14th IEEE International Conference on Mobile Ad hoc and Sensor Systems (IEEE MASS), Orlando, FL, Nov. 2017.
- General Chair, 2nd International Conference on Smart Grid Inspired Future Technologies (SmartGIFT), London, UK, Mar. 2017.
- General Co-chair, IEEE International Conference on Green Computing and Communications (GreenCom), Chengdu, China, Dec. 2016.
- TPC Co-chair of Green Communications and Networks Track, 84th IEEE Vehicular Technology Conference (VTC2016-Fall), Montréal, Canada, Sep. 2016.
- General Co-chair, 1st International Conference on Smart Grid Inspired Future Technologies (SmartGIFT), Liverpool, UK, May 2016.
- TPC Co-chair of Communications and Networks Track, 29th IEEE Canadian Conference on Electrical and Computer Engineering (CCECE), Vancouver, Canada, May 2016.
- Honorary Chair, 6th International Conference on Game Theory for Networks (GamesNet), Kelowna, BC, May 2016.
- General Co-chair, 7th IEEE International Conference on Cloud Computing Technology and Science (CloudCom), Vancouver, BC, Nov. 2015.
- Tutorial Co-chair, 26nd IEEE International Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC), Hong Kong, China, Sep. 2015.

- General Chair, Workshop on Green Communications and Networks with Energy Harvesting, Smart Grids, and Renewable Energies at IEEE ICC 2014, London, UK, June 2015.
- General Chair, Workshop on Mobile Cloud and Virtualization at IEEE Infocom 2015, Hong Kong, China, Apr. 2015.
- General Co-chair, 8th International Conference on Frontier of Computer Science and Technology, (FCST), Chengdu, China, Dec. 2014.
- TPC Co-chair of IoT and Mobile on Cloud Track, 6th IEEE International Conference on Cloud Computing Technology and Science (CloudCom), Singapore, Dec. 2014.
- TPC Vice-chair, 1st IEEE International Conference on Smart Computing (SmartComp), Hong Kong, Nov. 2014.
- General Co-chair, 5th International Conference on Cloud Computing (CloudComp), Guilin, China, Oct. 2014.
- Honorary Program Chair, Computing, Communications and IT Applications Conference (ComComAp), Beijing, China, Oct. 2014.
- General Co-chair, 6th IEEE International Symposium on Wireless Vehicular Communications (WiVEC), Vancouver, BC, Sep. 2014.
- General Co-chair, International Conference on Heterogeneous Networking for Quality, Reliability, Security and Robustness (QShine), Rhodes, Greece, Aug. 2014.
- General Co-chair, International Conference on Internet of Vehicles (IOV), Beijing, China, Aug. 2014.
- General Chair, 9th International Conference on Testbeds and Research Infrastructures for the Development of Networks & Communities (TRIDENTCOM), Guangzhou, China, May 2014.
- General Chair, Workshop on Mobile Cloud Computing at Infocom 2014, Toronto, ON, Apr. 2014.
- General Co-chair, International Conference on Creative Converged IT (CCIT), Daejeon, Korea, Apr. 2014.
- TPC Co-chair of IoT and Mobile on Cloud Track, 5th IEEE International Conference on Cloud Computing Technology and Science (CloudCom 2013), Bristol, UK, Dec. 2013.
- General Chair, 4th International Conference on Cloud Computing (CloudComp 2013), Wuhan, China, Oct. 2013.
- General Co-chair, IEEE International Conference on Green Computing and Communications (GreenCom2013), Beijing, China, Aug. 2013.
- TPC Co-chair, 8th International Conference on Embedded and Multimedia Computing (EMC 2013), Taipei, Taiwan, Aug. 2013.
- General Co-chair, International Conference on Advanced IT, Engineering and Management (AIM-13), Seoul, Korea, Feb. 2013.
- General Co-chair, 12th IEEE International Conference on Computer and Information Technology (CIT 2012), Chengdu, China, Oct. 2012.
- General Co-chair, Workshop on Green Communications and Networking (GCN 2012) at ICC 2012, Ottawa, ON, Jun. 2012.
- General Co-chair, 6th FTRA International Conference on Future Information Technology (FutureTech 2012), Vancouver, BC, June 2012.
- General Co-chair, 3rd FTRA International Conference on Mobile, Ubiquitous, and Intelligent Computing (MUSIC 2012), Vancouver, BC, June 2012.
- General Co-chair, Workshop on “Communications and Control for Sustainable Energy Systems: Green Networking and Smart Grids” at Infocom 2012, Orlando, FL, Mar. 2012.
- TPC Co-chair of MAC and Cross-Layer Design Track, IEEE Wireless Communications and Networking Conference (WCNC 2012), Paris, France, Apr. 2012.
- General Co-chair, 3rd International Conference on Computer Science and its Applications (CSA 2011), Jeju, Korea, Dec. 2011.
- TPC Co-chair of Mobile Convergence Networks Track, International Conference on ICT Convergence (ICTC 2011), Seoul, Korea, Sep. 2011.
- General Co-chair, 6th International ICST Conference on Communications and Networking in China (Chinacom 2011), Harbin, China, Aug. 2011.
- General Chair, Workshop on Green Communications and Networking (GCN 2011) at Infocom 2011, Shanghai, China, Apr. 2011.
- General Co-Chair, 3rd International Workshop on Mobile IPv6 and Network-based Localized Mobility Management (MobiWorld 2011) at Infocom 2011, Shanghai, China, Apr. 2011.
- General Co-Chair, IEEE International Workshop on Advanced Sensor Integration Technology (ASIT 2010) at Globecom 2010, Miami, Florida, USA December 6-10, 2010.
- General Co-Chair, Fifth International Conference on Body Area Networks (Bodynets 2010), Corfu Island, Greece, Sep. 2010.
- General Chair, Second International Conference on Ad Hoc Networks (Adhocnets 2010), Victoria, BC, Aug. 2010.
- General Co-Chair, 5th International Conference on Embedded and Multimedia Computing (EMC 2010), Cebu, Philippines, Aug. 2010.
- General Chair, IASTED International Conference on Wireless Communications, Banff, Alberta, July 2010.

