

HONG K. LO

EDUCATION

The Ohio State University, Columbus, Ohio

- Ph.D. in Civil Engineering, 1991
- Master of City and Regional Planning, 1987
- Master of Science (Transportation), 1987

The University of Hong Kong, Hong Kong

- Certificate of Education, 1985
- Bachelor of Science (Civil Engineering), 1983

EXPERIENCE

96 - The Hong Kong University of Science and Technology, Hong Kong

Department of Civil and Environmental Engineering

Head, 2015 - present

Chair Professor, 7.2014 - present

Associate Dean of Engineering, 2011 - 2015

Associate Head, 2009 - 2011

Professor, 7.2007 – 6.2014

Associate Professor, 7.2001 – 6.2007

Assistant Professor, 7.1996 – 6.2001

Coordinator of Undergraduate Studies, 2001 – 2003; 2007 - 2009

Founding Director of the Self-financed MSc program, 2001 - 2003

93 - 96 University of California, Berkeley

Institute of Transportation Studies (PATH program)

Assistant Research Engineer

92 Oak Ridge National Laboratory, Oak Ridge

Center for Transportation Analysis

Postdoctoral Research Staff

85-91 The Ohio State University, Columbus

Departments of City & Regional Planning and Civil Engineering

Teaching and Research Associate

89 SU Oceanroutes, Inc., Sunnyvale, California

90 SU Internship

88 SU National Oceanic and Atmospheric Administration (NOAA)

89 SU Geodetic Laboratory, Washington DC

Internship

83 - 85 St. Stephen's College, Hong Kong

Certified Secondary School Teacher

PROFESSIONAL AFFILIATIONS

- Fellow, Chartered Institute of Logistics and Transport
- Fellow, Hong Kong Society for Transportation Studies
- Fellow, The Hong Kong Institution of Engineers

- Fellow, Hong Kong Institution of Highways and Transportation
- Member, American Society of Civil Engineers

AWARDS AND HONORS

- Selected in the preliminary list of **ISI Highly Cited Researcher 2013**
- **The 2001 World Conference on Transportation Research (WCTR) Prize** -- the best paper “A Cell-based Dynamic Traffic Assignment Model” out of 631 full papers presented at (or over 1100 abstracts submitted for) the 9th triennial WCTR Conference in July 22-27, 2001.
- **The 2003 Eastern Asia Society for Transportation Studies (EASTS) Outstanding Paper Award** -- “Time-Dependent Transport Network Design: A Study on Budget Sensitivity” out of 600 papers presented at the 5th biennial EASTS Conference in October 29 – Nov 1, 2003 in Fukuoka, Japan.
- **The 2000 Hong Kong Institution of Engineers (HKIE) Transactions Prize** – the best paper “Dynamic Intersection Signal Control Optimization (DISCO): Numerical Results for Argyle Street” out of all the papers published in 2000.
- **Visiting Professor, Nanyang Technological University, Singapore, 2015.**
- **2016 Asia Pacific Student Excellence Scholarship Program** (Yu Xiao)
- **2014 Research Excellence Award.** School of Engineering, The Hong Kong University of Science and Technology.
- **2014 Transportation Research Board Network Modeling Committee** Selected Paper (top three out of 200 papers). Robust Transit Network Design with Stochastic Demand.
- **2014 Hong Kong PhD Fellowship** (by my student Gege Zhang)
- **2013 Hong Kong Society for Transportation Studies Outstanding Student Paper Award 1st Runner-up** (by my student K. An).
- **2013 Hong Kong PhD Fellowship** (by my student Shuyang Zhang)
- **2012 清华大学优秀教材奖并获一等奖 (Tsinghua University outstanding teaching material 1st Prize):** Theoretical Research Frontiers in Transportation Planning (交通规畫理論研究前沿), Tsinghua University Press.
- **2012 Hong Kong PhD Fellowship** (by my student Yu Xiao)
- **2011 The Institution of Highways & Transportation (IHT) Hong Kong Branch Student Paper Award:** Modeling Transport Management and Land Value. (by my students CHAM Shuk Wun and YIP Ka Yin).
- **2010 Hong Kong PhD Fellowship** (by my student Kun An)
- **2009 The Institution of Highways & Transportation (IHT) Hong Kong Branch Student Paper Award:** Urban Development with Sustainable Public Transit Services. (by my students Chan Tik Pan and Chan Kwan Ho).
- **2008 Hong Kong Society for Transportation Studies (HKSTS) Outstanding Student Paper Award:** Impact of time-dependent transport management on activity location costs (by my student X. Ma) at the 13th Conference of Hong Kong Society for Transportation Studies.
- **2008 The Institution of Highways & Transportation (IHT) Hong Kong Branch Student Paper Award:** Transport Infrastructure Planning over Time. (by my students Chim Sai Shing and Yeung Sheung Chi).
- **2007 ASCE Hong Kong Section best Final Year Project Award:** Urban Development with Sustainable Public Transit Services. (by my former advisee Dennis C.K. Wong)
- **2005 Gordon Newell Memorial Prize and HKSTS Outstanding Dissertation Paper Award** (by my former PhD student W.Y. Szeto).
- **2004 Hong Kong Society for Transportation Studies (HKSTS) Outstanding Student Paper Award:** Managing the Urban Transit System via Bus Tolling (by Q.K. Wan and H. Lo), one of the best papers presented at the 9th Conference of Hong Kong Society for Transportation Studies.
- **2003 Hong Kong Society for Transportation Studies (HKSTS) Outstanding Student Paper Award:** Network Improvement Strategies across Time (by W.Y. Szeto and H. Lo), the best paper

out of all the papers presented at the 8th Conference of Hong Kong Society for Transportation Studies.

- **Teaching Excellence Appreciation Award.** The Hong Kong University of Science and Technology. Spring, 2001.
- **Teaching Excellence Appreciation Award.** The Hong Kong University of Science and Technology. Spring, 1997.
- **The American Institute of Certified Planners (AICP) Planning Student Award** in recognition of outstanding attainment in the study of planning. 1987.
- The Ohio State University, Dept. of City and Regional Planning, graduation with distinction. 1987.
- The University of Hong Kong, Cert. Ed., graduation with distinction, 1985.

FUNDED PROJECTS

1. Dynamic Traffic Management with Day-to-Day Travel Behaviour Model. Singapore Ministry of Education Academic Research Fund Tier 2 Grant. July 2016 – July 2019. Singapore \$405,000. Collaborator.
2. Safety, Reliability, and Disruption Management of High Speed Rail and Metro Systems. TBRs Project. Honorary Advisor.
3. Metro System Disruption Management. RGC General Research Fund, Project # 16209015, 31 December 2015 – 30 December 2018, HK\$ 695,788. **Principal Investigator and Project Management.**
4. IAS Postdoctoral Fellow Matching Fund, \$200,000, 2015 – 2016, VPRGO, HKUST. **Principal Investigator and Project Management.**
5. Modeling, inference and prediction for dynamic traffic networks. Marsden Fund MAU1406, 2014-2017, NZ\$380,000. New Zealand, Associate Investigator.
6. Planning for a sustainable market for electric vehicles and the accompanying charging infrastructure. RGC General Research Fund, Project # 16206114, 31 December 2014 – 30 December 2017, HK\$ 692,894. **Principal Investigator and Project Management.**
7. Network Congestion Pricing with Day-to-day Flow Dynamics. RGC General Research Fund (GRF) 2014-2015, 1 January 2015 – 31 December 2017, HKUST 16211114, HK\$500,000. Co-Principal Investigator.
8. Croucher Foundation Advanced Study Institute: “Toward a New Generation of Dynamic Network Models”. Nov 17-19, 2014, HK\$439,000. **Principal Investigator and Project Management.**
9. Planning for sustainable public transport services under varying urban development densities. RGC General Research Fund, Project #616113, 31 December 2013 – 30 December 2016, HK\$ 645,500. **Principal Investigator and Project Management.**
10. Independent Review of Feasibility Study on “Relocation of Sha Tin Sewage Treatment Works to Caverns” (Agreement No. CE 43/2011 (DS)). Drainage Services Department of the Government of the HKSAR. \$350,000, 2012-13. Co-Principal Investigator.
11. Modeling Traffic Assignment via Dynamic Travel Choice Adjustments. RGC General Research Fund, Project # 615712, 31 December 2012 – 30 December 2015, HK\$ 905,425. **Principal Investigator and Project Management.**
12. Simulation on learning interests and enhancement of learning outcomes in probability/statistics and programming skills with HKUST-related Examples. Center for Teaching and Learning (CELT) Teaching Development Projects, 2011-2012, HK\$200,000. Co-Principal Investigator.
13. Leadership development for engineering students. Center for Teaching and Learning (CELT) Teaching Development Projects, 2011-2012. HK\$200,000. Co-Principal Investigator.
14. Financially Sustainable Railway Development Strategies. CPU - Public Policy Research. HKUST6002-PPR-11, August 30, 2011 – August 29, 2013, HK\$793,483. **Principal Investigator and Project Management.**
15. Real-time intelligent transportation systems surveillance and management. Special Research Funding Initiative, SRFI11EG15, June 30, 2011 – June 29, 2013, HK\$872,000. **Principal Investigator and Project Management.**

16. Comprehensive Transport Study Model Enhancement – Feasibility Study. Transport Department of the Hong Kong SAR Government. Project CE67/2009 (TT), 2009 - 2013. HK\$80,000. Sub-consultancy Service.
17. Stochastic Dynamic Traffic Model for Incident Management. *RGC General Research Fund 2011-2014*, Project #525011, 31 December 2011 – 30 December 2014, HK\$681,195, Co-Principal Investigator.
18. Evaluation of the Trial Use of Unlighted Directional Sign. Highways Department of the Hong Kong SAR Government. Project Hy(S)Q/023/2010, September 2010 – March 2011. HK\$264,787.5. Co-Investigator.
19. Installation of Seat Belts on Student Service Vehicles (SSVs) in Hong Kong. Transport Department of the Government of the HKSAR. July 2010, - August 2011, \$1,040,420. Project Advisor.
20. Management Strategies for Dynamic Networks with Travel Behavior under Uncertainty. *RGC Competitive Earmarked Research Grant 2009-2012*, Project # 617209, 31 December 2009 – 30 December 2012, HK\$ 850,479. **Principal Investigator and Project Management.**
21. Multi-objective design, optimization and implementation of network congestion pricing schemes. *NSFC/RGC Joint Research Scheme*. Project # N_HKUST607/09, 31 December 2009 – 30 December 2012, RMB 320,000 and HK\$ 491,040. Co-Principal Investigator.
22. Dynamic transport network reliability and vulnerability analysis. *RGC Competitive Earmarked Research Grant 2008-2010*, Project #527108, 31 December 2008 – 30 December 2010, HK\$331,389, Co-Principal Investigator.
23. Robust Signal Control for Congested Traffic. *RGC Competitive Earmarked Research Grant 2006-2009*, Project # 617007, 31 December 2007 – 30 December 2009, HK\$ 407,550 **Principal Investigator and Project Management.**
24. Professional Development Programs for Traffic Engineers and Transportation Planners Professional Services Development Assistance Scheme, #2007-4-2, 2008-2009, \$618,000. Co-Principal Investigator.
25. Application for the Croucher Foundation Funding Scheme: Sponsorship of Conferences Held in Hong Kong: The 18th ISTTT, 2008-2009, \$100,000. Co-Principal Investigator.
26. Advanced Model for Optimal Implementation Path and Phasing of Road Pricing Schemes Design 2007-2009. Project #526107, 31 December 2007 – 30 December 2009, HK\$418,000, Co-Principal Investigator.
27. Advanced Models for Assessing the Effects of Non-recurrent Congestion on Road Network Reliability. 2007-2010. Project #519507, 31 December 2007 – 30 December 2010, HK\$678,240, Co-Principal Investigator.
28. Optimal Transportation Supply and Demand Management over Time. *RGC Competitive Earmarked Research Grant 2006-2009*, Project # 616906, 31 December 2006 – 30 December 2009, HK\$ 843,480, **Principal Investigator and Project Management.**
29. Advanced Models for Optimizing the Number of Transit Operators and the Design of Transit Networks. *RGC Competitive Earmarked Research Grant 2005-2007*, Project # 520206, 31 December 2006 – 30 December 2009, HK 638,000, Co-Principal Investigator.
30. Postdoctoral Fellow Matching Fund. Hong Kong University of Science and Technology. 1 January 2006 – 31 December 2006. HK\$162,000. **Principal Investigator and Project Management.**
31. Integrated planning of urban development with sustainable public transit services. *RGC Competitive Earmarked Research Grant 2005-2007*, Project # 617105, 31 December 2005 – 30 December 2007, HK\$359,227, **Principal Investigator and Project Management.**
32. Modelling and Evaluating Joint Implementation of Integrated Transit Pricing and Personal Public Transport Information Systems. *RGC Competitive Earmarked Research Grant 2005-2007*, Project # 518405, 31 December 2005 – 30 December 2007, HK\$359,227, Co-Principal Investigator.
33. A multi-period lane-based optimization method for signalized network with explicit consideration of spatial queues. *RGC Competitive Earmarked Research Grant 2005-2007*, Project# 718705, 31 December 2005 – 30 December 2008, HK\$691,751, Co-Principal Investigator.
34. Wong Tai Sin District Transport Survey. *Wong Tai Sin District Board*, 4524/WTSDC001/01, 1 Oct 2004 – 31 March 2005. HK\$200,000. Co-Principal Investigator.

35. Urban development with sustainable public transit services. *Engineering Research Committee of HKUST, DAG01/02.EG26*, 1 January 2005 - 31 December 2005, HK\$77,000, **Principal Investigator and Project Management**
36. Transportation Planning Models for Over-saturated Networks. *RGC Competitive Earmarked Research Grant 2004-2007*, HKUST6283/04E, 1 September 2004 - 31 August 2007, HK\$506,447, **Principal Investigator and Project Management**
37. Multi-Disciplinary Research using Cluster Computer. *Emerging High Impact Areas (EHIA) Grant*. 2004-2005. HK\$900,000, Co-Principal Investigator (Principal Investigator: P.W. Leung from Physics Department of the Hong Kong University of Science and Technology.)
38. Modelling Combined Activity and Travel Choices of Pedestrians in Congested Urban Areas. *RGC Competitive Earmarked Research Grant 2004-2006*, HKPU5168/04E, 2004 – 2006. \$337,631. Co-Principal Investigator (Principal Investigator: William Lam from Civil and Structural Engineering Department of the Hong Kong Polytechnic University.)
39. Postdoctoral Fellow Matching Fund. Hong Kong University of Science and Technology. 1 October 2003 – 30 September 2004. HK\$180,000. **Principal Investigator and Project Management**
40. Planning Transport Network Improvements over Time. *RGC Competitive Earmarked Research Grant 2003-2006*, HKUST6154/03E, 31 December 2003 - 30 December 2006, HK\$594,824, **Principal Investigator and Project Management**
41. Enhancement of the Trip Matrix Estimation Procedure in the CTS-3 Model, Agreement No. TD 18/2002. Engineering consultant for the Transport Department of the Government of the HKSAR on the project. A collaborative consultancy project with Hong Kong University, Hong Kong Polytechnic University, and City University. Co-Principal Investigator.
42. Bus Network Design in a Competitive, Regulatory Environment. *RGC Competitive Earmarked Research Grant 2002-2005*, HKUST6161/02E, 31 December 2002 - 30 December 2005, HK\$686,404, **Principal Investigator and Project Management**
43. A Passenger Route Guidance System for Multi-modal Public Transport Networks. *Sino Software Research Institute Applied Research Award, SSRI01/02.EG06*, 1 July 02 – 31 June 03, HK\$294,000. **Principal Investigator and Project Management** (With B. Mak at Computer Science of the Hong Kong University of Science and Technology)
44. Assessing Air Quality Improvement Of Traffic Management Strategies. *Engineering Research Committee of HKUST, DAG01/02.EG26*, 15 February 2002 - 14 February 2003, HK\$90,000, **Principal Investigator and Project Management**
45. A Methodology For Assessing, Managing, And Improving Degradable Transport Networks. *RGC Competitive Earmarked Research Grant 2001-2002*, HKUST6033/01E, 31 December 2001 - 30 December 2003, HK\$406,806. **Principal Investigator and Project Management** (With Y.K. Tung at Hong Kong University of Science and Technology)
46. An Integrated Planning Methodology for Win-Win Public Transit Services. *RGC Competitive Earmarked Research Grant 1999-2000*, HKUST6083/00E, 31 December 2000 - 30 December 2002, HK\$670,817, **Principal Investigator and Project Management** (With W.H.K. Lam at Hong Kong Polytechnic University and H. Yang at Hong Kong University of Science and Technology)
47. Real-time Adaptive Traffic Control. *Sino Software Research Institute Applied Research Award, SSRI99/00.EG02*, 1 Sep 00 – 31 August 01, HK\$211,000 plus 2 man-years of labor at Nanshan Technology Park. **Principal Investigator and Project Management** (With D.Y. Yeung at Computer Science of the Hong Kong University of Science and Technology)
48. Review of the Annual Traffic Census. *Transport Department, HKSAR*, 1 September 1999 - 31 August 2000, HK\$498,500, