

Victor O.K. Li

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Education

- ScD, Electrical Engineering and Computer Science, MIT, Jan. 1981.
- EE, Electrical Engineering and Computer Science, MIT, Jan. 1980.
- SM, Electrical Engineering and Computer Science, MIT, Jan. 1979.
- SB, Electrical Engineering and Computer Science, MIT, June 1977.

Professional Experience

- [9/1997 –] Chair Professor of Information Engineering, Department of Electrical and Electronic Engineering, University of Hong Kong, Hong Kong.
- [3/2017 – 6/2023] Cheng Yu-Tung Professorship in Sustainable development, University of Hong Kong, Hong Kong.
- [9/1997 – 6/2004] Managing Director, Versitech Ltd., the University of Hong Kong technology transfer company.
- [7/2004 –] Director, Versitech Ltd., the University of Hong Kong technology transfer company.
- [1/2015 –] Co-Founder and Chairman of the Board of Directors, Fano Labs Ltd. (fano.ai)
- [1/2013 –] Director, HKU-Cambridge Clean Energy and Environment Research Platform (CEERP)
- [7/2018 –] Director, HKU-Cambridge AI to Advance Well-being and Society Research Platform (AI-WiSe)
- [1/2019 –] Director, HKU AI to Advance Well-being and Society Research Lab (HKU-AI WiSe)
- [1/2023 –] Director, HKU-Cambridge AI for Neuro-disease Research Platform (AI-NeuroD)
- [3/2012 – 2/2018] Head, Department of Electrical and Electronic Engineering, University of Hong Kong, Hong Kong.
- [5/2007 – 6/2012] Associate Dean of Engineering (Research), University of Hong Kong, Hong Kong.
- [3/2010 – 2/2012] Acting Head, Department of Electrical and Electronic Engineering, University of Hong Kong, Hong Kong.
- [2/1981 – 8/1997] Department of Electrical Engineering, University of Southern California (USC), Los Angeles, California, USA. (Assist. Prof. 2/81 – 8/87, Assoc. Prof. 9/87 – 8/92, Prof. 9/92 – 8/97, Communications Group Leader 10/88 – 7/91.)
- [9/1982 – 8/1997] Communication Sciences Institute, USC (Director 6/93 – 8/94, 9/95 – 8/97, Co-Director 7/91 – 5/93.)
- [2/1979 – 2/1981] Research Assistant, Lab. for Information and Decision Systems, MIT.
- [9/1977 – 2/1979] Teaching Assistant, Department of Electrical Engineering and Computer Science, MIT.
- [9/1975 – 5/1976] New York City Urban Fellow, Office of Programs and Policies, New York Police Department, New York, NY.

Research Interests

Artificial Intelligence for Social Good; AI and Medicine, Clean Energy and Environment; Big Data; Optimization Techniques.

Honors and Awards

- Top 1% Most Cited Scholar, Clarivate Analytics Essential Science Indicators, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023.
- IEEE Hong Kong Section 50th Anniversary Distinguished Contribution Award, 2022 (For distinguished contributions to increase the knowledge and make advancement of an EEE area, and also make significant contributions to IEEE and IEEE Hong Kong).
- US National Academy of Medicine Healthy Longevity Catalyst Award, 2023 (Victor is PI of the winning team, with Jacqueline CK Lam, et al.).
- US National Academy of Medicine Healthy Longevity Catalyst Award, 2022 (Victor is PI of the winning team, with Jacqueline CK Lam, Jocelyn Downey, and Illana Gozes).
- US National Academy of Medicine Healthy Longevity Catalyst Award, 2021 (Victor is PI of the winning team, with Jacqueline CK Lam, Jocelyn Downey, Illana Gozes, Yang Han, and Tushar Kaistha).
- IEEE Computational Intelligence Society Outstanding Organization Award, 2024 (Fano Labs Ltd., Victor is Chairman of the Board and Co-founder).
- NEXX Sustainability and ESG Award 2024 (Fano Labs Ltd., Victor is Chairman of the Board and Co-founder).
- Best Paper Award, EURASIP Journal on Wireless Communications and Networking (Springer) 2022, paper co-authored with PhD student Yijie Mao and collaborator Bruno Clerckx.
- Forbes Asia 100 to Watch, Aug 2022 (Fano Labs Ltd., Victor is Chairman of the Board and Co-founder).
- Top 20 Greater Bay Area FinTech Flying Fish Enterprises, April, 2022 (Fano Labs Ltd., Victor is Chairman of the Board and Co-founder).
- World Innovation Technology and Services Alliance (WITSA) 2021 Global ICT Excellence Award, Aug 2022 (Fano Labs Ltd., Victor is Chairman of the Board and Co-founder).
- Winner, Business Service - Finance & Accounting, Asia Pacific Information and Communication Technology Alliance (APICTA) Awards, 2021 (Fano Labs Ltd., Victor is Chairman of the Board and Co-founder).
- Winner, Technology - AI, Asia Pacific Information and Communication Technology Alliance (APICTA) Awards, 2021 (Fano Labs Ltd., Victor is Chairman of the Board and Co-founder).
- Winner, HKMA Global RegTech Challenge, 2021 (Fano Labs Ltd., Victor is Chairman of the Board and Co-founder).
- Top Five Winner of Jumpstarter 2020 (2000+ applications worldwide), and Winner of Deep Tech Startup (500+ companies worldwide) (Fano Labs Ltd., Victor is Chairman of the Board and Co-founder).
- Grand Award, FinTech, Hong Kong ICT Awards, 2020 (Fano Labs Ltd., Chairman of the Board and Co-founder).
- Gold Award, Regulatory Technology and Risk Management, Hong Kong ICT Awards, 2020 (Fano Labs Ltd., Chairman of the Board and Co-founder).
- Visiting Professor, Department of Computer Science and Technology, University of Cambridge, April 2019 – August 2019; June 2023.
- Life Fellow, Clare Hall, University of Cambridge, Oct 2019 –
- Facebook Low Resource Neural Machine Translation Award, 2018.
- Fellow, Hong Kong Academy of Engineering Sciences, Dec 2013.

- Fellow, Institute of Electrical and Electronic Engineers (IEEE), Jan 1 1992. (Citation: For contributions to the design and analysis of communications networks.)
- Bronze Bauhinia Star, Government of the Hong Kong Special Administrative Region, China, July 1 2002. (Citation: For outstanding contributions to the Electronic Engineering and IT fields in Hong Kong.)
- Outstanding Research Student Supervisor Award, University of Hong Kong, 2009.
- Senior Visiting Fellow in Communications, Royal Academy of Engineering, United Kingdom, Nov 2004.
- Innovation and Creativity Award, 2019 Hong Kong Awards for Industries (HKAI) (Fano Labs Ltd., Victor is Chairman of the Board and Co-founder).
- 2019 Deloitte Technology Fast & Rising Star Program Award (Fano Labs Ltd., Chairman of the Board and Co-founder).
- Grand Award, Smart Business, Hong Kong ICT Awards, 2018 (Fano Labs Ltd., Chairman of the Board and Co-founder).
- Winner, Business Services - ICT Solutions, Asia Pacific Information and Communication Technology Alliance (APICTA) Awards, 2018 (Fano Labs Ltd., Chairman of the Board and Co-founder).
- Second Place in the EmotiW 2018 Challenge, 20th ACM International Conference on Multimodal Interaction, Boulder, Colorado, USA, Oct 2018.
- Bronze Award, Best Innovation and Research, Hong Kong ICT Awards, 2007.
- Chang Jiang Chair Prof., Tsinghua University, Beijing, China, April 2006 – March 2009.
- Tsinghua Guest Chair Prof. of Wireless Communication and Networking, Tsinghua University, Beijing, China, March 2009 – June 2012.
- Visiting Chair Prof., National Taiwan University, Taipei, Taiwan, May 2010 – July 2010.
- Adjunct Prof., Tsinghua University, Beijing, China, April 2005 – April 2006.
- Adjunct Prof., Harbin Institute of Technology, Harbin, China, April 2004 – April 2008.
- Croucher Foundation Senior Research Fellowship, 2002.
- Outstanding Researcher Award, University of Hong Kong, 2003.
- KC Wong Education Foundation Lectureship, 2003.
- KICS Appreciation Award, Korean Institute of Communication Science, March 2002.
- Fellow, Hong Kong Institution of Engineers (HKIE), 1998.
- Fellow, Institute for the Advancement of Engineering 1984.
- Best Paper Award, IEEE/WIC/ACM International Conference on Web Intelligence, Atlanta, Georgia, USA, Nov. 2013.
- Best Paper Award, Evolutionary Combinatorial Optimization and Metaheuristics Track, ACM Genetic and Evolutionary Computation Conference, Philadelphia, USA, July 2012.
- Best Paper Award, Mobile Applications and Services Track, IEEE Vehicular Technology Conference, Spring 2011, Budapest, Hungary, May 2011.
- Best Paper Award, Next Generation Networking and Internet Symposium, IEEE International Conference on Communications, Cape Town, South Africa, May 2010.
- Best Paper Award, 3rd International Conference on Communications & Networking in China, Hangzhou, China, Aug 2008.
- Best Research Paper Award, University of Southern California, 1997. (Co-authored with PhD student.)
- Best Student Paper Award, 4th Annual NetWorld+Interop Engineer Conference, Las Vegas, Nevada, May 1997. (Co-authored with faculty colleague and PhD students.)
- ICCCN Leadership Award, September 1995.
- NASA Technical Brief Award, 1986.
- IEEE Service Award 1984, 1985.
- US National Science Foundation Research Initiation Award 1982.

- New York City Urban Fellow 1975-76.
- Eta Kappa Nu
- Tau Beta Pi
- Registered Professional Engineer (RPE), Engineers Registration Board, Hong Kong

Keynote/Plenary/Distinguished Lectureships

1. Distinguished Speaker, HKETA and HKTDC Symposium on Innovation & Technology, Hong Kong, Oct 13 2023.
2. Keynote Speaker, 32nd International Joint Conference on Artificial Intelligence (IJCAI) Workshop on Bridge-AI: from Climate Change to Health Equity, Macau, Aug 2023.
3. Honorary Speaker, S.H. Ho Memorial Symposium on Artificial Intelligence: Technological and Society Impacts, S.H. Ho College, the Chinese University of Hong Kong, Hong Kong, China, Jan 2022.
4. Guest of Honour and Speaker, The Institution of Engineering and Technology (IET) 150th Anniversary Events, Hong Kong Science and Technology Park, Hong Kong, Aug 14 2021.
5. Distinguished Speaker, Department of Computer Science, University of Texas at Dallas, USA, Feb 2020.
6. Keynote Speaker, Finland-HK Summit on AI and 5G for Smart and Sustainable Cities, Hong Kong, China, Mar 2019.
7. Keynote Speaker, Hong Kong International Artificial Intelligence Summit, Co-organized by Tsinghua University, Beijing, and the University of Hong Kong, Hong Kong, China, Nov 2018.
8. Keynote Speaker, ACM CoNext Student Workshop, Seoul, Korea, Dec 2017.
9. Keynote Speaker, HKIE Electrical Engineering Symposium, Hong Kong, China, Oct. 2015.
10. Keynote Speaker, Workshop on Computational Intelligence 2014, Hong Kong, China, Dec. 2014.
11. Keynote Speaker, SOCIAL MEDIA 2013, Hong Kong, China, August 2013.
12. Keynote Speaker, Workshop on Advanced Wireless Communications, Chengdu and Nanjing, China, June 2013.
13. Keynote Speaker, 2013 IEEE Wireless Communications and Networking Conference (WCNC 2013), Shanghai, China, April 2013.
14. Keynote Speaker, MIT South China Seminar on Social Network: Technologies, Economics and Investment, Shenzhen, China, March 2012.
15. Keynote Speaker, International Conference on Science and Engineering, Yangon, Myanmar, Dec 2011.
16. Keynote Speaker, Huawei-Hong Kong Innovation Workshop, Shenzhen, China, Oct 2009.
17. Keynote Speaker, IASTED International Conference on Networks and Communication Systems (NCS-2006), Chiang Mai, Thailand, March 2006.
18. Keynote Speaker, IEE Mobility Conference 2005, Guangzhou, China, November 2005.
19. Keynote Speaker, BCS/CIE/IEE/IEEE First International Workshop on Network Architecture and Service Models, Shanghai, China, November 2005.
20. 30th IEEE Kansai Section Meeting Lecturer, Kansai, Japan, January 2005.
21. Distinguished Lecturer, University of London, Queen Mary, November 2004.
22. EE & CS Distinguished Lecturer, Department of Electronic Engineering, University of London, Queen Mary, November 2004.
23. Invited Speaker, IEEE Communications Society 50th Anniversary Panel, IEEE Globecom 2002, Taipei, Taiwan, Nov 2002.
24. Invited Distinguished Speaker, CCL Technology Forum, Industrial Technology Research Institute, Hsinchu, Taiwan, Nov 2002.
25. Keynote Speaker, Computer Associates Expo, Hong Kong, Aug. 2002.

26. Invited Distinguished Speaker, IEEE Symposium on Ad Hoc Mobile Wireless Networks, held in conjunction with IEEE Globecom 2001, San Antonio, Texas, USA, November 2001.
27. Keynote Speaker, IEEE International Conference of Communications, Circuits, and Systems, Chengdu, China, June 2002.
28. Keynote Speaker, Asia Pacific Conference on Multimedia Technology and Applications, Kaohsiung, Taiwan, Dec 2000.
29. Invited Speaker, International Computer Symposium, Chia-Yi, Taiwan, Dec 2000.
30. Distinguished Visitor, IEEE Computer Society, September 1 1998 - December 31 1999.
31. Plenary Speaker, IEEE TENCON, Cheju, Korea, Sept. 1999.
32. Keynote Speaker, IEE/CIC/IEEE International Conference on Personal, Mobile and Spread Spectrum Communications, June 1998.
33. Keynote Speaker, Multimedia Technology and Application Symposium, Taiwan, Dec 1997.
34. Distinguished Lecturer, University of California at San Diego, Calif., USA, Aug. 1997.
35. Keynote Speaker, IEE/CIC/IEEE International Conference on Personal, Mobile and Spread Spectrum Communications, Dec. 1996.
36. Keynote Speaker, Multimedia Technology and Applications Workshop, Taiwan, Dec 1996.
37. Honorary Speaker, IEE Annual General Meeting, Hong Kong, May 1995.
38. Distinguished Lecturer, National Science Council, Taiwan, July 1993.
39. Distinguished Lecturer, California Polytechnic Institute, Pomona, Calif., USA, Feb. 1990.

Corporate Boards

- [1/2000 –] Independent Non-Executive Director, Sunevision Holdings Ltd., listed on the Hong Kong Stock Exchange.
- [6/2013 – 9/2015] Independent Non-Executive Director, Anxin-China Holdings Ltd., listed on the Hong Kong Stock Exchange.
- [8/2008 – 7/2012, 9/2012 – 5/2013] Independent Non-Executive Director, China.com Inc., listed on the Hong Kong Stock Exchange.
- [7/2004 –] Director, Versitech Ltd.
- [9/1997 – 6/2004] Managing Director, Versitech Ltd.
- [1/2015 –] Co-Founder and Chairman of the Board of Directors, Fano Labs Ltd. (fano.ai)
- [1/2001 – 6/2006] Chairman of the Board, Mobile Commerce Online Ltd.
- [8/1998 – 2002] Director, IAR Ltd.
- [9/2000 – 2006] Director, i-SSL Ltd.
- [9/2000 – 6/2004] Director, HKU Enterprises Ltd.

Research Grants and Contracts Awarded

1. Research Grants Council, Hong Kong, Theme-based Research Scheme, “Big data for smart and personalized air pollution monitoring and health management,” Jan 1 2018 – Sep 30 2024, Grant No. T41-709/17-N, HKD 50 million, Project Coordinator and Principal Investigator.
2. US National Academy of Medicine Healthy Longevity Catalyst Award, 2021, “A directed graph neural network-based drug-repurposing approach to identify a lead combination of effective drugs for Alzheimer's Disease,” Oct 11 2021 – Oct 10 2022, HKD478,528, Principal Investigator.
3. US National Academy of Medicine Healthy Longevity Catalyst Award, 2022, “AI-driven causal model to determine upstream definitive genetic markers for early detection of Late Onset Alzheimer’s Disease,” Oct 6 2022 – Oct 5 2023, HKD478,528, Principal Investigator.
4. US National Academy of Medicine Healthy Longevity Catalyst Award, 2023, “An Integrated Graph Convolutional Network Multimodal Platform (GCN-MP) for Early Detection and Prediction of Late Onset Alzheimer’s Disease,” Oct 11 2023 – Oct 10 2024, HKD478,528, Principal Investigator.

5. Innovation and Technology Fund, Hong Kong, “IoT/Smart City: Communications networks and data analytics for Intelligent Transportation Systems,” June 1 2017 to Dec 31 2019, Grant No. ITS/447/16, HKD 9.73 million, Co-Principal Investigator.
6. Innovation and Technology Fund, Hong Kong, “Multilingual artificial intelligence customer service system,” Project Reference: S/E102/16, 1 Sept. 2017 to 31 Aug. 2019, HK\$ 2.424 million, Deputy Project Coordinator (Project awarded to Accosys Ltd., renamed Fano Labs Ltd., Victor is Co-founder and Chairman of the Board.)
7. Ministry of Science and Technology of the People’s Republic of China, “Research on key technology, core equipment and engineering demonstration of distributed renewable AC and DC energy generation,” July 1 2017 to Dec 31 2020, Grant No. 2017YFB0903200, RMB 62.56 million, Leader of HKU Team.
8. University of Hong Kong Development Fund, “Initiative on Clean Energy and Environment,” July 1 2008 – June 30 2015, 31 million, Principal Investigator and Project Convenor (since 2012).
9. University of Hong Kong Development Fund, “HKU-Cambridge Clean Energy and Environment Research Platform,” May 1 2015 – June 30 2020, 6.7 million, Principal Investigator and Platform Director.
10. Research Grants Council, Hong Kong, Theme-based Research Scheme, “Sustainable power delivery structures for high renewables,” Jan 1 2015 – Dec 31 2019, Grant No. T23-701/14-N, HKD 47.12 million, Co-Principal Investigator.
11. Research Grants Council, Hong Kong, “Building causal inference into Bayesian Deep-learning: An investigation of the causal relationship between environmental regulations and their regulatory effects in Beijing, China,” June 1 2021 – May 31 2024, Grant No. 17620920, HKD 993,000, Co-Principal Investigator.
12. Research Grants Council, Hong Kong, “Pricing and allocation strategies for sponsored viral marketing in online social networks,” Sep 1 2016 – Aug 31 2019, Grant No. 17264116, HKD 482,605, Principal Investigator.
13. Research Grants Council, Hong Kong, “Real-time power balancing in electrical grids with vehicle-to-grid technology,” Jan 1 2017 – Dec 31 2019, Grant No. 17261416, HKD 675,647, Co-Principal Investigator.
14. MIT Greater China Fund for Innovation, “Cognitive and big data analytics driven networks,” Dec 31 2015 – Aug 31 2017, USD 24,500, Co-Principal Investigator.
15. PROCORE-France/HK Joint Research Scheme, “Content delivery in future wireless heterogeneous networks: Caching, Computation, and Cooperation (C4-Net),” Jan 1 2016 – Dec 1 2017, HKD 89,600, Co-Principal Investigator.
16. Research Grants Council, Hong Kong, “A robust link pricing theory for combating bufferbloat,” Jan 1 2015 – Dec 31 2017, Grant No. 17204614, HKD 500,000, Co-Principal Investigator.
17. Research Grants Council, Hong Kong, “Technology empowerment and household energy consumption behaviors in Hong Kong: An interdisciplinary study,” Jan 1 2015 – Dec 31 2017, HKD 1,390,000, Co-Principal Investigator.
18. Microsoft Research Asia, Beijing, “Air quality monitoring with deep learning on spatio-temporal heterogeneous big data,” USD 20,000, June 1 2015 – May 31 2016, Principal Investigator.
19. Microsoft Research Asia, Beijing, “A big data stream processing solution for hidden causality detection of urban dynamics,” USD 20,000, March 1 2014 – Feb 28 2015, Principal Investigator.
20. Microsoft Windows Azure Platform Research Pass, “A big data stream processing solution for hidden causality detection of urban dynamics,” USD 40,000, March 1 2014 – Feb 28 2015, Principal Investigator.

21. Research Grants Council, Hong Kong, Collaborative Research Fund, "Smart Grid," March 1 2011 – Feb 28 2014, Grant No. HKU10/CRF/10, Joint HKU-HKUST-CityU Project, HKD 4.85 million, Principal Investigator.
22. Research Grants Council, Hong Kong, "A unified theory of congestion and error control for next-generation transport layer protocols," Sept 1 2010 – Aug 31 2013, Grant No. HKU 714510E, HKD 972,000, Principal Investigator.
23. Research Grants Council, Hong Kong, "Adaptive QoS-based scheduling for ubiquitous communication," Sept 1 2010 – Dec 31 2014, Grant No. HKU 714310E, HKD 950,000, Co-Principal Investigator.
24. Research Grants Council, Hong Kong, "Managing the Transition towards a Low-carbon Economy: Stakeholder Engagement for Technological Environmental Innovation Decision-making in Hong Kong," Sept 30 2010 – Sept 29 2012, Grant No. HKU7004-PPR-10, HKD 497,348, Principal Investigator.
25. University Grants Council, Hong Kong, "Area of Excellence in Information Technology," Jan 1 2000 - Dec 31 2005, Grant No. AOE98/99.EG01, Joint HKU-HKUST-CUHK Project, HKD 51 million, Co-Director.
26. Innovation and Technology Fund, Hong Kong, "Low-cost versatile tracking device and technology for logistic applications," Grant No. ITP/019/09LP, Oct 1 2009 – Dec 31 2011, HKD 4,797,034, Principal Investigator. (Developed technology licensed via LSCM to Schmidt & Co. (HK) Ltd.)
27. Chinese Academy of Science - Croucher Foundation Funding Scheme for Joint Laboratories, "Heterogeneous peer-to-peer networks," Sept 1 2008 - Aug 31 2010, HKD 1,000,000, Principal Investigator.
28. Research Grants Council, Hong Kong, "Multihop scheduling in mobile ad hoc Networks," Sept 1 2006 – Feb 28 2009, Grant No. HKU 7148/06E, HKD 356,000, Principal Investigator.
29. Research Grants Council, Hong Kong, "Cross layer optimization for smart antenna based mobile ad hoc networks," Sept 1 2005 – Feb 28 2009, Grant No. HKU 7152/05E, HKD 788,778, Principal Investigator.
30. Innovation and Technology Fund, Hong Kong, "Integrated multimodal location information system for automobile," April 1 2005 to March 31 2007, Grant No. GHS/060/04, HKD 2 million, Co-Principal Investigator.
31. Innovation and Technology Fund, Hong Kong, "Multimedia Personal Communicator for 3G Wideband CDMA – Phase 2," Oct 1 2002 to Sept 30 2004, Grant No. ITS/045/02, HKD 6,220,800 (HKD 1.4 million from industry sponsors), Principal Investigator.
32. National Science Foundation of China and Research Grants Council of Hong Kong Joint Research Scheme, "Mobility management with QoS support in next-generation networks," Dec 20 2003 - Dec 19 2005, Grant No. N_HKU 706/03, HKD 588,300, Principal Investigator.
33. Research Grants Council, Hong Kong, "Forward secure cryptographic schemes for Ad Hoc Network," Jan 1 2005 - Dec 31 2007, Grant No. HKU 7136/04E, HKD 666,000, Co-Principal Investigator.
34. Research Grants Council, Hong Kong, "Multicast Congestion Control for Real-time Applications," Sept 1 2002 - Aug 31 2005, Grant No. HKU 7044/02E, HKD 636,404, Principal Investigator.
35. Industry Technology Development Council, Hong Kong, "Multimedia Personal Communicator for 3G Wideband CDMA," Oct 1 1999 to Sept 30 2002, Grant No. AF/198/99, HKD 5,520,000, Principal Investigator.

36. Innovation and Technology Fund, Hong Kong, "Ad hoc networking cores with specific application to Bluetooth wireless technology," Dec 1 2001 to Nov 30 2003, Grant No. ITS/051/01, HKD 5,506,960, Co-Principal Investigator.
37. National Science Foundation of China and Research Grants Council of Hong Kong Joint Research Scheme, "Adaptive QoS for wireless networks," Jan 1 2001 - Dec 31 2003, Grant No. N_HKU 009/00, HKD 480,000, Principal Investigator.
38. Research Grants Council, Hong Kong, "Providing Internet services in next-generation mobile CDMA networks," Sept 1 2000 - Aug 31 2003, Grant No. HKU 7047/00E, HKD 934,817, Principal Investigator.
39. Research Grants Council, Hong Kong, "Resource allocation for multimedia networks using the utility model," Sept 1 1999 - Aug 31 2002, Grant No. HKU 7225/99E, HKD 596,000, Principal Investigator.
40. Wong's Electronics, "Distributed multimedia systems," Dec 1 1998 to Nov 30 2001, HKD 300,000, Principal Investigator.
41. Motorola Semiconductors HK, "Distributed multimedia systems," Dec 1 1998 to Nov 30 2001, HKD 800,000, Principal Investigator.
42. Research Grants Council, Hong Kong, "Color image retrieval and visual thesaurus," Sept 98 - Sept 2000, HKD 380,000, Co-PI with Dr. Christopher Yang.
43. Committee on Research and Conference Grants, the University of Hong Kong, "Dynamic multicasting on the Internet," Nov 1 1997 to May 31 1998, Grant No. 337/062/0046, HKD 70,000, Principal Investigator.
44. Large Items of Equipment Grant, "Video-on-demand server," Dec 1 1998, HKD 400,000, Principal Investigator.
45. NSF, "Wavelength Converting and Wavelength Routing for High-Efficiency Almost-All-Optical Networks," 9-1-93 to 1-15-97, Grant No. NCR-9318497, USD 729,539, Principal Investigator.
46. Pacific Bell, "Traffic modeling in high-speed telecommunication networks," 6-1-97 to 5-31-98, USD 40,000, Principal Investigator.
47. DoD CRASP, "Call Admission Control in High Speed Networks," 9-1-96 to 8-31-97, USD 50,000, Principal Investigator.
48. California PATH, "Evaluation of spread spectrum radio traffic signal interconnect," 2-1-97 to 1-31-98, USD 39,000, Principal Investigator.
49. Pacific Bell, "Distributed Multimedia Systems," 6-1-96 to 5-31-97, USD 40,000, Principal Investigator.
50. TRW Foundation, "Distributed Database and Data Fusion Protocols for High Speed Networks," 6-1-96 to 5-31-97, USD 20,000, Principal Investigator.
51. AFOSR FRI, "Multiscale Photonic Data Fusion Networks and their interfaces," 10-1-95 to 11-29-96, USD 500,000, Senior Investigator.
52. Pacific Bell CalREN, "Studio of the Future," 6-1-94 to 10-1-96, Co-Principal Investigator.
53. Pacific Bell, "Virtual Path Layout Design in ATM Networks," 6-1-95 to 5-31-96, USD 25,000, Principal Investigator.
54. Pacific Bell, "Virtual Path Capacity Allocation in ATM Networks," 6-1-94 to 5-31-95, USD 30,000, Principal Investigator.
55. California PATH, "RF Networking for Advanced Traffic Control Systems," 1-1-95 to 12-31-96, USD 120,000, Principal Investigator.
56. California PATH, "FHWA IVHS Systems Architecture," 10-1-93 to 10-1-94, USD 92,752, Principal Investigator.
57. Corporation for National Research Initiatives, "Distributed Database on Gigabit Networks: Proposal for a Planning Grant," 1-1-94 to 9-30-94, USD 10,000, Principal Investigator.

58. Pacific Bell, "Congestion Control in High Speed Networks," 6-1-93 to 5-31-94, USD 35,000, Principal Investigator.
59. Pacific Bell, "Congestion Control in High Speed Networks," 6-1-92 to 5-31-93, USD 25,000, Principal Investigator.
60. NSF, "Routing in High-Speed Networks," 5-15-91 to 4-30-94, Grant No. NCR-9016348, USD 192,907, Principal Investigator.
61. Department of Defense Joint Services Electronics Program, "Fiber-Optical Networks," 4-1-91 to 3-31-94, Contract No. F49620-91-C-0067, USD 210,000, Principal Investigator.
62. Pacific Bell, "Intelligent Network," 7-18-90 to 6-30-91, USD 45,000, Principal Investigator.
63. AT&T, "Metropolitan Area Network Topology Design," 10-1-88 to 9-30-90, USD 124,677, Principal Investigator.
64. Pacific Bell, "Intelligent Network," 9-6-88 to 6-30-89, USD 30,000, Principal Investigator.
65. Air Force Office of Scientific Research, "Basic Research in Reliability for Real Systems," 8-1-88 to 7-31-90, Grant No. AFOSR-88-0259, USD 112,981, Principal Investigator.
66. US Army Research Office, "Communication Techniques in Stressed Environments," 7-15-88 to 7-14-91, Contract No. DAAL03-88-K-0059, USD 1,117,315, Senior Investigator.
67. Air Force Office of Scientific Research, "Basic Research in Reliability for Real Systems," 7-15-86 to 7-14-88, Grant No. AFOSR-84-0269, USD 133,997, Principal Investigator.
68. Department of Defense Joint Services Electronics Program, "Basic Research in C³ Distributed Databases," 4-1-88 to 3-31-91, Contract No. F49620-88-C-0067, USD 180,000, Principal Investigator.
69. NSF, "Research in Distributed Databases," 6-1-86 to 5-31-88, Grant No. DCI-8519101, USD 73,669, Principal Investigator.
70. TRW, "A New Approach to Concurrency Control in Distributed Databases with Applications to Communications, Command, and Control," 9-1-85 to 2-28-86, USD 15,000, Principal Investigator.
71. US Army Research Office, "Advanced Communication Techniques," 6-1-85 to 5-31-88, Contract No. DAAG29-85-K-0116, USD 811,471, Senior Investigator.
72. Department of Defense Joint Services Electronics Program, "Performance Models of Distributed Databases," 4-1-85 to 3-31-88, Contract No. F49620-85-C-0071, USD 180,000, Principal Investigator.
73. USC Project Socrates, "Development of New Multiple Access Protocols for Local Area Networks," 1-1-85 to 1-1-88, USD 23,000, Principal Investigator.
74. Air Force Office of Scientific Research, "Basic Research in Reliability for Real Systems," 7-15-84 to 7-14-86, Grant No. AFOSR-84-0269, USD 102,649, Principal Investigator.
75. USC Faculty Research and Innovation Fund, "A New Approach to Combinatorial Optimization Problems," 7-1-84 to 6-30-85, USD 14,000, Principal Investigator.
76. Jet Propulsion Lab, California Institute of Technology, "Topology Design and Performance Analysis of an Integrated Communications Network," 12-7-83 to 1-1-86, Contract No. 956719, USD 62,903, Principal Investigator.
77. NSF Research Initiation Grant, "Performance Models of Distributed Databases," 6-1-82 to 11-30-84, Grant No. ECS-8204495, USD 48,000, Principal Investigator.
78. Department of Defense Joint Services Electronics Program, "Research in C³ Distributed Databases," 4-1-82 to 3-31-85, Contract No. F49620-81-C-0070, USD 150,000, Principal Investigator.

Applied Research Projects

1. Wainan Mining Electronic Lab Ltd., "Internet of Things platform for mining applications," HKD 125,000, May 2013 – Dec 2013, Principal Investigator.

2. Nanjing Topsky Technology Co. Ltd., “Intelligent video surveillance solution for traffic applications,” HKD 170,000, March 2009 – Feb 2010, Principal Investigator.
3. VTech Corporation, “Theora decoder,” HKD 120,000, Nov. 2005 – Aug. 2006, Principal Investigator. (The project deliverable has been adopted in VTech VFlash product.)
4. VTech Corporation, “JPEG decoder,” HKD 125,000, Apr. 2006 – Aug. 2006, Principal Investigator. (The project deliverable has been adopted in VTech digital camera.)
5. KBT Inc., “AOI project,” HKD 120,000, Jul. 2006 – Nov. 2006, Principal Investigator. (The project deliverable has been adopted in KBT AOI product.)
6. mCoMo, “Marine Department Data Collection and Processing Web Site,” HKD 6,000, Principal Investigator, Nov. 2006 – Dec. 2006.
7. VTech Corporation, “Image Special Effects,” HKD 100,000, Feb. 2007 – May 2007, Principal Investigator. (The project deliverable has been adopted in VTech digital camera.)

Journal Editorship

- Guest Editor (with JCK Lam, and J Crowcroft), Cambridge University Press Data and Policy - Special Issue on “Generative AI for Sound Decision-Making: Challenges and Opportunities” to be published 2024.
- Guest Editor (with JCK Lam, and J Cui), Elsevier Environmental Science and Policy - Special Issue on “AI for Social Good: AI and Big Data Approaches for Environmental Decision-Making” published 2021.
- Steering Committee, IEEE Cloud Computing, June 2013 - 2015.
- Editor, ACM/Springer Wireless Networks, 1993- 2012.
- Editor, Springer Networking Science, 2010 - 2013.
- Editor, IEEE Communications Surveys and Tutorials, 1998- 2007.
- Editor, IEEE Journal on Selected Areas in Communications, Wireless Communications Series, 1999 - 2001.
- Editor, Telecommunication Systems, 1991-1995.
- Guest Editor, IEEE Journal on Selected Areas in Communications, Special Issue on Broadband Access Networks, 2009.
- Guest Editor, IEEE Journal on Selected Areas in Communications, Special Issue on Network Coding for Wireless Communication Networks, 2009.
- Guest Editor, KICS/IEEE Journal on Communications and Networks, Special Issue on Innovations in Ad Hoc Mobile Pervasive Networks, 2002.
- Guest Editor, IEEE Journal on Selected Areas in Communications, Special Issue on Networking and Performance Issues of Personal Mobile Communications, 1997.
- Guest Editor, Computer Networks and ISDN Systems, Special Issue on Broadband ISDN Services: Theory and Practice, 1994.
- Guest Editor, IEEE Journal on Selected Areas in Communications, Special Issue on Performance Evaluation of Multiple Access Networks, July 1987.

Government Advisory Boards

- Part-time Member, Central Policy Unit, Hong Kong Special Administrative Region (HKSAR), Jan 1 2006 - Dec 31 2007. (Appointed by the Chief Executive of HKSAR.)
- Member, Hong Kong Information Infrastructure Advisory Committee, Hong Kong Special Administrative Region (HKSAR), August 1 2002 - July 31 2004. (Appointed by the Chief Executive of HKSAR.)
- Member, Board of Governors of the Prince Philip Dental Hospital, Jan 1 2018 – Dec 31 2019.

- Co-opted Member, Admission Panel of the Technology Business Incubation Programme (Incu-Tech Programme) of the Hong Kong Science and Technology Parks Corporation (HKSTP), Aug 1 2008 – July 31 2010.
- Member, Communications Technologies Domain Advisory Committee, Hong Kong Applied Science and Technology Research Institute Company Ltd. (ASTRI), Sept 2005 - .
- Member, Technology Review Panel, Information and Communication Technology R&D Centre, Hong Kong Applied Science and Technology Research Institute Company Ltd. (ASTRI), March 1, 2006 - February 28, 2008, Jan 1 2011 – Dec 31 2012.
- Alternate Director, Hong Kong R&D Centre for Logistics and Supply Chain Management Enabling Technologies, 2005 – .
- Member, Radio Spectrum Advisory Committee, HKSAR, Oct 1 2002 – Sept 30 2006.
- Member, Innovation and Technology Fund (Electronics Projects) Vetting Committee, Hong Kong Special Administrative Region (HKSAR), Jan 1 2000 – Dec 31 2004.
- Member, Electronics Committee, Industry & Technology Development Council (ITDC), HKSAR, 1999 - 2000.
- Member, Technology Committee, Industry & Technology Development Council (ITDC), HKSAR, 1999 - 2000.
- Member, Overseas Experts Group, National Telecommunications Program, Taiwan, 2002 - 2004.
- Member, Overseas Review Panel, Program for Promoting Academic Excellence of Universities, Taiwan, 2004 - 2006.
- Judging Panel, State Science and Technology Awards of the PRC (HKSAR), 2002.
- Judging Panel, State Science and Technology Awards of the PRC (HKSAR), 2003.
- Member, Preliminary Final Judging Panel, Hong Kong Awards for Industries, November 2006.
- Assessor, Small Entrepreneur Research Assistance Programme (SERAP), HKSAR, 1999 - 2006.
- Assessor, Assessment Panel for the Innovative Product Development Assistance Scheme, HKSAR, 2003 - 2004.
- Member, Engineering Panel, Research Grants Council, HKSAR, 1998 - 2004.
- Member, Technology Advisory Panel, Hong Kong Industrial Technology Centre Corp., 1998 – 2000.
- Member, Task Force for the Hong Kong Academic and Research Network (HARNET) Development Fund, University Grants Committee, 1998 - 2000.
- Telecommunications Standards Advisory Board, HKSAR, alternate representative, Oct 1 2000 – Sept 30 2002.
- Member, HKPC-University Board, Hong Kong Productivity Council, 1998 - 2000.
- Assessor, 1998 Hong Kong Award for Industry.
- Assessor, 1999 Hong Kong Award for Industry.
- Assessor, 2000 Hong Kong Award for Industry.
- Hong Kong Convention Ambassador (2003 - 2005).

Community Activities

- Member, Norman Foster Net Positive Energy Building Prize, 2017 - .
- Member, English School Foundation Nominating Committee, HKSAR, 2006 - 2011.
- Member, Planning Committee, CW Chu College, Chinese University of Hong Kong, Oct 16 2008 - July 31 2012.
- Member, Committee of Overseers, CW Chu College, Chinese University of Hong Kong, Aug 1 2012 - July 31 2026.

- Board Member, Information Technology Entrepreneur Association, 2000 - 2004.

Professional Society and Conference Organization Activities

- Special Track Co-Organizer (with JCK Lam, and J Crowcroft), Data for Policy 2024 Conference – Decoding the Future: Trustworthy Governance *with* AI? London, July 9 – 11 2024.
- Member of Judging Panel, HKU GenAI Hackathon for Social Good, Oct 20 2023.
- Panelist: Venturing from Ivory Tower, DreamOn 2023, HKU Innovation and Entrepreneurship Day, June 5 2023.
- Program Co-Organizer, HKU-AI WiSe and HKU-Cambridge AI for Neuro-disease Research Platform Symposium on AI for Social Good on AI for Healthy Aging: Revolutionizing Prediction and Treatment of Alzheimer’s Disease, University of Hong Kong, Hong Kong, Mar 26 2024.
- Program Co-Organizer, HKU-AI WiSe Symposium on AI for Social Good on Trustworthy and Explainable AI: A Response to the Emerging Challenges of Large Language Models, University of Hong Kong, Hong Kong, May 31 2023.
- Program Co-Organizer, HKU-AI WiSe Symposium on AI for Social Good and HKU-Cambridge AI for Neurodisease Research Platform Launching Ceremony, University of Hong Kong, Hong Kong, Jan 19 2023.
- Program Co-Organizer, HKU-AI WiSe Symposium on AI for Social Good, University of Hong Kong, Hong Kong, May 24 2021.
- Program Co-Organizer, Cambridge University Department of Computer Science and Technology and HKU-Cambridge AI-WiSe Symposium on AI for Social Good, Cambridge, UK, May 24 2019.
- Symposium Chair, RGC TBR and HKU-Cambridge AI-WiSe Symposium on What is the Future of AI? Socially Beneficial AI? Hong Kong, 1/2019.
- Symposium Chair, RGC TBR and HKU-Cambridge AI-WiSe Symposium on Integrating Knowledge Graph and Deep Learning in Air Pollution Modeling, Hong Kong, 2/2019
- Workshop Chair, IEEE Big Data Workshop: Big Data and AI for Air Quality Estimation, Forecasting, and Health Advice, Seattle, Washington, USA, Dec 2018.
- Program Co-Organizer, HKU-Cambridge CEERP Seminar on Climate Change, University of Hong Kong, Feb 2016.
- General Chair, IEEE PIMRC, Hong Kong, Aug 2015.
- Member, Nomination Committee, Twelfth Guanghua Engineering Science and Technology Award, July 2017.
- Member, Electrical & Electronic Engineering Panel, Research Assessment Exercise 2014, University Grants Committee, Feb 2013 – April 2015.
- IEEE Fellow Committee, Alternate Member, Jan 1 2010 – Dec 31 2010.
- General Chair, IEEE INFOCOM, Hong Kong, March 2004.
- General Chair, IEEE Workshop on High Performance Switching and Routing, Hong Kong, May 2005.
- Steering Committee, IEEE SmartGridComm, Nov 2013 - 2019.
- Council Member, Hong Kong Academy of Engineering Sciences, Dec 2014 - 2021.
- Member, Membership Committee, Hong Kong Academy of Engineering Sciences, June 2020 - .
- Panel Chair, IEEE International Conference on Communications, Beijing, China, May 2008.
- Steering Committee, IEEE International Conference on Ubiquitous and Future Networks, Hong Kong, China, June 2009.
- Honorary Advisor, Social Media 2013, Hong Kong, China.
- Honorary Advisor, Social Media 2014, Las Vegas, USA.