- General Co-Chair, 2nd IEEE Workshop on Cognitive Wireless Communications and Networking (CWCN) at Infocom 2010, San Francisco, CA, Apr. 2010.
- General Co-Chair, 2nd International Workshop on Mobile IPv6 and Network-based Localized Mobility Management (MobiWorld 2010), Las Vegas, NV, Jan. 2010.
- General Co-Chair, Workshop on Cognitive Wireless Communications and Networking (CWCN), St. Petersburg, Russia, Oct. 2009.
- General Co-chair, International Workshop on Advanced Sensor Integration Technology, Niagara Falls, ON, Sep. 2009.
- Local Chair, IEEE International Conference on Ultra-wideband, Vancouver, BC, Canada, Sep. 2009.
- General Co-chair, IEEE/IFIP International Conference on Embedded and Ubiquitous Computing, Vancouver, BC, Canada, Aug. 2009.
- General Co-chair, Joint Workshop on Cognitive Wireless Networks and Systems - Cognitive Radio Networking, Dresden, Germany, June 2009.
- General Co-chair, International Workshop on Pervasive Computing Systems and Infrastructures, Washington, DC, Apr. 2009.
- General Co-chair, Workshop of Mobile Computing, Wireless Communications, and U-Learning, International Computer Symposium, Tamkang, Taiwan, Dec. 2008.
- Sponsorship Co-chair, ACM Multimedia Conference, Vancouver, BC, Canada, Nov. 2008.
- TPC Chair, wireless networking and cognitive radio track, IEEE VTC-fall 2008, Calgary, AB, Sep. 2008.
- General Chair, Qshine 2007: International Conference on Heterogeneous Networking for Quality, Reliability, Security and Robustness, Vancouver, BC, Canada, Aug. 2007.
- Steering Committee Co-chair, International Workshop on Mobile IPv6 and Network-based Localized Mobility Management, Ilan, Taiwan, Sep. 2008.
- Chair, Next Generation Mobile Networks Symposium, International Wireless Communications and Mobile Computing Conference, Crete Island, Greece, Aug. 2008.
- Chair, Next Generation Mobile Networks Symposium, International Wireless Communications and Mobile Computing Conference, Honolulu, HI, Aug. 2007.
- Chair, Next Generation Mobile Networks Symposium, International Wireless Communications and Mobile Computing Conference, Vancouver, BC, July 2006.
- General Co-Chair, ACM/IEEE Symposium on Modeling, Analysis and Simulation of Wireless and Mobile Systems, Montreal, PQ, Oct. 2005.
- Technical Program Committee Vice-chair for networking, IEEE Wireless Communications and Networking Conference, New Orleans, Mar. 2005.
- Member of Technical Program Committee of over 100 international conferences; e.g., IEEE International Communications Conference, IEEE Global Telecommunications Conference, IEEE Vehicular Technology Conference, IEEE Wireless Communications and Networking Conference.

Selected Panel and Board Membership:

- Member, Board of Directors, NSERC DIVA Strategic Research Network (2010–2016)
- Overseas Academic Advisor, The Hong Kong Polytechnic University (2011-2017)
- Member, ITS Canada IntelliDrive Task Force (2009–2015)
- Member, Advisory Board, Security and Communication Networks Journal (2007–)
- Member, Advisory Board, International Journal of Parallel, Emergent and Distributed Systems (2007–)
- Panelist, NSF Grant Review Panel for Communications and Networking, 2002.
- Member, Board of Directors and Executive Committee, Canadian Institute for Telecommunications Research NCE (2000-02).
- Site Visit Committee, MASc/MEng program in Electrical and Computer Engineering, Ryerson University, ON, 2000.

Peer Reviews

- Research grant applications - Natural Sciences and Engineering Research Council (NSERC) of Canada, Science Council of British Columbia, National Science Foundation of USA, University Grants Council of Hong Kong, Austrian Science Foundation, Flemish Institute for the Promotion of Scientific-Technological Research in Industry, Singapore Agency for Science, Technology and Research.
- Canada Research Chair Program, Canada Foundation for Innovations, NSERC Steacie Fellowship, Canada Arts Council Killam Fellowship, NSERC Industrial Research Chair.
- Promotion and tenure cases – 16 cases at Virginia Tech., UWO, U. Ottawa, HKU, NUS, GMU, U. Toronto, U. Waterloo, City U. Hong Kong, NTU, U. Manitoba, U. Victoria.
- PhD external examiner for 13 PhD theses at Simon Fraser U., U. Victoria, U. Waterloo, U. Toronto, National U. of Singapore, U. Manitoba, McGill U., U. Ottawa.
- Reviewer for IEEE Transactions on Communications, Vehicular Technology, Networking, Multimedia, Journal on Selected Areas in Communications, Communications Letters; ACM Wireless Networks, Mobile Networks and Applications, Mobile Computing and Communications Review; IEE Proc. Computers and Digital Techniques,

Electronics Letters; Wireless Personal Communications; Computer Networks; Journal of Communications and Networks; International Journal of Parallel and Distributed Systems; European Transactions on Telecomm.; The Computer Journal

- Reviewer for numerous conference submissions.

Refereed Publications (bold type face indicates more than 50 citations)

Archival Journal Papers (Selected from 552 Papers Accepted or Published)

1. **M.G. Khoshkholgh** and V.C.M. Leung, "Delay Analysis of Spatially-Coded MIMO-ZFBFwith Retransmissions in Random Networks", *IEEE Trans. Vehicular Technology*, vol. 68, no. 3, pp. 2652-2667, Mar. 2019.
2. L. Sun, R. Wang, W. Wang and V.C.M. Leung, "Artificial-Noise-Aided Nonlinear Secure Transmission for Multiuser Multi-Antenna Systems with Finite-Rate Feedback", *IEEE Trans. Communications*, vol. 67, no. 3, pp. 2274-2293, Mar. 2019.
3. J. Guo, N. Zhao, Z. Yang, F.R. Yu, Y. Chen and V.C.M. Leung, "Proactive Jamming Towards Interference Alignment Networks: Beneficial and Adversarial Aspects", *IEEE Systems Journal*, vol. 13, no. 1, pp. 412-423, Mar. 2019.
4. W. Bai, T. Yao, H. Zhang and V.C.M. Leung, "Research on Channel Power Allocation of Fog Wireless Access Network Based on NOMA", *IEEE Access*, vol. 7, no. 1, pp. 32867-32873, Mar. 2019.
5. **L. Liao**, V.C.M. Leung and M. Chen, "An Efficient and Accurate Link Latency Monitoring Method for Low Latency Software Defined Networks", *IEEE Trans. Instrumentation & Measurement*, vol. 68, no. 2, pp. 377-391, Feb. 2019.
6. X. Wang, Z. Ning, X. Hu, L. Wang, B. Hu, J. Cheng and V.C.M. Leung, "Optimizing Content Dissemination for Real-time Traffic Management in Large-scale Internet of Vehicle Systems", *IEEE Trans. Vehicular Technology*, vol. 68, no. 2, pp. 1093-1105, Feb. 2019.
7. **L. Chen**, L. Ma, Y. Xu and V.C.M. Leung, "Hypergraph Spectral Clustering Based Spectrum Resource Allocation for Dense NOMA-HetNet", *IEEE Wireless Communications Letters*, vol. 8, no. 1, pp. 305-306, Feb. 2019.
8. Y. Zhou, H. Zhou, F. Zhou, Y. Wu and V.C.M. Leung, "Resource Allocation for A Wireless Powered Integrated Radar and Communication System", *IEEE Wireless Communications Letters*, vol. 8, no. 1, pp. 253-256, Feb. 2019.
9. **Y. Dong**, M.J. Hossain, J. Cheng and V.C.M. Leung, "Robust Energy Efficient Beamforming in MISOME-SWIPT Systems with Proportional Secrecy Rate", *IEEE Journal on Selected Areas in Communications*, vol. 37, no. 1, pp. 202-215, Jan. 2019.
10. **M. Liu**, F.R. Yu, Y.-L. Teng, V.C.M. Leung and M. Song, "Distributed Resource Allocation in Blockchain-based Video Streaming Systems with Mobile Edge Computing", *IEEE Trans. Wireless Communications*, vol. 18, no. 1, pp. 695-708, Jan. 2019.
11. J. Zhou, D. Tian, Y. Wang, Z. Sheng, X. Duan, and V.C.M. Leung, "Reliability-optimal Computation Offloading for Cooperative Vehicle Infrastructure Systems", *IEEE Signal Processing Letters*, vol. 26, no. 1, pp. 104-108, Jan. 2019. **F. Guo**, H. Zhang, X. Li, H. Ji and V.C.M. Leung, "An Efficient Computation Offloading Management Scheme in the Densely Deployed Small Cell Networks with Mobile Edge Computing", *IEEE/ACM Trans. Networking*, vol. 26, no. 6, pp. 2651-2664, Dec. 2018.
12. **L. Yang**, H. Zhang, X. Li, H. Ji and V.C.M. Leung, "A Distributed Computation Offloading Strategy in Small Cell Networks Integrated with Mobile Edge Computing", *IEEE/ACM Trans. Networking*, vol. 26, no. 6, pp. 2762-2773, Dec. 2018.
13. **Y. Liu**, F.R. Yu, X. Li, H. Ji and V.C.M. Leung, "Distributed Resource Allocation and Computation Offloading in Fog and Cloud Networks with Non-Orthogonal Multiple Access", *IEEE Trans. Vehicular Technology*, vol. 67, no. 12, pp. 12137-12151, Dec. 2018.
14. X. Liu, N. Zhao, F.R. Yu, Y. Chen, J. Tang and V.C.M. Leung, "Cooperative Video Transmission Strategies via Caching in Small-Cell Networks", *IEEE Trans. Vehicular Technology*, vol. 67, no. 12, pp. 12204-12217, Dec. 2018.
15. C. Guo, **A. Aljalai**, C. Feng, L. Zhao, V.C.M. Leung and R. Ward, "Compute-and-Forward for Uplink Non-Orthogonal Multiple Access", *IEEE Wireless Communications Letters*, vol. 7, no. 6, pp. 986-989, Dec. 2018.
16. **W. Cai**, **Z. Wang**, J.B. Ermst, **Z. Hong**, C. Feng and V.C.M. Leung, "Decentralized Applications: The Blockchain-Empowered Software System", *IEEE Access*, vol. 6, no.1, pp. 53019-53033, Dec. 2018.
17. H. Zhou, M. Ruan, **C. Zhu**, V.C.M. Leung, S. Xu and C. Huang "A Time-ordered Aggregation Model-based Centrality Metric for Mobile Social Networks", *IEEE Access*, vol. 6, no. 1, pp. 25588-25599, Dec. 2018.
18. **Z. Wang**, L. Mei, X. Wang, X. Sha and V.C.M. Leung, "On the Performance of Hybrid Carrier System Based on WFRFT with Power Allocation", *IEEE Access*, vol. 6, no. 1, pp. 29231-29240, Dec. 2018.
19. **H. Ko**, S. Pack and V.C.M. Leung, "Mobility-Aware Vehicle-to-Grid Control Algorithm in Microgrids", *IEEE Trans. Intelligent Transportation Systems*, vol. 19, no. 7, pp. 2165-2174, July 2018.
20. **F.-H. Tseng**, X. Wang, L.-D. Chou, H.-C. Chao and V.C.M. Leung, "Dynamic Resource Prediction and Allocation for Cloud Data Center using Multi-Objective Genetic Algorithm", *IEEE Systems Journal*, vol. 12, no. 2, pp. 1688-1699, Jun. 2018.
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2. W. Cai, C. Zhu, Y. Chi and V.C.M. Leung, "Balancing Cloud and Mobile Terminal: An Empirical Study on Decomposed Cloud Gaming", IEEE CloudCom, Hong Kong, China, Dec. 2017.
3. M.Z. Hassan, V.C.M. Leung, M.J. Hossain and J. Cheng, "Delay-QoS Aware Adaptive Resource Allocation for Free Space Optical Fronthaul Networks", IEEE Globecom, Singapore, Dec. 2017.
4. M.G. Khoshkholgh and V.C.M. Leung, "Impact of LOS/NLOS Propagation on the Coverage Performance of Multi-Stream MIMO-ZFBF Cellular Downlink", IEEE VTC2017-fall, Toronto, ON, Sep 2017.
5. A.N. Aljalaj, C. Feng, V.C.M. Leung and R. Ward, "Eliminating Pilot Contamination Using Dual Pilot Sequences in Massive MIMO", IEEE VTC2017-fall, Toronto, ON, Sep 2017.
6. X. Li, X. Wang, K. Li and V.C.M. Leung, "Collaborative Hierarchical Caching for Traffic Offloading in Heterogeneous Networks", IEEE ICC, Paris, France, May 2017.
7. X. Li, P. Wu, X. Wang, K. Li, Z. Han and V.C.M. Leung, "Collaborative Hierarchical Caching in Cloud Radio Access Networks", Workshop on Integrating Edge Computing, Caching, and Offloading in Next Generation Networks (IECCO) at IEEE Infocom, Atlanta, GA, May 2017.
8. Z. Tan, F.R. Yu, X. Li, H. Ji and V.C.M. Leung, "Virtual Resource Allocation for Heterogeneous Services in Full Duplex-enabled Small Cell Networks with Cache and MEC", PERFECTO: Performance and Fault Management in Cellular Networks Workshop at IEEE Infocom, Atlanta, GA, May 2017.
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11. M.G. Khoshkholgh, K. Navaie, K.G. Shin and V.C.M. Leung, "Provisioning Statistical QoS for Coordinated Communications with Limited Feedback", IEEE Globecom, Washington, DC, Dec. 2016.
12. Y. Zhou, Z. Sheng, V.C.M. Leung and P. Servati, "Beacon-based Opportunistic Scheduling in Wireless Body Area Network", IEEE Annual International Conference of the Engineering in Medicine and Biology Society (EMBC'16), Orlando, FL, Aug. 2016.
13. J. Su, Z. Sheng, D. Hong and V.C.M. Leung, "An Efficient Sub-Frame Based Tag Identification Algorithm for UHF RFID Systems", IEEE ICC 2016, Kuala Lumpur, Malaysia, May 2016.

14. C. Mahapatra, Z. Sheng and V.C.M. Leung, "Energy-efficient and Distributed Data-aware Clustering Protocol for the Internet-of-Things", IEEE CCECE 2016, Vancouver, BC, May 2016.
15. P. TalebiFard, S. Preda, C. Truchan, S. Krishnan and V.C.M. Leung, "Simplified Wireless Connectivity for 5G Machine Type Communication", MobiWorld Workshop at IEEE Infocom, San Francisco, CA, Apr. 2016 (Best Paper Award).
16. M.Z. Hassan, V.C.M. Leung, M.J. Hossain and J. Cheng, "Effective Capacity Performance of Coherent POLMUX OWC With Power Adaptation", IEEE Globecom, San Diego, CA, Dec. 2015.
17. N. Al-Rousan, W. Cai, H. Ji and V.C.M. Leung, "DCRA: Decentralized Cognitive Resource Allocation model for Game as a Service", IEEE CloudCom, Vancouver, BC, Nov.-Dec. 2015.
18. C. Zhu, X. Li, H. Ji and V.C.M. Leung, "Towards Integration of Wireless Sensor Networks and Cloud Computing", IEEE CloudCom, Vancouver, BC, Nov.-Dec. 2015.
19. **N. Giang, M. Blackstock, R. Lea, V.C.M. Leung, "Developing IoT Applications in the Fog: a Distributed Dataflow Approach," 5th International Conference on Internet of Things (IoT2015), Seoul, Korea, Oct. 2015.**
20. X. Hu, N. Giang, J. Shen, V.C.M. Leung and X. Li, "Towards Mobility-as-a-Service to Promote Smart Transportation", IEEE VTC-fall, Boston, MA, Sep. 2015.
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30. L. Liao, V.C.M. Leung and P. Nasiopoulos, "DFVisor: Scalable Network Virtualization for QoS Management in Cloud Computing", International Conference on Network and Service Management (CNSM), Rio de Janeiro, Brazil, Nov. 2014.
31. Z. Hong, W. Cai, X. Wang and V.C.M. Leung, "Reputation-based Multiplayer Fairness for Ad-hoc Cloudlet-assisted Cloud Gaming System", International Conference on Smart Computing (SmartComp), Hong Kong, China, Nov. 2014. (Best Paper Award)
32. X. Hu, J.-Q. Deng, W. Hu, G. Fotopoulos, E.C.-H. Ngai, Z. Sheng, M. Liang, X. Li, V.C. M. Leung, S. Fels, "SAFeDJ Community: Situation-Aware In-Car Music Delivery for Safe Driving", ACM Mobicom, Maui, HI, Sep. 2014.
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38. H. Nicanfar, P. Jokar and V.C.M. Leung, "Smart Grid Authentication and Key Management for Unicast and Multicast Communications", in Proc. IEEE PES Innovative Smart Grid Technologies (ISGT), Perth, Australia, Nov. 2011.
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47. **A. Al Shidhani** and V.C.M. Leung, “Reducing Re-authentication Delays During UMTS-WLAN Vertical Handovers”, IEEE PIMRC, Cannes, France, Sep. 2008 (Best Paper Award, networking track).
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55. **Q. Pang, S.C. Liew** and V.C.M. Leung, “A Rate Adaptation Algorithm for IEEE 802.11 WLANs Based on MAC-Layer Loss Differentiation”, IEEE BroadNets2005, Boston, MA, Oct. 2005.
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2. E.T. Lau, M.K.K. Chai, Y. Chen, O. Jung, V.C.M. Leung, K. Yang, S. Bessler, J. Loo, T. Nakayama (Ed.): *Smart Grid Inspired Future Technologies*, Lecture Notes of the Institute for Computer Sciences, Social Informatics and Telecommunications Engineering, vol. 203, Springer, 2017 (ISBN 978-3-319-61812-8).
3. J. Hu, V.C.M. Leung, K. Yang, Y. Zhang, J. Gao, S. Yang (Ed.): *Smart Grid Inspired Future Technologies*, Lecture Notes of the Institute for Computer Sciences, Social Informatics and Telecommunications Engineering, vol. 175, Springer, 2017 (ISBN 978-3-319-47728-2).
4. F.R. Yu and V.C.M. Leung (Ed.): *Advances in Mobile Cloud Computing Systems*, CRC Press, Dec. 2015 (ISBN 978-1-4987-1509-6).

5. **V.C.M. Leung, R.X. Lai, M. Chen and J. Wan (Ed.): *Cloud Computing*. Lecture Notes of the Institute for Computer Sciences, Social Informatics and Telecommunications Engineering, vol. 142, Springer, May 2015 (ISBN 978-3-319-16049-8).**
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2. X. Li, X. Wang and V.C.M. Leung, "Mobile Edge Caching in HetNets", book chapter in *Encyclopedia of Wireless Networks*, X. Shen, X. Lin and K. Zhang, ed., Springer, 2018.
3. Y. Liu, F.R. Yu, X. Li, H. Ji, H. Zhang and V.C.M. Leung, "Joint Caching, Computing, and Routing for Video Transcoding in Wireless Networks", book chapter in *Encyclopedia of Wireless Networks*, X. Shen, X. Lin and K. Zhang, ed., Springer, 2018.
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Total Number of Publications

Archival Journal Papers	Refereed Conference Papers	Book Titles	Book Chapters
552	671	14	43

Impact of Publications (according to Google Scholar)

No. of citations (all)	h-index (all)	i10-index (all)	No. of citations (since 2014)	h-index (since 2014)	i10-index (since 2014)
38307	76	533	23502	57	384