- Honorary Advisor, Construction Professionals' Development Centre, Hong Kong, Dec 2010 – March 2015.
- International Advisory Committee, IEEE International Conference on Ubiquitous and Future Networks, Hong Kong, China, June 2009.
- International Advisory Committee, IEEE International Conference of Communications, Circuits, and Systems, Guilin, China, June 2006.
- International Advisory Committee, IEEE Vehicular Technology Conference, Los Angeles, California, September 2004.
- General Chair, IEEE Computer Communications Workshop, Laguna Niguel, California, October 2003.
- Chair, International Advisory Committee, IEEE Circuits and Systems Society Workshop on Wireless Communications and Networking, Pasadena, California, September 2002.
- General Co-Chair, International Conference on Communications, Circuits, and Systems, 2002, Chengdu, China, June 2002.
- Conference Chair, Hong Kong Information Infrastructure International Conference, Hong Kong Trade Development Council, Hong Kong, March 2002.
- General Vice Chair, IEEE International Conference on Third Generation Wireless and Beyond, San Francisco, California, USA, June 2001.
- Advisory Board, Symposium on Ad Hoc Mobile Wireless Networks (SAWN), IEEE Globecom 2002, Taipei, Taiwan, Dec 2002.
- Director, MIT Club of Hong Kong, July 2007 – June 2011.
- Member of Judging Panel, PC Market BIZ IT excellence Award, June 2009.
- Technical Program Committee, IEEE INFOCOM, New York, New York, June 2002.
- Technical Program Committee, IEEE Wireless Communications and Networking Conference (WCNC), Orlando, Florida, USA, March 2002.
- Technical Program Committee, International Symposium on Parallel Algorithms, Architectures and Networks (I-SPAN'02), Manila, Philippines, May 23-25, 2002.
- Advisory Committee, ACM Workshop on Ad Hoc Wireless Networking, Boston, MA, USA, Aug 2000.
- Chair of the Organizing Committee, Asia Pacific Electronics Symposium, Hong Kong, October 2000.
- Technical Program Chair, Asia Pacific Conference on Multimedia Technology and Applications, Kaohsiung, Taiwan, Dec 2000.
- Council Member, Hong Kong Institution of Engineers, 2002 - 2004.
- Appointed Member, Electronics Discipline Advisory Panel, Hong Kong Institution of Engineers, 2007 – 2008, 2008 - 2009.
- Ex-officio Member, Electronics Discipline Advisory Panel, Hong Kong Institution of Engineers, 2002 - 2003.
- Member, Working Group on Technology and Emerging Disciplines, Hong Kong Institution of Engineers, April 2005 – June 2006.
- Chair, Electronics Division, Hong Kong Institution of Engineers, 2000 - 2001.
- Vice Chair, Electronics Division, Hong Kong Institution of Engineers, 1999 - 2000.
- Member, Publications Committee, Hong Kong Institution of Engineers, 2000 - .
- Member, Learned Society Board, Hong Kong Institution of Engineers, 2000 - .
- Member, Management Committee, The Centre for Electronic Packaging & Assemblies, Failure Analysis and Reliability Engineering, City University of Hong Kong, Sept. 1999 - .
- Assessor, 1999 IT Excellence Award, Hong Kong Computer Society.
- Assessor, 2000 IT Excellence Award, Hong Kong Computer Society.
- Judging Panel, Growth Enterprise Market (GEM) Award for Innovation Excellence, 2002.

- Conference Co-Chair, International Forum on Information Technology and Innovative Applications, Hong Kong, Oct. 1998.
- Chair, Intelligent Transport Systems Technologies Forum, October 1999, Hong Kong.
- Chair for Day 1, Hong Kong Information Infrastructure Conference, Feb 1998, sponsored by the Hong Kong Industrial Technology Centre Corp.
- Chairman, Steering Committee and Co-founder, International Conference on Computer Communications and Networks IC³N, 1992 - 1997.
- General Chairman, International Conference on Computer Communications and Networks IC³N, San Diego, California, June 1992.
- Technical Program Chairman, IEE Personal Communication Services Symposium, Hong Kong Convention and Exhibition Center, Hong Kong, June 1995.
- General Chairman and Technical Program Chairman, 4th Annual IEEE Computer Communications Workshop, Dana Point, California, Oct 1989.
- Chairman, IEEE Communications Society Technical Committee on Computer Communications, 1987-1989, Member, 1983- , Conference Coordinator, 1985-1987.
- Chairman, Los Angeles Council of the IEEE Information Theory Society, 1983-85.
- Registration Chairman, IEEE Symposium on Reliability in Distributed Software and Database Systems, Los Angeles, California, January 1986.
- International Advisory Board, IEEE SICON, Singapore, July 1998.
- International Advisory Board, IEEE SICON/ICIE, Singapore, September 1995.
- International Advisory Committee, IEEE TENCON, Singapore, October 1994.
- International Advisory Board, IEEE SICON/ICIE, Singapore, September 1993.
- Advisory Board, International Workshop in Mobile Communications and High Speed Networks, Osaka, Japan, November 1993.
- International Advisory Committee, IEEE International Conference on Microwaves and Communications, Nanjing, China, June 1992.
- International Advisory Committee, IEEE International Symposium on Communications, Tainan, Taiwan, December 1991.
- International Advisory Board, IEEE SICON, Singapore, September 1991.
- International Advisory Committee, IEEE TENCON, Hong Kong, September 1990.
- Scientific Program Committee, IFIP TC 6 Fifth International Conference on Broadband Communications, Hong Kong Convention & Exhibition Centre, Hong Kong, November 10-12, 1999.
- Program Committee, International Conference on MultiMedia Modeling, MMM'98, Lausanne, Switzerland, October 1998.
- Technical Program Committee, International Conference on Personal, Mobile, and Spread Spectrum Communications, Shanghai, China, June 1998.
- Technical Program Committee, International Conference on Personal, Mobile, and Spread Spectrum Communications, Hong Kong, December 1996.
- Technical Program Committee, International Conference on Computer Communications and Networks (IC³N), Rockville, Maryland, October 1996.
- Technical Program Committee, International Conference on Computer Communications and Networks (IC³N), Las Vegas, Nevada, September 1995.
- Technical Program Committee, International Conference on Computer Communications and Networks (IC³N), San Francisco, California, September 1994.
- Technical Program Committee, International Conference on Computer Communications and Networks (IC³N), San Diego, California, June 1993.
- Technical Program Committee, International Conference on Parallel and Distributed Computing Systems, Louisville, Kentucky, October 1993.
- Technical Program Committee, IEEE INFOCOM, Toronto, Canada, June 1994.

- Technical Program Committee, IEEE INFOCOM, San Francisco, California, April 1993.
- Technical Program Committee, IEEE INFOCOM, Florence, Italy, April 1992.
- Technical Program Committee, IEEE INFOCOM, Miami, Florida, April 1991.
- Technical Program Committee, IEEE INFOCOM, San Francisco, California, June 1990.
- Technical Program Committee, IEEE INFOCOM, Ottawa, Ontario, Canada, March 1989.
- Technical Program Committee, IEEE INFOCOM, New Orleans, Louisiana, April 1988.
- Technical Program Committee, IEEE INFOCOM, San Francisco, California, April 1987.
- Technical Program Committee, IEEE INFOCOM, Miami, Florida, April 1986.
- Technical Program Committee, IEEE International Conference on Data Engineering, Los Angeles, California, February 1989.
- Technical Program Committee, IEEE International Conference on Data Engineering, Los Angeles, California, February 1988.
- Technical Program Committee, IEEE International Conference on Data Engineering, Culver City, California, February 1987.
- Technical Program Committee, IEEE International Conference on Data Engineering, Los Angeles, California, February 1986.
- Technical Program Committee, IEEE GLOBECOM, Houston, Texas, December 1986.
- Technical Program Committee, IEEE MILCOM, Monterey, California, October 1986.
- Session Chair, International Conference on Business Incubation, Hong Kong, Nov. 1998.
- Session Organizer and Chairman, IEEE INFOCOM, Ottawa, Canada, April 1989.
- Session Organizer and Chairman, IEEE INFOCOM, Miami, Florida, April 1986.
- Session Organizer and Chairman, IEEE MILCOM, Monterey, California, October 1986.
- Session Organizer and Chairman, IEEE MILCOM, Los Angeles, California, October 1984.
- Session Organizer and Chairman, IEEE International Conference on Communications, Toronto, Canada, June 1986.
- Session Organizer and Chairman, IEEE International Conference on Communications, Chicago, Illinois, June 1985
- Session Organizer and Chairman, IEEE GLOBECOM, Houston, Texas, December 1986.
- IEEE Computer Society Technical Committee on Distributed Processing, 1983- .
- IEEE Computer Society Technical Committee on Data Engineering, 1983- .
- IEEE, Member 1981-1986, Senior Member, 1986-1991, Fellow 1992- .
- ACM SIGMOD, 1982- .
- ACM SIGCOMM, 1982- .

Activities as Referee

- IEEE Transactions on Communications, 1982- .
- IEEE Transactions on Computers, 1982- .
- IEEE Transactions on Information Theory, 1981- .
- IEEE Transactions on Software Engineering, 1981- .
- IEEE Transactions on Reliability, 1984- .
- IEEE JSAC, 1985- .
- Proc. of the IEEE, 1984- .
- Information Sciences, 1984- .
- Operations Research, 1984- .
- Networks, 1982- .
- Performance Evaluation, 1985- .
- IEEE INFOCOM, 1982- .
- IEEE GLOBECOM, 1982- .
- IEEE International Conference on Communications, 1983- .

- IEEE MILCOM, 1984- .
- ACM SIGCOMM Symposium, 1986- .
- National Science Foundation, 1983- .
- US Army Basic Research Committee, 1983- .
- US Air Force Office of Scientific Research, 1987- .
- Natural Sciences and Engineering Research Council of Canada, 1988- .
- California Microelectronics Innovation and Computer Research Opportunities (MICRO) Program, 1990- .
- University Grants Committee of Hong Kong, 1990- .
- Computer Science Press, 1982- .
- Addison-Wesley, 1984 – .

University Service (University of Hong Kong)

- Member, Selection Committee for the Next Vice-Chancellor, June 2017.
- Chair, Physical Sciences and Engineering Panel (HKU Presidential Postdoctoral Fellowship Scheme), 2021.
- Chair, Faculty of Dentistry Promotion and Tenure Panel, Nov 1 2015 – Aug 31 2017.
- Chair, Faculty of Business and Economics Promotion and Tenure Panel, Dec 1 2011 – Oct 31 2015.
- Member, RGC Visit Task Force, 2008.
- Member, Vice-Chancellor's Budget and Resources Committee, April 2004 – June 2007.
- Member, University Selection and Promotion Committee, March 1 2005 – June 30 2013.
- Chair, Science Faculty Promotion and Tenure Panel, June 2007 – Dec 2011.
- Member, Medical Faculty Promotion and Tenure Panel, March 2005 – Feb 2007.
- Member, Senate, Sept 1997 - 2009.
- Member, Review Committee, Centre for Information Technology in Education, Faculty of Education, 2012.
- Member, Management Committee, Centre for Information Technology in Education, Faculty of Education, Sept 1 2012 – Aug 31 2013.
- Member, Committee of Enquiry into Possible Good Cause, July 2006 – June 2008.
- Member, Small Project Funding Sub-Group, Sub-Committee for Internal Support of Research Projects, University Research Committee, April 2012 – Mar 2014.
- Chair, Engineering Research Committee, 2008 - 2012.
- Chair, Engineering Faculty Higher Degree Committee, June 2007 – 2012.
- Chair, William M.W. Mong Engineering Research Fund Committee of Management, June 2007 – June 2012.
- Chair, Engineering Outside Practice Sub-Committee, June 2007 – June 2012.
- Chair, Engineering Sabbatical Leave Committee, June 2007 – 2012.
- Chair, Faculty Selection Committee (Demonstratorships), June 2007 – 2012.
- Engineering Faculty Coordinator, RGC Visit 2008.
- Member, Engineering Faculty Curriculum Development Committee, July 1 2012 – June 30 2013.
- Member, Engineering Faculty Human Resource Committee, Feb 2005 – 2013.
- Member, Engineering Faculty Promotion and Tenure Panel, Feb 2005 – 2013.
- Member, Engineering Outside Practice Committee, May 2006 – 2013.
- Acting Pro-Vice-Chancellor (Research), HKU, Dec 2001, Dec 2002.
- Member, University Research Committee, Subcommittee for the Seed Funding for Applied Research, July 2005 – June 2007.
- Member, University Research Committee, Subcommittee on Outstanding Researcher Award, June 2005.

- Member, Disciplinary Committee, July 2005.
- Convenor, Area of Excellence in Information Technology, HKU, 1998 - 2005.
- Convenor, Strategic Research Theme on Information Technology, HKU, 2005 - 2013.
- Co-Convenor, Strategic Research Theme on Computation and Information, HKU, 2013 - .
- Director and Steering Committee Member, Sun-Oracle-HKU Internet-centric Excellence Centre, 1999 - 2004.
- Director and Steering Committee Member, Visa International Smartcard Centre of Excellence, 1999 - 2004.
- Steering Committee Member, Sun Microsystems Authorized Academic Java Campus, 1998 - 2000.
- Member, Management Committee, HKU-IBM Electronic Business Technology Institute, 1999 -2001.
- Member, Management Committee, HKU Cyberport Academic Institute, 2002.
- Member, Working Group on rationalising the academic services and administrative departments, HKU, 2003.
- Director, Multimedia Networking Laboratory, Department of Electrical & Electronic Engineering, 1997 - .
- Director, 3G Technology Centre, Department of Electrical & Electronic Engineering, 1999 -
- Dean's Advisory Group on Contract Renewal and Substantiation, 2002.
- Member, HKU Task Force on Innovation and Technology, 1998.
- Coordinator, HKU-IBM Research Partnership, 1998 - 2000.
- Member, Executive Council, HKU-IBM Digital Campus Initiative, 1998 – 2000.
- Member, Advisory Council, HKU-IBM Digital Campus Initiative, 1998 – 2000.
- Programme Director, Information Engineering Programme, Department of Electrical and Electronic Engineering, University of Hong Kong, 1997 - 2014.
- Chair, Curriculum Review and Development Committee, Department of Electrical and Electronic Engineering, University of Hong Kong, 1997 - 2007.
- Head's Advisory Committee, Department of Electrical and Electronic Engineering, University of Hong Kong, 1997 - 2010.
- Department Research and Postgraduate Committee, Department of Electrical and Electronic Engineering, University of Hong Kong, 1997 - 2010.
- EEE Programme Committee, Department of Electrical and Electronic Engineering, University of Hong Kong, 1997.
- MSc (E-commerce and Internet Computing) Programme Committee, 1999.
- Member, Selection Committee for the Leung Wai Sun Fellowships, 2002.

University Service (University of Southern California)

- Provost's Distinguished Visitors Program Selection Committee, USC, 1995 - 1997.
- Department of Electrical Engineering Admissions Committee, USC, 1986-87, 88-89, 92-93, 95 - 97.
- Chairman, Department of Electrical Engineering Educational Planning and Policies Committee, USC, 1985-86.
- Chairman, Department of Electrical Engineering Fellowship Committee, USC, 1988-1990.
- Chairman, Department of Electrical Engineering Service Merit Evaluation Task Force, USC, 1988.
- Chairman, Department of Electrical Engineering Merit Review Committee (Assistant Professors), USC, 1992.
- Chairman, Department of Electrical Engineering Merit Review Committee (Tenured Professors), USC, 1997.
- Faculty Senate Faculty Handbook Committee, USC, 1985-1988.

- School of Engineering Computer Committee, USC, 1986-1988.
- School of Engineering Continuing Education and ITV Advisory Committee, USC, 1983-84.
- Department of Electrical Engineering Graduate Entrance Requirements Committee, USC, 1983.
- Department of Electrical Engineering Graduate Curriculum Committee, USC, 1984.
- Department of Electrical Engineering Research Review Committee, USC, 1984.
- Department of Electrical Engineering Fellowship Committee, USC, 1984.
- Department of Electrical Engineering Merit Review Committee, USC, 1989-90.
- Department of Electrical Engineering Strategic Planning Committee, USC, 1991-93.
- Department of Electrical Engineering Education Planning and Policies Committee, USC, 1991-92.
- University Asian Task Force, USC, 1992.
- University USC Year to Study America Task Force, USC, 1992.
- Department of Electrical Engineering Executive Committee, USC, 1985-86, 1988-91, 1993-1994.
- Department of Electrical Engineering Part-time Instructor Committee, USC, 1993-1994.
- International Programs Committee - Asian Section, Academic Senate, USC, 1993 -1994.

External Examiner Activities

- Member, Review Panel, Ministry of Education, Singapore, May 2014 – May 2016.
- Chairman, Visiting Team, HKIE Accreditation Visit of the Faculty of Engineering, Chinese University of Hong Kong, Hong Kong, China, March 2006.
- University of British Columbia, Canada.
- Indian Institute of Technology, Bangalore, India.
- Chinese University of Hong Kong, Hong Kong.
- Hong Kong University of Science and Technology, Hong Kong.
- City University of Hong Kong, Hong Kong.
- Polytechnic University of Hong Kong, Hong Kong.
- Open University of Hong Kong, Hong Kong.
- Nanyang Technological University, Singapore.
- US Department of Defense Advanced Research Projects Agency (ARPA) (External Reviewer).

Ph.D. Thesis Supervision Completed

1. Shu, Chieh-Hsien, “Data Management on a Distributed Computer Network,” Ph.D. Thesis, Department of Electrical Engineering, USC, May 1984. (Member of Technical Staff, BellCore, Piscataway, NJ)
2. Chen, Arbee, “Query Optimization in Distributed Database Systems,” Ph.D. Thesis, Department of Electrical Engineering, USC, Oct 1984. (Prof., Institute of Computer and Decision Sciences, National Tsing Hua University, Taiwan)
3. Hou, Ting-Chao, “Routing and Transmission Range Control in Multihop Packet Radio Networks,” Ph.D. Thesis, Department of Electrical Engineering, USC, Dec 1985. (Prof., Department of Electrical Engineering, National Chung Cheng University, Taiwan)
4. Su, Szu-Lin, “Performance Analysis of Spread Spectrum Networks,” Ph.D. Thesis, Department of Electrical Engineering, USC, Dec 1985. (Prof., Department of Electrical Engineering, National Cheng Kung University, Taiwan)
5. Lam, Yuen-Fung, “Reliability Modeling and Analysis of Communication Networks with Dependent Failures,” Ph.D. Thesis, Department of Electrical Engineering, USC, May 1986. (Manager, Technical Marketing, Cisco Systems, Inc., San Jose, CA)

6. Sarraf, Mohsen, "Multiple Access Networks: Design and Analysis," Ph.D. Thesis, Department of Electrical Engineering, USC, August 1986. (Technical Manager, Lucent Technologies Bell Labs, Holmdel, NJ)
7. Chen, Jason Shiau-Juang, "Distributed Query Optimization in Fragmented Database Systems," Ph.D. Thesis, Department of Electrical Engineering, USC, August 1987. (System Architect, Sybase, Emeryville, CA)
8. Feldman, Phillip, "Adaptive Hybrid ARQ Protocols," Ph.D. Thesis, Department of Electrical Engineering, USC, December 1987. (The Rand Corp., Santa Monica, CA)
9. Chiou, Sheng-Neng, "Diversity Routing and Reliability Analysis in a Communication Network," Ph.D. Thesis, Department of Electrical Engineering, USC, May 1988. (Member of Technical Staff, AT&T Bell Labs., Holmdel, NJ)
10. Wang, Chih-Ping, "The Precedence Assignment Model for Distributed Database Concurrency Control Algorithms," Ph.D. Thesis, Department of Electrical Engineering, USC, August 1988. (Informix Software, Menlo Park, CA)
11. Chang, Rong-Feng, "Performance Analysis of Mobile Packet Radio Networks," Ph.D. Thesis, Department of Electrical Engineering, USC, August 1989. (Prof., Department of Electrical Engineering, National Cheng Kung University, Taiwan)
12. Pond, Lawrence, "On the Performance Analysis and Media Access of Distributed Mobile Multi-Hop Packet Radio Networks," Ph.D. Thesis, Department of Electrical Engineering, USC, August 1989. (Scientist/Engineer, Hughes Aircraft Corp., Redondo Beach, CA)
13. Huang, Ching-Liang, "Crash Recovery in Replicated Database Systems," Ph.D. Thesis, Department of Electrical Engineering, USC, December 1989. (Co-founder, Vertex Networks, Irvine, CA)
14. Shyu, Shiow-Chen, "Design and Performance Analysis of Locking Algorithms in Distributed Database Systems," Ph.D. Thesis, Department of Electrical Engineering, USC, December 1989. (Documentum, Inc., Pleasanton, CA)
15. Yin, Ming, "Channel Load Sensing Protocol in Spread Spectrum Packet Radio Networks," Ph.D. Thesis, Department of Electrical Engineering, USC, May 1990. (Co-Founder, Diamond Lane Communications, Petaluma, CA)
16. Le, Khiem, "Reliability Issues in Communication Networks with Dependent Failures and Multimode Components," Ph.D. Thesis, Department of Electrical Engineering, USC, August 1990. (Principal Engineer, Nokia Research Center, Irving, TX)
17. Chou, Arr-Mien, "Fair Channel Access Algorithms in Multihop Packet Radio Networks," Ph.D. Thesis, Department of Electrical Engineering, USC, December 1990. (Prof., National Taiwan Normal University, Taipei, Taiwan)
18. Choudhury, Abhijit, "Deflection Routing in High-Speed Networks," Ph.D. Thesis, Department of Electrical Engineering, USC, August 1991. (Abrizio Inc., Mountain View, CA)
19. Wu, Cheng-Shong, "Design and Analysis of Multiple Access Protocols in Packet Radio Networks," Ph.D. Thesis, Department of Electrical Engineering, USC, August 1991. (Prof., Department of Electrical Engineering, National Chung Cheng University, Taiwan)
20. Hsu, Cherng-Shung, "Performance Analysis of Fiber-Optic CDMA Packet Networks," Ph.D. Thesis, Department of Electrical Engineering, USC, May 1992. (Group Leader, Chung Shan Institute of Science and Technology, Lung-Tan, Taiwan)
21. Khan, Irfan, "Teletraffic Analysis and Traffic Control in Asynchronous Transfer Mode (ATM) Networks," Ph.D. Thesis, Department of Electrical Engineering, USC, May 1993. (Manager, Ericsson Inc., La Jolla, CA)
22. Banerjee, Sujata, "Distributed Database Systems on High-Speed Networks," Ph.D. Thesis, Department of Electrical Engineering, USC, August 1993. (Manager, HP Research Labs, Palo Alto, CA)

23. Cheung, William Y.S., "Performance Analysis of K-Look-Ahead Locking in Distributed Databases," Ph.D. Thesis, Department of Electrical Engineering, USC, December 1993. (Chief Technology Officer, Century Vision Network Group, Inc., Hong Kong)
24. Li, Suann, "Performance Analysis of Channel Allocation Schemes in Mobile Communication Systems," Ph.D. Thesis, Department of Electrical Engineering, USC, August 1994. (Fluor Daniel, Los Angeles, CA)
25. Lee, Kuo-Chun, "Wavelength conversion and wavelength routing in all-optical networks," Ph.D. Thesis, Department of Electrical Engineering, USC, December 1994. (Senior System Engineer, Ericsson Inc., La Jolla, CA)
26. Yang, Gary Tien-Shun, "Virtual path routing and capacity design in an ATM network," Ph.D. Thesis, Department of Electrical Engineering, USC, May 1995. (Innomedia, Santa Clara, CA)
27. Ngo, Chiu-Yeung, "Genetic Algorithms for Discrete Optimization and their Applications to Radio Network Design," Ph.D. Thesis, Department of Electrical Engineering, USC, August 1995. (Senior Member of Research Staff, Philips Laboratories, NY)
28. Ju, Jiher, "Topology-transparent transmission scheduling algorithms in wireless mobile packet radio networks," Ph.D. Thesis, Department of Electrical Engineering, USC, August 1996. (ZyXEL Communications Corp. Hsinchu, Taiwan)
29. Qiu, Xiaoxin, "Multiple access schemes in Personal Communication System," Ph.D. Thesis, Department of Electrical Engineering, USC, August 1996. (Member of Technical Staff, AT&T Research Lab., NJ)
30. Liao, Wan-Jiun, "Design and analysis of video-on-demand systems," Ph.D. Thesis, Department of Electrical Engineering, USC, August 1997. (Prof., Department of Electrical Engineering, National Taiwan University, Taiwan)
31. Sengodan, Senthil, "Storage and retrieval techniques for interactive video-on-demand systems," Ph.D. Thesis, Department of Electrical Engineering, USC, August 1997. (Assistant Research Manager, Nokia Research Lab., Boston, MA)
32. Arafah, Mohammed, "Centralized buffering and wavelength conversion in multistage interconnection networks," Ph.D. Thesis, Department of Electrical Engineering, USC, August 1997. (Assoc. Prof., Department of Computer Engineering, King Saud University, Saudi Arabia.)
33. Bakiras, Spiridon, "Real-time traffic transmission over packet-switched networks," Ph.D. Thesis, Department of Electrical Engineering, USC, December 2000. (Research Assistant Professor, Department of Computer Science, The Hong Kong University of Science and Technology, Hong Kong.)
34. Chan, Tat-Keung, "High-speed network with self-similar traffic," Ph.D. Thesis, Department of Electrical Engineering, USC, December 2000. (Member of Research Staff, Nokia Research Lab., Boston, MA)
35. Leung, Ka-Cheong, "Multipath routing in communication networks," Ph.D. Thesis, Department of Electrical Engineering, USC, December 2000. (Assist. Prof., Dept. of Computer Science, Texas Tech University, TX, USA.)
36. Zheng, Jun, "Performance analysis and algorithm design for data-driven IP/ATM label switching systems," Ph.D. Thesis, Department of Electrical & Electronic Engineering, The University of Hong Kong, December 2000. (Post-doctoral fellow, Queen's University, Canada.)
37. Zhuge, Lei, "Admission control and burst scheduling in multi-service cellular CDMA systems," Ph.D. Thesis, Department of Electrical Engineering, USC, December 2001. (Post-doctoral fellow, University of Southern California, Los Angeles, CA.)

38. Cao, Yaxin, "Adaptive packet scheduling and resource allocation in wireless networks," Ph.D. Thesis, Department of Electrical Engineering, USC, December 2002. (Member of Staff, Broadcom, Aberdeen, NJ)
39. Yuan, Xiaochun, "Routing protocols in all-optical packet-switched networks," Ph.D. Thesis, Department of Electrical & Electronic Engineering, The University of Hong Kong, September 2002.
40. Zhang, Zaichen, "Network-supported Internet multicast congestion control and error control," Ph.D. Thesis, Department of Electrical & Electronic Engineering, The University of Hong Kong, September 2002. (Assoc. Prof., Southeast University, Nanjin, China.)
41. Lu, Zhenxin, "Location-aware routing with reduced location maintenance for ad hoc networks," Ph.D. Thesis, Department of Electrical & Electronic Engineering, The University of Hong Kong, June 2004. (Entrepreneur, Shenzhen, China)
42. Diao, Zhifeng, "Adaptive packet scheduling in OFDM systems," Ph.D. Thesis, Department of Electrical & Electronic Engineering, The University of Hong Kong, Dec 2005. (Post-doctoral fellow, University of California, Riverside, California, USA.)
43. Yang, Daiqin, "Transmission scheduling in single hop and multi-hop wireless networks," Ph.D. Thesis, Department of Electrical & Electronic Engineering, The University of Hong Kong, Dec 2006 (Siemens Research Center, Shanghai, China.).
44. Liu, Xiaoshan, "Mobility and radio resource management in heterogeneous wireless networks," Ph.D. Thesis, Department of Electrical & Electronic Engineering, The University of Hong Kong, Dec 2006. (Quantitative Analyst, Bank of China Investment Group, Hong Kong.)
45. Zhou, Kaiyu, "Packet loss models of the transmission control protocol," Ph.D. Thesis, Department of Electrical & Electronic Engineering, The University of Hong Kong, Dec 2006 (Co-supervised with Dr. Lawrence Yeung).
46. Yang, Guanghua, "Adaptive unequal error protection for wireless video transmissions," Ph.D. Thesis, Department of Electrical & Electronic Engineering, The University of Hong Kong, Dec 2006. (Postdoctoral Fellow, University of Hong Kong.)
47. Shao, Wenjian, "Quality of service support in mobile ad hoc networks," Ph.D. Thesis, Department of Electrical & Electronic Engineering, The University of Hong Kong, Dec 2006. (Postdoctoral Fellow, University of Hong Kong.)
48. Li, Guangming, "Novel resource allocation schemes in optical burst switching networks," Ph.D. Thesis, Department of Electrical & Electronic Engineering, The University of Hong Kong, Dec 2006. (Assistant Professor, Shandong University, China.)
49. Dong, Yin, "Providing security services for mobile ad hoc networks," Ph.D. Thesis, Department of Electrical & Electronic Engineering, The University of Hong Kong, Nov 2007. (Researcher, ASTRI, Hong Kong, China.)
50. Sun, Fanglei, "Resource allocation in broadband wireless networks," Ph.D. Thesis, Department of Electrical & Electronic Engineering, The University of Hong Kong, Aug 2008. (Research Scientist, Research & Innovation center, Alcatel-Lucent Shanghai Bell.)
51. Lam, Albert Y.S., "Theory of optimization and a novel chemical reaction-inspired metaheuristic," Ph.D. Thesis, Department of Electrical & Electronic Engineering, The University of Hong Kong, Dec 2009. (Research Associate, University of Hong Kong.)
52. Geng, Yanhui, "A framework to model the relationship between information and network performance," Ph.D. Thesis, Department of Electrical & Electronic Engineering, The University of Hong Kong, Dec 2009. (Postdoctoral Research Fellow, University of Hong Kong.)
53. Xu, Jialing, "On live data streaming over peer-to-peer networks," Ph.D. Thesis, Department of Electrical & Electronic Engineering, The University of Hong Kong, Aug 2010. (Postdoctoral Research Fellow, University of Hong Kong.)

54. Xu, Kuang, "On social-network-enabled e-communications," Ph.D. Thesis, Department of Electrical & Electronic Engineering, The University of Hong Kong, Aug 2010. (Research Analyst, China Asset Management Corp.)
55. Sun, Qiong, "Topology-transparent distributed scheduling in wireless networks," Ph.D. Thesis, Department of Electrical & Electronic Engineering, The University of Hong Kong, Aug 2010. (Postdoctoral Research Fellow, University of Hong Kong.)
56. Huang, Fei, "Design and analysis of transmission protocols in wireless networks with smart antennas," Ph.D. Thesis, Department of Electrical & Electronic Engineering, The University of Hong Kong, June 2011. (Analyst, Morgan Stanley.)
57. Hong, Jun, "Impact of information on wireless network performance," Ph.D. Thesis, Department of Electrical & Electronic Engineering, The University of Hong Kong, July 2011. (Trader, Kokomo Capital.)
58. Xu, Jin, "A study of Chemical Reaction Optimization," Ph.D. Thesis, Department of Electrical & Electronic Engineering, The University of Hong Kong, July 2012. (Yun Hao Investment, Shanghai)
59. Wang, Ping, "Research on key issues in underwater acoustic sensor networks," Ph.D. Thesis, Department of Electronic Engineering, Tsinghua University, April 2013. (Co-supervised with Lin Zhang; Chinese Academy of Science)
60. Yu, Xiaoxiao, "Temporal-spatial-entangled compressive sensing theory and design in mobile sensor networks," Ph.D. Thesis, Department of Electronic Engineering, Tsinghua University, April 2013. (Co-supervised with Lin Zhang; Tsinghua University)
61. Fan, Xiaoguang, "Study of social-network-based information propagation," Ph.D. Thesis, Department of Electrical & Electronic Engineering, The University of Hong Kong, July 2013. (World Quant)
62. Liu, Yiming, "Efficient transmission scheduling algorithms in wireless multi-hop networks," Ph.D. Thesis, Department of Electronic Engineering, Tsinghua University, April 2014. (Co-supervised with Lin Zhang; China Academy of Electronics and Information Technology)
63. Yang, Yile, "Noncooperative information diffusion in online social networks," Ph.D. Thesis, Department of Electrical & Electronic Engineering, The University of Hong Kong, March 2014. (Lenovo Lab)
64. Lai, Chengdi, "Systematic design of internet congestion control: theory and algorithms," Ph.D. Thesis, Department of Electrical & Electronic Engineering, The University of Hong Kong, May 2014 (Co-supervised with KC Leung; Citadel).
65. Niu, Guolin, "Temporal modeling of information diffusion in online social networks," Ph.D. Thesis, Department of Electrical & Electronic Engineering, The University of Hong Kong, Sep 2014. (Researcher, ASTRI)
66. Zhou, Haojie, "Auction-based resource allocation in selfish networks" Ph.D. Thesis, Department of Electrical & Electronic Engineering, The University of Hong Kong, July 2014. (Co-supervised with KC Leung; Alibaba)
67. Song, Bo, "Theoretical analysis and approximation of infinite population models for evolutionary algorithms," Ph.D. Thesis, Department of Electrical & Electronic Engineering, The University of Hong Kong, May 2015. (Technologist, Volant Trading)
68. Wen, Haofu, "Building the smart grid wide-area monitoring system," Ph.D. Thesis, Department of Electrical & Electronic Engineering, The University of Hong Kong, July 2015. (CEO and Co-founder, Accosys Ltd.)
69. Jangsher, Sobia, "Resource allocation in moving small cell network," Ph.D. Thesis, Department of Electrical & Electronic Engineering, The University of Hong Kong, August 2015. (Assist. Prof., Institute of Space Technology, Islamabad, Pakistan)

70. Yu, James Jian Qiao, "A social spider inspired metaheuristic for global numerical optimization and its applications," Ph.D. Thesis, Department of Electrical & Electronic Engineering, The University of Hong Kong, August 2015. (Research Associate, The University of Hong Kong)
71. Chuai, Jie, "Impact of network state information on protocol performance," Ph.D. Thesis, Department of Electrical & Electronic Engineering, The University of Hong Kong, August 2015. (Researcher, ASTRI)
72. Long, Yi, "Characterizing video diffusion patterns in online social networks," Ph.D. Thesis, Department of Electrical & Electronic Engineering, The University of Hong Kong, September 2015. (Postdoctoral Research Fellow, The Chinese University of Hong Kong.)
73. Sun, Yi, "A study of the initialization stage for evolutionary algorithms with limited computational resources: Application, resource allocation, and classification," Ph.D. Thesis, Department of Electrical & Electronic Engineering, The University of Hong Kong, June 2016. (Researcher, ASTRI)
74. Shuai, QiQi, "Performance analysis of access latency in distributed storage systems," Ph.D. Thesis, Department of Electrical & Electronic Engineering, The University of Hong Kong, June 2016. (Postdoctoral Research Fellow, The University of Hong Kong.)
75. Zhu, Yixuan, "Air pollution monitoring, forecasting, and causal pathway identification with spatio-temporal (ST) urban big data," Ph.D. Thesis, Department of Electrical & Electronic Engineering, The University of Hong Kong, August 2016. (Researcher, Lenovo Research Lab, Hong Kong.)
76. Lu, Zhiyi, "The pricing game of celebrities in sponsored viral marketing in online social networks," Ph.D. Thesis, Department of Electrical & Electronic Engineering, The University of Hong Kong, September 2016. (Postdoctoral Research Fellow, The University of Hong Kong.)
77. Lin, Junhao, "Energy management in power grid with power flow routing," Ph.D. Thesis, Department of Electrical & Electronic Engineering, The University of Hong Kong, September 2016.
78. Ye, Jiancheng, "Self-tuning active queue management for combating bufferbloat," Ph.D. Thesis, Department of Electrical & Electronic Engineering, The University of Hong Kong, April 2018. (Co-supervised with Dr. KC Leung; Huawei Technologies).
79. Gu, Jiatao, "Efficient neural machine translation," Ph.D. Thesis, Department of Electrical & Electronic Engineering, The University of Hong Kong, August 2018. (Nominated for Best PhD Thesis Award; Research Scientist, Facebook AI Research.)
80. Chen, Yun, "Knowledge transfer for improved neural machine translation," Ph.D. Thesis, Department of Electrical & Electronic Engineering, The University of Hong Kong, August 2018. (Research Scientist, Huawei Noah's Ark Lab)
81. Mao, Yijie, "Rate-splitting multiple access for downlink communication systems," Ph.D. Thesis, Department of Electrical & Electronic Engineering, The University of Hong Kong, August 2018. (Postdoctoral Research Fellow, Imperial College, UK.)
82. Wen, Jiayao, "Network management and allocation design in software defined wireless networks," Ph.D. Thesis, Department of Electrical & Electronic Engineering, The University of Hong Kong, December 2018 (Researcher, ASTRI).
83. Wang, Jiao, "Security performance, attack detection, and attack identification in smart grid," Ph.D. Thesis, Department of Electrical & Electronic Engineering, The University of Hong Kong, December 2018.
84. Li, Yan, "Marketing and privacy under information diffusion in online social networks," Ph.D. Thesis, Department of Electrical & Electronic Engineering, The University of Hong Kong, January 2019 (Researcher, ASTRI).

85. Sun, Stephanie, "Optimizing sensor placement for environmental monitoring," Ph.D. Thesis, Department of Electrical & Electronic Engineering, The University of Hong Kong, April 2020 (Postdoc, Chinese University of Hong Kong Shenzhen Campus).
86. Wang, Yong, "Neural machine translation with a unified framework of transferable models," Ph.D. Thesis, Department of Electrical & Electronic Engineering, The University of Hong Kong, May 2020 (Microsoft Research Asia).
87. Chu, Kai-Fung, "Artificial intelligence empowered autonomous vehicles on-demand system for smart cities," Ph.D. Thesis, Department of Electrical & Electronic Engineering, The University of Hong Kong, August 2020. (Co-supervised with Dr. Albert Lam; Research Fellow, Cranfield University.)
88. Cao, Miaomiao, "Intelligent traffic congestion alleviation at intersections based on deep reinforcement learning," Ph.D. Thesis, Department of Electrical & Electronic Engineering, The University of Hong Kong, August 2021.
89. Guo, Peiyang, "A utility-centric and fairness-based design for smart demand response tariffs," Ph.D. Thesis, Department of Electrical & Electronic Engineering, The University of Hong Kong, October 2021. (Co-supervised with Dr. Jacqueline CK Lam.)
90. Yu, Yangwen, "AI-driven identification and recovery of missing spatial-temporal data: a case study of missing data from air pollution monitoring stations," Ph.D. Thesis, Department of Electrical & Electronic Engineering, The University of Hong Kong, August 2022. (Co-supervised with Dr. Jacqueline CK Lam; Postdoctoral Fellow, HKU.)
91. Bai, Ruiqiao, "An interpretable machine-learning approach for fine-grained income estimation in a developed context," Ph.D. Thesis, Department of Electrical & Electronic Engineering, The University of Hong Kong, Feb 2023. (Co-supervised with Dr. Jacqueline CK Lam; Researcher, China Mobile)
92. Han, Yang, "Exploring causality in temporal-spatial analysis with artificial intelligence," Ph.D. Thesis, Department of Electrical & Electronic Engineering, The University of Hong Kong, May 2023. (Co-supervised with Dr. Jacqueline CK Lam; Nominated for Best PhD Thesis Award (pending); Research Assistant Prof., HKU)
93. Zhang, Qi, "Domain-specific deep learning with environmental and medical applications," Ph.D. Thesis, Department of Electrical & Electronic Engineering, The University of Hong Kong, July 2023. (Co-supervised with Dr. Jacqueline CK Lam: Finance Trader.)

MPhil Thesis Supervision Completed

1. Ko, Lawrence, "A multi-agent model for DNA analysis," MPhil Thesis, Department of Electrical & Electronic Engineering, The University of Hong Kong, August 2000 (Co-supervised with L. Cao and Chris Yeung).
2. Hu, Yurong, "Datagram routing for low earth orbit satellite networks," MPhil Thesis, Department of Electrical & Electronic Engineering, The University of Hong Kong, August 2001.
3. Lam, Fung, "Internet inter-domain traffic engineering and optimization," MPhil Thesis, Department of Electrical & Electronic Engineering, The University of Hong Kong, August 2001 (Co-supervised with Wing Cheong Lau).
4. Yung, Chor Ho, "A mobile object container for dynamic component composition," MPhil Thesis, Department of Electrical & Electronic Engineering, The University of Hong Kong, August 2001 (Co-supervised with Chris Yeung).
5. Cheung, Chun Lung, "Data warehousing mobile code design," MPhil Thesis, Department of Electrical & Electronic Engineering, The University of Hong Kong, August 2001 (Co-supervised with Chris Yeung).

6. Cheung, Yee Him, "Secure object spaces for global information retrieval (SOSGIR)," MPhil Thesis, Department of Electrical & Electronic Engineering, The University of Hong Kong, August 2001 (Co-supervised with Chris Yeung).
7. Chen, Yingying, "Micro-mobility management for next-generation wireless networks," MPhil Thesis, Department of Electrical & Electronic Engineering, The University of Hong Kong, December 2004.
8. Hui, Pan, "UNO: Enabling person-centered and person-based computing," MPhil Thesis, Department of Electrical & Electronic Engineering, The University of Hong Kong, December 2004.
9. Chan, Jonathan Siu Kei, "Scheduling algorithms for data distribution in peer-to-peer collaborative file distribution networks," MPhil Thesis, Department of Electrical & Electronic Engineering, The University of Hong Kong, December 2006.
10. Sun, Yijiang, "Distributed scheduling in multihop ad hoc networks," MPhil Thesis, Department of Electrical & Electronic Engineering, The University of Hong Kong, March 2008.
11. Lai, Chengdi, "Congestion control for Transmission Control Protocol (TCP) in wireless networks," MPhil Thesis, Department of Electrical & Electronic Engineering, The University of Hong Kong, August 2011. (Co-supervised with Ka-Cheong Leung, awardee of the Li Ka Shing Prize for Best MPhil Thesis at the University of Hong Kong, Fulbright Junior Fellowship, and RGC Hong Kong PhD Fellowship.)
12. Kong, Chenguang, "Collaborative streaming in mobile social networks," MPhil Thesis, Department of Computer Science, The University of Hong Kong, Nov 2011. (Co-supervised with Chuan Wu.)

Current Thesis Supervision

Two PhD students.

Courses Developed

- ELEC8108 Deep Learning and Applications, Second Semester, 2019 – 2020, co-developed with Dr. Jacqueline CK Lam. Taught every year since then.
- ELEC8105 Performance Analysis of Computer and Communication Systems: Mathematical Foundation, Principles, and Applications, University of Hong Kong, Second Semester, 2007 - 2008, co-developed with Dr. Guang Liang Li.
- ELEC8104 Current Theories of Real Numbers, Measure, Probability, and Stochastic Processes, University of Hong Kong, Second Semester, 2006 - 2007, co-developed with Dr. Guang Liang Li.
- ELEC8103 New Queueing Theory, University of Hong Kong, First Semester, 2005 - 2006, co-developed with Dr. Guang Liang Li.
- ELEC6051 Internet technologies and applications, University of Hong Kong, Second Semester, 1999 - 2000.
- 62951 Distributed Multimedia Systems, University of Hong Kong, Second Semester, 1997 - 98.
- EE599 Advanced Topics in Computer Networks, USC, Fall 1983.
- EE599 Distributed Databases, USC, Spring 1989.
- EE599 Performance Models of Distributed Databases, USC, Spring 1990.
- EE650 Personal Communication Systems, USC, Spring 1997.

Tutorials and short courses

1. "Tutorial on Communications Networks," IEEE International Telemetry Conference, San Diego, California, 9/82.

2. "Communications Networks," IEEE Computer Society Tutorial Week, Los Angeles, California, 8/86.
3. "Multiple Access Communications Networks," Workshop on Multiple Access Communications Networks, National Taiwan University, Taipei, Taiwan, 7/87.
4. "Computer Communication Networks," National Technological University (NTU)/Association of Media-Based Continuing Education For Engineers, Inc. (AMCEE) Satellite Course, Los Angeles, California, 6/88.
5. "Computer Communication Networks," United Nations Development Program, Kharagpur, India, 3/89.
6. "Distributed Databases," NTU/AMCEE Satellite Course, Los Angeles, California, 4/89.
7. "Intelligent Networks," IEEE Singapore International Conference on Networks, Singapore, 7/89.
8. "Mobile Packet Radio Networks," Department of Electronic Engineering, National Taiwan Institute of Technology, Taipei, Taiwan, 7/89.
9. "Intelligent Networks," NTU/AMCEE Satellite Course, Los Angeles, California, 10/89.
10. "Computer Communication Networks," NTU/AMCEE Satellite Course, Los Angeles, California, 2/90.
11. "Computer Communication Networks," Institute for Information Industry, Taipei, Taiwan, 9/90.
12. "Computer Communication Networks," IEEE TENCON 90, Hong Kong, 9/90.
13. "High-Speed Communication Networks," NTU/AMCEE Satellite Course, Los Angeles, California, 7/91.
14. "High-Speed Communication Networks," National Tsing Hua University, Hsinchu, Taiwan, 8/91.
15. "High-Speed Communication Networks," IEEE Hong Kong Section, Hong Kong, 8/91.
16. "Design and Implementation of High-Speed Communication Networks," Information Communication Institute of Singapore, Singapore, 9/91.
17. "Local Area Networks," NTU/AMCEE Satellite Course, Los Angeles, California, 11/91.
18. "High-Speed Communication Networks," IEEE International Symposium on Communications, Tainan, Taiwan, 12/91.
19. "Local Area Networks and Internetworking," Teletech, Inc., Hong Kong, 12/91.
20. "Distributed Databases," NTU/AMCEE Satellite Course, Los Angeles, California, 5/92.
21. "Design and Implementation of High-Speed Communication Networks," Information Communication Institute of Singapore, Singapore, 7/92.
22. "Distributed Databases," Telecommunication Laboratories, Ministry of Communications, Chung-Li, Taiwan, 7/92.
23. "Computer Communication Networks," NTU/AMCEE Satellite Course, Los Angeles, California, 8/92.
24. "High Speed Communication Networks," NTU/AMCEE Satellite Course, Los Angeles, California, 10/92
25. "Personal Communication Networks," Telecommunication Laboratories, Ministry of Communications, Chung-Li, Taiwan, 12/92.
26. "Personal Communication Networks," NTU/AMCEE Satellite Course, Los Angeles, California, 3/93.
27. "Local Area Networks and Internetworking," NTU/AMCEE Satellite Course, Los Angeles, California, 9/93.
28. "Computer Communication Networks," NTU/AMCEE Satellite Course, Los Angeles, California, 10/93.
29. "High Speed Networks," NTU/AMCEE Satellite Course, Los Angeles, California, 2/94.

30. "Personal Communication Networks," NTU/AMCEE Satellite Course, Los Angeles, California, 4/94.
31. "Personal Communication Systems," CityU Business and Industrial Club, City University of Hong Kong, Hong Kong, 5/95.
32. "High Speed Networks," NTU/AMCEE Satellite Course, Los Angeles, California, 10/95.
33. "Personal Communication Systems," NTU/AMCEE Satellite Course, Los Angeles, California, 11/95.
34. "Distributed Multimedia Systems," NTU/AMCEE Satellite Course, Los Angeles, California, 5/96.
35. "High Speed Networks," NTU/AMCEE Satellite Course, Los Angeles, California, 6/96.
36. "Distributed Multimedia Systems," 1996 Pacific Workshop on Distributed Multimedia Systems, Hong Kong, 6/96.
37. "Distributed Multimedia Systems," International Conference on Multimedia Modeling, Toulouse, France, 11/96.
38. "Personal Communication Systems," sponsored by the University of Hong Kong, Hong Kong Government Industry Dept., IEE Hong Kong, and IEEE Hong Kong Section, Hong Kong, 12/96.
39. "Personal Communication Systems," World Technology Consultation Corp., Taipei, Taiwan, 12/96.
40. "Telecommunications Network," Lucent Technologies MSE Conf., Qingdao, China, 11/98.
41. "Telecommunications Network Fundamentals," Lucent Technologies Learning and Performance Centre, Singapore, 3/99.
42. "Telecommunications Network Fundamentals," Lucent Technologies Cable Network Systems Conf., Cebu, the Philippines, 3/99.
43. "Telecommunications Network Fundamentals," Lucent Technologies Learning and Performance Centre, Hong Kong, 5/99.
44. "Internet Telephony," IEEE TENCON 99, Cheju, Republic of Korea, 9/99.
45. "Internet Telephony," IFIP Broadband Communications '99, Hong Kong, 11/99.
46. "Quality of service (QoS) support for broadband wireless networks," IEEE INFOCOM, Anchorage, Alaska, 4/2001.
47. "Next-generation wireless networks," National Taiwan University, National Science Council Chip Design Center, and IEEE SSCS Taipei Chapter, Hsinchu, Taiwan, 9/2002.
48. "Adaptive packet scheduling in wireless networks," ACM SIGCOMM Asia Workshop, Beijing, China, 4/2005.

Invited Lectures

1. "Performance Analysis of Unreliable Communications Networks," Jet Propulsion Laboratory, California Institute of Technology, Pasadena, CA, 3/82.
2. "Distributed Databases," TRW, Los Angeles, CA, 4/82.
3. "Communications Networks," USC Industrial Associates Research Review, USC, Los Angeles, CA, 6/82.
4. "Research in Communications Networks," Department of Electrical Engineering, University of Hong Kong, Hong Kong, 1/83.
5. "Distributed Databases," Monterey Park City Hall, Monterey Park, CA, 2/83.
6. "Research in Communications Networks," USC Industrial Associates Research Review, USC, Los Angeles, CA, 5/83.
7. "A New Approach to Network Topology Design," Jet Propulsion Laboratory, California Institute of Technology, Pasadena, CA, 6/84.

8. "Performance Analysis of CDMA Spread Spectrum Networks," Communication Sciences Institute Research Review, Davidson Conference Center, University of Southern California, Los Angeles, CA, 10/84.
9. "Research in Distributed Databases," DoD Joint Services Electronics Program Research Review, 11/84.
10. "Routing Strategies of Multihop Packet Radio Networks," UCLA, Los Angeles, CA, 1/85.
11. "An Iterative Model to analyze Multihop Packet Radio Networks," ARPA Survivable Radio Network Analysts' Workshop, Washington, DC, 3/85.
12. "Research in Spread Spectrum Communications Networks," USC Electrical Engineering Department Research Review, USC, Los Angeles, CA, 4/85.
13. "LMSS Network Protocols," 1985 Land Mobile Satellite Seminar, Davidson Conference Center, USC, Los Angeles, CA, 4/85.
14. "The Event-Based Reliability Model for Communications Networks with Dependent Failures," AFOSR Reliability Workshop, Shenandoah National Park, VA, 5/85.
15. "Routing Algorithms in Multihop Packet Radio Networks," USC Industrial Associates Research Review, USC, Los Angeles, CA, 5/85.
16. "The Event-Based Reliability Model for Communications Networks with Dependent Failures," Graduate School of Management, University of Rochester, Rochester, New York, 9/85.
17. "Communications Networks," Chung Shan Institute of Science and Technology, Lung-Tan, Taiwan, 12/85.
18. "A New Multiple Access Algorithm for Local Area Networks," Computer Science Department, National Chiao Tung University, Taiwan, 12/85.
19. "Routing Algorithms in Multihop Radio Networks," Electrical Engineering Department, National Taiwan University, Taipei, Taiwan, 12/85.
20. "Performance Comparisons of Acknowledgment Protocols for Multihop Spread Spectrum Networks," Communication Sciences Institute Research Review, Davidson Conference Center, University of Southern California, Los Angeles, CA 2/86.
21. "The Proxy Concurrency Control Algorithm for Distributed Database Systems," TRW, Inc., Redondo Beach, CA 5/86.
22. "The Fixed Assignment Retransmission ALOHA Multiple Access Scheme," AT&T Bell Labs, Holmdel, NJ 6/86.
23. "Proposed Routing Strategies for the Mobile Subscriber Equipment (MSE) Network," California Institute of Technology, Pasadena, CA 10/86.
24. "The Precedence-Assignment Model for Distributed Database Concurrency Control Algorithms," UNISYS (formerly, SDC), Santa Monica, CA 12/86.
25. "Land Mobile Satellite Network Multiple Access Algorithms," Telecommunication Training Institute, Taipei, Taiwan, 12/86.
26. "Land Mobile Satellite Networks," Telecommunication Laboratory, Chung-Li, Taiwan, 6/87.
27. "Multiple Access Protocols," Department of Electrical Engineering, University of Hong Kong, Hong Kong, 7/87.
28. "The Precedence-Assignment Model for Distributed Database Concurrency Control Algorithms," IBM Thomas J. Watson Research Center, White Plains, NY, 8/87.
29. "Receiver-Initiated Multiple Access Protocol in Packet Radio Networks," Bell Communications Research, Morristown, NJ, 8/87.
30. "Diversity Routing in Communications Networks," Computer Communications Workshop, Eastsound, WA, 9/87.
31. "Multiple Access Communications Networks," The Aerospace Corp., El Segundo, CA, 11/87.

32. "Multiple Access Communications Networks," IEEE Information Theory Society Seminar, El Segundo, CA, 4/88.
33. "Local Area Networks," Winbond Electronics Corp., Hsinchu, Taiwan, 7/89.
34. "Mobile Radio Networks," Electronics Research and Service Organization, Industrial Technology Research Institute, Hsinchu, Taiwan, 7/89.
35. "Multiple Access Communications Networks," Distinguished Lecture, California Polytechnic Institute, Pomona, CA, 2/90.
36. "Mobile Satellite Networks," Department of Electrical Engineering, National Cheng Kung University, Tainan, Taiwan, 9/90.
37. "Intelligent Network," Telecommunication Laboratory, Chung-Li, Taiwan, 9/90.
38. "Channel Modeling in Mobile Radio Networks," Computer and Communication Laboratory, Industrial Technology Research Institute, Hsinchu, Taiwan, 9/90.
39. "Distributed Databases," Computer and Communication Laboratory, Industrial Technology Research Institute, Hsinchu, Taiwan, 9/90.
40. "Abortion-Free Distributed Deadlock Detection/Resolution Algorithm," Department of Computer Science, National Tsing Hua University, Hsinchu, Taiwan, 9/90.
41. "Replication Control Protocols in Distributed Databases," IBM Santa Teresa Labs., San Jose, CA, 10/90.
42. "The Multichannel Architecture for Deflection Routing in High Speed Networks," IEEE MAN Workshop, Captiva Island, FL, 11/90.
43. "Intelligent Network," CESASC Technical Symposium, Los Angeles, CA, 3/91.
44. "Network Management Protocols in High-Speed Networks," Information Sciences Institute, USC, Marina del Rey, CA, 7/91.
45. "Transaction Response Time Model for Distributed Databases," Hughes Aircraft, Space And Communications Group, El Segundo, CA, 8/91.
46. "Distributed Databases," Computer Science Department, National Chiao Tung University, Hsinchu, Taiwan, 8/91.
47. "Research in High-Speed Communication Networks," Information Communication Institute of Singapore, Singapore, 9/91.
48. "Research and Development directions in the USA on Intelligent Networks and High-Speed Communication Networks," Information Communication Institute of Singapore, Singapore, 9/91.
49. "Distributed Databases," Singapore Computer Society/Society for Information Management, Singapore, 9/91.
50. "Current Research in Communication Networks," National University of Singapore, Singapore, 9/91.
51. "Congestion Avoidance in High-Speed Networks," Computer Communications Workshop, Monterey, CA, 10/91.
52. "Teaching and Research Activities in the USC Communication Sciences Institute," National Central University, Chung-Li, Taiwan, 12/91.
53. "Concurrency Control in Distributed Databases," Telecommunication Laboratory, Chung-Li, Taiwan, 12/91.
54. "Replication Control Protocols in Distributed Databases," Telecommunication Laboratory, Chung-Li, Taiwan, 12/91.
55. "Multiple Access Networks," Chung Shan Institute of Science and Technology, Lung-Tan, Taiwan, 12/91.
56. "Congestion Control in High-Speed Networks," panelist on High-Speed Network panel discussion, IEEE International Symposium on Communications, Tainan, Taiwan, 12/91.

57. "Research in Mobile Communications: Networking Issues," Communication Sciences Institute Research Review, Davidson Conference Center, University of Southern California, Los Angeles, CA, 2/92.
58. "Research in Mobile Communications: Networking Issues," IEEE/IEE Seminar, City Polytechnic of Hong Kong, 7/92.
59. "Traffic Control in High-Speed Networks," Communication Systems Development Lab., Mitsubishi Electric Corp., Tokyo, Japan, 11/92.
60. "Research in Mobile Communications: Networking Issues," Korea Telecom Research Center, Seoul, Korea, 11/92.
61. "Traffic Control in High-Speed Networks," Department of Electronic Engineering, Seoul National University, Seoul, Korea, 11/92.
62. "Research in Mobile Communications: Networking Issues," Department of Electronic Engineering, Korea Advanced Institute of Science and Technology, Taejon, Korea, 11/92.
63. "Traffic Control in High-Speed Networks," Department of Electrical Engineering, Hong Kong University of Science and Technology, Hong Kong, 6/93.
64. "Distributed Databases in High-Speed Networks," Department of Electrical Engineering, Hong Kong University of Science and Technology, Hong Kong, 6/93.
65. "Distributed Databases in High-Speed Networks," Department of Electrical Engineering, University of Hong Kong, Hong Kong, 6/93.
66. "Research Directions in High-Speed Networks," Department of Electrical Engineering, National Central University, Chung-Li, Taiwan, 7/93.
67. "Architecture and Control for All-Optical Networks," Department of Electrical Engineering, National Taiwan University, Taipei, Taiwan, 7/93.
68. "Traffic Control in ATM Networks," Department of Electrical Engineering, National Central University, Chung-Li, Taiwan, 7/93.
69. "Distributed Database Systems in High-Speed Wide-Area Networks," Department of Computer Science, National Tsing Hua University, Hsin-Chu, Taiwan, 7/93.
70. "An Algorithm for Optimal Bandwidth Assignment in ATM Virtual Path Networks," Department of Electrical Engineering, National Chung Cheng University, Chia-Yi, Taiwan, 7/93.
71. "Traffic Shaping in ATM Local Area Networks," Computer Communications Workshop, San Diego, CA, 10/93.
72. "Research Directions in Wireless Communications: Networking Issues," International Workshop on Lightwave, Wireless and Networking Technologies, Chinese University of Hong Kong and Hong Kong Telecom, Hong Kong, 8/94.
73. "Research Directions in Wireless Communications: Networking Issues," Tsinghua University, Beijing, China, 10/94.
74. "Research Directions in Wireless Communications: Networking Issues," Peking University, Beijing, China, 10/94.
75. "Research Directions in High Speed Networks," The Hong Kong Institution of Engineers, Hong Kong, 10/94.
76. "Architecture and Control for All-Optical Networks," Department of Information Engineering, Chinese University of Hong Kong, Hong Kong, 10/94.
77. "Personal Communication Systems," Invited Speaker, IEEE Seminar on Wireless Communications, Hong Kong, 1/95.
78. "Distributed Multimedia Systems," IEE Annual General Meeting Invited Lecture, Hong Kong, 5/95.
79. "Techniques in grants applications: science and engineering," Invited Speaker, Workshop for Research Funding Application, City University of Hong Kong, Hong Kong, 6/95.

80. "Video-on-demand: A promising service in the information superhighway," Shenzhen University, Shenzhen, China, 6/95.
81. "Distributed Multimedia Systems," The Hong Kong Institution of Engineers, Hong Kong, 8/95.
82. "Bandwidth allocation scheme in ATM networks," Pacific Bell, San Ramon, CA, 10/95.
83. "A multiple access scheme for multimedia traffic in wireless ATM," Pacific Bell, San Ramon, CA, 10/95.
84. "Multiple access protocols for personal communication systems," USC Communication Sciences Institute Annual Research Review, Los Angeles, CA, 2/96.
85. "Personal Communication Systems," The Rand Corporation, Santa Monica, CA, 4/96.
86. "The Split and Merge (SAM) protocol for interactive video-on-demand systems," University of Hong Kong, Hong Kong, 6/96.
87. "A shared buffer architecture for interactive disk-array based VOD servers," The Chinese University of Hong Kong, Hong Kong, 6/96.
88. "LA Field Operational Test Evaluation: Preliminary Deployment," California PATH Program-wide Research Meeting, Berkeley, CA, 10/96.
89. "Interactive video-on-demand systems," Academia Sinica, Taiwan, 12/96.
90. "Interactive video-on-demand systems," National Cheng Kung University, Taiwan, 12/96.
91. "Tactical Wireless Networks," Chung Shan Institute of Science and Technology, Lung-Tan, Taiwan, 12/96.
92. "Interactive video-on-demand systems," IEE Hong Kong Center, 12/96.
93. "Location update and paging optimization in Personal Communication Systems," Keynote Speech, International Conference on Personal, Mobile and Spread Spectrum Communications, Hong Kong, 12/96.
94. "The Split and Merge (SAM) protocol for interactive video-on-demand systems," USC Communication Sciences Institute Annual Research Review, Los Angeles, CA, 2/97.
95. "The Split and Merge (SAM) protocol for interactive video-on-demand systems," Chinese University of Hong Kong, Hong Kong, 4/97.
96. "The Split and Merge (SAM) protocol for interactive video-on-demand systems," Hong Kong University of Science and Technology, Hong Kong, 4/97.
97. "Location update and paging optimization in personal communication systems," Distinguished Lecture, University of California at San Diego, CA, 8/97.
98. "Research directions in communication networks," Tsinghua University, Beijing, China, 10/97.
99. "Personal Information Services (PIS) - An application of wideband communications 2012 A.D.," Keynote Speech, 1997 Multimedia Technology and Application Symposium, Taiwan, 12/97.
100. "Network of queues with self-similar traffic," The Chinese University of Hong Kong, Hong Kong, 2/98.
101. "Network of queues with self-similar traffic," The Hong Kong University of Science and Technology, Hong Kong, 2/98.
102. Opening Address, 4th Hong Kong Web Symposium, Hong Kong, 4/98.
103. "Wireless multimedia networks," Keynote Speech, International Conference on Personal, Mobile and Spread Spectrum Communications, Shanghai, China, 6/98.
104. "Information Technology Trends and Applications," IT and Java Technology Seminar, Information Technology Services Department, HKSAR, Hong Kong, 11/98.
105. "Information Technology Trends and Applications," Incheape HKU China Scholarship Programme, Hong Kong, 11/98.

106. "Technology transfer policy and infrastructure at HKU" Retreat Meeting on Innovation and Technology - Our Strategic Plan, Faculty of Engineering, the University of Hong Kong, Hong Kong, 1/99.
107. "Distributed Multimedia Systems," Hong Kong Computer Society, Hong Kong, 1/99.
108. "Information Technology Trends and Applications," Hong Kong Information Infrastructure Conference, organized by the Hong Kong Trade Development Council and the Information Technology and Broadcasting Bureau, Hong Kong, 3/99.
109. "Personal Information Systems - An Application of Broadband Communications," Internet Commerce Expo, IDG Ltd., Hong Kong, 7/99.
110. "Is Hong Kong ready for broadband services?" Moderator of Power Panel, Internet Commerce Expo, IDG Ltd., Hong Kong, 7/99.
111. "Mobile Technology Trends and Applications," Mobile-commerce Seminar, Cable and Wireless Hong Kong Telecom, Hong Kong, 8/99.
112. "Personal Information System - The Next Generation Broadband Service," Plenary Speech, IEEE TENCON, Chenju, Korea, 9/99.
113. "Future Networking Trends," Panelist, IFIP Broadband Communications Conference, Hong Kong, 11/99.
114. "Mobile Technology Trends and Applications," Guest Speaker, High-speed Wireless Seminar, Nokia, Hong Kong, 2/2000.
115. "Versitech Ltd. - Strategies for technology transfer," Guest Speaker, Study Tour for Thai Delegation, the University of Hong Kong, Hong Kong, 5/2000.
116. UNICORN Forum on "After the Internet stock consolidation - What next?" Commentator, the University of Hong Kong, Hong Kong, 5/2000.
117. "Information Technology Trends and Applications," Motorola SPS2000 Asia Pacific Sales Training, Hong Kong, 6/2000.
118. "What HKU is doing to meet the technological needs of e-commerce," Guest Speaker, The Hong Kong University - Industry Round Table Forum on E-Commerce, the University of Hong Kong, Hong Kong, 6/2000.
119. "Generalized Load Sharing for Packet-Switching Networks," Hong Kong Information Theory Colloquium, IEEE Hong Kong Section, Hong Kong, 10/2000.
120. "Information Technology Trends, Enabling Technologies, and Applications," Strategic Information Systems Programme Seminar on e-Office, Civil Service Training and Development Institute, HKSAR, Hong Kong, 1/2001.
121. "Evolution of Cyber Ecology for New Generation," panelist, Cyber Forum 2001: Hong Kong Roadmap in Cyber Economy, HKU Social Sciences Alumni Association Ltd., Hong Kong, 3/2001.
122. "Industry-University Collaboration in the Global Knowledge Based Economy," panelist, MIT Alumni Asia Pacific Conference 2001, Taipei, Taiwan, 4/2001.
123. "Next Generation Wireless Networks: Radio, Networking, and Applications," panelist, IEEE INFOCOM, Anchorage, Alaska, 4/2001.
124. "Information Technology Trends and Applications," K. Wah Group, 15th Annual Corporate Seminar, Hong Kong, 5/2001.
125. "Information Technology Trends and Applications," Cognito College, Hong Kong, 5/2001.
126. "Next Generation Wireless Networks," The 2nd High Level Forum on City Informatization in the Asia Pacific Region - Hong Kong Day, Shanghai, 5/2001.
127. "Technology transfer strategies of Versitech Ltd., the University of Hong Kong technology transfer company," Faculty of Medicine Research Retreat, the University of Hong Kong, Hong Kong, 6/2001.
128. "Technology transfer at the University of Hong Kong," Forum on University Support Services, Economic Information & Agency, Hong Kong, 9/2001 (in Chinese).

129. "Information Technology and Communication Technology commercialization at the University of Hong Kong," Forum on the Commercialization of Research Output from Universities of Beijing and Hong Kong, Beijing-Hong Kong Academic Exchange Centre, Hong Kong, 9/2001 (in Chinese).
130. "I-SSL, a technology spin-off from the University of Hong Kong," The General Chamber of Commerce, Hong Kong, 11/01.
131. "Developments in Information Technology at the University of Hong Kong," Oral report to the Minister of Science and technology, China, The University of Hong Kong, 11/2001.
132. "Transmission range control in multihop packet radio networks," Invited Distinguished Lecture, IEEE Symposium on Ad Hoc Mobile Wireless Networks, held in conjunction with IEEE GLOBECOM 2001, San Antonio, Texas, USA, 11/2001.
133. "What does Burke's Theorem really mean?" Department of Electrical Engineering, University of Southern California, Los Angeles, California, USA, 11/2001.
134. "Developments in Information Technology at the University of Hong Kong," Oral report to the Minister of Education, China, The University of Hong Kong, 1/2002.
135. "Strategies for technology transfer at Versitech Ltd.," Forum on universities' support to Incu-Tech Programme, Hong Kong Science & Technology Parks, Hong Kong, 5/2002.
136. "Efficient resource management for end-to-end QoS guarantees in DiffServ networks," National Chi-Nan University, Puli, Taiwan, 9/2002.
137. "Area of Excellence in Information Technology," Oral report to the Vice Minister of Science and technology, China, The University of Hong Kong, 9/2002.
138. "Next-generation wireless networks," Southeast University, Nanjing, China, 10/2002.
139. "3G multimedia handset project – Phase 2," Holley Communications Co. Ltd., Hangzhou, China, 10/2002.
140. "Next-generation wireless networks," CCL Technology Forum, ITRI, Hsinchu, Taiwan, 11/2002.
141. "Strategies for technology transfer," Invited talk to over one hundred police officers at Superintendent level and above, Police Training School, Hong Kong Police, Hong Kong, 12/2002.
142. "Next-generation wireless networks," Tsinghua University, Beijing, China, 12/2002.
143. "Next-generation wireless networks," Chinese Academy of Science, Beijing, China, 12/2002.
144. "Network of queues: Myths and Realities," Department of Information Engineering, Chinese University of Hong Kong, Hong Kong, China, 1/2003.
145. "Next-generation wireless networks," Distinguished Lecture Series, HKIE Electronics Division, Hong Kong, 2/2003.
146. "Next-generation wireless networks," KC Wong Lecture, Tsinghua University, Beijing, China, 9/2003.
147. "Network of queues: Myths and Realities," Technical Committee on Computer Communications Meeting, IEEE INFOCOM, San Francisco, California, USA, 3/2003.
148. "Network of queues: Myths and Realities," Operations Research Group Seminar, Department of Mathematics, University of Hong Kong, Hong Kong, China, 4/2003.
149. "Packet scheduling to support QoS in wireless networks," KC Wong Lecture, Tsinghua University, Beijing, China, 9/2003.
150. "Ad hoc network routing," KC Wong Lecture, Peking University, Beijing, China, 9/2003.
151. "Network of queues: Myths and Realities," Department of Computer Science, UCLA, Los Angeles, California, USA, 10/2003.
152. "Next-generation wireless networks," EMSD Technology Day, EMSD, HKSAR, Hong Kong, 10/2003.

153. Opening Address, 8th CNKI Digital Library Annual Meeting and Symposium on Knowledge Management and Service, Hong Kong, 11/2003.
154. "Network of queues: Myths and Realities," Bell Labs Research China, Beijing, China, 12/2003.
155. "A novel self-routing address scheme for a network with arbitrary topology," Tsinghua University, Beijing, China, 12/2003.
156. "Ad hoc network routing," Chinese Academy of Science, Beijing, China, 12/2003.
157. "Strategies for developing high-value added industry in Hong Kong," Technical Seminar, Innovation and Technology Commission, HKSAR, 2/2004.
158. "Strategies for developing high-value added industry in Hong Kong," Annual General Meeting, HKIE Electrical Division, 5/2004.
159. "Some thoughts on research in networks," Tsinghua University, Beijing, China, 7/2004.
160. "Vertex-linked infrastructure for ad hoc networks," Tsinghua University, Beijing, China, 7/2004.
161. "From Isolated Queues to Interacting Queues— Is Burke's Theorem Correct?" EE&CS Distinguished Lecture, Department of Electronic Engineering, University of London Queen Mary, London, UK, 11/2004.
162. "Next-generation wireless networks," Distinguished Lecture, University of London Queen Mary, London, UK, 11/2004.
163. "From Isolated Queues to Interacting Queues— Is Burke's Theorem Correct?" 30th IEEE Kansai Section Meeting Lecturer, Kansai, Japan, 1/2005.
164. "Next-generation wireless networks," Kansai University, Japan, 1/2005.
165. "False assumption for resource dimensioning in networking," University of Hong Kong, Hong Kong, China, 4/2005.
166. "From Isolated Queues to Interacting Queues— Is Burke's Theorem Correct?" Tsinghua University, Beijing, China, 4/2005.
167. "False assumption for resource dimensioning in networking," Beijing University, Beijing, China, 4/2005.
168. "False assumption for resource dimensioning in networking," Hong Kong University of Science and Technology, Hong Kong, China, 5/2005.
169. "False assumption in networking," Invited Lecture, IEEE HPSR 2005, Hong Kong, China, 5/2005.
170. "From Isolated Queues to Interacting Queues— Is Burke's Theorem Correct?" Korea University, Seoul, Korea, 5/2005.
171. "False assumption in networking," Seoul National University, Seoul, Korea, 5/2005.
172. "Einstein's question about whether a complete description of reality exists remains open," Hong Kong Physical Society Annual Meeting, City University of Hong Kong, Hong Kong, 6/2005.
173. "False assumption in networking," National Taiwan University, Taipei, Taiwan, 6/2005.
174. "False assumption in networking," National Tsinghua University, Hsinchu, Taiwan, 6/2005.
175. "False assumption in networking," National Chung Cheng University, Chia-Yi, Taiwan, 6/2005.
176. "From isolated queues to interacting queues— Is Burke's Theorem Correct?" National Cheng Chi University, Taipei, Taiwan, 6/2005.
177. "False assumption in networking," National Cheng Chi University, Taipei, Taiwan, 6/2005.
178. "Next-generation wireless networks," Distinguished Lecture Series, Department of Electronic Engineering, Tsinghua University, Beijing, China, 7/2005.
179. "Security of ad hoc wireless networks," Distinguished Lecture Series, Department of Electronic Engineering, Tsinghua University, Beijing, China, 7/2005.

180. "False assumption for resource dimensioning in networking," Distinguished Lecture Series, Department of Electronic Engineering, Tsinghua University, Beijing, China, 7/2005.
181. "Transmission range control in multihop packet radio networks," Distinguished Lecture Series, Department of Electronic Engineering, Tsinghua University, Beijing, China, 7/2005.
182. "Scheduling algorithms for peer-to-peer collaborative file distribution," Distinguished Lecture Series, Department of Electronic Engineering, Tsinghua University, Beijing, China, 7/2005.
183. "Writing winning proposals," Distinguished Lecture Series, Department of Electronic Engineering, Tsinghua University, Beijing, China, 7/2005.
184. "Copenhagen interpretation of Quantum Mechanics is incorrect," Physics Department, Hong Kong University of Science and Technology, 9/2005.
185. "Future trends in wireless communications," Keynote Speech, IEE Mobility Conference 2005, Guangzhou, China, 12/2005.
186. "Future of 3G/4G Next Generation Networks," Keynote Speech, BCS/CIE/IEE/IEEE First International Workshop on Network Architecture and Service Models, Shanghai, China, 12/2005.
187. "False assumption for resource dimensioning in networking," Department of Electrical Engineering, University of Southern California, Los Angeles, California, USA, 12/2005.
188. "Research in communication networks," Tsinghua University, Beijing, China, 7/2006.
189. "Opportunistic Fair Scheduling in Wireless Networks," Tsinghua University, Beijing, China, 7/2006.
190. "Opportunistic fair scheduling in wireless networks," Beijing Jiaotong University, Beijing, China, 7/2006.
191. "Research and development of wireless communications in China – An academic's perspective," Session D16, IEEE Globecom, San Francisco, California, USA, 12/2006.
192. "Adaptive video streaming over multi-channel ad hoc networks," ECE/IEEE Colloquium Series, School of Electrical and Computer Engineering, Cornell University, 12/2006.
193. "Future ubiquitous networks," Huawei, Shenzhen, 2/2007.
194. "Multiobjective optimized bipartite matching for resource allocation," Department of Electrical and Computer Engineering, Curtin University, Perth, Australia, 10/2007.
195. "Distributed opportunistic scheduling in multihop wireless ad hoc networks," Institute of Computing, Chinese Academy of Science, Beijing, 3/2008.
196. "Distributed opportunistic scheduling in multihop wireless ad hoc networks," Cisco Research Center, Shanghai, 4/2008.
197. "Distributed opportunistic scheduling in multihop wireless ad hoc networks," Tsinghua University, Beijing, China, 5/2008.
198. "Digital technology and digital world power," Education Bureau, Hong Kong Government, 6/2008 (數碼科技與數字大國 in Chinese).
199. "Chemical reaction inspired metaheuristic for optimization," Faculty of Engineering Seminar Series, University of Hong Kong, 1/2009.
200. "Impact of information on wireless network performance – An information-theoretic perspective," Chair Professor Group Kick off Workshop, Tsinghua University, 3/2009.
201. "Chemical reaction inspired metaheuristic for optimization," Institute of Computing, Chinese Academy of Science, Beijing, 3/2009.
202. "Impact of information on wireless network performance – An information-theoretic perspective," Nanyang Technological University, Singapore, 5/2009.
203. "A queue with multiple stable regions," Computer Lab, Cambridge University, Cambridge, UK, 7/2009.
204. "A queue with multiple stable regions," Imperial College, London, UK, 7/2009.

205. "TCP-NCL - A unified solution for TCP packet reordering and random packet loss over wireless networks," Kansai University, Osaka, Japan, 9/2009.
206. "Next-generation wireless networks," Keynote Speech, Huawei-Hong Kong Innovation Workshop, Shenzhen, China, 10/2009.
207. "Minimum required information to achieve a given network performance threshold," Indian Institute of Science, Bangalore, India, 10/2009.
208. "Minimum required information to achieve a given network performance threshold," Indian Institute of Technology, Delhi, India, 10/2009.
209. "Next-generation wireless networks," NTT DoCoMo Beijing Labs, Beijing, China, 11/2009.
210. "Next-generation wireless networks," French Telecom. Orange Labs, Beijing, China, 11/2009.
211. "Some thoughts on research strategies," Tsinghua University, Beijing, China, 11/2009.
212. "Research trends in wireless communications and networking," Tsinghua University, Beijing, China, 11/2009.
213. "On Social-network-enabled E-Communications," National Taiwan University, Taipei, Taiwan, 5/2010.
214. "Chemical Reaction Optimization for the Grid Scheduling Problem," Cisco Research, San Jose, California, USA, 6/2010.
215. "Chemical-reaction-inspired metaheuristic for optimization," University of Southern California, Los Angeles, California, USA, 6/2010.
216. "TCP-NCL: A Serialized-Timer Approach for Enhancing Wireless TCP," National Tsinghua University, Hsinchu, Taiwan, 7/2010.
217. "Chemical-reaction-inspired metaheuristic for optimization," National Chiao Tung University, Hsinchu, Taiwan, 7/2010.
218. "TCP-NCL: A Serialized-Timer Approach for Enhancing Wireless TCP," National Chung Cheng University, Chia Yi, Taiwan, 7/2010.
219. "Chemical-reaction-inspired metaheuristic for optimization," National Cheng Kung University, Tainan, Taiwan, 7/2010.
220. "TCP-NCL: A Serialized-Timer Approach for Enhancing Wireless TCP," Tsinghua University, Beijing, China, 10/2010.
221. "Social-network-enabled e-communications," NTT DoCoMo Beijing Labs, Beijing, China, 10/2010.
222. "Social-network-enabled e-communications," King Saud University, Riyadh, Saudi Arabia, 10/2010.
223. "Next-generation wireless networks," King Saud University, Riyadh, Saudi Arabia, 10/2010.
224. "Chemical-reaction-inspired metaheuristic for optimization," King Saud University, Riyadh, Saudi Arabia, 10/2010.
225. "Sensor and actuator networks for smart grid," ICEE Conference, University of Hong Kong, Hong Kong, China, 1/2011.
226. "Low-cost versatile tracking device and technology for logistics applications," LSCM Conference, Hong Kong, China, 3/2011.
227. "Area of Excellence in Information Technology," Hong Kong Science Museum, Hong Kong, China, 4/2011.
228. "Smart grid," Cleantuesdays, Hong Kong, China, 4/2011.
229. "How to prepare for academic jobs," Graduate School, University of Hong Kong, Hong Kong, China.
230. "Queueing theory re-visited," Engineering Seminar Series, University of Hong Kong, Hong Kong, China, 4/2011.

231. "The probabilistic maximum coverage problem in social networks," HP Labs, Palo Alto, California, USA, 5/2011.
232. "The probabilistic maximum coverage problem in social networks," Cisco Research, San Jose, California, USA, 5/2011.
233. "Opportunities for R&D in wireless in China," Laboratories, Innovation Development, Deutsche Telekom AG, Berlin, Germany, 10/2011.
234. "Urban environmental monitoring with mobile sensors and compressive sensing," Inaugural Symposium, Institute of Environment, Energy and Sustainability, Chinese University of Hong Kong, Hong Kong, 10/2011.
235. "Maximizing information propagation in social networks," Tsinghua University, Beijing, China, 11/2011.
236. "Maximizing information propagation in social networks," NTT DoCoMo Beijing Research Labs, Beijing, China, 11/2011.
237. "Social-network-enabled e-communications," Yangon Technological University, Yangon, Myanmar, 11/2011.
238. "Urban environmental monitoring with mobile sensors and compressive sensing," Keynote Address, International Conference on Science and Engineering, Yangon, Myanmar, 12/2011.
239. "Chemical Reaction Optimization," Department of Statistics and Actuarial Science, The University of Hong Kong, Hong Kong, China, 3/2012.
240. "Socialads: A look into information diffusion," Keynote Speaker, MIT South China Seminar on Social Network: Technologies, Economics and Investment, Shenzhen, China, 3/2012.
241. "Maximizing information propagation in social networks," Southeast University, Nanjing, China, 5/2012.
242. "Smart Grid – A potential facilitator for renewable energy development?" Workshop on Guangdong-Hong Kong Energy Collaboration on the Development of Renewable Energy, The University of Hong Kong, Hong Kong, China, 6/2012.
243. "Chemical Reaction Optimization," Networking Science Seminar, Tsinghua University, Beijing, China, 6/2012.
244. "Managing transitions towards sustainable mobility: The way forward," Kadoorie Institute/ICEE Sustainable Mobility Seminar, The University of Hong Kong, Hong Kong, China, 6/2012.
245. "Low-cost versatile tracking device and technology for logistics applications," Invited Speaker, LSCM Logistics Summit, Science Park, Hong Kong, 9/2012.
246. "Inconsistency of measure-theoretic probability," Department of Statistics and Actuarial Science, The University of Hong Kong, Hong Kong, China, 9/2012.
247. "Heterogeneous peer-to-peer networks," Review meeting: CAS-Croucher Funding Scheme for Joint Labs, Kunming, China, 10/2012.
248. "Social network advertising: Information diffusion in social networks," NTT DoCoMo Beijing Labs Advisory Board Meeting, Beijing, 11/2012.
249. "Reconsidering network traffic modeling," Department of Information Engineering, Chinese University of Hong Kong, Hong Kong, China, 2/2013.
250. "Reconsidering network traffic modeling," City University of Hong Kong/The Hong Kong Polytechnic University Seminar Series on Chaos, Control and Complex Networks, Hong Kong, China, 3/2013.
251. "Do we need to send every bit of data?" Presentation in the Business and Technology Panel on Wireless Futures, IEEE Wireless Communication and Networking Conference, Shanghai, China, 4/2013.

252. "Will information and communication technology save the environment?" Keynote Speech, IEEE Wireless Communication and Networking Conference, Shanghai, China, 4/2013.
253. "Social Network Advertising: Information Diffusion in Social Networks," Tsinghua University, Beijing, China, 6/2013.
254. "Will information and communication technology save the environment?" Keynote Speech, Workshop on Advanced Wireless Communications, Chengdu and Nanjing, China, 6/2013.
255. "Social-network-enabled teaching and learning: A networking perspective," Keynote Speech, Social Media 2013, Hong Kong, China, 8/2013.
256. "Design and analysis of TCP AIMD in wireless networks," Kent University, Canterbury, UK, 9/2013.
257. "Sequential pricing for social networks with multi-state diffusion," Imperial College, London, UK, 9/2013.
258. "Coin tosses, continuum and infinite random graphs," City University of Hong Kong/The Hong Kong Polytechnic University Seminar Series on Chaos, Control and Complex Networks, Hong Kong, China, 10/2013.
259. "A paradox of measure-theoretic probability and its implication," HKUST Math Dept, 3/2014.
260. "Big data-enabled WiFi-based tracking," HKIE Hong Kong Electronics Symposium, Hong Kong, 4/2014.
261. "Temporal behavior of social network users in information diffusion," Microsoft Research Asia, Beijing, China, 6/2014.
262. "Smart sensing and adaptive messaging in smart grid," Applied Communication Sciences, Red Bank, New Jersey, USA, 7/2014.
263. "Enabling causality-based air quality monitoring with urban big data," Microsoft Research Asia Faculty Summit, Beijing, China, 10/2014.
264. "Air quality monitoring with urban big data," EPRG, Cambridge University, Cambridge, UK, 11/2014.
265. "Can information and communication technologies save the environment?" Department of Engineering, Cambridge University, Cambridge, UK, 11/2014.
266. "WiFi-based indoor localization," APAC Innovation Summit, Hong Kong, 12/2014.
267. "Research trends in evolutionary computation," Keynote Speaker, Workshop on Computational Intelligence 2014, Hong Kong, China, 12/2014.
268. "Adaptive messaging for smart grid communications," Theme-based Research Scheme Workshop, Department of Electrical and Electronic Engineering, The University of Hong Kong, 3/2015.
269. "Air quality monitoring with urban big data," National University of Singapore/IEEE ComSoc Singapore Section Joint Talk, 5/2015.
270. "Resource allocation in cellular networks with moving small cells," Nanyang Technological University, Singapore, 5/2015.
271. "Breaking the deadlock to air pollution monitoring: What can big data offer?" University of Cambridge, 6/2015.
272. "Adaptive messaging for smart grid communications," China Southern Grid, Guangzhou, China, 7/2015.
273. "Big-data-enabled software-defined cellular networks," HP Labs, Palo Alto, CA, USA, 8/2015.
274. "Spatio-temporal similarity model for Wifi-based indoor localization," LSCM Forum, Hong Kong, 10/2015.
275. "Information technology – The driver for smart grid," Keynote Speech, HKIE Electrical Engineering Symposium, Hong Kong, China, 10/2015.

276. "Modeling video viewing and sharing behaviors in online social network," South China University of Technology, Guangzhou, 11/2015.
277. "Some thoughts on research strategy," South China University of Technology, Guangzhou, 11/2015.
278. "Air pollution and social justice in Hong Kong: An interdisciplinary study," Asia Global Institute Seminar, The University of Hong Kong, 3/2016.
279. "Air pollution and social justice in Hong Kong: Is there an environmental divide?" Asia Global Institute Summer Seminar Series, The University of Hong Kong, 7/2016.
280. "Air pollution and social justice in Hong Kong: Is there an environmental divide?" Department of Electronic and Computer Engineering, The University of British Columbia, Vancouver, Canada, 7/2016.
281. "MyAirMyHealth: An air quality monitoring and social empowerment platform for health-related quality of life improvement," Microsoft Research, Redmond, Washington, USA, 8/2016.
282. "Can information and communication technologies save the environment?" Department of Electronic Engineering, Tsinghua University, Beijing, China, 10/2016.
283. "Air pollution and its social and health implications: An interdisciplinary study," School of Environment, Tsinghua University, Beijing, China, 10/2016 (Joint talk with J. Lam).
284. "Can information and communication technologies save the environment?" China Affairs, University of Hong Kong, Hong Kong, China, 7/2017.
285. "Introduction to the RGC-TBR Project on Smart and Personalized Air Pollution Monitoring and Health Management," TBR Project Launching Ceremony, University of Hong Kong, Hong Kong, 8/2017 (Joint talk with J. Lam).
286. "Big data, air pollution monitoring and human data inputs," HKU-Cambridge Big Data and Clean Energy and Environment Workshop, University of Hong Kong, Hong Kong, 8/2017 (Joint talk with J. Lam).
287. "Panel discussion: Challenges and opportunities for smart and personalized big data research," HKU-Cambridge Big Data and Clean Energy and Environment Workshop, University of Hong Kong, Hong Kong, 8/2017 (Panel Chair).
288. "Deep learning model to estimate air pollution with proxy urban data," Air Pollution Workshop, Computer Lab, University of Cambridge, Cambridge, UK, 10/2017.
289. "UMeAir Apps for personalized air quality monitoring and health management," Air Pollution Workshop, Computer Lab, University of Cambridge, Cambridge, UK, 10/2017 (Joint talk with J. Lam).
290. "Comparison of Air Pollution Trends and Policies in London and Beijing," Good Energy Policy Seminar Series, Department of Economics, University of Cambridge, Cambridge, UK, 10/2017 (Joint talk with J. Lam).
291. "Air pollution and social justice," University of Geneva, Institute for Environmental Sciences, Geneva, Switzerland, 10/2017 (Joint talk with J. Lam).
292. "Fano Labs Ltd.," Workshop on Innovation & Entrepreneurship," The University of Hong Kong, 10/2017.
293. "Introduction to AI research and applications at HKU-Cambridge CEERP," Presentation to Chairman and Directors of Sun Hung Kai Properties, 2/2018.
294. "AI to advance environment and well-being," Microsoft Artificial Intelligence Research Symposium, Hong Kong, 3/2018.
295. "Bayesian Deep Learning: A hybrid approach to predict air pollution," Department of Computer Science and Technology, University of Cambridge, Cambridge, UK, 6/2018.
296. "Bayesian Deep Learning: A hybrid approach to predict air pollution," HP Labs, Palo Alto, CA, USA, 7/2018.

297. "Bayesian Deep Learning: A hybrid approach to predict air pollution," Department of Electrical Engineering Systems, University of Southern California, Los Angeles, CA, USA, 8/2018.
298. "Deep learning model to estimate air pollution," China Academy of Electronics and Information Technology, Beijing, 9/2018.
299. "UMeAir: Predicting momentary happiness towards air quality via machine learning," Department of Electronic Engineering, Tsinghua University, Beijing, 9/2018.
300. "UMeAir: Predicting momentary happiness towards air quality via machine learning," Singapore-Cambridge CREATE Research Centre, Singapore 10/2018.
301. "Meta-learning for low-resource neural machine translation," Facebook Research, Brussels, Belgium, 10/2018.
302. "AI-driven air pollution modeling and environmental injustice," Asia Global Institute, Hong Kong, 10/2018.
303. "AI to advance well-being and society," Keynote Speech, Hong Kong International Artificial Intelligence Summit, Hong Kong, 11/2018.
304. "Would people move to a country with better air quality?" RGC TBR and HKU-Cambridge AI-WiSe Symposium on What is the Future of AI? Socially Beneficial AI? Hong Kong, 1/2019.
305. "What is the future of AI? Socially beneficial AI?" Panel Chair, RGC TBR and HKU-Cambridge AI-WiSe Symposium on What is the Future of AI? Socially Beneficial AI? Hong Kong, 1/2019.
306. "Bayesian LSTM in forecasting air quality data in Beijing and London," RGC TBR and HKU-Cambridge AI-WiSe Symposium on Integrating Knowledge Graph and Deep Learning in Air Pollution Modeling, Hong Kong, 2/2019.
307. "Integration of knowledge graph and deep learning in air pollution forecasting," Panel Chair, RGC TBR and HKU-Cambridge AI-WiSe Symposium on Integrating Knowledge Graph and Deep Learning in Air Pollution Modeling, Hong Kong, 2/2019.
308. "AI and big data to advance well-being and society," HKU Interdisciplinary Quick Talks on Open Data, The University of Hong Kong, 2/2019.
309. "AI to advance well-being and society," Keynote Speech, Finland-HK AI Summit, Co-organized by the University of Helsinki and Hong Kong Science and Technology Park, Hong Kong, 3/2019.
310. "DeepAIR: A hybrid CNN-LSTM framework for fine-grained air pollution forecast," AI for Social Good Symposium, Cambridge, UK, 5/2019.
311. "Air pollution in historical London and contemporary Beijing," In Search of Good Energy Policy book launch, CRASSH seminar series, University of Cambridge, UK, 6/2019.
312. "Improved zero-shot neural machine translation via ignoring spurious correlations," Facebook Research, Menlo Park, CA, USA, 6/2019.
313. "AI to advance well-being and society," Leverhulme Centre for the Future of Intelligence, University of Cambridge, Cambridge, UK, 7/2019.
314. "AI to advance well-being and society," Alan Turing Institute, London, UK, 8/2019.
315. "DeepAIR: A hybrid CNN-LSTM framework for fine-grained air pollution forecast," Tel Aviv University, Tel Aviv, Israel, 11/2019.
316. "DeepAIR: A hybrid CNN-LSTM framework for fine-grained air pollution forecast," Distinguished Speaker, Department of Computer Science, University of Texas at Dallas, USA, 2/2020.
317. "AI-driven air pollution modeling and environmental injustice," Honorary Speaker, S.H. Ho Memorial Symposium, S.H. Ho College, the Chinese University of Hong Kong, Hong Kong, China, 2/2020. (Postponed due to Covid-19).

318. “Knowledge Exchange between HKU-AI WiSe & SHKP and Cyberport,” University of Hong Kong, Hong Kong, China, 6/2020.
319. “What is AI and how can it benefit society?” Thematic talk jointly organized by the Hong Kong Academy of Science and the Academy of Engineering Science, 5/2021.
320. “AI-driven dynamic electronic road pricing to reduce air pollution and traffic congestion,” The Institution of Engineering and Technology (IET) 150th Anniversary Events, Guest of Honour and Speaker, Hong Kong Science and Technology Park, Hong Kong, Aug 14 2021.
321. “Translational Research and Commercialization: Factors for Success,” HKAES Forum on How to Enhance Translational Research and Commercialization, August 27, 2021, Hong Kong.
322. “What is Artificial Intelligence and How Can it Benefit the Society?” Honorary Speaker, S.H. Ho Memorial Symposium on Artificial Intelligence: Technological and Society Impacts, S.H. Ho College, the Chinese University of Hong Kong, Hong Kong, China, Jan 26 2022.
323. “AI and Big Data for Social Good: From Covid Infection Study to Drug Repurposing for the Treatment of Alzheimer’s Disease,” Department of Computer Science and Technology, The University of Cambridge, UK, March 17 2022. (Joint talk with Dr. Jacqueline CK Lam, HKU.)
324. “What is AI and how can it benefit society?” Thematic talk jointly organized by the Hong Kong Academy of Science and the Academy of Engineering Science, 5/2022.
325. “AI and Big Data for Social Good: How Can AI Benefit the Society?” University of Edinburgh, UK, July 25 2022.
326. “AI for social good: A case study of near real-time street-level air pollution estimation and public health management,” Invited talk, IEEE TENCON and IEEE HK Section 50th Anniversary Celebration, IEEE, Hong Kong, Nov 1 2022.
327. “AI for Social Good: AI-driven causal model to determine upstream definitive genetic biomarkers for early detection of late onset Alzheimer’s Disease,” HKU-Cambridge AI for Neuro-disease Research Platform Launching Ceremony & Symposium on AI for Social Good, Jan 19 2023. (Joint talk with Dr. Jacqueline CK Lam, HKU.)
328. “On explainable and interpretable AI,” HKU-AI WiSe Symposium on AI for Social Good on Trustworthy and Explainable AI: A Response to the Emerging Challenges of Large Language Models, University of Hong Kong, Hong Kong, May 31 2023. (Joint talk with Dr. Jacqueline CK Lam and Dr, Yang Han, HKU.)
329. “Shaping Large Language Models for Sound Decision-Makings,” The Alan Turing Institute, London, UK, June 23 2023. (Joint talk with Dr. Jacqueline CK Lam, HKU.)
330. “Is ChatGPT adequate for decision making,” Department of Computer Science and Technology, The University of Cambridge, Cambridge, UK, June 27 2023. (Joint talk with Dr. Jacqueline CK Lam, HKU.)
331. “ChatGPT: Beauty or the Beast?” MIT Innovation Node Event at the University of Hong Kong, Hong Kong, July 15 2023.
332. “AI for Social Good – Shaping generative AI for decision-making,” Department of Electrical Engineering, The California Institute of Technology, Pasadena, CA, Aug 27 2023.
333. “AI for Social Good – Shaping generative AI for decision-making,” Department of Computer Science, The University of Texas at Dallas, TX, Sept 15 2023.
334. “Shaping Large Language Models for Decision-making in Networking,” Panel on LLM and Networking – Challenges and Opportunities, broadcasted on Networking Channel, Sep 20 2023.
335. “AI for Social Good: A Case Study of Street-level Air Pollution Estimation and Public Health Management,” Distinguished Talk, HKETA and HKTDC Symposium on Innovation & Technology, Hong Kong, Oct 13 2023.

336. “Creating an AI System with Social Good Values,” Summer Talk Series, Clare Hall, University of Cambridge, UK, July 17 2024. (Joint talk with Dr. Jacqueline CK Lam, HKU et al.)
337. “Designing a value-driven GAI framework for social good: Embedding social good values into GAI models,” Alan Turing Institute, London, UK, 8/2019. (Joint talk with Dr. Jacqueline CK Lam, HKU et al.)

Selected Mass Media Appearances

- Interviewed in the TV newsmagazine “Focus on Current Affairs,” on the topic of Personal Communication Systems (PCS), broadcast on Asia TV, Hong Kong, July 2 1995.
- Interviewed by the Hong Kong Economic Journal, Hong Kong, November 25 1997.
- Interviewed by Computer World, March 12 1998.
- Interviewed by Tai Kung Po, April 6 1999.
- Interviewed by the Hong Kong Economic Times, Hong Kong, April 16 1999.
- Interviewed by the South China Morning Post, Hong Kong, May 31 1999.
- Interviewed by the Hong Kong Economic Times, Hong Kong, July 19 1999.
- Interviewed by the Hong Kong Economic Times, Hong Kong, August 1999.
- Interviewed by Ming Pao, Hong Kong, Jan 19 2000.
- Interviewed by Sing Tao Daily, Hong Kong, April 27 2000.
- Interviewed by Apple Daily, Hong Kong, June 26 2000.
- Interviewed by Fast Weekly, Hong Kong, August 2000.
- Interviewed by Ming Pao, Hong Kong, April 2001.
- Interviewed by IT for SME, Hong Kong, April 17 2001.
- Interviewed by Cable TV News Channel 1, Hong Kong, July 5 2001.
- Interviewed by Cup Magazine, Chinese United Press Ltd., July 5 2001.
- Interviewed by Computer World, December 2001.
- Interviewed by Asian Business, Jan 2002.
- Interviewed by Asia TV, February 2002.
- Interviewed by RTHK, April 2002.
- Interviewed by TVB, July 2002.
- Interviewed by Cable TV News Channel 1, Hong Kong, Dec 4 2003.
- “4G development in Hong Kong,” Interviewed by FM104, Hong Kong, March 11 and 18 2012.
- “Development of telecom and multimedia industry in Hong Kong,” Interviewed by Broadband TV News Channel, Hong Kong, April 11, 2012.
- “Researchers report significant progress in real-time machine translation.” Our joint work with CMU and NYU (where my student is a visiting student) reported by SLATOR – Language Industry Intelligence, Oct 6 2016.
- “HKU Duo to look at air quality down to the individual street,” South China Morning Post, Sep 17 2017.
- RGC TBR Press Conference, RGC, July 19 2017.
- “Salesforce A.I. researchers came up with a faster way to translate text - and it's based on tech from Google.” Our joint work with Salesforce (where my student is an intern) reported by CNBC on Nov 7 2017 <https://www.cnbc.com/2017/11/06/salesforce-a-i-researchers-develop-faster-machine-translation-model.html>
- “Are the socially deprived exposed to more air pollution in Hong Kong?” Jan 2019 Press Conference, reported by over 30 media channels including TV (TVB Jade), radio (RTHK), and newspapers (SCMP, China Daily, Mingpao, etc.).
- Quoted by the mass media on numerous occasions.

Selected Consulting Affiliations

- Hughes Aircraft Corp., El Segundo, CA, USA.
- JPL, California Institute of Technology, Pasadena, CA, USA.
- Citibank, Hong Kong.
- Motorola, Hong Kong.
- Information Communication Institute of Singapore (ICIS), Singapore.
- Telecommunication Labs, Ministry of Communications, Taiwan.
- Chung Shan Institute of Science and Technology, Lung-Tan, Taiwan.
- Computer Communication Lab., ITRI, Hsinchu, Taiwan.
- National Science Council, Taiwan.
- United Nations Development Program (UNDP).
- LINCOM, Los Angeles, CA, USA.
- ENFORTH Corp., Cambridge, MA, USA.
- TELOS Aerospace Corp., Pasadena, CA, USA.
- Physical Optics Corp., Torrance, CA, USA.
- Calasian Telecommunications, Carson, CA, USA.
- Sunevison, Hong Kong.
- Bluetooth Technology Ltd., Hong Kong.
- Tsing Tech Ltd., Hong Kong.
- Deacons, Hong Kong.

Patents licensed for commercial exploitation

1. Li, V.O.K., and Liao, W.J., “Interactive video-on-demand system,” United States Patent No. 6,543,053 B1, April 1 2003 (Licensed to MediaTek Inc.). This patent has been cited over 400 times, and according to the Technology Transfer Office of HKU, is the most highly cited patent of HKU.
2. Li, V.O.K., Li, C.Y., Wai, A., Yuan, X., “Self-routing address assignment in packet-switched networks,” US Patent No. US 8051199 B2, Nov 1 2011 (Licensed to Jang Partners, LLC).
3. Wai, A., Li, V.O.K., Li, C.Y., Yuan, X., “Deflection routing address method for all-optical packet-switched networks with arbitrary topologies,” US Patent No. 7433597 B2, Oct 7 2008 (Licensed to Jang Partners, LLC).
4. Li, V.O.K., Hu, J.H., and Wong, A.K.K., “Embedded state metric storage for MAP decoder of turbo codes,” US Patent No. 7441174 B2, Oct 21 2008 (Licensed to Jang Partners, LLC).
5. Li, C.Y., Wai, A.P.K., Li, V.O.K., “Method and system for shortening the length of time gaps between data units in a data switching network,” US Patent No. US 8,218,575 B2, July 10 2012 (Licensed to Jang Partners, LLC).
6. Li, V.O.K. and Lam, A.Y.S., “Chemical reaction-type metaheuristic,” United States Patent No. US8706423 B2, April 22 2014 (Licensed to Jang Partners, LLC).
7. Li, V.O.K., Lai, C. and Leung, K.C., “Differentiation among occurrences of packet reordering, congestive packet loss, and random packet loss in wireless networks,” United States Non-Provisional Application No. 12/879,880, September 2010 (Licensed to Jang Partners, LLC).

Other patents

1. Li, C.Y., Wai, A.P.K., Li, V.O.K., “Reversible wavelength channels for optical communication networks,” United States Patent No. 10382158, Aug 13 2019.

2. Li, V.O.K., Lai, C. and Leung, K.C., “Enhancing AQM to combat wireless losses,” US Patent No. 9473974, Oct 18 2016.
3. Hassani Etemad, R., Hou, Y., Li, V.O.K., “Efficient bus selection and reactive power allocation for optimal power flow with shunt compensations,” Chinese Patent No. 201810557975.2, Dec 4 2020. (用于电力系统的OPF优化及无功补偿分配方法)
4. Li VOK, Lam, JCK, Han, Y, Downey, J, Kaistha, T, and Gozes, I (2021) DeepDrug: An expert-led directed graph neural network drug-repurposing framework for identification of a lead combination of drugs protecting against Alzheimer’s Disease and related disorders. United States (Provisional) Patent, No. US63/245,343, Sept 17 2021.
5. Li VOK, Lam, JCK, Han, Y, Downey, J, Kaistha, T, and Gozes, I (2021) DeepDrug: An expert-led directed graph neural network drug-repurposing framework for identification of a lead combination of drugs protecting against Alzheimer’s Disease and related disorders. United States Patent filed, No. 17945933, Sept 15 2022.
6. Li VOK, Lam, JCK, and Han, Y (2024) System and method for identifying disease causing genes. United States (Provisional) Patent, No. US63/661,102, June 18 2024.
7. Li VOK, Lam, JCK, Han, Y, and Cheung, LYL (2024) A system and method for data generation for use in disease detection. United States (Provisional) Patent, No. US63/668,403, July 8 2024.

Journal Publications

1. Li, V.O.K.*, Lam, J.C.K.*, Sun, Y., Han, Y., Chan, K., Wang, S., Crowcroft, J., Downey, J., and Zhang, Q., “A generalized multinomial probabilistic model for SARS-COV-2 infection prediction and public health intervention assessment in an indoor environment,” accepted for publication, Risk Analysis.
2. Han, Y., Song, S., Yu, Y., Lam, J.C.K.*, and Li, V.O.K.*, “UNI-CAL: A universal AI-driven model for air pollutant sensor calibration with domain-specific knowledge inputs,” accepted for publication, IEEE Access.
3. Han, Y., Lam, J.C.K.*, Li, V.O.K.*, Newbery, D., J., Guo, P., and Chan, K., “A deep learning approach for fairness-based time of use tariff design,” accepted for publication, Elsevier Energy Policy.
4. Yu, Y.W., Li, V.O.K.*, Lam, J.C.K.*, and Chan, K., “GCN-ST-MDIR: Graph convolutional network-based spatial-temporal missing air pollution data pattern identification and recovery,” IEEE Trans. on Big Data, Vol. 9, No. 5, Oct 2023, pp. 1347 – 1364.
5. Song, S., Lam, J.C.K.*, Li, V.O.K.*, and Wang, Y., “Personalized ambient pollution estimation based on stationary camera-taken images under cross-camera information sharing in smart city,” IEEE Internet of Things Journal, Vol. 10, No. 17, pp. 15420-15430, Sept 2023.
6. Cao, M., Li, V.O.K., Shuai, Q., “DeepGAL: Intelligent vehicle control for traffic congestion alleviation at intersections,” IEEE Trans. on Intelligent Transportation Systems, Vol. 24, No. 7, July 2023, pp. 6836 - 6848.
7. Fan, Y., Lam, J.C.K., and Li, V.O.K., “Distilling region-wise and channel-wise deep structural facial relationships for FAU (DSR-FAU) intensity estimation,” IEEE Trans. on Affective Computing, Vol. 10, No. 2, April – June 2023, pp. 986 – 997. doi: 10.1109/TAFFC.2021.3129065.
8. Bai, R., Lam, J.C.K.*, Li, V.O.K.*, “What dictates income in NYC? SHAP analysis of income estimation based on socio-economic and Spatial Information Gaussian Processes (SSIG),” Nature Humanities and Social Sciences Communications, Vol. 10, No. 60, Feb 2023. <https://doi.org/10.1057/s41599-023-01548-7>.

9. Yu, Y.W., Li, V.O.K.*, and Lam, J.C.K.*, “Hierarchical recovery of missing air pollution data via Improved Long-short Term Context Encoder Network,” *IEEE Trans. on Big Data* Vol. 9, No. 1, pp. 93-105, 1 Feb. 2023, doi: 10.1109/TBDATA.2021.3123819.
10. Downey, J.*, Li, V.O.K.*, Lam, J.C.K.*, Gozes, I., “Somatic mutations and Alzheimer’s dementia,” *Journal of Alzheimer’s Disease*, vol. 90, no. 2, pp. 475-493, 2022.
11. Li, V.O.K., “AI for social good: A case study of near real-time street-level air pollution estimation and public health management,” *IEEE HK Section 50th Anniversary Magazine*, IEEE, Hong Kong, Nov 2022, p. 12 – 13.
12. Cao, M., Li, V.O.K., Shuai, Q., “A gain with no pain: Exploring intelligent traffic signal control for emergency vehicles,” *IEEE Trans. on Intelligent Transportation Systems*, Vol. 23, No. 10, pp. 17899-17909, Oct. 2022, doi: 10.1109/TITS.2022.3159714.
13. Cao, M., Li, V.O.K., Shuai, Q., “Book your green wave: Exploiting navigation information for intelligent traffic signal control,” *IEEE Trans. on Vehicular Technology*, Vol. 71, No. 8, Aug 2022, pp. 8225 - 8236.
14. Levert-Levitt, E., Shapira, G., Sragovich, S., Shomron, N., Lam, J.C.K., Li, V.O.K., Heimesaat, M., Bereswill, S., Ben Yehuda, A., Sagi-Schwartz, A., and Solomon, Z., Gozes, I., “Oral microbiota signatures in post-traumatic stress disorder (PTSD) veterans,” *Nature Molecular Psychiatry*, Vol. 27, pp. 4590–4598, July 2022.
15. Chu, K.F., Lam, A.Y.S., and Li, V.O.K., “Joint rebalancing and vehicle-to-grid coordination for autonomous vehicle public transportation system,” *IEEE Transactions on Intelligent Transportation Systems*, Vol. 23, No. 7, July 2022, pp. 7156 - 7169.
16. Chu, K.F., Lam, A.Y.S., and Li, V.O.K., “Traffic signal control using end-to-end off-policy deep reinforcement learning,” *IEEE Transactions on Intelligent Transportation Systems*, Vol. 23, No. 7, July 2022, pp. 7184 – 7195.
17. Yu, Y.W., Li, V.O.K., and Lam, J.C.K., “Missing air pollution data recovery based on Long-Short Term Context Encoder,” *IEEE Trans. on Big Data*, Vol. 8, No. 3, June 2022, pp. 711 - 722.
18. Zhang, Q., Han, Y., Li, V.O.K.*, Lam, J.C.K.*, “Deep-AIR: A hybrid CNN-LSTM framework for fine-grained air pollution estimation and forecast in metropolitan cities,” *IEEE Access*, Vol. 10, pp. 55818 – 55841, May 2022.
19. Fan, Y., Li, V.O.K., Lam, J.C.K., “Facial expression recognition with deeply-supervised attention network,” *IEEE Trans. on Affective Computing*, Vol. 13, No. 2, April - June 2022, pp. 1057 - 1071.
20. Wang, A., Zhang, Q., Han, Y., Megason, S., Hormoz, S., Mosaliganti, K.R., Lam, J.C.K.*, and Li, V.O.K.*, “A novel deep learning-based 3D cell segmentation framework for future image-based disease detection,” *Nature Scientific Reports* 10 Jan 2022, 12(1):342. DOI: 10.1038/s41598-021-04048-3.
21. Han, Y., Lam, J.C.K.*, Li, V.O.K.*, Crowcroft, J., Fu, J., Downey, J., Gozes, I., Zhang, Q., Wang, S., and Gilani, Z., “Outdoor PM2.5 concentration and rate of Change in COVID-19 infection in provincial capital cities in China,” *Nature Scientific Reports* 11, 23206 (2021). <https://doi.org/10.1038/s41598-021-02523-5>.
22. Fan, Y., Lam, J.C.K., and Li, V.O.K., “Demographic effects on facial emotion expression: An interdisciplinary investigation of the facial action units of happiness,” *Nature Scientific Reports* 11, 5214 (2021). <https://doi.org/10.1038/s41598-021-84632-9>.
23. Li, V.O.K.*, Lam, J.C.K.*, Cui, J., “AI for Social Good: AI and Big Data Approaches for Environmental Decision-making,” *Elsevier Environmental Science and Policy*, Vol. 125, Nov 2021, pp. 241 - 246.
24. Li, V.O.K.*, Lam, J.C.K.*, Han, Y., and Chow, K., “A big data and artificial intelligence framework for smart and personalized air pollution monitoring and health management in

- Hong Kong,” Elsevier Environmental Science and Policy, Vol. 124, Oct 2021, pp. 441 - 450.
25. Li, V.O.K*, Lam, J.C.K.*, Han, Y., Cheung, L.Y.L., Downey, J., Kaistha, T., and Gozes, I., “Editorial: Designing a protocol adopting an Artificial Intelligence (AI)–driven approach for early diagnosis of Late-Onset Alzheimer’s Disease,” *Journal of Molecular Neuroscience* (2021) 71:1329-1337.
 26. Pan, Y., Shea, Y.F., Ismail, Z., Li, V.O.K., and Lam, J.C.K., “Prevalence of mild behavioral impairment subdomains: A meta-analysis,” *Alzheimer’s & Dementia*, 2021;17 (Suppl. 6): e050559.
 27. Han, Y., Li, V.O.K*, Lam, J.C.K., and Pollitt, M., “How blue is the sky? Estimating the air quality data in Beijing during the Blue Sky Day Period (2008-2012) by the Bayesian Multi-Task LSTM approach,” Elsevier Environmental Science and Policy, Vol. 116, Feb 2021, pp. 69 -77.
 28. Lam, J.C.K.*, Li, V.O.K.*, Han, Y., Zhang, Q., Lu, Z., and Gilani, Z., “In search of bluer skies: Would people move to places of better air qualities?” Elsevier Environmental Science and Policy, Vol. 117, Mar 2021, pp. 8 - 15.
 29. Sragovich, S., Gershovits, M., Lam, J.C.K., Li, V.O.K, and Gozes, I.*, “Putative blood somatic mutations in PTSD-symptomatic soldiers: High impact of cytoskeletal and inflammatory proteins,” *Journal of Alzheimer’s Disease*, Vol. 79, 2021, pp. 1723-1734.
 30. Song, S.*, Lam, J.C.K.*, Han, Y., and Li, V.O.K, “ResNet-LSTM for real-time PM_{2.5} and PM₁₀ estimation using sequential smartphone images,” *IEEE Access*, Vol. 8, Dec 2020, pp. 220069-220082.
 31. Wang, A., Lam, J.C.K.*, Song, S., Li, V.O.K.*, and Guo, P., “Can smart energy information interventions help householders save electricity? A SVR machine learning approach,” Elsevier Environmental Science and Policy, Vol. 112, Oct 2020, pp. 381 - 393.
 32. Bai, R., Lam, J.C.K.*, Li, V.O.K., “Siamese-like Convolutional Neural Network for fine-grained income estimation of developed economies,” *IEEE Access*, Vol. 8, Aug 2020, pp. 162533-162547.
 33. Han, Y., Lam, J.C.K.*, Li, V.O.K and Reiner, D., “A Bayesian LSTM Model to evaluate the effects of air pollution control regulations in Beijing, China,” Elsevier Environmental Science and Policy, Vol. 115, Jan 2021, pp. 26 - 34.
 34. Chu, K.F., Lam, A.Y.S., Fan, C., and Li, V.O.K., “Disturbance-aware neuro-optimal system control using generative adversarial control networks,” *IEEE Trans. on Neural Networks and Learning Systems*, Vol. 32, No. 10, Oct 2021, pp. 4565 – 4576.
 35. Maji, K.J.*, Li, V.O.K., and Lam, J.C.K., “Effects of China’s current air pollution prevention and control action plan on air pollution patterns, health risks and mortalities in Beijing 2014-2018,” Elsevier Chemosphere, Vol. 260, Dec 2020, <https://doi.org/10.1016/j.chemosphere.2020.127572>.
 36. Han, Y., Lam, J.C.K., Li, V.O.K and Zhang, Q., “A domain-specific Bayesian Deep-Learning approach for air pollution forecast,” *IEEE Trans. on Big Data*, June 2020.
 37. Yu, Y.W., Yu, J.Q., Li, V.O.K. and Lam, J.C.K., “A novel Interpolation-SVT approach for recovering missing low-rank air quality data,” *IEEE Access*, Vol. 8, No. 1, April 2020, pp. 74291-74305.
 38. Mao, Y., Clerckx, B., Zhang, J., Li, V.O.K., and Arafah, M., “Max-min fairness of K-user cooperative rate-splitting in MISO broadcast channel with user relaying,” *IEEE Trans. on Wireless Communications*, Vol. 19, No. 10, Oct 2020, pp. 6362 - 6376.
 39. Chu, K.F., Lam, A.Y.S., and Li, V.O.K., “Deep Multi-Scale Convolutional LSTM Network for travel demand and origin-destination predictions,” *IEEE Trans. on Intelligent Transportation Systems*, Vo. 21, No. 8, Aug 2020, pp. 3219-3232.

40. Chu, K.F., Lam, A.Y.S., and Li, V.O.K., “Dynamic lane reversal routing and scheduling for connected autonomous vehicles: Formulation and distributed algorithm,” *IEEE Trans. on Intelligent Transportation Systems*, Vol. 21, No. 6, June 2020, pp. 2557-2570.
41. Lam, J.C.K., Bai, R., Li, V.O.K., Leong, J., Han, Y., and Maji, K.J., “Household wealth proxies for socio-economic inequality policy studies in China,” *Data and Policy*, Cambridge University Press, 2:e1, Jan 2020, pp. 1 – 21.
42. Yu, J.Q., Lam, A.Y.S., Hill, D., and Li, V.O.K., “A Unified Framework for Wide Area Measurement System Planning,” *Elsevier International Journal of Electrical Power & Energy Systems*, Vol. 96, Mar 2018, pp. 43 – 51.
43. Mao, Y., Clerckx, B., and Li, V.O.K., “Rate-splitting for multi-antenna non-orthogonal unicast and multicast transmission: Spectral and energy efficiency analysis,” *IEEE Trans. on Communications*, Vol. 67, No. 12, Dec 2019, pp. 8754-8770.
44. Lam, J.C.K., Cheung, L., Wang, S.S., and Li, V.O.K., “Stakeholder concerns of air pollution in Hong Kong and policy implications: A big-data computational text analysis approach,” *Elsevier Environmental Science and Policy*, Vol. 101, 2019, pp. 374 - 382.
45. Song, B., and Li, V.O.K., “A revisit of infinite population models for evolutionary algorithms on continuous optimization problems,” *MIT Evolutionary Computation*, Vol. 28, No. 1, Spring 2020, pp. 55-85. (Available online Feb 2019.)
46. Yu, J.Q., Hill, D., Li, V.O.K., and Hou, Y., “Synchrophasor recovery and prediction: A graph-based deep learning approach,” *IEEE Internet of Things Journal*, Vol. 6, No. 5, Oct 2019, pp. 7348-7359.
47. Chuai, J. and Li, V.O.K., “An analytical framework for resource allocation between data and delayed network state information,” *IEEE/ACM Trans. on Networking*, Vol. 27, No. 4, Aug 2019, pp. 1487-1500.
48. Yu, J.Q., Lam, A.Y.S., Hill, D., Hou, Y., and Li, V.O.K., “Delay aware power system synchrophasor recovery and prediction framework,” *IEEE Trans. on Smart Grid*, Vol. 10, No. 4, July 2019, pp. 3732 - 3742.
49. Zhu, X., Wen, M.H.F., Li, V.O.K., and Leung, K.C., “Optimal PMU-Communication Link Placement for Smart Grid Wide-Area Measurement Systems,” *IEEE Trans. on Smart Grid*, Vol. 10, No. 4, July 2019, pp. 4446 – 4456.
50. Hussain, N., Jangsher, S., Mao, Y., Li, V.O.K., and Arafah, M., “Joint relay-spectrum selection in Hybrid Millimeter-Microwave Cooperative (HMMC) Network using Fall-back Approach,” *IEEE Access*, Vol. 7, May 2019, pp. 63089 - 63098.
51. Sun, S.C., Li, V.O.K., Lam, J.C.K., and Leslie, I., “Optimal citizen-centric sensor placement for air quality monitoring: A case study of the City of Cambridge,” *IEEE Access*, Vol. 7, April 2019, pp. 47390 - 47400.
52. Guo, P., Lam, J.C.K., and Li, V.O.K., “Drivers of domestic electricity users’ price responsiveness: A novel machine learning approach,” *Applied Energy*, Vol. 235, Feb 2019, pp. 900-913.
53. Sun, S.C., Yu, Y., Li, V.O.K., and Lam, J.C.K., “Multi-type sensor placements in Gaussian spatial fields for environmental monitoring,” *Sensors*, Vol. 19, Jan 2019.
54. Zhu, J.Y., Tang, B., and Li, V.O.K. “A five-layer architecture for big data processing and analytics,” *International Journal of Big Data Intelligence*, Vol. 6, No. 1, Jan 2019.
55. Lu, Z., Li, V.O.K., and Shuai, Q.Q., “Price competition of spreaders in profit-maximizing sponsored viral marketing,” *IEEE Trans. on Computational Social Systems*, Vol. 5, No. 4, Dec 2018, pp. 931 – 941.
56. Zhu, J.Y., Zhang, C., Zhang, H., Zhi, S., Li, V.O.K., Han, J., and Zheng, Y. “pg-Causality: Identifying spatiotemporal causal pathways for air pollutants with urban big data,” *IEEE Trans. on Big Data*, Vol. 4, No. 4, Dec 2018, pp. 571-585.

57. Bai, R., Lam, J.C.K., and Li, V.O.K., "A review on health cost accounting of air pollution in China," *Environment International*, Volume 120, November 2018, pp. 279-294
58. Jing, Y., Guo, B., Wang, Z., Li, V.O.K., Lam, J.C.K., and Yu, Z., "CrowdTracker: Optimized urban moving object tracking using mobile crowd sensing," *IEEE Internet of Things Journal*, Vol. 5, No. 5, Oct 2018, pp. 3452-3463.
59. Lam, A.Y.S., Yu, J.Q., Hou, Y., and Li, V.O.K., "Coordinated autonomous vehicle parking for vehicle-to-grid services: Formulation and distributed algorithm," *IEEE Trans. on Smart Grid*, Vol. 9, No. 5, Sep 2018, pp. 4356 - 4366.
60. Tong, X., Guo, B., Wang, P., Yu, Z., Lam, J.C.K., and Li, V.O.K., "FreeSense: A robust approach for indoor human detection using Wi-Fi signals," *Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies*, Vol. 2, No. 3, Sep 2018.
61. Yu, J.Q., Hou, Y., and Li, V.O.K., "Online false data injection attack detection with wavelet transform and deep neural networks," *IEEE Trans. on Industrial Informatics*, Vol. 14, No. 7, July 2018, pp. 3271-3280.
62. Mao, Y., Clerckx, B., and Li, V.O.K., "Rate-splitting multiple access for downlink communication systems: Bridging, generalizing and outperforming SDMA and NOMA," *EURASIP Journal on Wireless Communications and Networking*, No. 133, 2018.
63. Lam, A.Y.S. and Li, V.O.K., "Opportunistic routing for vehicular energy network," *IEEE Internet of Things Journal*, Vol. Vol. 5, No. 2, April 2018, pp. 533 - 545.
64. Li, V.O.K., Han, Y., Lam, J.C.K., Zhu, J., and Bacon-Shone, J., "Air pollution and environmental injustice: Are the socially deprived exposed to more PM2.5 pollution in Hong Kong?" *Elsevier Environmental Science & Policy*, 80 (2018), pp. 53 - 61.
65. Guo, B., Liu, Y., Wang, L., Li, V.O.K., Lam, J.C.K., and Yu, Z., "Task allocation in spatial crowdsourcing: Current state and future directions," *IEEE Internet of Things Journal*, Vol. 5, No. 3, Mar 2018, pp. 1749 - 1764.
66. Yu, J.Q., Hill, D., Lam, A.Y.S., Gu, J., and Li, V.O.K., "Intelligent time-adaptive transient stability assessment system," *IEEE Trans. on Power Systems*, Vol. 33, No. 1, Jan 2018, pp. 1049 - 1058.
67. Wen, J., Huang, K.B., Yang, S., and Li, V.O.K., "Cache-enabled heterogeneous cellular networks: optimal tier-level content placement," *IEEE Trans. on Wireless Communications*, Vol. 16, No. 9, Sept 2017, pp. 5939 - 5952.
68. Yang, Y., Lu, Z., Li, V.O.K., and Xu, K., "Non-cooperative information diffusion in online social networks under the Independent Cascade Model," *IEEE Trans. on Computational Social Systems*, Vol. 4, No. 3, Sept 2017, pp. 150 - 162.
69. Yu, J.Q., Lam, A.Y.S., Hill, D., and Li, V.O.K., "Delay Aware Intelligent Transient Stability Assessment System," *IEEE Access*, Vol. 5, Aug 2017, pp. 17230 - 17239.
70. Guo, T., Guo, B., Ouyang, Y., Yu, Z., Lam, J.C.K., Li, V.O.K., "CrowdTravel: Scenic spot profiling by using heterogeneous crowdsourced data," *Springer Journal of Ambient Intelligence and Humanized Computing* (2017). <https://doi.org/10.1007/s12652-017-0492-6>.
71. Zhu, J.Y., Sun, S.C., and Li, V.O.K. "An extended spatio-temporal Granger Causality Model for air quality estimation with heterogeneous urban big data," *IEEE Trans. on Big Data*, Vol. 3, No. 3, Sept 2017, pp. 307 - 319.
72. Lam, A.Y.S., Leung, K.C., and Li, V.O.K., "Vehicular energy network," *IEEE Trans. on Transportation Electrification*, Vol. 3, No. 2, June 2017, pp. 392 - 404.
73. Guo, P., Li, V.O.K., and Lam, J.C.K., "Smart demand response in China: Challenges and drivers," *Elsevier Energy Policy*, Vol. 107, Aug 2017, pp. 1 - 10.
74. Jangsher, S. and Li, V.O.K., "Backhaul resource allocation for existing and newly-arrived moving small cells," *IEEE Trans. on Vehicular Technology*, Vol. 66, No. 4, April 2017, pp. 3211 - 3219.

75. Lin, J., Li, V.O.K., Leung, K.C., and Lam, A.Y.S., "Optimal power flow with power flow routers," *IEEE Transactions on Power Systems*, Vol. 32, No. 1, Jan 2017, pp. 531 - 543.
76. Jangsher, S. and Li, V.O.K., "Resource allocation in moving small cell network," *IEEE Trans. on Wireless Communications*, Vol. 15, No. 7, July 2016, pp. 4559 - 4570.
77. Wen, M.H.F. and Li, V.O.K., "Optimal phasor data compression unit installation for wide-area measurement systems - An integer linear programming approach," *IEEE Trans. on Smart Grid*, Vol. 7, No. 6, Nov 2016, pp. 2644 - 2653.
78. Liu, Q., Leung, K.C., Li, V.O.K., Zhao, Z., Yang, G.H., Cui, L., "Fairness and High-Throughput Scheduling for Multihop Wireless Ad Hoc Networks," *Elsevier Ad Hoc Networks*, Vol. 52, 2016, pp. 195 - 206.
79. Lam, A.Y.S., Leung, K.C., and Li, V.O.K., "Capacity estimation for vehicle-to-grid frequency regulation services with smart charging mechanism," *IEEE Trans. on Smart Grid*, Vol. 7, No. 1, Jan 2016, pp. 156 - 165.
80. Yu, J.J.Q. and Li, V.O.K., "A Social Spider Algorithm for solving the non-convex Economic Load Dispatch Problem," *Elsevier Neurocomputing*, Vol. 171, pp. 955 - 965, Jan. 2016.
81. Shuai, Q. and Li, V.O.K., "HTSC and FH_HTSC: XOR-based codes to reduce access latency in distributed storage systems," *KICS/IEEE Journal of Communications and Networks*, Special Issue on Big Data Networking - Challenges and Applications, Vol. 17, No. 6, Dec 2015, pp. 582 - 591.
82. Hong, J. and Li, V.O.K., "Minimum required information to achieve a performance target in a network with memoryless states," *IEEE Transactions on Communications*, Vol. 63, No. 10, Oct 2015, pp. 3754 - 3764.
83. Huang, K.B., Kountouris, M., and Li, V.O.K., "Renewable powered cellular networks: energy field modeling and network coverage," *IEEE Trans. on Wireless Communications*, Vol. 14, No. 8, Aug 2015.
84. Wen, M.H.F., Leung, K.C., Li, V.O.K., He, X., and Kuo, C.-C. J., "A survey on smart grid communication system," *APSIPA Transactions on Signal and Information Processing*, Vol. 4, Aug 2015, doi:10.1017/ATSIP.2015.9.
85. Jangsher, S., Zhou, H., Li, V.O.K., and Leung, K.C., "Joint allocation of resource blocks, power, and energy-harvesting relays in cellular networks," *IEEE Journal on Selected Areas in Comm.*, Special Issue on Wireless Communications Powered by Energy Harvesting and Wireless Energy Transfer, Vol. 33, No. 3, Mar 2015, pp. 482 - 495.
86. Yu, J.J.Q. and Li, V.O.K., "A Social Spider Algorithm for global optimization," *Elsevier Applied Soft Computing*, Vo. 30, May 2015, pp. 614 - 627.
87. Chim, T.W., Yiu, S.M., Li, V.O.K., Hui, L.C.K., and Zhong, J., "PRGA: Privacy-preserving recording & gateway-assisted authentication of power usage information for smart grid," *IEEE Transactions on Dependable and Secure Computing*, Vol. 12, Issue 1, Jan 2015, pp. 85 - 97.
88. Lin, J., Leung, K.C., and Li, V.O.K., "Optimal scheduling with vehicle-to-grid regulation service," *IEEE Internet of Things Journal*, Vol. 1, No. 6, Dec 2014, pp. 556 - 569.
89. Niu, G., Fan, X., Li, V.O.K., Long, Y., and Xu, K., "Multi-source-driven asynchronous diffusion model for video-sharing in online social networks," *IEEE Transactions on Multimedia*, Vol. 16, No. 7, Nov 2014, pp. 2025 - 2037.
90. Liu, Y., Li, V.O.K., Leung, K.C. and Zhang, L., "Topology-transparent scheduling in mobile ad hoc networks with multiple packet reception capability," *IEEE Transactions on Wireless Communications*, Vol. 13, No. 11, Nov. 2014, pp. 5940 - 5953.
91. Liu, Y., Li, V.O.K., Leung, K.C. and Zhang, L., "Performance improvement of topology-transparent broadcast scheduling in mobile ad hoc networks," *IEEE Transactions on Vehicular Technology*, Vol. 63, No. 9, Nov 2014, pp. 4594 - 4605.

92. Li, C.Y., Wai, P. K. A., Li, V.O.K., "Performance model of multichannel deflection-routed all-optical networks with packet injection control," *IEEE Transactions on Communications*, Vol. 62, No. 7, July 2014, pp. 2494 - 2506.
93. Wen, M.H.F. and Li, V.O.K., "Form follows function: Designing smart grid communication systems using a framework approach," *IEEE Power & Energy Magazine*, Vol. 12, No. 3, May/June 2014, pp. 37 – 43.
94. Wen, M.H.F., Xu, J., and Li, V.O.K., "Optimal multistage PMU placement for wide-area monitoring," *IEEE Transactions on Power Systems*, Vol. 28, No. 4, Nov 2013, pp. 4134 - 4143.
95. Fan, X., Li, V.O.K., and Xu, K., "Fairness analysis of routing in opportunistic mobile networks," *IEEE Transactions on Vehicular Technology*, Vol. 63, No. 3, Mar 2014, pp. 1282 – 1295.
96. Liu, Y., Li, V.O.K., Leung, K.C. and Zhang, L., "Is topology-transparent scheduling really inefficient in static multihop networks?" *IEEE Wireless Communications Letters*, Vol. 2, No. 6, Dec 2013, pp. 659 – 662.
97. Liu, Y., Li, V.O.K., Leung, K.C. and Zhang, L., "Topology-transparent broadcast scheduling with erasure coding in wireless networks," *IEEE Communications Letters*, Vol. 17, No. 8, Aug 2013, pp. 1660 – 1663.
98. Leung, K.C., Lai, C., Li, V.O.K., and Yang, D.Q., "A packet-reordering solution to wireless losses in Transmission Control Protocol," *Springer Wireless Networks*, Vol. 19, No. 7, Oct 2013, pp. 1577 - 1593.
99. Chim, T.W., Yiu, S.M., Hui, L.C.K., and Li, V.O.K., "VSPN: VANET-based secure and privacy-preserving navigation," *IEEE Transactions on Computers*, Vol. 63, No. 2, Feb 2014, pp. 510 - 524.
100. Lam, A.Y.S., Li, V.O.K., and Xu, J., "On the convergence of chemical reaction optimization for combinatorial optimization," *IEEE Transactions on Evolutionary Computation*, Vol. 17, No. 5, Oct 2013, pp. 605 - 620.
101. Wang, P., Zhang, L., and Li, V.O.K., "Ray-model-based routing for underwater acoustic sensor networks accounting for anisotropic sound propagation," *IEICE Transactions*, Vol. E96-B, No.8, Aug. 2013, pp. 2060 - 2068.
102. Lam, A.Y.S., Li, V.O.K., and Yu, J.J.Q., "Power-controlled cognitive radio spectrum allocation with chemical reaction optimization," *IEEE Transactions on Wireless Communications*, Vol. 12, No. 7, July 2013, pp. 3180 - 3190.
103. Wang, P., Zhang, L., and Li, V.O.K., "Asynchronous cooperative transmission for three-dimensional underwater acoustic networks," *IET Communications*, Vol. 7, Iss. 4, 2013, pp. 286 - 294.
104. Yu, X., Zhang, W., Zhang, L., Li, V.O.K., Yuan, J., and You I., "Understanding urban dynamics based on pervasive sensing: An experimental study on traffic density and air pollution," Vol. 58, Issues 5 - 6, Elsevier Mathematical and Computer Modeling, Sept 2013, pp. 1328 - 1339.
105. Wang, P., Zhang, L., and Li, V.O.K., "A stratified acoustic model accounting for phase shifts for underwater acoustic networks," *Sensors*, Vol. 13, Issue 5, Special Issue on Last Trends in Acoustic Sensing, May 13 2013, pp. 6183 – 6203. (doi:[10.3390/s130506183](https://doi.org/10.3390/s130506183))
106. Chim, T.W., Yiu, S.M., Hui, L.C.K., and Li, V.O.K., "VANET-based secure taxi service," *Elsevier Ad Hoc Networks*, Vol. 11, Iss. 8, Nov 2013, pp. 2381 – 2390.
107. Xu, J., Li, Q., Li, V.O.K., Li, S.Y. R., and Fan, X., "Improved short adjacent repeat identification using three evolutionary Monte Carlo schemes," *Inderscience International Journal of Data Mining and Bioinformatics*, Vol. 8, No. 4, 2013, pp. 462 - 479.

108. Li, C.Y., Wai, P. K. A., Li, V.O.K., "On wavelength-routed networks with reversible wavelength channels," *IEEE/OSA Journal of Lightwave Technology*, Vol. 31, Issue 9, May 2013, pp. 1409 - 1417.
109. Chim, T.W., Yiu, S.M., Hui, L.C.K., and Li, V.O.K., "Privacy-preserving advance power reservation," *IEEE Communications Magazine*, Aug 2012, pp. 18 – 23.
110. Hu, C., Chim, T.W., Yiu, S.M., Hui, L.C.K., and Li, V.O.K., "Efficient HMAC-based secure communication for VANETs," *Elsevier Computer Networks*, Vol. 56, Issue 9, June 2012, pp. 2292 - 2303.
111. Yu, X., Liu, Y., Zhu, Y., Feng, W., Zhang, L., Rashvand, H.F., and Li, V.O.K., "Efficient sampling and compressive sensing for urban monitoring vehicular sensor networks," *IET Wireless Sensor Systems*, Vol. 2, Issue 3, pp. 214 - 221, September 2012.
112. Chim, T.W., Yiu, S.M., Hui, L.C.K., and Li, V.O.K., "MLAS: Multiple Level Authentication Scheme for VANETs," *Elsevier Ad Hoc Networks*, Vol. 10, 2012, pp. 1445-1456.
113. Lam, A.Y.S., Li, V.O.K., and Yu, J.J.Q., "Real-coded chemical reaction optimization," *IEEE Transactions on Evolutionary Computation*, Vol. 16, No. 3, June 2012, pp. 339 - 353.
114. Lam, A.Y.S. and Li, V.O.K., "Chemical Reaction Optimization: A tutorial," *Springer Memetic Computing*, Feb 2012 (DOI 10.1007/s12293-012-0075-1).
115. Chim, T.W., Cheung, J., Yiu, S.M., Hui, L.C.K., and Li, V.O.K., "SPCS: Secure and Privacy-Preserving Charging-Station Searching using VANET," *Journal of Information Security*, Vol. 3 No. 1, 2012, pp. 59-67. doi: 10.4236/jis.2012.31007.
116. Xu, J., Lam, A.Y.S. and Li, V.O.K., "Chemical reaction optimization for task scheduling in grid computing," *IEEE Transactions on Parallel and Distributed Systems*, Vol. 22, No. 10, Oct. 2011, pp. 1624 - 1631.
117. Chim, T.W., Yiu, S.M., Hui, L.C.K., and Li, V.O.K., "OPQ: OT-based private querying in VANETs," *IEEE Transactions on Intelligent Transportation Systems*, Vol. 12, No. 4, Dec 2011, pp. 1413 – 1422.
118. Zhao, Z., Yang, G.H., Liu, Q., Li, V.O.K., Cui, L., "Implementation and application of a multi-radio wireless sensor networks testbed," *IET Wireless Sensor Systems*, 2011, 1(4): 191-199.
119. Li, C.Y., Wai, P. K. A., and Li, V.O.K., "Performance improvement methods for burst-switched networks," *IEEE/OSA Journal of Optical Communications and Networking*, Vol. 3, No. 2, Feb 2011, pp. 104 – 116.
120. Hong, J. and Li, V.O.K., "The effect of information on scheduling performance in multi-hop wireless networks," *IEEE Transactions on Wireless Communications*, Vol. 9, No. 10, Oct 2010, pp. 3238 – 3246.
121. Lam, A.Y.S. and Li, V.O.K., "Chemical-reaction-inspired metaheuristic for optimization," *IEEE Transactions on Evolutionary Computation*, Vol. 14, No. 3, June 2010, pp. 381-399.
122. Huang, F., Leung, K.C., and Li, V.O.K., "Transmission radius control in wireless ad hoc networks with smart antennas," *IEEE Transactions on Communications*, Vol. 58, No. 8, Aug 2010, pp. 2356 - 2370.
123. Li, C.Y., Cai, L., Wai, P. K. A., Li, V.O.K., and Xu, A., "Wavelength-routed networks with lightpath data interchanges," *IEEE/OSA Journal of Optical Communications and Networking*, Vol. 2, No. 7, pp. 415–426 (2010).
124. Leung, K.C., and Li, V.O.K., "A resequencing model for high-speed packet-switching networks," *Elsevier Computer Communications*, Vol. 33, 2010, pp. 443 - 453.
125. Li, C.Y., Wai, P. K. A., Li, V.O.K., "Parallel transfer optical packet switches," *IEEE/OSA Journal of Lightwave Technology*, Vol. 27, No. 12, pp. 2159-2168, June 2009.

126. Zheng, J., Ansari, N., Li, V.O.K., Shen, X.M., Hassanein, H.S., and Zhang, B.X., "Guest Editorial: Network coding for wireless communication networks," *IEEE JSAC*, Vol. 27, No. 5, June 2009, pp. 577 – 581.
127. Zheng, J., Ansari, N., Chlamtac, I., Li, V.O.K., and Wang, T., "Guest Editorial: Broadband access networks: Architectures and protocols," *IEEE JSAC*, Vol. 27, No. 2, Feb 2009, pp. 97 – 100.
128. Sun, F.L., Li, V.O.K., Diao, Z.F., "Modified bipartite matching for multiobjective optimization: Application to antenna assignments in MIMO systems," *IEEE Transactions on Wireless Communications*, Vol. 8, No. 3, March 2009, pp. 1349 - 1355.
129. Xu, J. and Li, V.O.K., "Request-driven swarming scheme for P2P data streaming," *Elsevier Computer Communications*, Vol. 32, No. 12, 2009, pp. 1410 - 1417.
130. Dong, Y., Chim, T.W., Li, V.O.K., Yiu, S.M., Hui, L.C.K., "ARMR: Anonymous routing protocol with multiple routes for communications in mobile ad hoc networks," *Elsevier Ad Hoc Networks, Special Issue on Privacy and Security in WSNs*, Vol. 7, No. 8, Nov 2009, pp. 1536 - 1550.
131. Sun, F.L., You, M.L., and Li, V.O.K., "Dynamic subcarrier allocation for real-time traffic over multiuser OFDM systems," *EURASIP Journal on Wireless Communications and Networking*, 2009.
132. Cao, Y.X., Leung, K.C., and Li, V.O.K., "Bandwidth-guaranteed fair scheduling with effective excess bandwidth allocation for wireless networks," *IEEE Transactions on Wireless Communications*, Vol. 7, No. 6, June 2008, pp. 2094 – 2105.
133. Han, S., Wang, J., Li, V.O.K., Zhou, S., and Park, K., "Optimal diversity performance of space time block codes in correlated distributed MIMO channels," *IEEE Transactions on Wireless Communications*, Vol. 7, No. 6, June 2008, pp. 2106 – 2118.
134. Zhang, H.X., Zhang, L., Shan, X.M., and Li, V.O.K., "Performance evaluation of adaptive probabilistic search in P2P networks," *IEICE Transactions on Communications*, Vol. E91-B, No. 4, Apr. 2008, pp. 1172 - 1175.
135. Zhang, X., Hong, J., Zhang, L., Shan, X.M., and Li, V.O.K., "CP-TDMA: Coloring- and probability-based TDMA scheduling for wireless ad hoc networks," *IEICE Transactions on Communications*, Vol. E91-B, No. 1, Jan. 2008, pp. 322 - 326.
136. Zhao, M., Yang, Y., Zhu, H., Shao, W., and Li, V.O.K., "Priority-based opportunistic MAC protocol in IEEE 802.11 WLANs," *International Journal of Sensor Networks, Special Issue on Wireless Ad Hoc and Sensor Networks*, Vol. 3, No. 2, 2008, pp. 84 - 94.
137. Lam, R.Y.W., Chan, H.C.B., Chen, H., Dillon, T.S., Li, V.O.K., Leung, V.C.M., "Quantum packet for the next-generation network/ISDN3," *KICS/IEEE Journal of Communications and Networks*, Vol. 10, No. 3, Sept 2008, pp. 316 - 330.
138. Sun, F.L., Li, V.O.K., Diao, Z.F., and Xu, Z.Y., "Medium access control with physical layer assisted link differentiation," *IEEE Transactions on Vehicular Technology*, Vol. 57, No. 2, Mar 2008, pp. 1255 - 1271.
139. Xu, S., Zhou, K., Yeung, K.L., and Li, V.O.K., "Interleaved Traffic Splitting: A promising technique to solve false timeout," *Elsevier Computer Communications*, Vol. 30, No. 18, Dec 2007, pp. 3480 - 3490.
140. Ge, F.X., Shen, D., Peng, Y., Li, V.O.K., "Super-resolution time delay estimation in multipath environments," *IEEE Transactions on Circuits and Systems I*, Vol. 54, No. 9, Sept 2007, pp. 1977 – 1986.
141. Zhang, Z.C. and Li, V.O.K., "Network-supported layered multicast transport control for streaming media," *IEEE Transactions on Parallel and Distributed Systems*, Vol. 18, No. 9, Sept 2007, pp. 1332 - 1344.

142. Dong, Y., Sui, A.F., Yiu, S.M., Li, V.O.K., Hui, L.C.K., "Providing distributed certificate authority service in cluster-based mobile ad hoc networks," *Computer Communications*, Vol. 30, Issue 11-12, September 2007, pp. 2442-2452.
143. Zhang, H., Zhang, L., Shan, X.M., and Li, V.O.K., "An adaptive resource-based probabilistic search algorithm for P2P networks," *IEICE Transactions*, Vol. E90-B, No.7, July, 2007, pp. 1631-1639.
144. Diao, Z.F. and Li, V.O.K., "Fading-aware packet scheduling algorithm in OFDM/MIMO systems," *EURASIP Journal on Wireless Communications and Networking*, Vol. 2007, Article ID 95917, 10 pages, 2007.
145. Yang, D.Q., Shao, W.J., Shen, D.X., and Li, V.O.K., "Hybrid busy tone and carrier sense-based MAC protocol in multi-hop ad hoc networks," *Int. J. Ad Hoc and Ubiquitous Computing*, Vol. 2, No. 4, 2007, pp. 208 - 214.
146. Toh, C.K., Guichal, G., Kim, D., and Li, V.O.K., "Service location protocols for mobile wireless ad hoc networks," *Int. J. Ad Hoc and Ubiquitous Computing*, Vol. 2, No. 4, 2007, pp. 250 – 262.
147. Li, C.Y., Li, G.M., Wai, P. K. A., Li, V.O.K., "Optical burst switching with large switching overhead," *IEEE/OSA Journal of Lightwave Technology*, Vol. 25, No. 2, February 2007, pp. 451-462.
148. Wong, Y.W., Lee, J.Y.B., Li, V.O.K., and Chan, G.S.H., "Supporting interactive video-on-demand with adaptive multicast streaming," *IEEE Trans. on Circuits and Systems for Video Technology*, Vol. 17, No. 2, Feb 2007, pp. 129 - 142.
149. Leung, K.C., Li, V.O.K. and Yang, D.Q., "An overview of packet reordering in Transmission Control Protocol (TCP): Problems, solutions, and challenges," *IEEE Transactions on Parallel and Distributed Systems*, Vol. 18, No. 4, April 2007, pp. 522 - 535.
150. Han, S., Zhou, S., Wang, J., Li, V.O.K., and Park, K., "Suboptimal transmission of orthogonal space-time block codes over correlated distributed antennas," *IEEE Signal Processing Letters*, Vol. 14, No. 2, February 2007, pp. 89 – 92.
151. Chan, J., Li, V.O.K., and Lui, K.S., "Performance comparison of scheduling algorithms for peer-to-peer collaborative file distribution," *IEEE Journal on Selected Areas in Comm., Special Issue on Peer-to-Peer Communications and Applications*, Vol. 25, No. 1, Jan 2007, pp. 146 - 154.
152. Diao, Z.F., Shen, D., and Li, V.O.K., "CPLD-PGPS Scheduler in Wireless OFDM Systems," *IEEE Transactions on Wireless Communications*, Vol. 5, No. 10, Oct 2006, pp. 2923 – 2931.
153. Leung, K.C. and Li, V.O.K., "Transmission Control Protocol (TCP) in wireless networks: issues, approaches, and challenges," *IEEE Communications Surveys and Tutorials*, Vol. 8, No. 4, Fourth Quarter 2006, pp. 64-79.
154. Kong, C.W., Lee, J.Y.B., Hamdi, M., and Li, V.O.K., "Turbo-Slice-and-Patch: An algorithm for metropolitan scale VBR video streaming," *IEEE Transactions on Circuits and Systems for Video Technology*, Vol. 16, No. 3, March 2006, pp. 338 - 353.
155. Zhou, K., Yeung, K.L., and Li, V.O.K., "Nonlinear RED: A simple yet efficient active queue management scheme," *Elsevier Computer Networks*, Vol. 50, No. 18, Dec 2006, pp. 3784 - 3794.
156. Leung, K.C. and Li, V.O.K., "Generalized load sharing for packet-switching networks I: Theory and packet-based algorithm," *IEEE Transactions on Parallel and Distributed Systems*, Vol. 17, No. 7, pp. 694-702, July 2006.
157. Leung, K.C. and Li, V.O.K., "Generalized load sharing for packet-switching networks II: Flow-based algorithms," *IEEE Transactions on Parallel and Distributed Systems*, Vol. 17, No. 7, pp. 703-712, July 2006.

158. Shen, D., Diao, Z.F., Wong, K.K., and Li, V.O.K., "Analysis of pilot-assisted channel estimators for OFDM systems with transmit diversity," *IEEE Trans. on Broadcasting*, Vol. 52, No. 2, June 2006, pp. 193 - 202.
159. Leung, K.C. and Li, V.O.K., "A paracasting model for concurrent access to replicated Internet content," *IEEE Transactions on Multimedia*, Vol. 8, No. 1, February 2006, pp. 90 - 100.
160. Zhang, L., Shen, D., Shan, X., and Li, V.O.K., "An ant-based multicasting protocol in mobile ad hoc networks," *World Scientific International Journal of Computational Intelligence and Applications (IJCIA)*, Vol. 5, No. 2, 2005, 185-199.
161. Liao, W.J., Chang, J.C., Li, V.O.K., "Application layer conference trees for multimedia multipoint conferences using Megaco/H.248," *IEEE Transactions on Multimedia*, Vol. 7, No. 5, Oct. 2005, pp. 951 - 959.
162. Lam, R.Y.W., Chan, H.C.B., Dillon, T.S., Li, V.O.K., Leung, V.C.M., "Integrating connectionless and connection-oriented traffic using quantum packets," *Elsevier Computer Communications*, Vol. 28, No. 8, May 2005, pp. 898 - 907.
163. Zhang, L., Li, V.O.K., and Cao, Z., "Nonbinary Type-II HARQ and its application to an adaptive system," *Wiley International Journal of Communication Systems*, Vol. 18, Issue 2, Feb. 2005, pp. 97 - 117.
164. Wang, W., Liew, S.C., Li, V.O.K., "Solutions to performance problems in VoIP over 802.11 wireless LANs," *IEEE Trans. on Vehicular Technology*, Vol. 54, No. 1, Jan 2005, pp. 366 - 384.
165. Zhang, Q., Wang, Y., Li, V.O.K., Wang, Y., and Zhang, P., "Intelligent Vertical Handoffs between Heterogeneous Communication Networks," *The Journal of China Universities of Posts and Telecommunications*, 2005, Vol. 12, No. 2, pp. 20-25.
166. Chen, J., Chan, S.H.G., Li, V.O.K., "Multipath routing for quality video delivery over bandwidth-limited networks," *IEEE Journal on Selected Areas in Communications (JSAC)*, Vol. 22, No. 10, December 2004, pp. 1920 - 1932.
167. Li, C.Y., Wai, P. K. A., Yuan, X.C., Li, V.O.K., "Deflection routing in slotted self-routing networks with arbitrary topology," *IEEE Journal on Selected Areas in Communications (JSAC), Optical Communications and Networking (OCN) Series*, Vol. 22, No. 9, Nov 2004, pp. 1812 - 1822.
168. Li, V.O.K., Li, C.Y., Wai, P. K. A., "Alternative structures for 2-D MEMS optical switches," *OSA Journal of Optical Networking*, Vol. 3, No. 10, pp.742-757, October 2004.
169. Bakiras, S. and Li, V.O.K., "A scalable architecture for end-to-end QoS provisioning," *Elsevier Science Computer Communications*, Vol. 27, No. 13, August 2004, pp. 1330 - 1340.
170. Ge, F.X., Shen, D., Peng, Y., Li, V.O.K., "Super-resolution TDOA estimation based on eigenanalysis and sequential quadratic programming," *IEE Proceedings - Radar Sonar and Navigation* 151 (4): 197-202, Aug. 2004.
171. Li, C.Y., Wai, P. K. A., Li, V.O.K., "The decomposition of a blocking model for connection-oriented networks," *IEEE/ACM Trans. on Networking*, Vol. 12, No. 3, June 2004, pp. 549 - 558.
172. Toh, C.K., Li, V.O.K., Tsai, W.K., Shih, C.H., Hsieh, H.Y., "MARCH: A MAC Protocol for High Performance Wireless Ad Hoc Networks," *IEICE Trans. Commun.*, Vol. E87-B, No. 2, Feb. 2004, pp. 266 - 275.
173. Leung, K.C. and Li, V.O.K., "Flow assignment and packet scheduling for multipath routing," *IEEE/KICS Journal of Communications and Networks*, Vol. 5, No. 3, Sept. 2003, pp. 230 - 239.

174. Ngo, C.Y. and Li, V.O.K., "Centralized broadcast scheduling in packet radio networks via genetic-fix algorithms," *IEEE Trans. on Communications*, Vol. 51, No. 9, Sept. 2003, pp. 1439 - 1441.
175. Zhuge, L. and Li, V.O.K., "Overlaying CDMA Systems with Interference Differential," *ACM Mobile Networks and Applications*, Vol. 8, No. 3, April 2003, pp. 269-278.
176. Yuan, X. C., Li, V.O.K., Li, C.Y., Wai, P. K. A., "A novel self-routing address scheme for all-optical packet switched networks with arbitrary topology," *IEEE/OSA Journal of Lightwave Technology*, Vol. 21, No. 2, Feb 2003, pp. 329 - 339.
177. Zhu, H., Hang, D., Ma, Z., Cao, Z., Li, V.O.K., "Quality of Service Routing: Problems and Solutions," *Tien Tzu Hsueh Pao / Acta Electronica Sinica*, Vol. 31, No. 1, Jan. 2003, pp.109-116 (in Chinese).
178. Bakiras, S. and Li, V.O.K., "Maximizing the number of users in an interactive video-on-demand system," *IEEE Trans. on Broadcasting*, Vol. 48, No. 4, Dec 2002, pp. 281 - 292.
179. Zhuge, L. and Li, V.O.K., "Reverse-link capacity of multiband overlaid DS-CDMA systems," *ACM Mobile Networks and Applications*, Vol. 7, No. 2, April 2002, pp. 101 - 114.
180. Toh, C.K., Sousa, E., and Li, V.O.K., "Editorial: Special issue on innovations in ad hoc mobile pervasive networks," *IEEE/KICS Journal of Communications and Networks*, Vol. 4, No. 1, March 2002, pp. 1 - 3.
181. Li, V.O.K. and Zhang, Z.C., "Internet multicast routing and transport control protocols," *Proc. of the IEEE*, Vol. 90, No. 3, March 2002, pp. 360 - 391.
182. Hu, Y. and Li, V.O.K., "Satellite-based Internet: A Tutorial," *IEEE Communications*, Vol. 39, No. 3, March 2001, pp. 154 - 162.
183. Cao, Y. and Li, V.O.K., "Scheduling algorithms for broadband wireless networks," *Proc. of the IEEE*, Vol. 89, No. 1, January 2001, pp. 76 - 87.
184. Ju, J. and Li, V.O.K., "TDMA Scheduling Design of Multihop Packet Radio Networks Based on Latin Squares," *IEEE Journal on Selected Areas in Comm.*, Vol. 17, No. 8, Aug 1999, pp.1345 - 1352.
185. Sengodan, S. and Li, V.O.K., "A shared buffer architecture for interactive VOD servers," *Cluster Computing*, Baltzer, Vol. 2, No. 1, 1999, pp. 93 - 103.
186. Win, M.Z., Qiu, X., Scholtz, R.A. and Li, V.O.K., "ATM Based Time-Hopping Spread-Spectrum Multiple-Access Network for Multimedia PCS," *IEEE Journal on Selected Areas in Comm.*, Vol. 17, No. 5, May 1999, pp. 824 - 836.
187. Li, V.O.K., "Hints on writing technical papers and making presentations," *IEEE Trans. on Education*, Vol. 42, No. 2, May 1999, pp. 134 - 137.
188. Zheng, J. and Li, V.O.K. Li, "Performance model for IP switching," *IEE Electronics Letters*, Vol. 34, No. 21, Oct 1998, pp. 2010 - 2011.
189. Toh, C.K. and Li, V.O.K., "Satellite ATM Network Architectures: An Overview," *IEEE Networks*, Vol. 12, No. 5, September 1998, pp. 61 - 71.
190. Ju, J. and Li, V.O.K., "An optimal topology-transparent scheduling method in multihop packet radio networks," *IEEE/ACM Trans. on Networking*, Vol. 6, No. 3, June 1998, pp. 298 - 306.
191. Liao, W.J. and Li, V.O.K., "Synchronization of distributed multimedia systems with user interactions," *ACM Multimedia Systems*, Vol. 6, No. 3, May 1998, pp.196 - 205.
192. Li, V.O.K., "Personal Information Service (PIS) - An application of wideband communications 2012 A.D.," *Proc. of the IEEE*, Vol. 86, No. 4, April 1998, pp. 737 - 740.
193. Ju, J. and Li, V.O.K., "Arrival control schemes in spread spectrum packet radio networks," *Trans. of the Hong Kong Institution of Engineers*, Vol. 5, No. 1, April 1998, pp. 74 - 79.

194. Qiu, X. and Li, V.O.K., "A unified performance model for reservation-type multiple access schemes," *IEEE Trans. on Vehicular Technology*, Vol. 47, No. 1, February 1998, pp. 173 - 189.
195. Ngo, C.Y. and Li, V.O.K., "Fixed channel assignment in cellular radio networks using a modified genetic algorithm," *IEEE Trans. on Vehicular Technology*, Vol. 47, No. 1, February 1998, pp. 163 - 172.
196. Sengodan, S. and Li, V.O.K., "A quasi-static retrieval scheme for interactive disk-array based VOD servers," *Computer Communications*, Vol. 20, Issue 12, Nov. 1997, pp. 1031-1041. (Invited Paper)
197. Liao, W.J. and Li, V.O.K., "The Split and Merge (SAM) Protocol for Interactive Video-on Demand Systems," *IEEE Multimedia*, Vol. 4, No. 4, Oct-Dec 1997, pp. 51 - 62.
198. Ahmadi, H., Jain R., Kuehn, P.J., Leung, K.K., Li, V.O.K., Milstein, L.B., "Networking and performance issues of personal mobile communications," *IEEE JSAC*, Vol. 15, No. 7, September 1997, pp. 1193 - 1196.
199. Li, V.O.K. and Liao, W.J., "Distributed multimedia systems," *Proc. of the IEEE*, Vol. 85, No. 7, July 1997, pp. 1063 - 1108.
200. Hsu, C.S. and Li, V.O.K., "Performance analysis of slotted fiber-optic Code Division Multiple Access (CDMA) packet networks," *IEEE Trans. on Communications*, Vol. 45, No. 7, July 1997, pp. 819 - 828.
201. Hsu, C.S. and Li, V.O.K., "Performance analysis of unslotted fiber-optic Code Division Multiple Access (CDMA) packet networks," *IEEE Trans. on Communications*, Vol. 45, No. 8, August 1997, pp. 978 -987.
202. Abutaleb, A. and Li, V.O.K., "Location update optimization in Personal Communication System," *ACM/Baltzer Wireless Networks*, Vol. 3, No. 3, July 1997, pp. 205 - 216.
203. Abutaleb, A. and Li, V.O.K., "Paging strategy optimization in Personal Communication System," *ACM/Baltzer Wireless Networks*, Vol. 3, No. 3, July 1997, pp. 195 - 204.
204. Yang, G. and Li, V.O.K., "A joint virtual path routing and capacity design in ATM networks," *Computer Communications*, Vol. 19, No. 13, November 1996, pp. 1029 - 1035.
205. Qiu, X., Li, V.O.K. and Ju, Jihir, "A Multiple Access Scheme for Multimedia Traffic in Wireless ATM," *ACM/Baltzer Mobile Network and Applications Journal*, Vol. 1, No. 3, Dec. 1996, pp. 259 - 272.
206. Qiu, X. and Li, V.O.K., "On the capacity of Packet Reservation Multiple Access with Capture in Personal Communication Systems," *IEEE Trans. on Vehicular Technology*, Vol. 45, No. 4, November 1996, pp. 666 - 675.
207. Li, V.O.K., Liao, W.J., Qiu, X.X., and Wong, E., "Performance model of interactive video-on-demand systems," *IEEE Journal on Selected Areas in Comm.*, Volume 14, No. 6, August 1996, pp. 1099 - 1109.
208. Qiu, X. and Li, V.O.K., "Dynamic Reservation Multiple Access (DRMA): A new multiple access protocol for Personal Communication Systems (PCS)," *ACM/Baltzer Wireless Networks*, Volume 2, No. 2, June 1996, pp. 117 - 128.
209. Lee, K.C. and Li, V.O.K., "A wavelength rerouting algorithm in wide-area all-optical networks," *IEEE/OSA Journal of Lightwave Technology*, Volume 14, No. 6, pp. 1218 - 1229, June 1996.
210. Li, V.O.K. and Qiu, X.X., "Personal Communication Systems (PCS)," *Proc. of the IEEE*, Volume 83, No. 9, pp. 1210 - 1243, September 1995.
211. Khan, I. and Li, V.O.K., "Cell arrival modeling and related statistical multiplexer performance in ATM networks," *Telecommunication Systems*, Volume 4, No. 3, pp. 291 - 318, 1995.
212. Abutaleb, A. and Li, V.O.K., "Performance evaluation of handoff schemes in personal communication systems," *IEICE Transactions on Fundamentals of Electronics*,

- Communications and Computer Sciences, Volume E78-A, No. 7, July 1995, pp. 773 - 784.
(Invited Paper)
213. Qiu, X. and Li, V.O.K., "Performance analysis of multichannel slotted ALOHA systems with capture in microcellular environments," *Journal of China Institute of Communications, Special Issue on Personal, Mobile Radio, and Spread Spectrum Communications*, Volume 16, No. 4, July 1995, pp. 24 - 34. (Invited Paper)
 214. Lee, K.C., Li, V.O.K., Hwang, S.M. and Willner, A.E., "Multi-wavelength all-optical networks with wavelengths outside the erbium-doped fiber amplifier bandwidth," *IEEE/OSA Journal of Lightwave Technology*, Volume 13, No. 5, May 1995, pp.791 - 801.
 215. Li, V.O.K., Willner, A.E., Dapkus, P.D., Lee, K.C., Norte, A.D., Park, E., Shieh, W., and Mathur, A. " Wavelength Conversion and Wavelength Routing for High-Efficiency All-Optical Networks: A Proposal for Research on All-Optical Networks," *Journal of High Speed Networks, Special Issue on WDM Networks*, Volume 4, No. 1, 1995, pp. 5 - 25. (Invited Paper)
 216. Pond, L. and Li, V.O.K., "A distributed media access protocol for packet radio networks and performance analysis, Part I: network capacity," *International Journal of Communication Systems*, Volume 8, No. 1, Jan-Feb 1995, pp. 27 - 48.
 217. Pond, L. and Li, V.O.K., "A distributed media access protocol for packet radio networks and performance analysis, Part II: network setup time and data rate," *International Journal of Communication Systems*, Volume 8, No. 1, Jan-Feb 1995, pp. 49 - 64.
 218. Khan, I. and Li, V.O.K., "Traffic control in ATM networks," *Computer Networks and ISDN Systems*, Volume 27, No. 1, Oct 1994, pp. 85 - 100.
 219. Ammar, M.H., Li, V.O.K. and Ulema, M., "Broadband ISDN: Standards, switches, and traffic management," *Computer Networks and ISDN Systems*, Volume 27, No. 1, Oct 1994, pp. 1 - 3.
 220. Banerjee, S. and Li, V.O.K., "Evaluating the distributed datacycle scheme for a high performance distributed system," *Journal of Computing and Information*, Vol. 1, No. 1, May 1994, pages 541-556.
 221. Banerjee, S. and Li, V.O.K., "Order-P: An algorithm to order network partitionings," *IEEE Trans. on Reliability*, Volume 43, No. 2, June 1994, pp. 310 -320.
 222. Ngo, C.Y. and Li, V.O.K., "Freeway traffic control using fuzzy logic controllers," *Information Sciences - Applications*, Volume 1, Issue 2, March 1994, pp. 59 - 76.
 223. Banerjee, S., Li, V.O.K., and Wang, C.P., "Performance Analysis of the Send-on-Demand: A Distributed Database Concurrency Control Protocol for High Speed Networks," *Computer Communications*, Volume 17, March 1994, pp. 189 -204. (Invited Paper)
 224. Chen, J.S.J. and Li, V.O.K., "Minimum-weight vertex cover problem for two-class resource connection graphs," *Information Sciences*, Volume 74, No. 1 - 2, Oct 1993, pp. 53 - 71.
 225. Wang, C.P., Li, V.O.K. and Chen, A.L.P., "One-shot semi-join execution strategies for processing distributed queries," *Computer Systems Science and Engineering*, Volume 8, No. 4, October 1993, pp. 245 - 253.
 226. Choudhury, A.K. and Li, V.O.K., "An approximate analysis of the performance of deflection routing in regular networks," *IEEE Journal on Selected Areas in Comm.*, Volume 11, No. 8, October 1993, pp. 1302 - 1316.
 227. Lee, K.C. and Li, V.O.K., "A wavelength-convertible optical network," *IEEE/OSA Journal of Lightwave Technology*, Volume 11, No. 5, May 1993, pp. 962-970.
 228. Banerjee, S., Li, V.O.K., and Wang, C.P., "Distributed database systems in high speed wide-area networks," *IEEE Journal on Selected Areas in Comm.*, Volume 11, No. 4, May 1993, pp. 617 - 630.

229. Wang, C.P. and Li, V.O.K., "The precedence-agreement concurrency control algorithm for distributed database systems," *Computer Systems Science and Engineering*, Volume 6, No. 4, October 1991, pp. 227-237.
230. Li, V.O.K., Chang, Jin-Fu, Lee, Kuo-Chun, Yang, Tien-Shun, "A survey of research and standards in high-speed networks," *International Journal on Digital and Analog Communication Systems*, Wiley, Volume 4, No. 4, October - December 1991, pp. 269-309.
231. Chang, R.F. and Li, V.O.K., "Analysis of packet delay for an integrated voice-data system," *Journal of the Institution of Electronic and Telecommunication Engineers*, Volume 36, No. 6, December 1990, pp. 432-439.
232. Chen, J.S.J. and Li, V.O.K., "Domain-specific semijoin: A New Operation for Distributed Query Processing," *Information Sciences*, Vol. 52, No. 2, November 1990, pp. 165-184.
233. Shyu, S.C. and Li, V.O.K., "Performance analysis of static locking in distributed database systems," *IEEE Trans. on Computers*, Vol. C-39, No. 6, June 1990, pp. 741-751.
234. Yin, M. and Li, V.O.K., "Unslotted CDMA with fixed packet lengths," *IEEE Journal on Selected Areas in Comm.*, Vol. SAC-8, No. 4, May 1990, pp. 529-541.
235. Wu, C.S. and Li, V.O.K., "Random access for a multibeam satellite with dynamic transponder switching," *IEEE Trans. on Communications*, Vol. COM-37, No. 6, June 1989, pp. 651-655.
236. Le, K.V. and Li, V.O.K., "Modeling and analysis of systems with multimode components and dependent failures," *IEEE Trans. on Reliability*, Vol. 38, No. 1, April 1989, pp. 68-75.
237. Chen, J.S.J. and Li, V.O.K., "Reservation CSMA/CD: A multiple access protocol for local area network," *IEEE Journal on Selected Areas in Comm.*, Vol. SAC-7, No. 2, Feb 1989, pp. 202-210.
238. Chen, J.S.J. and Li, V.O.K., "Optimizing joins in fragmented database systems on a broadcast local area network," *IEEE Trans. on Software Engineering*, Vol. SE-15, No. 1, January 1989, pp. 26-38.
239. Wu, C.S. and Li, V.O.K., "Receiver-initiated busy-tone multiple access in packet radio networks," *ACM Computer Communication Review*, Vol. 17, No. 5, 1987, pp. 336-342.
240. Li, V.O.K., "Performance models of timestamp-ordering synchronization algorithms in distributed databases," *IEEE Trans. on Computers*, Vol. C-36, No. 9, September 1987, pp. 1041-1051.
241. Li, V.O.K., "Performance evaluation of multiple access networks: introduction and issue overview," *IEEE Journal on Selected Areas in Comm.*, Vol. SAC-5, No. 6, July 1987, pp. 933-938.
242. Li, V.O.K., "Multiple access communications networks," *IEEE Communications*, Vol. 25, No. 6, June 1987, pp. 41-48.
243. Yan, T.Y. and Li, V.O.K., "A reliable pipeline protocol for the message service of a land mobile satellite experiment," *IEEE JSAC*, Vol. 5, No. 4, May 1987, pp. 637-647.
244. Chiou, S.N. and Li, V.O.K., "Reliability analysis of a communication network with multimode components," *IEEE Journal on Selected Areas in Comm.*, Vol. SAC-4, No. 7, October 1986, pp. 1156-1161.
245. Lam, Y.F. and Li, V.O.K., "An improved algorithm for performance analysis of networks with unreliable components," *IEEE Trans. on Communications*, Vol. COM-34, No. 5, May 1986, pp. 496-497.
246. Hou, T.C. and Li, V.O.K., "Transmission range control in multihop packet radio networks," *IEEE Trans. on Communications*, Vol. COM-34, No. 1, January 1986, pp. 38-44.
247. Lam, Y.F. and Li, V.O.K., "Reliability modeling and analysis of communication networks with dependent failures," *IEEE Trans. on Communications*, Vol. COM-34, No. 1, January 1986, pp. 82-84.

248. Chen, A.L.P. and Li, V.O.K., "An optimal algorithm for processing distributed star queries," *IEEE Trans. on Software Engineering*, Vol. SE-11, No. 10, Oct. 1985, pp. 1097-1107.
249. Chen, A.L.P. and Li, V.O.K., "Improvement algorithms for semi-join query processing programs in distributed database systems," *IEEE Trans. on Computers*, Vol. C-33, No. 11, Nov. 1984, pp. 959-967.
250. Li, V.O.K. and Yan, T.Y., "An integrated voice and data multiple access scheme for a land-mobile satellite system," *Proc. of the IEEE*, Vol. 72, No. 11, November 1984, pp. 1611-1619.
251. Li, V.O.K., and Silvester, J.A., "Performance analysis of networks with unreliable components," *IEEE Trans. on Communications*, Vol. COM-32, No. 10, Oct. 1984, pp. 1105-1110.
252. Su, S.L. and Li, V.O.K., "Comments on diversity Aloha," *IEEE Trans. on Communications*, Vol. COM-32, No. 10, Oct. 1984, pp. 1143-1144.
253. Li, V.O.K. and Yan, T.Y., "Adaptive mobile access protocol (AMAP) for the message service of a mobile satellite experiment (MSAT-X)," *IEEE Journal on Selected Areas in Comm.*, Vol. SAC-2, No. 4, July 1984, pp. 621-627. (Joint issue with *IEEE Trans. on Vehicular Technology*, Vol. VT-33, No. 3, pp. 237-243.)
254. Li, V.O.K., "Review of Computer Network Architectures by Meijer, A. and Peters, P.," *IEEE Communications*, Vol. 21, No. 4, 1983, pp. 47.
255. Larson, R.C. and Li, V.O.K., "Finding minimum rectilinear distance paths in the presence of barriers," *Networks*, Vol. 11 (1981), pp. 285-304.

Book

Smart Grid Applications and Developments, ISBN 978-1-4471-6280-3, edited by P. Hills, D. Mah, V.O.K. Li, and R. Balme, Springer, June 30 2014.

Book Chapters

1. Guo, P.Y., Zhu, D.Y., Lam, C.K.J., Li, V.O.K., "Achieving Carbon Neutrality: The Future of Wind Energy Development in China," in *Wind Energy Engineering: A Handbook for Onshore and Offshore Wind Turbines*, 2nd Edition, Elsevier, Chapter 6, 2022.
2. Lam, J.C.K., Han, Y., Wang, S.S., Li, V.O.K., Pollitt, M., and Warde, P., "A comparative study of air pollution trends in London and contemporary Beijing," in *In Search of Good Energy Policy*, Cambridge University Press, 2019.
3. Guo, P.Y., Zhu, D.Y., Lam, C.K.J., Li, V.O.K., "The Future of Wind Energy Development in China," in *Wind Energy Engineering: A Handbook for Onshore and Offshore Wind Turbines*, 1st Edition, Elsevier, Chapter 5, 2017.
4. Lin, J., Yu, J. J. Q., Leung, K.-C., and Li, V.O.K., "Optimal scheduling with vehicle-to-grid ancillary services," *Energy Systems for Electric and Hybrid Vehicles*, Chau, K. T. (ed.), Chapter 14, pp. 395-429, Institution of Engineering and Technology (IET), 2016.
5. Li, V.O.K., "Future technology developments for urban climate map," *The Urban Climate Map for Sustainable Urban Planning*, HB: 978-0-415-63063-4, edited by Edward Ng and Chao Ren, Chapter 30, Taylor and Francis, 2015.
6. Li, V.O.K., "Communication and network security requirements for smart grid," *Smart Grid Applications and Developments*, ISBN 978-1-4471-6280-3, edited by D. Mah, P. Hills, V.O.K. Li, and R. Balme, Springer, June 30 2014.

7. Li, V.O.K. and Yang, G.H., "Potential methods for sensor and actuator networks for smart grid," Smart Grid Communications and Networking, ISBN 978-1-107-01413-8, edited by E. Hossain, Z. Han, and V. Poor, Cambridge University Press, 2012.
8. Chim, T.W., Yiu, S.M., Hui, L.C.K., and Li, V.O.K., "Privacy-preserving information gathering using VANET," Wireless Ad-Hoc Networks, ISBN 978-953-51-0896-2, edited by Hongbo Zhou, Intech, 2012. (<http://www.intechopen.com/articles/show/title/privacy-preserving-information-gathering-using-vanet>)
9. Li, V.O.K., "Vertex-linked infrastructure for ad hoc networks," Emerging Location Aware Broadband Wireless Ad Hoc Networks, edited by R. Ganesh, S. Kota, K. Pahlavan, and R. Agustí, Springer, 2005.
10. Shen, D. and Li, V.O.K., "Fundamentals of wireless communications," Enabling technologies for wireless e-business applications, Springer, 2006.
11. Li, V.O.K., "Wireless data services: Mobile computing enabler," Business Briefing: Wireless Technology 2004, World Markets Research Centre, 2004
12. Li, V.O.K., "Global m-commerce: Business opportunities for wireless data services," Business Briefing: Wireless Technology 2002 (incorporating Global m-Commerce 2002), World Markets Research Centre, 2002, pp. 123-126.
13. Li, G.L. and Li, V.O.K., "Analysis of transient loss performance impact of long-range dependence in network traffic," in Self-similar network traffic and performance evaluation, edited by K. Park and W. Willinger, John Wiley, 2000, pp. 319-347.
14. Li, V.O.K. and Liao, W.J., "Interactive video," in Encyclopedia of Electrical Engineering, Vol. 10, ISBN No. 0-471-13946-7, edited by John Webster, John Wiley, 1999, pp. 541 - 555.
15. Sengodan, S. and Li, V.O.K., "Nonlinear video," in Encyclopedia of Electrical Engineering, ISBN No. 0-471-13946-7, edited by John Webster, John Wiley, 1999.
16. Li, V.O.K. and Liao, W.J., "Distributed Multimedia Systems," in Handbook of Multimedia Computing, ISBN No. 0-8493-1825-4, edited by Borko Furht, CRC Press, Boca Raton, Florida, 1999, pp. 681 - 700.
17. Li, V.O.K. and Liao, W.J., "Video-on-Demand Systems," in Handbook of the Internet and Multimedia Systems and Applications, edited by Borko Furht, CRC Press, Boca Raton, Florida, 1998.
18. Li, V.O.K., "Personal Communication Systems (PCS)," Encyclopedia of Telecommunications, Vol. 14, pp. 327 - 354, Marcel Dekker, Inc., 1997.
19. Lam, Y.F. and Li, V.O.K., "Reliability modeling and analysis of communication networks with dependent failures," in Advances in Distributed System Reliability, edited by Suresh Rai and Dharma P. Agrawal, IEEE Press, 1989.
20. Liao, W.J. and Li, V.O.K., "Synchronization of distributed multimedia systems with user interactions," in Multimedia Modeling, edited by J.P. Courtiat, Michel Diaz, and Patrick Senac, World Scientific Publishing Co., 1996.

Conference Proceedings

1. Li, V.O.K., Lam, J.C.K., Han, Y., Cheung, L.Y.L., Crowcroft, J., "Designing a value-driven GAI framework for social good: Embedding social good values into GAI models," Data for Policy Conference, London, UK, July 2024.
2. Li, V.O.K., Lam, J.C.K., Han, Y., Cheung, L.Y.L., Downey, J., Kaistha, T., and Gozes, I., "Designing a protocol adopting an Artificial Intelligence (AI)-driven approach for early diagnosis of Late-Onset Alzheimer's Disease," ESN Mini-Conference, European Society for Neurochemistry, Paris. France, July 2022.

3. Downey, J., Lam, J.C.K., Li, V.O.K, and Gozes, I., "Somatic mutations and Alzheimer's dementia," ESN Mini-Conference, European Society for Neurochemistry, Paris. France, July 2022.
4. Chen, G., Chen, Y., and Li, V.O.K., "Lexical-constrained neural machine translation with explicit alignment guidance," Proc. 35th Association for the Advancement of Artificial Intelligence (AAAI) Conference on Artificial Intelligence (AAAI-20), USA, Feb 2021 (Virtual Conference).
5. He, X. and Li, V.O.K., "Show me how to revise: Improving lexically constrained sentence generation with XLNet," Proc. 35th Association for the Advancement of Artificial Intelligence (AAAI) Conference on Artificial Intelligence (AAAI-20), USA, Feb 2021 (Virtual Conference).
6. Sragovich, S., Gershovits, M., Lam, J.C.K., Li, V.O.K, and Gozes, I., "Cytoskeletal and inflammatory putative gene somatic mutations in the blood of PTSD-symptomatic soldiers," Society of Neuroscience (SfN) Conference, Jan 2021 (Virtual Conference).
7. Wang, Y., Wang, L., Li, V.O.K., and Tu, Z., "On the sparsity of neural machine translation models," ACL Conference on Empirical Methods in Natural Language Processing (EMNLP), Nov 2020.
8. Chen, G., Chen, Y., Wang, Y., and Li, V.O.K., "Lexical-constraint-aware neural machine translation via data augmentation," International Joint Conference on Artificial Intelligence (IJCAI), Yokohama, Japan, July 2020.
9. Sun, C., Li, T., Low, S., and Li, V.O.K., "Classification of electric vehicle charging time series with selective clustering," Power Systems Computation Conference (PSCC), Porto, Portugal, June 2020.
10. Chen, T., Chu, K.F., Lam, A. Y.S., Hill, D., Li, V.O.K., "Electric autonomous vehicle charging and parking coordination for vehicle-to-grid voltage regulation with renewable energy," Proc. IEEE Power and Energy Society General Meeting, Montreal, Canada, Aug 2020.
11. Cao, M., Li, V.O.K., and Chan, V., "A CNN-LSTM model for traffic speed prediction," Proc. IEEE Intelligent Vehicular Technology Conference, Antwerp, Belgium, May 2020.
12. Wang, Y., Wang, L., Shi, S., Li, V.O.K., and Tu, Z., "Go from the general to the particular: Multi-domain translation with Domain Transformation Networks," Proc. 34th Association for the Advancement of Artificial Intelligence (AAAI) Conference on Artificial Intelligence (AAAI-20), New York, NY, USA, Feb 2020.
13. Fan, Y., Lam, J.C.K., and Li, V.O.K., "Facial action unit intensity estimation via semantic correspondence learning with dynamic graph convolution," Proc. 34th Association for the Advancement of Artificial Intelligence (AAAI) Conference on Artificial Intelligence (AAAI-20), New York, NY, USA, Feb 2020.
14. Chu, K.F., Lam, A.Y.S., Loo, B.P.Y., and Li, V.O.K., "Public transport waiting time estimation using semi-supervised graph convolutional networks," Proc. IEEE Intelligent Transportation Systems Conference, Auckland, New Zealand, Oct 2019.
15. Cao, M., Shuai Q. and Li, V.O.K., "Emergency vehicle-centered traffic signal control in intelligent transportation systems," Proc. IEEE Intelligent Transportation Systems Conference, Auckland, New Zealand, Oct 2019.
16. Gu, J., Wang, Y., Cho, K., and Li, V.O.K., "Improved zero-shot neural machine translation via ignoring spurious correlations," Proc. Annual Meeting of the Association for Computational Linguistics (ACL), Florence, Italy, July 2019.
17. Mao, Y., Clerckx, B., and Li, V.O.K., "Rate-splitting for multi-user multi-antenna wireless information and power transfer," IEEE 20th International Workshop on Signal Processing Advances in Wireless Communications (SPAWC), Cannes, France, July 2019.

18. Gu, J., Wang, Y., Cho, K., and Li, V.O.K., "Improved zero-shot neural machine translation via ignoring spurious correlations," NeuralGen 2019 Workshop, co-located with NAACL 20-19, Minneapolis, Minnesota, USA, June 2019.
19. Mao, Y., Clerckx, B., and Li, V.O.K., "Rate-splitting multiple access for coordinated multi-point joint transmission," 2019 IEEE International Conference on Communications Workshops (ICC Workshops): 5th International Workshop on Non-Orthogonal Multiple Access Techniques for 5G (NOMA5G), Shanghai, China, May 2019.
20. Etemad, R.H., Hou, Y., and Li, V.O.K., "An Efficient Approach for Optimal Power Flow Considering Shunt Compensation," Proc. IEEE Conference on Innovative Smart Grid Technologies, Washington DC, Feb 2019.
21. Li, Y. and Li, V.O.K., "Incentive marketing strategy under multi-state diffusion model in online social networks," IEEE International Conference on Computing, Networking and Communications, Honolulu, Hawaii, USA, Feb 2019.
22. Zubair, S., Jangsher, S., Mao, Y., and Li, V.O.K., "Blockage-aware power allocation and relay selection in millimeter-wave small cell network," Proc. IEEE Consumer Communications & Networking Conference (CCNC), Las Vegas, Nevada, USA, Jan 2019.
23. Han, Y., Lam, J.C.K., and Li, V.O.K., "A Bayesian LSTM Model to evaluate the effects of air pollution control regulations in China," IEEE International Conference on Big Data, Workshop on Big Data and AI for Air Quality Estimation, Forecasting, and Health Advice, Seattle, Washington, USA, Dec 2018.
24. Lu, Z., Lam, J.C.K., Li, V.O.K., Han, Y., and Gilani, Z., "In search of a better land: Would people move to a country with better air quality? A global survey based on Twitter data," IEEE International Conference on Big Data, Workshop on Big Data and AI for Air Quality Estimation, Forecasting, and Health Advice, Seattle, Washington, USA, Dec 2018.
25. Fan, Y., Lam, J.C.K., and Li, V.O.K., "Unsupervised domain adaptation with generative adversarial networks for facial expression recognition," IEEE International Conference on Big Data, Workshop on Big Data and AI for Air Quality Estimation, Forecasting, and Health Advice, Seattle, Washington, USA, Dec 2018.
26. Wang, A., Li, V.O.K., and Lam, J.C.K., "Optimization of urban heating network design using Genetic Algorithm," IEEE International Conference on Big Data, Workshop on Big Data and AI for Air Quality Estimation, Forecasting, and Health Advice, Seattle, Washington, USA, Dec 2018.
27. Wang, Y., Wu, X.M., Li, Q., Gu, J., Xiang, W., Zhang, L., and Li, V.O.K., "Large margin meta-learning for few-shot classification," Neural Information Processing Systems (NIPS) Workshop on Meta-Learning, Montreal, Canada, Dec 2018.
28. Li, Y. and Li, V.O.K., "Pricing strategies with promotion time limitation in online social networks," 2018 IEEE/WIC/ACM International Conference on Web Intelligence (WI '18), Dec 2018, Santiago, Chile.
29. Cao, M., Shuai Q. and Li, V.O.K., "Navigation-based traffic signal control in intelligent transportation systems," Proc. IEEE Globecom, Abu Dhabi, United Arab Emirates, Dec 2018.
30. Chen, Y., Li, V.O.K., Cho, K., and Bowman, S.R., "A stable and effective learning strategy for trainable greedy decoding," ACL Conference on Empirical Methods in Natural Language Processing (EMNLP), Brussels, Belgium, Oct 2018.
31. Gu, J., Wang, Y., Chen, Y., Li, V.O.K., and Cho, K., "Meta-learning for low-resource neural machine translation," ACL Conference on Empirical Methods in Natural Language Processing (EMNLP), Brussels, Belgium, Oct 2018.

32. Han, Y., Li, V.O.K., Lam, J.C.K., and Lu, Z., "UMeAir: Predicting momentary happiness towards air quality via machine learning," WellComp'18: 1st International Workshop on Computing for Well-being, UBICOMP, Singapore, Oct 2018.
33. Fan, Y., Lam, J.C.K., and Li, V.O.K., "Video-based emotion recognition using deeply-supervised neural networks," Proc. of the 20th ACM International Conference on Multimodal Interaction, Boulder, Colorado, USA, Oct 2018. (The model described in this paper won the Second Place in the EmotiW 2018 Challenge.)
34. Fan, Y., Lam, J.C.K., and Li, V.O.K., "Multi-region ensemble convolutional neural network for facial expression recognition," European Neural Network Society 27th International Conference on Artificial Neural Networks, Rhodes, Greece, Oct 2018.
35. Sun, S.C., Yu, Y., Li, V.O.K., and Lam, J.C.K., "Optimal multi-type sensor placements in Gaussian spatial fields for environmental monitoring," Proc. IEEE International Smart Cities Conference (ISC2 2018), Kansas City, MO, USA, Sept 2018.
36. Mao, Y., Clerckx, B., and Li, V.O.K., "Energy efficiency of Rate-Splitting Multiple Access, and performance benefits over SDMA and NOMA," 2018 IEEE 15th International Symposium on Wireless Communication Systems (ISWCS), Lisbon, Portugal, Aug 2018.
37. Gu, J., Hassan, H., Devlin, J., and Li, V.O.K., "Universal neural machine translation for extremely low resource languages," Proc. The 16th Annual Conference of the North American Chapter of the Association for Computational Linguistics: Human Language Technologies (NAACL HLT), New Orleans, Louisiana, USA, June 2018.
38. Sun, S.C., Li, T., and Li, V.O.K., "Robust and consistent clustering recovery via SDP approaches," Proc. IEEE Data Science Workshop, Lausanne, Switzerland, June 2018.
39. Mao, Y., Clerckx, B., and Li, V.O.K., "Rate-splitting for multi-antenna non-orthogonal unicast and multicast transmission," 2018 IEEE 19th International Workshop on Signal Processing Advances in Wireless Communications (SPAWC), Kalamata, Greece, June 2018.
40. Wang, J. and Li, V.O.K., "Support vector machine detection of data framing attack in smart grid," IEEE Conference on Communications and Network Security, 30 May - 1 June 2018, Beijing, China.
41. Sun, S.C., Li, V.O.K., and Lam, J.C.K., "Optimal citizen-centric sensor placement for citywide environmental monitoring: A submodular approach," IEEE SECON CoWPER – Toward A City-Wide Pervasive EnviRonment, June 2018, Hong Kong, China.
42. Shuai Q., Li, V.O.K., Lu, Z., and Cao, M., "Latency comparison of replication and coding for data access under random scheduling," Proc. IEEE ICC, Kansas City, Missouri, USA, May 2018.
43. Gu, J., Bradbury, J., Xiong, C., Li, V.O.K., and Socher, R., "Non-autoregressive neural machine translation," Proc. Sixth International Conference on Learning Representations (ICLR), Vancouver, Canada, April 2018.
44. Chen, Y., Cho, K., Bowman, S.R., and Li, V.O.K., "Stable and effective trainable greedy decoding for sequence to sequence learning," Sixth International Conference on Learning Representations (ICLR) Workshop, Vancouver, Canada, April 2018.
45. Ye, J., Leung, K.C., Li, V.O.K., and Low, S.H., "Combating bufferbloat in multi-bottleneck networks: Equilibrium, stability, and algorithms," Proc. IEEE INFOCOM, Honolulu, Hawaii, USA, April 2018.
46. Gu, J., Wang, Y., Cho, K., and Li, V.O.K., "Search engine guided neural machine translation," Proc. 32nd Association for the Advancement of Artificial Intelligence (AAAI) Conference on Artificial Intelligence (AAAI-18), New Orleans, Louisiana, USA, Feb 2018.

47. Gu, J., Im, D. J., and Li, V.O.K., "Neural machine translation with Gumbel-Greedy Decoding," Proc. 32nd Association for the Advancement of Artificial Intelligence (AAAI) Conference on Artificial Intelligence (AAAI-18), New Orleans, Louisiana, USA, Feb 2018.
48. Chen, Y., Liu, Y., and Li, V.O.K., "Zero-resource neural machine translation with multi-agent communication game," Proc. 32nd Association for the Advancement of Artificial Intelligence (AAAI) Conference on Artificial Intelligence (AAAI-18), New Orleans, Louisiana, USA, Feb 2018.
49. Yu, Y., Yu, J.J.Q., Li, V.O.K., and Lam, J.C.K., "Low-rank singular value thresholding for recovering missing air quality data," Proc. IEEE Big Data 2017, Boston, Massachusetts, USA, Dec 2017.
50. Lu, Z., Li, V.O.K., and Shuai, Q., "Online welfare maximization of sponsored viral marketing with stochastically arriving spreaders," Proc. IEEE Globecom, Singapore, Dec 2017.
51. Li, V.O.K., Lam, J.C.K., Chen, Y., and Gu, J., "Deep learning model to estimate air pollution using M-BP to fill in missing proxy urban data," Proc. IEEE Globecom, Singapore, Dec 2017.
52. Shuai Q., Li, V.O.K., and Lu, Z., "Which achieves lower latency with redundant requests, replication or coding?" Proc. IEEE Globecom, Singapore, Dec 2017.
53. Shuai Q. and Li, V.O.K., "Latency Analysis of Flexible Redundant Scheme in MDS-Coded Distributed Storage Systems," Proc. IEEE Globecom, Singapore, Dec 2017.
54. Wen, J., Huang, K., Yang, S., and Li, V.O.K., "Optimizing Tier-Level Content Placement in Heterogeneous Networks," Proc. IEEE Globecom, Singapore, Dec 2017.
55. Chu, K.F., Lam, A.Y.S., and Li, V.O.K., "Dynamic Lane Reversal Routing and Scheduling for Connected Autonomous Vehicles," Proc. Third IEEE Annual International Smart Cities Conference (ISC2 2017), Wuxi, China, Sept 2017.
56. Gu, J., K. Cho, and Li, V.O.K., "Trainable greedy decoding for neural machine translation," Proc. ACL Conference on Empirical Methods in Natural Language Processing (EMNLP), Copenhagen, Denmark, Sept 2017.
57. Chen, Y., Yang, L., Cheng, Y., and Li, V.O.K., "A teacher-student framework for zero-resource neural machine translation," Proc. Annual Meeting of the Association for Computational Linguistics (ACL), Vancouver, Canada, July 2017.
58. Li, V.O.K., Lam, J.C.K., Han, Y., Guo, B., "Big data technologies to overcome the challenges of data collection with a human in the loop," Cambridge Conference on Big Data and Medicine, Cambridge, UK, July 2017.
59. Gu, J., G. Neubig, K. Cho, and Li, V.O.K., "Learning to translate in real-time with neural machine translation," Proc. EACL, Valencia, Spain, April 2017. (This research was reported in the trade magazine Slator: Language Industry Intelligence in Oct 2016 as "Significant progress in real-time machine translation.")
60. Shuai Q. and Li, V.O.K., "Reducing delay of flexible download in coded distributed storage system," Proc. IEEE Globecom, Washington DC, USA, Dec 2016.
61. Shuai Q. and Li, V.O.K., "Latency performance model of direct and k-access reads in distributed storage systems" Proc. IEEE 18th International Conference on High Performance Computing and Communications, Sydney, Australia, Dec 2016.
62. Mao, Y., Jangsher, S., Yu, J.J.Q., and Li, V.O.K., "Joint relay and user selection for two-hop multi-relay multi-user MIMO systems," Proc. IEEE International Conference on Communication Systems, Shenzhen, China, Dec 2016.
63. Ye, J., Leung, K.C., and Li, V.O.K., "Optimal delay control for combating bufferbloat in the internet," Proc. IEEE International Conference on Communication Systems, Shenzhen, China, Dec 2016.

64. Gu, J., Lu, Z., Li, H., and Li, V.O.K., "Incorporating copying mechanism in sequence-to-sequence learning," Proc. Annual Meeting of the Association for Computational Linguistics (ACL), Berlin, Germany, Aug 2016.
65. Zhu, J.Y., Xu, J., and Li, V.O.K. "A four-layer architecture for online and historical big data analytics," Proc. IEEE DataCom, Oakland, New Zealand, Aug 2016.
66. Mao, Y. and Li, V.O.K., "Cluster-based resource allocation with Adaptive CoMP in Multi-cell MU-MIMO OFDMA System," Proc. IEEE International Conference on Signal Processing, Communications and Computing (ICSPCC2016), Hong Kong, China, Aug 2016.
67. Chim, T.W., Yiu, S.M., Hui, L.C.K., and Li, V.O.K., "Privacy-preserving citizen journalism," Proceedings of the 9th IEEE International Conference on Ubi-Media Computing (U-MEDIA 2016), August 2016.
68. Sun, Y., Lam, A.Y.S., and Li, V.O.K., "A new optimal resource allocation scheme for computationally expensive problems," Proc. IEEE Congress on Evolutionary Computation, Vancouver, Canada, July 2016.
69. Lam, A.Y.S. and Li, V.O.K., "Energy loss minimization for Vehicular Energy Network routing," Proc. ACM e-Energy Workshop on Electric Vehicle Systems, Data, and Applications, Waterloo, Canada, June 2016.
70. Shuai Q. and Li, V.O.K., "Flexible download time analysis of coded storage systems," The 9th ACM International Systems and Storage Conference, Haifa, Israel, June 2016.
71. Wen, J. and Li, V.O.K., "Big-data-enabled software-defined cellular network management," Proc. International Conference on Software Networking, Jeju-Island, South Korea, May 2016.
72. Li, Y., Lu, Zhiyi, and Li, V.O.K., "Algorithm to trade off between utility and privacy cost of online social search," IEEE International Conference on Communications, Kuala Lumpur, Malaysia, May 2016.
73. Lu, Zhiyi, Zhou, H., Li, V.O.K., and Long, Y., "Pricing game of celebrities in sponsored viral marketing in online social networks with a greedy advertising platform," IEEE International Conference on Communications, Kuala Lumpur, Malaysia, May 2016.
74. Zhu, J.Y., Zheng, Y., Yi, X., and Li, V.O.K. "A Gaussian Bayesian Model to identify spatio-temporal causalities for air pollution based on urban big data," SmartCity16: The 2nd IEEE INFOCOM Workshop on Smart Cities and Urban Computing, San Francisco, California, USA, April 2016.
75. Chen, Y. and Li, V.O.K., "Click-through-based word embedding for large scale cross-modal retrieval," IEEE International Conference on Multimedia Big Data (BigMM), Taipei, Taiwan, April, 2016.
76. Liu, Y., Weng, L., Li, V.O.K., and Xu, S., "Topology-transparent scheduling in mobile multihop ad hoc networks with directional antennas," Proc. IEEE Wireless Communications and Networking Conference (WCNC), Doha, Qatar, April 2016.
77. Long, Y., Li, V.O.K., Niu, G., Lu, Z., "The impacts of network structure on user activity level in online social networks," Proc. IEEE/WIC/ACM International Conference on Web Intelligence, Singapore, Dec 2015.
78. Lin, J., Leung, K.C., and Li, V.O.K., "Robust dispatch with power flow routing and renewables," Proc. IEEE International Conference on Smart Grid Communications, Miami, Florida, USA, Nov 2015.
79. Lam, A.Y.S., Leung, K.C., and Li, V.O.K., "An electric-vehicle-based supplementary power delivery system," Proc. IEEE International Conference on Smart Grid Communications, Miami, Florida, USA, Nov 2015.
80. Chuai, J. and Li, V.O.K., "The temporal value of information to network protocols - An analytical framework," Proc. IEEE PIMRC, Hong Kong, Aug 2015.

81. Wen, J. and Li, V.O.K., "Data prefetching to reduce delay in software-defined cellular networks," Proc. IEEE PIMRC, Hong Kong, Aug 2015.
82. Shuai, Q. and Li, V.O.K., "Delay performance of direct reads in distributed storage systems with coding," Proc. IEEE 17th International Conference on High Performance Computing and Communications, Newark, NJ, USA, Aug, 2015.
83. Gu, J. and Li, V.O.K., "Efficient learning for undirected topic models," Proc. ACL-IJCNLP, Beijing, China, July 2015.
84. Wen, M.H.F., Arghandeh, R., von Meier, A., Poolla, K., and Li, V.O.K., "Phase identification in distribution networks with micro-synchrophasors," Proc. IEEE PES General Meeting, Denver, Colorado, USA, July 2015.
85. Long, Y., Niu, G., and Li, V.O.K., "Modeling video viewing and sharing behaviors in online social network," Proc. IEEE International Conference on Communications, London, UK, June 2015.
86. Zhang, Z., Yu, X., Wu, L., Dang, J., and Li, V.O.K., "Performance analysis of full-duplex visible light communication networks," Proc. IEEE International Conference on Communications, London, UK, June 2015.
87. Yu, J.J.Q. and Li, V.O.K., "Parameter sensitivity analysis of Social Spider Algorithm," Proc. IEEE Congress on Evolutionary Computation, Sendai, Japan, May 2015.
88. Yu, J.J.Q., Lam, A.Y.S., and Li, V.O.K., "Adaptive Chemical Reaction Optimization for global numerical optimization," Proc. IEEE Congress on Evolutionary Computation, Sendai, Japan, May 2015.
89. Sun, Y. and Li, V.O.K., "Resource allocation between initialization and optimization under computational expensive environment," Proc. IEEE Congress on Evolutionary Computation, Sendai, Japan, May 2015.
90. Zhu, J.Y., Sun, S.C., and Li, V.O.K., "Granger-Causality-based air quality estimation with spatio-temporal (S-T) heterogeneous big data," Proc. IEEE INFOCOM Smart City Workshop, Hong Kong, China, April 2015.
91. Chuai, J. and Li, V.O.K., "A new upper bound on the control information required in multiple access communications," Proc. IEEE INFOCOM, Hong Kong, April 2015.
92. Lu, Z., Long, Y., and Li, V.O.K., "Cascade with varying activation probability model for influence maximization in social networks," Proc. IEEE International Conference on Computing, Networking and Communications, Social Computing and Semantic Data Mining, Anaheim, California, USA, Feb 2015.
93. Sun, Y., and Li, V.O.K., "Impacts from initialization techniques – An optimal computational resource allocation problem," Workshop on Computational Intelligence 2014, Hong Kong, China, Dec. 2014.
94. Lin, J., Li, V.O.K., Leung, K.C., and Lam, A.Y.S., "Architectural design and load flow study of power flow routers," Proc. IEEE International Conference on Smart Grid Communications, Venice, Italy, Nov. 2014.
95. Huang, K.B., Kountouris, M., Li, V.O.K., "Coverage of renewable powered cellular networks," Proc. IEEE International Conference on Communication Systems, Macau, China, Nov. 2014.
96. Yeung, C.Y., Law, W.C., Chim, T.W., Yiu, S.M., Li, V.O.K., Hui, L.C.K., and Yuan, Y., "Distributing blackbox data to multiple vehicles in a secure and privacy-preserving manner," Proc. IEEE International Conference on Connected Vehicles & Expo, Vienna, Austria, Nov 2014.
97. Zhu, Y., Zheng, X., Xu, J., and Li, V.O.K., "Spatio-temporal (S-T) similarity model for constructing WIFI-based RSSI fingerprinting map for indoor localization," Proc. Fifth International Conference on Indoor Positioning and Indoor Navigation (IPIN 2014), Busan, Korea, Oct 2014.

98. Long, Y., Li, V.O.K., and Niu, G., "Incorporating the position of sharing action in predicting popular videos in online social networks," Proc. 15th International Conference on Web Information System Engineering (WISE 2014), Thessaloniki, Greece, Oct 2014.
99. Jangsher, S. and Li, V.O.K., "Resource allocation in cellular networks with moving small cells with probabilistic mobility," Proc. IEEE PIMRC, Washington DC, USA, Sept 2014.
100. Jangsher, S. and Li, V.O.K., "Power control in multihop cellular networks with multiple radio access technologies," Proc. IEEE PIMRC, Washington DC, USA, Sept 2014.
101. Li, G.L. and Li, V.O.K., "A paradox of measure-theoretic probability," The International Congress of Mathematicians 2014, COEX, Seoul, Korea, Aug 2014.
102. Niu, G., Long, Y., and Li, V.O.K., "Temporal behavior of social network users in information diffusion," Proc. IEEE/WIC/ACM International Conference on Web Intelligence, Warsaw, Poland, Aug 2014.
103. Song, B. and Li, V.O.K., "Gaussian mixture model of evolutionary algorithms," Proc. Genetic and Evolutionary Computation Conference (GECCO), Vancouver, Canada, July 2014.
104. Lai, C., Low, S., Leung, K.C., and Li, V.O.K., "Pricing link by time," Proc. ACM SIGMETRICS, Austin, Texas, USA, June 2014.
105. Yu, J.J.Q. and Li, V.O.K., "Base Station Switching Problem for green cellular networks with Social Spider Algorithm," Proc. IEEE Congress on Evolutionary Computation, Beijing, China, July 2014.
106. Yu, J.J.Q., Lam, A.Y.S., and Li, V.O.K., "Chemical Reaction Optimization for the Set Covering Problem," Proc. IEEE Congress on Evolutionary Computation, Beijing, China, July 2014.
107. Yu, J.J.Q., Li, V.O.K., and Lam, A.Y.S., "An Inter-molecular Adaptive Collision Scheme for Chemical Reaction Optimization," Proc. IEEE Congress on Evolutionary Computation, Beijing, China, July 2014.
108. Sun, Y., Lam, A.Y.S., Li, V.O.K., "A heuristic to generate initial feasible solutions for the Unit Commitment Problem," Proc. IEEE International Joint Conference on Neural Networks (IJCNN), Beijing, China, July 2014.
109. Shuai, Q., Li, V.O.K., and Zhu, Y., "Performance models of access latency in cloud storage systems," Proc. Fourth Workshop on Architectures and Systems for Big Data, Minneapolis, MN, US, June 14, 2014.
110. Zhou, H., Leung, K.C., and Li, V.O.K., "Auction-based bandwidth allocation and scheduling in noncooperative wireless networks," Proc. IEEE International Conference on Communications, Sydney, Australia, June 2014.
111. Liu, Y., Li, V.O.K., Leung, K.C. and Zhang, L., "Distributed multi-channel topology-transparent broadcast scheduling in ad hoc networks," Proc. IEEE Wireless Communications and Networking Conference (WCNC), Istanbul, Turkey, April 2014.
112. Mao, X., Liu, S., Lin, Zhang, and Li, V.O.K., "Energy-delay region of low duty cycle wireless sensor networks for critical data collection," Proc. IEEE Information Theory and Applications Workshop, San Diego, CA, USA, Feb 2014.
113. Chim, T.W., Yiu, S.M., Li, V.O.K., Hui, L.C.K., and Yeung, C.Y., "Secure, privacy-preserving, distributed motor vehicle event data recorder," Proc. IEEE International Conference on Connected Vehicles & Expo, Las Vegas, Nevada, USA, Dec 2013.
114. Niu, G., Li, V.O.K., and Long, Y., "Sequential pricing for social networks with multi-state diffusion," Proc. IEEE Globecom, Atlanta, Georgia, USA, Dec 2013.
115. Wen, M.H.F. and Li, V.O.K., "Optimal phasor data concentrator installation for traffic reduction in smart grid wide-area monitoring systems," Proc. IEEE Globecom, Atlanta, Georgia, USA, Dec 2013.

116. Yang, Y., Li, V.O.K. and Xu, K., "An incentive scheme for non-cooperative social networks under the Independent Cascade Model," Proc. 2013 IEEE/WIC/ACM International Conference on Web Intelligence, Atlanta, Georgia, USA, Nov 2013.
117. X. Fan, G. Niu, and V. O. K. Li, "An analytical model for the propagation of social influence," in Proceedings of IEEE/WIC/ACM International Conference on Web Intelligence, Atlanta, Georgia, USA, Nov. 2013. (This paper received the Best Paper Award of the Conference.)
118. Lin, J., Leung, K.C., and Li, V.O.K., "Online scheduling of vehicle-to-grid regulation service," Proc. IEEE International Conference on Smart Grid Communications, Vancouver, Canada, Oct 2013.
119. Chuai, J. and Li, V.O.K., "A framework for balancing information collection and data transmission," IEEE PIMRC, London, UK, Sept 2013.
120. Fan, X. and Li, V.O.K., "Combining intensification and diversification to maximize the propagation of social influence," Proc. IEEE International Conference on Communications, Budapest, Hungary, June 2013.
121. Yu, J.J.Q., Lam, A.Y.S., and Li, V.O.K., "Optimal V2G scheduling of electric vehicles and unit commitment using Chemical Reaction Optimization," Proc. IEEE Congress on Evolutionary Computation, Cancun, Mexico, June 2013.
122. Lai, C., Leung, K.C. and Li, V.O.K., "Does it hurt when others prosper? Exploring the impact of heterogeneous reordering robustness of TCP," Proc. IEEE INFOCOM, Turin, Italy, April 2013.
123. Lai, C., Leung, K.C. and Li, V.O.K., "Design and analysis of TCP AIMD in wireless networks," Proc. IEEE WCNC, Shanghai, China, April 2013.
124. Jangsher, S. and Li, V.O.K., "Resource allocation in cellular networks employing mobile femtocells with deterministic mobility," Proc. IEEE WCNC, Shanghai, China, April 2013.
125. Zhou, H., Leung, K.C. and Li, V.O.K., "Auction-based schemes for multipath routing in selfish networks," Proc. IEEE WCNC, Shanghai, China, April 2013.
126. Xu, J., Wen, M.H.F., Li, V.O.K., and Leung, K.C., "Optimal PMU placement for wide-area monitoring using Chemical Reaction Optimization," Proc. IEEE PES Innovative Smart Grid Technologies Conference, Washington DC, USA, Feb 2013.
127. Yang, Y., Li, V.O.K. and Xu, K., "Influence maximization in noncooperative social networks," Proc. IEEE Globecom, Anaheim, California, USA, Dec 2012.
128. Niu, G., Li, V.O.K., Long, Y., and Xu, K., "Measurement-driven temporal analysis of information diffusion in online social networks," Proc. IEEE Globecom, Anaheim, California, USA, Dec 2012.
129. Lam, A.Y.S., Leung, K.C., and Li, V.O.K., "Capacity management of Vehicle-to-Grid system for power regulation services," Proc. IEEE International Conference on Smart Grid Communications, Tainan, Taiwan, Nov 2012.
130. Chim, T.W., Yiu, S.M., Li, V.O.K., Hui, L.C.K., Mui, T.W., Tsang, Y.H., Kwok, C.K. and Yu, K.Y., "Selling Power back to the Grid in a Secure and Privacy-preserving manner," Proc. International Conference on Information and Communications Security (ICICS), Hong Kong, China, Oct 2012.
131. Song, B. and Li, V.O.K., "A hybridization between memetic algorithm and semidefinite relaxation for the Max-Cut Problem," Proc. Genetic and Evolutionary Computation Conference (GECCO), Philadelphia, Pennsylvania, USA, July 2012. (Best Paper Award, Evolutionary Combinatorial Optimization and Metaheuristics Track.)
132. Lai, C., Leung, K.C. and Li, V.O.K., "Enhancing AQM to combat wireless losses," Proc. IEEE/ACM International Workshop on Quality of Service (IWQoS), Coimbra, Portugal, June 2012.

133. Lam, A.Y.S., Li, V.O.K., and Zhao, W. "Chemical Reaction Optimization for the Fuzzy Rule Learning Problem," Proc. IEEE Congress on Evolutionary Computation, Brisbane, Australia, June 2012.
134. Yu, J.J.Q., Lam, A.Y.S., and Li, V.O.K., "Real-coded Chemical Reaction Optimization with different perturbation functions," Proc. IEEE Congress on Evolutionary Computation, Brisbane, Australia, June 2012.
135. Yu, J.J.Q., Li, V.O.K., and Lam, A.Y.S., "Sensor deployment for air pollution monitoring using public transportation system," Proc. IEEE Congress on Evolutionary Computation, Brisbane, Australia, June 2012.
136. Sun, Y., Lam, A.Y.S., Li, V.O.K., Xu, J. and Yu, J.J.Q., "Chemical Reaction Optimization for the Optimal Power Flow Problem," Proc. IEEE Congress on Evolutionary Computation, Brisbane, Australia, June 2012.
137. Xu, J., Lam, A.Y.S., Li, V.O.K., Li, Q., Fan, X., "Short Adjacent Repeat Identification based on Chemical Reaction Optimization," Proc. IEEE Congress on Evolutionary Computation, Brisbane, Australia, June 2012.
138. Liu, Y., Li, V.O.K., Leung, K.C. and Zhang, L., "Topology-transparent distributed multicast and broadcast scheduling in mobile ad hoc networks," Proc. IEEE Vehicular Technology Conference, Yokohama, Japan, May 2012.
139. Wen, M.H.F., Leung, K.C. and Li, V.O.K., "Communication-oriented smart grid framework," Proc. IEEE International Conference on Smart Grid Communications, Brussels, Belgium, Oct 2011.
140. Chim, T.W., Yiu, S.M., Hui, L.C.K., and Li, V.O.K., "PASS: Privacy-preserving authentication scheme for smart grid network," Proc. IEEE International Conference on Smart Grid Communications, Brussels, Belgium, Oct 2011.
141. Cheung, J.C.L., Chim, T.W., Yiu, S.M., Hui, L.C.K., and Li, V.O.K., "Credential-based privacy-preserving power request scheme for smart grid network," Proc. IEEE Globecom, Houston, Texas, USA, Dec 2011.
142. Pan, B., Lam, A.Y.S., and Li, V.O.K., "Network coding optimization based on Chemical Reaction Optimization," Proc. IEEE Globecom, Houston, Texas, USA, Dec 2011.
143. Yao, J., Leung, K.C. and Li, V.O.K., "A random censoring scheme for cooperative spectrum sensing," Proc. IEEE Globecom, Houston, Texas, USA, Dec 2011.
144. Fan, X. and Li, V.O.K., "The probabilistic maximum coverage problem in social networks," Proc. IEEE Globecom, Houston, Texas, USA, Dec 2011.
145. Dimatteo, S., Hui, P., Han, B., and Li, V.O.K., "Cellular traffic offloading through WiFi networks," Proc. IEEE International Conference on Mobile Ad-hoc and Sensor Systems (IEEE MASS 2011), Valencia, Spain, October 2011.
146. Yu, J.J.Q., Lam, A.Y.S., and Li, V.O.K., "Evolutionary artificial neural network based on Chemical Reaction Optimization," Proc. IEEE Congress on Evolutionary Computation, New Orleans, Louisiana, USA, June 2011.
147. Xu, J., Lam, A.Y.S., and Li, V.O.K., "Stock portfolio selection using Chemical Reaction Optimization," Proc. International Conference on Operations Research and Financial Engineering, Paris, France, June 2011.
148. Kong, C., Wu, C., and Li, V.O.K., "SMS: Collaborative streaming in mobile social networks," Proc. IFIP/TC6 NETWORKING 2011, Valencia, Spain, May 2011.
149. Yang, Y., Xu, K., and Li, V.O.K., "Tragedy of the Commons in online social search," Proc. IEEE International Conference on Communications, Kyoto, Japan, June 2011.
150. Fan, X., Xu, K., and Li, V.O.K., "Fair packet forwarding in opportunistic networks," Proc. IEEE Vehicular Technology Conference, Budapest, Hungary, May 2011. (Best Paper Award, Mobile Applications and Services Track.)

151. Wang, P., Feng, W., Zhang, L., and Li, V.O.K., "Asynchronous cooperative transmission in underwater acoustic networks," Proc. International Symposium on Underwater Technology, Tokyo, Japan, April 2011.
152. Chim, T.W., Yiu, S.M., Hui, L.C.K., and Li, V.O.K., "MLAS: Multiple Level Authentication Scheme for VANETs," Proc. 6th ACM Symposium on Information, Computer and Communications Security, Hong Kong, China, March 2011.
153. Fan, X., Xu, K., Li, V.O.K., and Yang, G., "The effect of communication pattern on opportunistic mobile networks," Proc. IEEE Consumer Communications and Networking Conference, Las Vegas, Nevada, USA, Jan 2011.
154. Jin, X., Xu, K., Li, V.O.K., and Kwok, Y.K., "Discovering multiple resource holders in query-incentive networks," Proc. IEEE Consumer Communications and Networking Conference, Las Vegas, Nevada, USA, Jan 2011.
155. Xu, J., Li, Q., Fan, X., Li, V.O.K., and Li, S.Y. R., "An evolutionary Monte Carlo algorithm for identifying short adjacent repeats in multiple sequences," IEEE International Conference on Bioinformatics & Biomedicine, Hong Kong, China, Dec 2010.
156. Lam, A.Y.S. and Li, V.O.K., "Chemical Reaction Optimization for cognitive radio spectrum allocation," Proc. IEEE Globecom, Miami, Florida, USA, Dec 2010.
157. Geng, Y., Lam, A.Y.S. and Li, V.O.K., "Performance bounds of opportunistic scheduling in wireless networks," Proc. IEEE Globecom, Miami, Florida, USA, Dec 2010.
158. Xu, K., Li, V.O.K., Xie, J., and Yang, G., "Capability and responsibility balancing in online social search," Proc. IEEE Globecom, Miami, Florida, USA, Dec 2010.
159. Xu, K., Li, V.O.K., Xie, J., and Jin, X., "Privacy exposure of online social search," Proc. IEEE Globecom, Miami, Florida, USA, Dec 2010.
160. Yang, G., Li, V.O.K. and Yu, J., "Energy management system and pervasive service-oriented networks," Proc. IEEE International Conference on Smart Grid Communications, Gaithersburg, Maryland, USA, Oct 2010.
161. Hung, K.S., Lee, W.K., Li, V.O.K., Lui, K.S., Pong, P.W.T., Wong, K.K.Y., Yang, G.H., and Zhong, J., "On wireless sensors communication for overhead transmission line monitoring in power delivery systems," Proc. IEEE International Conference on Smart Grid Communications, Gaithersburg, Maryland, USA, Oct 2010.
162. Xu, J., Lam, A.Y.S. and Li, V.O.K., "Parallel Chemical Reaction Optimization for the Quadratic Assignment Problem," Proc. International Conference on Genetic and Evolutionary Methods, Las Vegas, Nevada, USA, July 2010.
163. Lam, A.Y.S., Xu, J., and Li, V.O.K., "Chemical Reaction Optimization for population transition in peer-to-peer live streaming," Proc. IEEE World Congress on Computational Intelligence, Barcelona, Spain, July 2010.
164. Li, V.O.K., Wu, F.F., and Zhong, J., "Communication requirements for Risk-Limiting Dispatch in Smart Grid," Proc. IEEE Workshop on Smart Grid Communications, Cape Town, South Africa, May 2010.
165. Geng, Y. and Li, V.O.K., "Mathematical impact of information accuracy on network performance," Proc. IEEE International Conference on Communications, Cape Town, South Africa, May 2010.
166. Geng, Y. and Li, V.O.K., "A framework to analyze network performance based on information quality," Proc. IEEE International Conference on Communications, Cape Town, South Africa, May 2010. (Best Paper Award, Next Generation Networking and Internet Symposium.)
167. Hong, J. and Li, V.O.K., "Optimal resource allocation for transmitting network information and data in wireless networks," Proc. IEEE International Conference on Communications, Cape Town, South Africa, May 2010.

168. Xu, K., Xie, J., and Li, V.O.K., "Locating experts via on-line social networks," Proc. IEEE International Conference on Communications, Cape Town, South Africa, May 2010.
169. Sun, Q., Li, V.O.K., and Leung, K.C., "Adaptive topology-transparent distributed scheduling in wireless networks," Proc. IEEE International Conference on Communications, Cape Town, South Africa, May 2010.
170. Xu, J., Lam, A.Y.S. and Li, V.O.K., "Chemical Reaction Optimization for the Grid Scheduling Problem," Proc. IEEE International Conference on Communications, Cape Town, South Africa, May 2010.
171. Yu, X., Zhao, H., Zhang, L., Krishnamachari, B. and Li, V.O.K., "Cooperative sensing and compression in vehicular sensor networks for urban monitoring," Proc. IEEE International Conference on Communications, Cape Town, South Africa, May 2010.
172. Sun, Y., Li, V.O.K., and Leung, K.C., "A framework for topology-transparent scheduling in wireless networks," Proc. IEEE Vehicular Technology Conference, Taipei, Taiwan, May 2010.
173. Yang, G., Xu, K. and Li, V.O.K., "Hybrid cargo-level tracking system for logistics," Proc. IEEE Vehicular Technology Conference, Taipei, Taiwan, May 2010.
174. Hong, J. and Li, V.O.K., "Effect of information on routing performance in multi-hop wireless networks," Proc. IEEE Vehicular Technology Conference, Taipei, Taiwan, May 2010.
175. Xu, K., Li, V.O.K., Chung, J., and Xi, X.N., "Exploring centrality for message forwarding in opportunistic networks," Proc. IEEE Wireless Communications and Networking Conference, Sydney, Australia, April 2010.
176. Lai, C., Leung, K.C. and Li, V.O.K., "Enhancing wireless TCP: A serialized-timer approach," Proc. IEEE INFOCOM, San Diego, California, March 2010.
177. Lai, C., Leung, K.C. and Li, V.O.K., "A testbed for TCP in heterogeneous wired/wireless networks," Proc. IEEE INFOCOM Demos, San Diego, California, March 2010.
178. Xu, K., Chau, C.K. and Li, V.O.K., "Bistability in online social networks," Proc. IEEE INFOCOM Student Workshop, San Diego, California, March 2010.
179. Chung, J., Xu, K., Colaco, A., Schmandt, C. and Li, V.O.K., "My Second Bike: A TV-enabled social and interactive riding experience," IEEE International Workshop on Social TV: the Next Wave, Las Vegas, Nevada, USA, Jan 2010.
180. Wang, P., Zhang, L., Krishnamachari, B., and Li, V.O.K., "Token-based data collection protocols for multi-hop underwater acoustic sensor networks," The Fourth ACM International Workshop on UnderWater Networks (WUWNet), Berkeley, California, USA, Nov 2009.
181. Hong, J. and Li, V.O.K., "Impact of information on wireless network performance – An information-theoretic perspective," Proc. IEEE Globecom, Honolulu, Hawaii, USA, Nov. 2009.
182. Chen, H., Cui, L., and Li, V.O.K., "A joint design of opportunistic forwarding and energy-efficient MAC protocol in wireless sensor networks," Proc. IEEE Globecom, Honolulu, Hawaii, USA, Nov. 2009.
183. Lam, A.Y.S. and Li, V.O.K., "Generalization of the No-Free-Lunch Theorem," Proc. IEEE International Conference on Systems, Man, and Cybernetics, Los Angeles, California, USA, Oct 2009.
184. Zhao, Z., Liu, Q., Yang, G.H., Li, V.O.K., and Cui, L., "A multi-radio wireless P2P network testbed," Proc. ACM WiNTECH, Beijing, China, Sept 2009.
185. Chim, T.W., Yiu, S.M., Hui, L.C.K., Li, V.O.K., "SPECS: Secure and privacy enhancing communication schemes for VANETs," Proc. Adhocnets, Niagara Falls, Canada, Sept 2009.

186. Lai, C., Leung, K.C. and Li, V.O.K., "TCP-NCL: A unified solution for TCP packet reordering and random loss," Proc. IEEE PIMRC, Tokyo, Japan, Sept 2009.
187. Pias, M., Xu, K., Hui, P., Crowcroft, J., Yang, G.H., Li, V.O.K., and Taherian, S., "Sentient bikes for collecting mobility traces in opportunistic networks," Proc. 1st ACM International Workshop on Hot Topics of Planet-scale Mobility Measurements, Krakow, Poland, June 2009 (Invited paper).
188. Chim, T.W., Yiu, S.M., Hui, L.C.K., Li, V.O.K., "Security and privacy issues for inter-vehicle communications in VANETs," Proc. IEEE SECON, Rome, Italy, June 2009.
189. Xu, K., Yang, G.H., Li, V.O.K., and Chan, S.Y., "Detecting dynamic communities in opportunistic networks," Proc. IEEE International Conference on Ubiquitous and Future Networks, Hong Kong, China, June 2009, pp. 159 - 164.
190. Xu, K., Hui, P., Li, V.O.K., Crowcroft, J., Latora, V., and Pietro, L., "Impact of altruism on opportunistic communications," Proc. IEEE International Conference on Ubiquitous and Future Networks, Hong Kong, China, June 2009, pp. 153 - 158.
191. Li, V.O.K., Cui, L., Liu, Q., Yang, G.H., Zhao, Z., and Leung, K.C., "A heterogeneous peer-to-peer network testbed," Proc. IEEE International Conference on Ubiquitous and Future Networks, Hong Kong, China, June 2009, pp. 46 - 51 (Invited paper).
192. Hui, P., Mortier, R., Xu, K., Crowcroft, J., and Li, V.O.K., "Sharing airtime with Shair avoids wasting time and money," Proc. ACM HotMobile'09, Santa Cruz, California, USA, Feb, 2009.
193. Hui, P., Xu, K., Li, V.O.K., Crowcroft, J., Latora, V., and Pietro, L., "Selfishness, altruism and message spreading in social networks," Proc. IEEE International Workshop on Network Science for Communication Networks, Rio de Janeiro, Brazil, April 2009.
194. Huang, F., Li, V.O.K., and Leung, K.C., "Adjustable transmission power in wireless ad hoc networks with smart antennas," Proc. IEEE Globecom, New Orleans, Louisiana, USA, Nov. 2008.
195. Li, C.Y., Wai, P.K.A., and Li, V.O.K., "Performance model of deflection-routed multi-slot batch-transfer networks," Proc. IEEE Globecom, New Orleans, Louisiana, USA, Nov. 2008.
196. Sun, Q., Li, V.O.K., and Leung, K.C., "Topology-transparent distributed scheduling in multi-hop wireless networks," Proc. IEEE Globecom, New Orleans, Louisiana, USA, Nov. 2008.
197. Hong, J. and Li, V.O.K., "The effect of information on scheduling performance in multi-hop wireless networks," Proc. IEEE PIMRC, Cannes - French Riviera, France, Sept. 2008.
198. Sun, Y., Li, V.O.K., and Leung, K.C., "Distributed scheduling with end-to-end compensation in multihop ad hoc networks," Proc. IEEE PIMRC, Cannes - French Riviera, France, Sept. 2008.
199. Li, G.M., Li, V.O.K., Li, C.Y., and Wai, P.K.A., "Delayed reservation decision in optical burst switching networks with optical buffers," Proc. ICST 3rd International Conference on Communications & Networking in China, Hangzhou, China, Aug. 2008 (Best Paper Award).
200. Xu, J. and Li, V.O.K., "A request-driven swarming scheme for P2P data streaming," Proc. ICST QShine, Hong Kong, China, July 2008.
201. Sun, Q., Li, V.O.K., and Leung, K.C., "Efficient content distribution in wireless P2P networks," Proc. ICST QShine, Hong Kong, China, July 2008.
202. Dong, Y., Li, V.O.K., Yiu, S.M., Hui, L.C.K., "Strongly anonymous communications in mobile ad hoc networks," Proc. BCS/IET International Network Conference, Plymouth, UK, July 2008.

203. Sun, Y., Li, V.O.K., and Leung, K.C., "Distributed opportunistic scheduling in multihop wireless ad hoc networks," Proc. IEEE International Conference on Communications, Beijing, China, May 2008.
204. Li, C.Y., Wai, P.K.A., and Li, V.O.K., "Improving the performance of optical burst switching with large control overhead," Proc. IEEE International Conference on Communications, Beijing, China, May 2008.
205. Sun, F.L., Li, V.O.K., Diao, Z.F., "Joint dynamic subcarrier allocation and flow control for real-time streaming over multiuser OFDM systems," Proc. IEEE Globecom, Washington, DC, USA, November 2007.
206. Li, C.Y., Wai, P.K.A., and Li, V.O.K., "Multi-slot batch-transfer optical packet switch," Proc. IEEE Globecom, Washington, DC, USA, November 2007.
207. Zhou, K., Yeung, K.L., and Li, V.O.K., "On performance modeling of TCP New-Reno," Proc. IEEE Globecom, Washington, DC, USA, November 2007.
208. Zhou, B., Fu, C.P., and Li, V.O.K., "TFRC Veno: An enhancement of TCP friendly rate control over wired/wireless networks," Proc. IEEE ICNP, Beijing, China, October 2007.
209. Sun, F.L., Li, V.O.K., Diao, Z.F., "Modified bipartite matching for multiobjective optimization," Proc. IEEE TENCON, Taipei, Taiwan, October 2007.
210. Sun, F.L., Li, V.O.K., Diao, Z.F., "Multiobjective optimized bipartite matching for resource allocation," Proc. IEEE International Symposium on Communications and Information Technologies, Sydney, Australia, October 2007.
211. Yang, G., Shen, D., and Li, V.O.K., "Adaptive video transmission for OFDM systems," Proc. IEEE International Conference on Multimedia and Expo, Beijing, China, July 2007, pp. 707 - 710.
212. Dong, Y., Sui, A.F., Yiu, S.M., Li, V.O.K., Hui, L.C.K., Go, H.W., "An efficient cluster-based proactive secret share update scheme for mobile ad hoc networks," Proc. IEEE International Conference on Communications, Glasgow, Scotland, UK, June 2007.
213. Sun, F.L., Li, V.O.K., Diao, Z.F., and Xu, Z.Y., "Contention-based medium access control with physical layer assisted link differentiation," Proc. IEEE International Conference on Communications, Glasgow, Scotland, UK, June 2007.
214. Zhang, H., Zhang, L., Shan, X.M., and Li, V.O.K., "Probabilistic search in P2P networks with high node degree variation," Proc. IEEE International Conference on Communications, Glasgow, Scotland, UK, June 2007.
215. Li, C.Y., Wai, P.K.A., and Li, V.O.K., "Optical burst switching with burst access mode passive optical networks," Proc. IEEE LANMAN Workshop, Princeton, New Jersey, USA, June 2007.
216. Dong, Y., Li, V.O.K., Hui, L.C.K., Yiu, S.M., "Dynamic distributed certificate authority services for mobile ad hoc networks," Proc. IEEE Wireless Communications and Networking Conference, Hong Kong, China, March 2007.
217. Yang, D.Q., Leung, K.C., and Li, V.O.K. Li, "Simulation-based comparisons of solutions for TCP packet reordering in wireless networks, " Proc. IEEE Wireless Communications and Networking Conference, Hong Kong, China, March 2007.
218. Zhang, X., Hong, J., Zhang, L., Shan, X.M., and Li, V.O.K., "CC-TDMA: Coloring- and coding-based multi-channel TDMA scheduling for wireless ad hoc networks, " Proc. IEEE Wireless Communications and Networking Conference, Hong Kong, China, March 2007.
219. Sun, F.L., Li, V.O.K., Diao, Z.F., and Xu, Z.Y., "A new cross-layer designed multipolling MAC protocol over WLANs, " Proc. IEEE Wireless Communications and Networking Conference, Hong Kong, China, March 2007.

220. Sun, F.L., Li, V.O.K., Diao, Z.F., and Xu, Z.Y., "Medium access control with physical layer assisted loss differentiation," Proc. IEEE Globecom, San Francisco, California, USA, November 2006.
221. Yang, G., Shen, D., and Li, V.O.K., "Adaptive video streaming over multi-channel ad hoc networks," Proc. IEEE Globecom, San Francisco, California, USA, November 2006.
222. Liu, X., Li, V.O.K., and Zhang, P., "Joint radio resource management through vertical handoffs in 4G networks," Proc. IEEE Globecom, San Francisco, California, USA, November 2006.
223. Sun, F.L. and Li, V.O.K., "An adaptive TCP algorithm to support handoffs in heterogeneous overlay networks," Proc. IEEE TENCON, Hong Kong, China, November 2006.
224. Li, C.Y., Li, G.M., Wai, P.K.A., and Li, V.O.K., "Optical burst switching with large switching overhead," Proc. IEEE International Conference on Communications, Istanbul, Turkey, June 2006.
225. Yang, D., Shen, D., Shao, W., and Li, V.O.K., "Towards opportunistic fair scheduling in wireless networks," Proc. IEEE International Conference on Communications, Istanbul, Turkey, June 2006.
226. Yang, G., Zheng, H., Zhao, J., and Li, V.O.K., "Adaptive channel selection through collaborative sensing," Proc. IEEE International Conference on Communications, Istanbul, Turkey, June 2006.
227. Zhao, M., Zhu, H., Shao, W., Li, V.O.K., and Yang, Y., "Contention-based prioritized opportunistic medium access control in wireless LANs," Proc. IEEE International Conference on Communications, Istanbul, Turkey, June 2006.
228. Zhu, H., Li, V.O.K., and Ma, Z., Zhao, M., "Statistical connection admission control framework based on achievable capacity estimation," Proc. IEEE International Conference on Communications, Istanbul, Turkey, June 2006.
229. Yang, G., Shen, D., and Li, V.O.K., "Unequal error protection for MIMO systems with a hybrid structure," Proc. IEEE International Symposium on Circuits and Systems, Kos, Greece, May 2006.
230. Feng, Z., Yu, K., Ji, Y., Zhang, P., Li, V.O.K., and Zhang Y., "Multi-access radio resource management using multi-agent system," Proc. IEEE Wireless Communications and Networking Conference, Las Vegas, Nevada, USA, April 2006.
231. Yang, G., Chen, J., Yu, K., Zhang, P., and Li, V.O.K., "Joint radio resource management based on the Species Competition Model," Proc. IEEE Wireless Communications and Networking Conference, Las Vegas, Nevada, USA, April 2006.
232. Chan, J., Li, V.O.K., Lui, K.S., "Scheduling Algorithms for Peer-to-Peer Collaborative File Distribution," Proc. IEEE CollaborateCom, San Jose, California, USA, December 2005.
233. Wu, B., Yeung, K., Li, V.O.K., "Two-layer parallel switching: A practical and survivable design for performance guaranteed optical packet switches," Proc. IEEE Globecom, St. Louis, Missouri, USA, November 2005.
234. Zhou, K., Yeung, K.L., and Li, V.O.K., "Throughput modeling of TCP with slow-start and fast recovery," Proc. IEEE Globecom, St. Louis, Missouri, USA, November 2005.
235. Li, G.M., Li, C.Y., Li, V.O.K., and Wai, P.K.A., "Dimensioning fiber delay lines in optical burst switching networks," Proc. BCS/CIE/IEE/IEEE First International Workshop on Network Architecture and Service Models, Shanghai, China, Nov. 2005.
236. Yang, D., Shao, W., Shen, D., and Li, V.O.K., "Hybrid busy tone and carrier sense based MAC protocol in multi-hop ad hoc networks," Proc. BCS/CIE/IEE/IEEE First International Workshop on Network Architecture and Service Models, Shanghai, China, Nov. 2005.

237. Liu, X., Li, V.O.K., Zhang, Q., Wang, Y., and Zhang, P., "Intelligent Handoffs in B3G Network with Edge Mobility Agent (EMA)," Proc. BCS/CIE/IEE/IEEE First International Workshop on Network Architecture and Service Models, Shanghai, China, Nov. 2005, pp. 72 - 28.
238. Dong, Y., Go, H.W., Sui, A.F., Li, V.O.K., Hui, L.C.K., Yiu, S.M., "Providing distributed certificate authority service in mobile ad hoc networks," Proc. IEEE SecureComm, Athens, Greece, September, 2005.
239. Sun, F., Li, V.O.K., and Liew, S.C., "Clustered-loss retransmission protocol over wireless TCP," Proc. IEEE PIMRC, Berlin, Germany, September 2005.
240. Shao, W., Shen, D., Yang, D., and Li, V.O.K., "A power-controlled MAC supporting service differentiation in mobile ad hoc networks," Proc. IEEE PIMRC, Berlin, Germany, September 2005.
241. Diao, Z., Shen, D., and Li, V.O.K., "An adaptive packet scheduling algorithm in OFDM systems with smart antennas," Proc. IEEE PIMRC, Berlin, Germany, September 2005.
242. Shao, W., Shen, D., Yang, D., and Li, V.O.K., "Fair power-controlled multiple access in mobile ad hoc networks," Proc. IEEE Vehicular Technology Conference, Dallas, Texas, USA, Sept. 2005.
243. Wang, Y., Zhang, Q., Wang, Y., Zhang, P., Li, V. O.K., "QoS guaranteed vertical handoff signaling scheme for heterogeneous networks," Proc. IEEE International Symposium on Microwave, Antenna, Propagation and EMC Technologies for Wireless Communications, Beijing, China, August 2005.
244. Zhou, K., Yeung, K.L., and Li, V.O.K., "P-XCP: A transport layer protocol for satellite IP networks," Proc. IEEE Workshop on High Performance Switching and Routing, Hong Kong, May 2005.
245. Shao, W., Chan, K.S., and Li, V.O.K., "A Distributed Bandwidth Reservation Algorithm for QoS Routing in TDMA based MANET," Proc. IEEE Workshop on High Performance Switching and Routing, Hong Kong, May 2005.
246. Li, M., Zhang, L., Shan, X., and Li, V.O.K., "An energy-aware multipath routing protocol for mobile ad hoc network," Proc. ACM SIGCOMM Asia Workshop, Beijing, China, April 2005.
247. Go, H.W., Chan, P.Y., Dong, Y., Sui, A.F., Yiu, S.M., Hui, L.C.K., and Li, V.O.K., "Performance evaluation on CRL distribution using flooding in mobile ad hoc networks," Proc. 43rd ACM Southeast Conference, Kennesaw, GA, USA, March 2005.
248. Zhao, M., Zhu, H., Li, V.O.K., and Ma, Z., "A stability-based link state updating mechanism," Proc. IEEE International Conference on Communications, Seoul, Korea, May 2005.
249. Li, C.Y., Li, G.M., Wai, P.K.A., and Li, V.O.K., "Novel resource reservation schemes for optical burst switching," Proc. IEEE International Conference on Communications, Seoul, Korea, May 2005.
250. Zhang, L., Shen, D., Shan, X., and Li, V.O.K., Ren, Y. "A receiver-initiated soft-state probabilistic multicasting protocol in wireless ad hoc networks," Proc. IEEE International Conference on Communications, Seoul, Korea, May 2005.
251. Ge, F. Shen, D., and Li, V.O.K., "Iterative CZT-based frequency offset estimation for frequency-selective channels," Proc. IEEE International Conference on Communications, Seoul, Korea, May 2005.
252. Li, C.Y., Li, G.M., Wai, P.K.A., and Li, V.O.K., "Performance comparison between optical burst switching and deflection routing," Proc. of The Third International Conference on Optical Communications and Networks (ICOON 2004), Hong Kong, Nov 30 - Dec 1, 2004, pp. 103 - 106.

253. Zhou, K., Yeung, K.L., and Li, V.O.K., "P-XCP: A transport layer protocol for satellite IP networks," Proc. IEEE Globecom, Dallas, Texas, USA, November, 2004.
254. Diao, Z., Shen, D., and Li, V.O.K., "CPLD-PGPS scheduler in wireless OFDM systems," Proc. IEEE Globecom, Dallas, Texas, USA, November, 2004.
255. Zhang, L., Li, V.O.K., and Cao, Z., "Non-binary Type-II hybrid ARQ in Rician fading channels," Proc. IEEE VTC, Los Angeles, California, USA, September, 2004.
256. Diao, Z., Shen, D., and Li, V.O.K., "A PGPS scheduler based on adaptive sub-carrier allocation in wireless OFDM systems," Proc. IEEE VTC, Los Angeles, California, USA, September, 2004.
257. Diao, Z., Shen, D., and Li, V.O.K., "Performance analysis of space-time codes with channel estimation errors," Proc. IEEE VTC, Los Angeles, California, USA, September, 2004.
258. Chau, O., Hui, P., Liu, X., and Li, V.O.K., "A peer-to-peer Bluetooth JINI architecture for media streaming," Proc. IEEE VTC, Los Angeles, California, USA, September, 2004.
259. Liu, X., Hui, P., Li, V.O.K., and Zhang, P., "Service-differentiated handoff protocol (SDHP)," Proc. IEEE VTC, Los Angeles, California, USA, September, 2004.
260. Li, V.O.K., "Vertex-linked infrastructure for ad hoc networks," Proc. IEEE PIMRC, Barcelona, Spain, September 2004.
261. Diao, Z., Shen, D., and Li, V.O.K., "Robustness of space-time codes in the presence of channel estimation errors in OFDM systems," Proc. IEEE PIMRC, Barcelona, Spain, September 2004.
262. Yang, G., Shen, D., and Li, V.O.K., "Adaptive sub-channel allocation based UEP for video transmission in space-time coded OFDM systems," Proc. IEEE PIMRC, Barcelona, Spain, September 2004.
263. Chau, O.S., Hui, P., and Li, V.O.K., "An architecture enabling Bluetooth/JINI interoperability," Proc. IEEE PIMRC, Barcelona, Spain, September 2004.
264. Yao, Z., Li, V.O.K., and Cao, Z., "Maximum throughput analysis and enhancement of slotted ALOHA for multihop ad hoc networks," Proc. IEEE International Conference on Communications, Paris, France, June 2004.
265. Yang, D. and Li, V.O.K., "Distributed flow-based scheduling in multi-hop ad hoc networks," Proc. IEEE International Conference on Communications, Paris, France, June 2004.
266. Li, C.Y., Li, G.M., Li, V.O.K., Wai, P.K.A., "A wavelength-switched time-slot routing scheme for wavelength-routed networks," Proc. IEEE International Conference on Communications, Paris, France, June 2004.
267. Ding, Z., Hamdi, M., Lee, J., and Li, V.O.K., "Integrated routing and grooming in GMPLS-based optical networks," Proc. IEEE International Conference on Communications, Paris, France, June 2004.
268. Go, H.W., Hui, L.C.K., Yiu, S.M., Dong, Y., Li, V.O.K., "Applying forward security and threshold cryptography in ad hoc networks," Proc. International Conference on Wireless Networks, Las Vegas, Nevada, USA, June 2004.
269. Wang, W., Liew, S.C., Pang, Q., Li, V.O.K., "A multiplex-multicast scheme that improves system capacity of voice-over-IP on wireless LAN by 100%," Proc. IEEE Symposium on Computers and Communications, Alexandria, Egypt, June 2004.
270. Yang, G., Shen, D., and Li, V.O.K., "Unequal error protection for wireless video transmission in space-time coded OFDM systems through sub-channel partitioning," Proc. IEEE INFOCOM, Hong Kong, China, March 2004.
271. Sun, F., Li, V.O.K., and Liew, S.C., "Design of SNACK mechanism for wireless TCP with New Snoop," Proc. IEEE WCNC, Atlanta, Georgia, USA, March 2004.

272. Ge, F., Shen, D., Peng, Y., and Li, V.O.K., "Super-resolution time delay estimation in multipath environments," Proc. IEEE WCNC, Atlanta, Georgia, USA, March 2004.
273. Li, V.O.K. and Lu, Z., "Ad hoc network routing," Proc. IEEE ICNSC, Taipei, Taiwan, March 2004.
274. Liu, C., Yeung, K.L., and Li, V.O.K., "A novel MAC scheduling algorithm for Bluetooth system," Proc. IEEE Globecom, San Francisco, California, November 2003.
275. Li, C.Y., Li, G.M., Li, V.O.K., Wai, P.K.A., Xie, H., Yuan, X., "Using 2×2 switching modules to build large 2-D MEMS optical switches," Proc. IEEE Globecom, San Francisco, California, November 2003.
276. Pang, Q., Liew, S.Q., Fu, P.C., Wang, W., Li, V.O.K., "Performance study of TCP Veno over WLAN and RED router," Proc. IEEE Globecom, San Francisco, California, November 2003.
277. Leung, K.C. and Li, V.O.K., "A paracasting model for concurrent access to replicated content," Proc. IEEE Computer Communications Workshop, Dana Point, California, USA, Oct 2003, pp. 105 - 111.
278. Li, G.L. and Li, V.O.K., "Networks of queues: Myth and reality," Proc. IEEE Computer Communications Workshop, Dana Point, California, USA, Oct 2003, pp. 154 - 158.
279. Li, C.Y., Li, G.M., Wai, P.K.A., Li, V.O.K., "Performance analysis of realistic optical time division multiplexed wavelength-routed networks," Proc. IEEE Computer Communications Workshop, Dana Point, California, USA, Oct 2003, pp. 134 – 138.
280. Toh, C.K., Tsai, W.K., Li, V. O. K., Guichai, G., "Transporting audio over wireless ad hoc networks: Experiments and new insights," Proc. IEEE PIMRC 2003, Beijing, China, September 2003.
281. Zhang, L., Li, V. O. K., Cao, Z. "Throughput analysis of nonbinary Type-II hybrid ARQ," Proc. IEEE PIMRC 2003, Beijing, China, September 2003.
282. Zhuge, L., Cao, Y., Li, V. O. K., "Adaptive packet scheduling in cellular CDMA," Proc. IEEE PIMRC 2003, Beijing, China, September 2003.
283. Yao, Z., Fan, P., Cao, Z., Li, V. O. K., "Cross layer design for service differentiation in mobile ad hoc networks," Proc. IEEE PIMRC 2003, Beijing, China, September 2003.
284. Shen, D., Wong, K.K., Pan, Z., Li, V. O.K., "Effective throughput for coded OFDM/SDMA systems with pilot-assisted channel estimation," Proc. IEEE PIMRC 2003, Beijing, China, September 2003.
285. Shen, D. and Li, V. O.K., "Performance analysis for a stabilized multi-channel Aloha," Proc. IEEE PIMRC 2003, Beijing, China, September 2003.
286. Sun, F.L., Zeng, P. and Li, V.O.K., "CLRP protocol over wireless TCP," Regional Inter-University Postgraduate Electrical and Electronic Engineering Conference, Hong Kong, Aug 2003.
287. G.M. Li, C.Y. Li, V.O.K. Li, P.K. Wai, H. Xie and X.C. Yuan, "2-D optical MEMS switches with concave mirrors," Regional Inter-University Postgraduate Electrical and Electronic Engineering Conference, Hong Kong, Aug 2003, pp. 157-158.
288. Zhou, K., Yeung, K.L., and Li, V.O.K., "Nonlinear RED: A Simple Yet Efficient AQM Scheme," Proc. International Conference on Computer, Communication and control Technologies (CCCT'03), Vol. VI, Orlando, Florida, USA, July 2003, pp.225-230.
289. Chen, Y.Y. and Li, V.O.K., "Dynamic mobility agent protocol (DMAP) for micro-mobility management," Proc. 2nd International Workshop on Real-Time LANs in the Internet Age, Porto, Portugal, July 1, 2003.
290. Zhang, L., Li, V. O. K., Cao, Z. "Throughput of nonbinary Type-II hybrid ARQ with adaptive modulation," Proc. IEEE ISIT 2003, Yokohama, Japan, June 2003, p. 450.

291. Yao, Z., Jiang, J., Fan, P., Cao, Z., Li, V. O. K., "A neighbor-table-based multipath routing in ad hoc networks," Proc. IEEE VTC Spring 2003, Jeju, Korea, April 2003, pp. 1739 - 1743.
292. Cao, Y., Li, V.O.K., and Cao, Z., "Scheduling delay-sensitive and best-effort traffics in wireless networks," Proc. IEEE International Conference on Communications, Anchorage, Alaska, May 2003, pp. 2208 - 2212.
293. Shen, D.X., Pan, Z.G., Wong, K.K., and Li, V.O.K., "Effective throughput: A unified benchmark for pilot-aided OFDM/SDMA wireless communication systems," Proc. IEEE INFOCOM, San Francisco, California, March 2003.
294. Zhang, Z.C. and Li, V.O.K., "Layered multicast with forward error correction (FEC) for Internet video," Proc. IEEE Globecom, Taipei, Taiwan, November 2002.
295. Li, C.Y., Wai, A., Yuan, X., Li, V.O.K., "Multicasting in deflection-routed all-optical packet-switched networks," Proc. IEEE Globecom, Taipei, Taiwan, November 2002.
296. Cao, Y. and Li, V.O.K., "Wireless packet scheduling for two-state link models," Proc. IEEE Globecom, Taipei, Taiwan, November 2002.
297. Shen, D.X. and Li, V.O.K., "Stabilized multi-channel ALOHA for wireless OFDM networks," Proc. IEEE Globecom, Taipei, Taiwan, November 2002.
298. Lam, R. Y. W., Chan, H.C.B., Li, V.O.K., Dillon T. S., and Leung, V. C. M., "Active routing service for the next-generation network/ISDN3," Proc. IEEE Globecom, Taipei, Taiwan, November 2002.
299. Li, V.O.K., "Next-generation wireless networks," Proc. IEEE APOC, Shanghai, China, October 2002 (invited paper).
300. Li, V.O.K., "Next-generation wireless networks," Keynote Speech, CA Expo, Hong Kong, China, August 2002.
301. Li, V.O.K., "Next-generation wireless networks," Keynote Speech, IEEE ICCAS, Chengdu, China, June 2002.
302. Li, V.O.K. and W.J. Liao, "Wireless multimedia networks," Proc. 6th International Symposium on Parallel Architectures, Algorithms, and Networks, Manila, Philippines, May 2002. (invited paper).
303. Bakiras, S. and Li, V.O.K., "Efficient resource management for end-to-end QoS guarantees in DiffServ networks," Proc. IEEE International Conference on Communications, New York, New York, April 2002.
304. Zhang, Z.C. and Li, V.O.K., "Router-assisted layered multicast," Proc. IEEE International Conference on Communications, New York, New York, April 2002.
305. Lam, F., Lau, W., and Li, V.O.K., "Inter-domain router placement and traffic engineering," Proc. IEEE International Conference on Communications, New York, New York, April 2002.
306. Cao, Y. and Li, V.O.K., "Utility-oriented adaptive QoS and bandwidth allocation in wireless networks," Proc. IEEE International Conference on Communications, New York, New York, April 2002.
307. Li, C.Y., Wai, A., Yuan, X., Li, V.O.K., "Deflection routing in slotted self-routing networks with arbitrary topology," Proc. IEEE International Conference on Communications, New York, New York, April 2002.
308. Zhuge, L. and Li, V.O.K., "Scheduling start time in CDMA burst admission," Proc. IEEE International Conference on Communications, New York, New York, April 2002.
309. Zhang, L., Li, V.O.K., and Cao, Z., "Short BCH Codes for Wireless Multimedia Data," Proc. IEEE WCNC, Orlando, Florida, USA, March 2002.
310. Zhuge, L. and Li, V.O.K., "Forward link capacity in multi-service DS-CDMA systems," Proc. IEEE Globecom, San Antonio, Texas, November 2001.

311. Bakiras, S. and Li, V.O.K., "Quality of service support in differentiated services packet networks," Proc. IEEE International Conference on Communications, Helsinki, Finland, June 2001.
312. Chan, T.K., Lau, W., and Li, V.O.K., "A measurement-based congestion alarm for self-similar traffic," Proc. IEEE International Conference on Communications, Helsinki, Finland, June 2001.
313. Yuan, X., Li, V.O.K., Li, C.Y., and Wai, A., "A novel self-routing scheme for all-optical packet switched networks with arbitrary topology," Proc. IEEE International Conference on Communications, Helsinki, Finland, June 2001.
314. Hu, Y. and Li, V.O.K., "Logical topology-based routing in LEO constellations," Proc. IEEE International Conference on Communications, Helsinki, Finland, June 2001.
315. Chan, H.C.B., Li, V.O.K., and Leung, V.C.M., "Performance analysis of CAR: Centralized Adaptive Reservation," in Proc. IEEE CCECE'01, Toronto, Ontario, May 2001.
316. Chan, H.C.B., Lam, R.Y.W., Dillon, T.S., Li, V.O.K., and Leung, V.C.M., "ISDN3: The next generation networks," IEEE PACRIM'01, Victoria, B.C., Canada, August 2001.
317. Zhuge, L. and Li, V.O.K., "Interference estimation for admission control in multi-service DS-CDMA cellular systems," Proc. IEEE Globecom, San Francisco, California, November 2000, pp. 1509 - 1514.
318. Leung, K.C. and Li, V.O.K., "Generalized load sharing for packet-switching networks," Proc. IEEE International Conference on Network Protocols, Osaka, Japan, Nov. 2000.
319. Zhuge, L. and Li, V.O.K., "Estimation of reverse-link capacity for multiband DS-CDMA systems," Proc. ACM 3rd International Workshop on Modeling Analysis and Simulation of Wireless and Mobile Systems, Boston, Massachusetts, USA, August 2000.
320. Zheng, J. and Li, V.O.K., "An adaptive flow classification algorithm for IP switching systems," Proc. IEEE Globecom, Rio de Janeiro, Brazil, December 1999.
321. Leung, K.C. and Li, V.O.K., "Flow assignment and packet scheduling for multipath networks," Proc. IEEE Globecom, Rio de Janeiro, Brazil, December 1999.
322. Zheng, J. and Li, V.O.K., "A cut-off priority flow classification policy for data-driven IP/ATM switching systems," IFIP Broadband Communications '99, Hong Kong, November 1999.
323. Zheng, J. and Li, V.O.K., "Label switching and gigabit routers," Proc. 10th IEEE Workshop on Local and Metropolitan Area Networks (LANMAN'99)," Sydney, Australia, November 1999, pp. 141 - 144.
324. Li, V.O.K., "Digital television on demand," Proc. Asia Pacific Electronics Symposium, Hong Kong, Oct. 1999.
325. Bakiras, S. and Li, V.O.K., "Smoothing and prefetching video from distributed servers," Proc. IEEE International Conference on Network Protocols, Toronto, Ontario, Canada, October 1999, pp. 311 - 318.
326. Sengodan, S. and Li, V.O.K., "DIVER : A Dynamic Interactive Video Retrieval Protocol for disk-array based servers," Proc. IEEE International Conference on Multimedia Computing Systems (ICMCS), Firenze, Italy, June 1999.
327. Leung, K.C. and Li, V.O.K., "A Resequencing Model for High Speed Networks," Proc. IEEE International Conference on Communications, Vancouver, Canada, June 1999, pp. 1239-1243.
328. Ju, J. and Li, V.O.K., "TDMA Scheduling Design of Multihop Packet Radio Networks Based on Latin Squares," Proc. IEEE INFOCOM, New York, New York, April 1999.
329. Zheng, J. and Li, V.O.K., "Performance models for IP switching with input queueing," 2nd International Conference on ATM (ICATM'99), Colmar, France, June 1999.

330. Chan, T.K. and Li, V.O.K., "Decomposition of network of queues with self-similar traffic," Proc. IEEE Globecom, Sydney, Australia, November 1998.
331. Kamiyama, N. and Li, V.O.K., "An efficient deterministic bandwidth allocation method in interactive video-on-demand systems," Proc. IEEE Globecom, Sydney, Australia, November 1998.
332. Li, V.O.K. and W.J. Liao, "Wireless multimedia networks," Keynote Speech, Proc. IEE/CIC/IEEE International Conference on Personal, Mobile and Spread Spectrum Communications, Shanghai, China, June 1998.
333. Li, V.O.K., "Personal Information Services (PIS) - An application of wideband communications 2012 A.D.," Keynote Speech, 1997 Multimedia Technology and Application Symposium, Taiwan, Dec 1997.
334. Win, M.Z., Ju, J., Qiu, X., Li, V.O.K. and Scholtz, R.A., "ATM based ultra-wide bandwidth (UWB) multiple-access radio network for multimedia PCS," Proc. 4th Annual NetWorld+Interop Engineer Conference, Las Vegas, Nevada, May 1997. (Recipient of the Best Student Paper Award of the conference.)
335. Liao, W.J. and Li, V.O.K., "The Split and Merge (SAM) Protocol for Interactive Video-on-Demand Systems," Proc. IEEE INFOCOM, Kobe, Japan, April 1997. (Recipient of the Research Paper Award of the Department of Electrical Engineering, University of Southern California.)
336. Sengodan, S. and Li, V.O.K., "A shared buffer architecture for interactive VOD servers," Proc. IEEE INFOCOM, Kobe, Japan, April 1997.
337. Sengodan, S. and Li, V.O.K., "A generalized grouping and retrieval scheme for stored MPEG video," Proc. IEEE International Conference on Communications, Montreal, Canada, June 1997.
338. Sengodan, S. and Li, V.O.K., "QuIVeR : A Class of Interactive Video Retrieval Protocols," Proc. IEEE Conference on Multimedia Computing Systems (ICMCS), Ottawa, Canada, June 1997.
339. Kamiyama, N. and Li, V.O.K., "Renegotiated CBR Transmission in interactive video-on-demand system," Proc. IEEE Conference on Multimedia Computing and Systems (ICMCS), Ottawa, Canada, June 1997.
340. Li, V.O.K. and Liao, W.J., "Interactive Video-on-demand," Keynote Speech, Multimedia Technology and Applications Conference, Taiwan, Dec 1996.
341. Li, V.O.K. and Abutaleb, A., "Location update and paging optimization in Personal Communication Systems," Keynote Paper, Proc. IEE/CIC/IEEE International Conference on Personal, Mobile and Spread Spectrum Communications, Hong Kong, Dec. 1996, pp. 145 -154.
342. Ju, J. and Li, V.O.K., "Arrival control schemes in spread-spectrum packet radio networks," Proc. IEE/CIC/IEEE International Conference on Personal, Mobile and Spread Spectrum Communications, Hong Kong, Dec. 1996, pp. 185 - 189.
343. Liao, W.J. and Li, V.O.K., "Synchronization of distributed multimedia systems with user interactions," Proc. 3rd International Conference on Multimedia Modeling MMM'96, Toulouse, France, November 1996.
344. Sengodan, S. and Li, V.O.K., "A quasi-static retrieval scheme for interactive disk-array based VOD servers," Proc. IEEE International Conference on Computer Communications and Networks, Rockville, Maryland, October 1996.
345. Liao, W.J. and Li, V.O.K., "Multimedia data modeling in distributed multimedia systems," Proc. 1996 Pacific Workshop on Distributed Multimedia Systems, Hong Kong, June 1996.

346. Qiu, X.X. and Li, V.O.K., "Performance analysis of PCS mobility management database Systems," Proc. IEEE International Conference on Computer Communications and Networks, Las Vegas, Nevada, September 1995.
347. Li, V.O.K. and Qiu, X.X., "Multiple access protocols in Personal Communication Systems," Proc. IEE Symposium on Personal Communication Services, Hong Kong, June 1995, pp. 12 - 28. (Invited Paper)
348. Lee, K.C. and Li, V.O.K., "Optimization of a WDM optical packet switch with wavelength converters," Proc. IEEE INFOCOM, Boston, Massachusetts, April 1995.
349. Li, V.O.K. and Liao, W.J., "Distributed multimedia systems in high speed networks: applications to virtual libraries," Proc. International Workshop on Academic Information Networks and Systems, Bangkok, Thailand, March 1995. (Invited Paper)
350. Li, V.O.K., "Personal Communication Systems," Proc. IEEE Seminar on Wireless Communications, Hong Kong, January 1995, pp. 5.1 - 5.9. (Invited Paper)
351. Cheung, W.Y.S. and Li, V.O.K., "Data allocation in distributed databases," Proc. International Computer Symposium, National Chiao-Tung University, Hsinchu, Taiwan, December 1994, pp. 923 - 934.
352. Qiu, X. and Li, V.O.K., "Data Hopping Time-Division Multiple Access (DH-TDMA): A simple, efficient protocol for integrated voice and data communications in PCS," Proc. IEEE/IEICE International Workshop on Multi-dimensional Mobile Information Networks, Niigata, Japan, November 1994, pp. 167 - 172. (Invited Paper)
353. Qiu, X. and Li, V.O.K., "Performance analysis of multichannel slotted ALOHA systems with capture in microcellular environments," Proc. IEE/CIC International Conference on Personal, Mobile Radio, and Spread Spectrum Communications, Beijing, China, October 1994, pp. 18 - 21.
354. Khan, I. and Li, V.O.K., "Performance analysis of a traffic shaping mechanism for ATM local area networks," Proc. USC/IEEE International Conference on Computer Communications and Networks, San Francisco, California, September 1994, pp. 45 - 51.
355. Qiu, X. and Li, V.O.K., "On the capacity of packet reservation multiple access scheme with capture in personal communication systems," Proc. USC/IEEE International Conference on Computer Communications and Networks, San Francisco, California, September 1994, pp. 348 - 352.
356. Li, V.O.K., "Research Directions in Wireless Communications: Networking Issues," Proc. International Workshop on Lightwave, Wireless and Networking Technologies, Chinese University of Hong Kong, Hong Kong, August 1994. (Electronic proceedings available from <http://www.ie.cuhk.hk/technevent.html>) (Invited Paper)
357. Banerjee, S. and Li, V.O.K., "Alleviating hot spots in a distributed database system in a high speed wide area network," Proc. IEEE TENCON, Singapore, August 1994, pp. 469 - 473.
358. Banerjee, S. and Li, V.O.K., "Application protocols for wide area gigabit networks," Proc. IEEE Gigabit Networking Workshop, Toronto, Ontario, Canada, June 1994. (Electronic proceedings available from <http://info.gte.com/ieee-tcgn/conference/gbn95>)
359. Lee, K.C. and Li, V.O.K., "Routing for all-optical networks using wavelengths outside the Erbium-doped fiber amplifier bandwidth," Proc. IEEE INFOCOM, Toronto, Ontario, Canada, June 1994, pp. 946 - 953.
360. Lee, K.C. and Li, V.O.K., "A circuit rerouting algorithm for all-optical wide-area networks," Proc. IEEE INFOCOM, Toronto, Ontario, Canada, June 1994, pp. 954 - 961.
361. Ngo, C.Y. and Li, V.O.K., "Poisson approximation of input traffic sources in Asynchronous Transfer Mode (ATM) Networks," Proc. IEEE INFOCOM, Toronto, Ontario, Canada, June 1994, pp. 1046 - 1053.

362. Khan, I. and Li, V.O.K., "A traffic control mechanism for ATM networks," Proc. IEEE GLOBECOM, Houston, Texas, Nov. 1993.
363. Abutaleb, A. and Li, V.O.K., "Performance evaluation of handoff schemes in personal communication networks," Proc. International Workshop on Mobile Communications and High Speed Networks, Osaka, Japan, Nov. 1993. (Invited Paper)
364. Khan, I. and Li, V.O.K., "Traffic shaping in ATM local area networks," Proc. IEEE Computer Communications Workshop, Del Mar, California, Oct. 1993.
365. Hsu, C.S. and Li, V.O.K., "Performance analysis of fiber-optic PPM CDMA packet networks," Proc. ISCA International Conference on Computer Communications and Networks, San Diego, California, June 1993.
366. Khan, I. and Li, V.O.K., "Performance analysis at an ATM statistical multiplexer serving a superposition of bursty traffic sources," Proc. ISCA International Conference on Computer Communications and Networks, San Diego, California, June 1993.
367. Lee, K.C. and Li, V.O.K., "Wavelength-convertible optical networks," Proc. IEEE INFOCOM, San Francisco, California, April 1993.
368. Hsu, C.S. and Li, V.O.K., "Multilevel Priority Scheme for Fiber-Optic Code-Division Multiple Access (CDMA) Packet Networks," Proc. IEEE INFOCOM, San Francisco, California, April 1993.
369. Ngo, C.Y. and Li, V.O.K., "Freeway traffic control using fuzzy logic controllers," Proc. International Conference on Fuzzy Theory and Technology, Durham, North Carolina, October 1992, pp. 214-218.
370. Lee, K.C. and Li, V.O.K., "Wavelength-Convertible Lightwave Networks," Proc. IEEE/LEOS Summer Topical Meeting on Optical Multiple Access Networks, Santa Barbara, California, August 1992, pp. 23-24.
371. Banerjee, S. and Li, V.O.K., "Order-P: An algorithm to order network partitionings," Proc. IEEE International Conference on Communications, Chicago, Illinois, June 1992, pp. 432-436.
372. Khan, I. and Li, V.O.K., "Congestion control in ATM networks using intra-cell multiplexing," Proc. ISMM International Conference on Computer Communications and Networks, San Diego, California, June 1992, pp. 117-121.
373. Hsu, C.S. and Li, V.O.K., "Performance analysis of fiber-optic code division multiple access (CDMA) packet networks," Proc. ISMM International Conference on Computer Communications and Networks, San Diego, California, June 1992, pp. 97-101.
374. Chou, A.M. and Li, V.O.K., "Slot allocation strategies for TDMA protocols in multihop packet radio networks," Proc. IEEE INFOCOM, Florence, Italy, May 1992, pp. 710-716.
375. Choudhury, A.K. and Li, V.O.K., "Effect of conflict resolution rules on the performance of deflection routing," Proc. IEEE GLOBECOM, Phoenix, Arizona, Dec 1991, pp. 1706-1711.
376. Yin, M. and Li, V.O.K., "Performance analysis of FH spread spectrum packet radio networks under the Poisson approximation," Proc. IEEE GLOBECOM, Phoenix, Arizona, Dec 1991, pp. 476-481.
377. Cheung, W.Y.S. and Li, V.O.K., "Dynamic hierarchical quorum consensus algorithm in distributed databases," Proc. IEEE Singapore International Conference on Networks, Singapore, September 1991, pp. 205-209.
378. Lee, K.C., Choudhury, A.K., and Li, V.O.K., "The multi-channel architecture for deflection routing in the high-speed Manhattan Street Networks," Proc. IEEE Singapore International Conference on Networks, Singapore, September 1991, pp. 172-177.
379. Banerjee, S. and Li, V.O.K., "A general model for non-uniform data access in a database system," Proc. IEEE COMPSAC, Tokyo, Japan, September 1991, pp. 301-306.

380. Choudhury, A.K. and Li, V.O.K., "Performance analysis of deflection routing in the Manhattan Street Network," Proc. IEEE International Conference on Communications, Denver, Colorado, June 1991, pp. 1659-1665.
381. Wu, C.S. and Li, V.O.K., "Delay analysis of tree conflict resolution algorithm with and without broadcast reservation using random or pseudo random addressing," Proc. IEEE International Conference on Communications, Denver, Colorado, June 1991, pp. 1324-1328.
382. Wang, C.P., Li, V.O.K. and Chen, A.L.P., "One-shot semi-join execution strategies for processing distributed queries," Proc. IEEE Data Engineering Conference, Kobe, Japan, April 1991, pp. 756 - 763.
383. Chou, A.M. and Li, V.O.K., "Fair spatial TDMA channel access protocols for multihop radio networks," Proc. IEEE INFOCOM, Miami, Florida, April 1991, pp. 1064-1073.
384. Wu, C.S. and Li, V.O.K., "Delay analysis of buffered BTMA protocols in multihop packet radio networks," Proc. IEEE INFOCOM, Miami, Florida, April 1991, pp. 1094-1103.
385. Le, K.V. and Li, V.O.K., "Efficient enumeration of most probable states for systems with dependent failures and multimode components," Proc. IEEE GLOBECOM, San Diego, CA, December 1990, pp. 693-697.
386. Chang, R.F. and Li, V.O.K., "Comparison of hierarchical and fully distributed mobile packet radio network," Proc. IEEE TENCON, Hong Kong, September 1990, pp. 63 - 67.
387. Huang, C.L. and Li, V.O.K., "Regeneration-based multiversion dynamic voting scheme for replicated database systems," Proc. IEEE International Conference on Distributed Computing Systems, Paris, France, June 1990, pp. 370-377.
388. Shyu, S.C., Li, V.O.K., and Wang, C.P. "An abortion-free distributed deadlock detection/resolution algorithm," Proc. IEEE International Conference on Distributed Computing Systems, Paris, France, June 1990, pp. 167 - 174.
389. Chang, R.F. and Li, V.O.K., "Local access algorithms in hierarchical mobile packet radio networks," Proc. IEEE INFOCOM, San Francisco, CA, June 1990, pp. 365 - 373.
390. Le, K.V. and Li, V.O.K., "A path-based approach for analyzing reliability of systems with dependent failures and multimode components," Proc. IEEE INFOCOM, San Francisco, CA, June 1990, pp. 495 - 503.
391. Pond, L. and Li, V.O.K., "Network capacity analysis of mobile multi-hop packet radio networks under virtual circuit and TDMA policies," Proc. IEEE INFOCOM, San Francisco, CA, June 1990, pp. 374-381.
392. Pond, L. and Li, V.O.K., "Network setup time and duration analysis of mobile multi-hop packet radio networks under virtual circuit and TDMA policies," Proc. IEEE International Conference on Communications, Atlanta, GA, April 1990.
393. Pond, L. and Li, V.O.K., "Adaptive signaling in distributed, self-organizing mobile packet radio networks," Proc. IEEE International Conference on Communications, Atlanta, GA, April 1990.
394. Choudhury, A.K. and Li, V.O.K., "A new reliability measure for computer networks," Proc. IEEE TENCON, Bombay, India, December 1989, pp. 293-297.
395. Pond, L. and Li, V.O.K., "Throughput analysis of CDMA access policies in radio determination satellite service," Proc. IEEE GLOBECOM, Dallas, TX, December 1989, pp. 617-621.
396. Pond, L. and Li, V.O.K., "A distributed time-slot assignment protocol for mobile multi-hop broadcast packet radio networks," Proc. IEEE MILCOM, Boston, MA, October 1989, pp. 70-74.
397. Chang, R.F. and Li, V.O.K., "Hierarchical routing in mobile packet radio networks," Proc. IEEE Singapore International Conference on Networks, Singapore, July 1989, pp. 427-432.

398. Choudhury, A.K. and Li, V.O.K., "Designing the MCBMT: A class of reliable architectures for metropolitan area networks," Proc. IEEE Singapore International Conference on Networks, Singapore, July 1989, pp. 216-221.
399. Yin, M. and Li, V.O.K., "Ballot technique to analyze unslotted CDMA with fixed packet lengths," Proc. IEEE International Conference on Communications, Boston, MA, June 1989, pp. 685-689.
400. Tsai, D., Li, V.O.K., Stedry, S., and Hung, C.K., "Error-Correction scheme for the NASA Deep Space Network Ground Communication Facility Upgrade," Proc. IEEE International Conference on Communications, Boston, MA, June 1989, pp. 804-808.
401. Huang, C.L. and Li, V.O.K., "Missing-partition dynamic voting scheme for replicated database systems," Proc. IEEE International Conference on Distributed Computing Systems, Newport Beach, California, June 1989, pp. 579-586.
402. Chang, R.F. and Li, V.O.K., "Performance analysis of mobile packet radio networks," Proc. IEEE INFOCOM, Ottawa, Ontario, Canada, April 1989, pp. 1084-1088.
403. Le, K.V. and Li, V.O.K., "Modeling and analysis of systems with multimode components and dependent failures," Proc. IEEE INFOCOM, Ottawa, Ontario, Canada, April 1989, pp. 972-980.
404. Wang, C.P. and Li, V.O.K., "The multi-phase concurrency control algorithm for distributed database systems," Proc. IEEE International Computer Science Conference, Hong Kong, December 1988, pp. 129-137.
405. Chang, R.F. and Li, V.O.K., "Analysis of packet delay for an integrated voice-data system," Proc. IEEE GLOBECOM, Hollywood, Florida, November 1988, pp. 1095-1100.
406. Wu, C.S. and Li, V.O.K., "Delay analysis of buffered CSMA/CD protocols," Proc. IEEE GLOBECOM, Hollywood, Florida, November 1988, pp. 694-698.
407. Wu, C.S. and Li, V.O.K., "Majority decoded automatic repeat request error control schemes," Proc. IEEE GLOBECOM, Hollywood, Florida, November 1988, pp. 1648-1652.
408. Yin, M. and Li, V.O.K., "Throughput of single-hop unslotted CDMA with fixed packet lengths," Proc. IEEE MILCOM, San Diego, CA, October 1988, pp. 715-720.
409. Chang, R.F. and Li, V.O.K., "Analysis of flow control in multihop packet radio networks," Proc. IEEE International Conference on Communications, Philadelphia, Pennsylvania, June 1988, pp. 161-165.
410. Chou, A.M. and Li, V.O.K., "Performance analysis of circuit-switching with packet overlay in the U.S. Army Mobile Subscriber Equipment Network," Proc. IEEE International Conference on Communications, Philadelphia, Pennsylvania, June 1988, pp. 295-300.
411. Krolkowski, Z., Li, V.O.K., and Huang, C.L., "Multi-query processing in distributed database systems," Proc. International Symposium on Computer at the University, Cavtat, Yugoslavia, June 1988.
412. Wu, C.S. and Li, V.O.K., "An integrated voice/data protocol for satellite channels," Proc. NASA/JPL Mobile Satellite Conference, Los Angeles, California, May 1988, pp. 413-422.
413. Chiou, S.N. and Li, V.O.K., "An optimal two-copy routing scheme in a communications network," Proc. IEEE INFOCOM, New Orleans, Louisiana, April 1988, pp. 288-297.
414. Wu, C.S. and Li, V.O.K., "Random access for a multibeam satellite with dynamic transponder switching," Proc. IEEE INFOCOM, New Orleans, Louisiana, April 1988, pp. 1022-1031.
415. Huang, C.L. and Li, V.O.K., "A quorum-based termination protocol for distributed database systems," Proc. IEEE Data Engineering Conference, Culver City, California, February 1988, pp. 136-143.

416. Wang, C.P. and Li, V.O.K., "A unified concurrency control algorithm for distributed database systems," Proc. IEEE Data Engineering Conference, Culver City, California, February 1988, pp. 410-417.
417. Feldman, P.M. and Li, V.O.K., "Delay analysis for adaptive hybrid ARQ protocol," Proc. IEEE MILCOM, Washington, D.C., October 1987, pp. 388-392.
418. Feldman, P.M. and Li, V.O.K., "An adaptive hybrid ARQ protocol for continuous-time Markovian channels," Proc. IEEE MILCOM, Washington, D.C., October 1987, pp. 502-508.
419. Chan, H.W. and Li, V.O.K., "Multiple access protocol for Federal Aviation Air Traffic Control System," Proc. World Telecommunications FORUM, Geneva, Switzerland, October 1987.
420. Chen, S.J. and Li, V.O.K., "Optimizing joins in fragmented database systems on a broadcast local area network," Proc. IEEE International Conference on Distributed Computing Systems, Berlin, Germany, September 1987.
421. Wu, C.S. and Li, V.O.K., "Receiver-initiated busy-tone multiple access in packet radio networks," Proc. ACM SIGCOMM Workshop on Frontiers in Computer Communications Technology, Stowe, Vermont, August 1987, pp. 336-342.
422. Feldman, P.M. and Li, V.O.K., "Adaptive coding for discrete-time Markovian channels," Proc. IFIP International Conf. on Data Commun. Systems and their Performance, Rio de Janeiro, Brazil, June 1987, pp.139-153.
423. Chang, R.F. and Li, V.O.K., "Delay analysis of slotted ALOHA multihop packet radio networks," Proc. IEEE International Conference on Communications, Seattle, Washington, June 1987, pp. 620-624.
424. Chiou, S.N. and Li, V.O.K., "Diversity transmissions in a communications networks with unreliable components," Proc. IEEE International Conference on Communications, Seattle, Washington, June 1987, pp. 968-973.
425. Wang, C.P. and Li, V.O.K., "The Precedence-Assignment Model for distributed database concurrency control algorithms," Proc. ACM Symposium on Principles of Database Systems, San Diego, California, March 1987, pp. 119-128.
426. Huang, C.L. and Li, V.O.K., "A termination protocol for simple network partitioning in distributed database systems," Proc. IEEE Data Engineering Conference, Culver City, California, February 1987, pp. 455-465.
427. Wang, C.P. and Li, V.O.K., "Queueing analysis of the conservative timestamp-ordering concurrency control algorithm," Proc. International Computer Symposium, Tainan, Taiwan, December 1986, pp. 1450-1455.
428. Sarraf, M. and Li, V.O.K., "Carrier-sense multiple access with fixed retransmission assignment," Proc. IEEE GLOBECOM, Houston, Texas, December 1986, pp. 450-454.
429. Li, V.O.K. and Chang, R.F., "Proposed routing algorithms for the U.S. Army Mobile Subscriber Equipment (MSE) Network," Proc. IEEE MILCOM, Monterey, California, October 1986, pp. 39.4.1-39.4.7.
430. Lam, Y.F. and Li, V.O.K., "A survey of network reliability modeling and calculations," Proc. IEEE MILCOM, Monterey, California, October 1986, pp. 1.2.1-1.2.5.
431. Su, S.L. and Li, V.O.K., "Performance comparison of acknowledgment protocols for multihop code division multiple access networks," Proc. IEEE International Conference on Communications, Toronto, Ontario, Canada, June 1986, pp. 1833-1838.
432. Sarraf, M. and Li, V.O.K., "An adaptive multiple access strategy for a channel with power capture," Proc. IEEE International Conference on Communications, Toronto, Ontario, Canada, June 1986, pp. 889-893.

433. Li, V.O.K. and Yan, T.Y., "A reliable pipelining protocol for the message service of the Mobile Satellite Experiment," Proc. IEEE INFOCOM, Miami, Florida, April 1986, pp. 572-579.
434. Chiou, S.N. and Li, V.O.K., "Reliability analysis of a communication network with multimode components," Proc. IEEE INFOCOM, Miami, Florida, April 1986, pp. 303-308.
435. Sarraf, M. and Li, V.O.K., "A stable multiple access scheme for satellite communications networks," Proc. IEEE INFOCOM, Miami, Florida, April 1986, pp. 1-9.
436. Su, S.L. and Li, V.O.K., "Time synchronization and ranging for multihop mobile radio networks," Proc. IEEE INFOCOM, Miami, Florida, April 1986, pp. 636-640.
437. Wang, C.P. and Li, V.O.K., "The relation-partitioning approach to processing star queries in distributed databases," Proc. IEEE Data Engineering Conference, Los Angeles, California, February 1986, pp. 21-28.
438. Hou, T.C. and Li, V.O.K., "Position updates and sensitivity analysis for routing strategies in multihop mobile packet radio networks," Proc. IEEE GLOBECOM, New Orleans, Louisiana, December 1985, pp. 243-249.
439. Su, S.L. and Li, V.O.K., "An iterative model to analyze multihop packet radio networks," Proc. Allerton Conference on Communication, Control, and Computing, Monticello, Illinois, October 1985, pp. 545-554.
440. Chen, S.J. and Li, V.O.K., "A new multiple access protocol for local area networks," Proc. IEEE International Conference on Communications, Chicago, Illinois, June 1985, pp. 1119-1124.
441. Hou, T.C. and Li, V.O.K., "Performance analysis of multihop packet radio networks with capture," Proc. IEEE International Conference on Communications, Chicago, Illinois, June 1985, pp. 1311-1317.
442. Yan, T.Y. and Li, V.O.K., "A retransmission protocol for the message service of a land mobile satellite experiment," Proc. IEEE International Conference on Communications, Chicago, Illinois, June 1985, pp. 766-770.
443. Lam, Y.F. and Li, V.O.K., "Reliability modeling and analysis of communications networks with dependent failures," Proc. IEEE INFOCOM, Washington, D.C., March 1985, pp. 196-199.
444. Yan, T.Y. and Li, V.O.K., "A variable bandwidth assignment scheme for the land mobile satellite experiment," Proc. IEEE INFOCOM, Washington, D.C., March 1985, pp. 383-388.
445. Hou, T.C. and Li, V.O.K., "Routing strategies of multihop packet radio networks with a more realistic packet reception probability," Proc. IEEE INFOCOM, Washington, D.C., March 1985, pp. 303-309.
446. Lam, Y.F. and Li, V.O.K., "A generalized network: some properties and applications," Proc. IEEE Intl. Conf. on Comp., Systems and Signal Processing, Bangalore, India, December 1984, pp. 241-243.
447. Chen, A.L.P. and Li, V.O.K., "Performance analysis for distributed query optimization algorithms," Proc. International Computer Symposium, Taipei, Taiwan, December 1984, pp. 567 - 574.
448. Chen, A.L.P. and Li, V.O.K., "Improving semi-join programs for distributed query processing," Proc. IEEE COMPSAC, Chicago, Illinois, November 1984, pp. 181-189.
449. Yan, T.Y., Li, V.O.K. and Yuen, J., "An adaptive multiple access scheme for the integrated services of a land mobile satellite experiment," Proc. IEEE GLOBECOM, Atlanta, Georgia, November 1984, pp. 1177-1183.
450. Hou, T.C. and Li, V.O.K., "Performance analysis of routing strategies in multihop packet radio networks," Proc. IEEE GLOBECOM, Atlanta, Georgia, November 1984, pp. 487-492.

451. Su, S.L. and Li, V.O.K., "Performance analysis of a slotted code division multiple access (CDMA) network," Proc. IEEE MILCOM, Los Angeles, California, October 1984, pp. 322-326.
452. Chen, A.L.P. and Li, V.O.K., "Optimizing star queries in a distributed database system," Proc. Tenth International Conference on Very Large Data Bases, Singapore, August 1984, pp. 429-438.
453. Su, S.L. and Li, V.O.K., "Performance analysis of an asynchronous code division multiple access (CDMA) network," Proc. 7th MIT/ONR Workshop on Distributed Information and Decision Systems, San Diego, California, June 1984, pp. 115-120.
454. Yan, T.Y. and Li, V.O.K., "Performance analysis of an adaptive multiple access scheme for the message service of a land mobile satellite experiment (MSAT-X)," Proc. IEEE International Conference on Communications, Amsterdam, The Netherlands, May 1984, pp. 580-583.
455. Chen, A.L.P. and Li, V.O.K., "Deriving optimal semi-join programs for distributed query processing," Proc. IEEE INFOCOM, San Francisco, California, April 1984, pp. 136-145.
456. Lam, Y.F. and Li, V.O.K., "On network reliability calculations with dependent failures," Proc. IEEE GLOBECOM, San Diego, California, December 1983, pp. 1499-1503.
457. Chen, A.L.P. and Li, V.O.K., "Properties of optimal semi-join programs for distributed query processing," Proc. IEEE COMPSAC, Chicago, Illinois, November 1983, pp. 476-483.
458. Li, V.O.K., and Silvester, J.A., "Performance analysis of networks with unreliable components," Proc. IEEE International Conference on Communications, Boston, Massachusetts, June 1983, pp. 493-498.
459. Li, V.O.K., "A new approach to query processing in distributed databases," Proc. Mediterranean Electrotechnical Conference, Athens, Greece, May 1983, pp. A9.07.1-A9.07.2.
460. Li, V.O.K., "Conflict models of two-phase locking algorithms in distributed databases," Proc. IEEE COMPSAC, Chicago, Illinois, November 1982, pp. 368-376.
461. Li, V.O.K., "Message delay in a communication network with unreliable components," Proc. 5th MIT/ONR Workshop on Distributed Information and Decision Systems, Naval Postgraduate School, Monterey, California, August 1982, pp. 280-284.
462. Li, V.O.K., "Performance models of distributed databases," Proc. IEEE NTC, New Orleans, Louisiana, December 1981, pp. G9.2.1-G9.2.5.
463. Li, V.O.K., "Performance models of distributed databases," Proc. 4th MIT/ONR Workshop on Distributed Information and Decision Systems, Vol. 3, San Diego, California, June 1981, pp. 37-46.
464. Li, V.O.K. and Davenport, W.B., Jr., "Progress in distributed database research," Proc. 3rd MIT/ONR Workshop on Distributed Information and Decision Systems, Washington, D.C., June 1980, pp. 131-161.
465. Li, V.O.K. and Davenport, W.B., Jr., "Problems of distributed databases," Proc. 2nd MIT/ONR Workshop on Distributed Information and Decision Systems, Naval Postgraduate School, Monterey, California, July 1979, pp. 571-599.

Technology Policy Papers

1. Li, V.O.K., "Transfer of Information and Communication Technology from the University of Hong Kong," Proc. Forum on the Commercialization of Research Output from Universities of Beijing and Hong Kong, Hong Kong, September 2001 (in Chinese, also in R & D Management, Volume 14, March 2002).

2. Li, V.O.K., "Statement on Smart ID Card," Hong Kong Legislative Council, Panel on Security, November 2000, LC Paper No. CB(2) 214/00-01 (02).
3. Li, V.O.K., "Impact of IT development on the economy," Proc. Symposium on IT development in the 21st century, Hong Kong Convention and Exhibition Centre, June 2000 (in Chinese).
4. Li, V.O.K., "Strategy for technology transfer at the University of Hong Kong," Proc. Symposium on the commercialization of university research results in Hong Kong and Shanghai, Tongji University, Shanghai, China, April 2000 (in Chinese, also in R & D Management).
5. Li, V.O.K., "Development of Information Technology at the University of Hong Kong," E-voyage, Business Student Association, the University of Hong Kong, 1999.
6. Li, V.O.K., "Information Engineering," CE-Zone, Computer Engineering Student Association, the University of Hong Kong, 1999.
7. Li, V.O.K., "Technology: A strategy for success," Hong Kong Industrialist, Hong Kong Federation of Industries, Jan 1999, pp. 37 - 41.
8. Li, V.O.K., "Strategies for telecommunication development in China," Trans. of the Hong Kong Institution of Engineers, Vol. 5, No. 3, Dec 1998, pp. 140 - 141.
9. Li, V.O.K., "The importance of telecommunications to economic development and strategies for telecommunication infrastructure development," Proc. Symposium on Strategies for State-owned Enterprise Development, Tsinghua University, Beijing, China, Nov. 1997 (in Chinese).
10. Li, V.O.K., "Strategies for Guangdong-Hong Kong technology collaboration," Proc. Symposium on Strategies for Modernization of Guangdong, Guangdong, China, Dec. 1997 (in Chinese).
11. Li, V.O.K., "Strategies for Mainland-Hong Kong-Taiwan information industry collaboration," Proc. Conference on Knowledge Economy and Information Strategy, Hangzhou, China, Nov. 1998 (in Chinese).
12. Li, V.O.K., "Impact of information technology on business development in Hong Kong," i-focus 2000, Business Student Association, the University of Hong Kong, 2000.

Articles in mass media

1. Li, V.O.K., "Is Hong Kong suitable for the development of Information Technology industry?" Hong Kong Economic Times, Nov 12 1999 (in Chinese).
2. Li, V.O.K., "Voice Over IP," ITSC Newsletter, Office of the Government Chief Information Officer, Hong Kong Special Administrative Region, China, Issue 19, Feb 2006, pp. 3 – 5.
3. Li, V.O.K., "Digital photo frames evolve to offer 3D effects," The Standard, Feb 27 2008.
4. Li, V.O.K., "Ubiquitous tracking system," The Standard, Sept 4 2012.
5. Li, V.O.K. and Yang, G.H., "Cleaner Electricity with Energy Management System (EMS)," The Standard, Oct 9 2012.
6. Li, V.O.K., "Some thoughts on research strategies," The Graduate School Newsletter, The University of Hong Kong, April 2012.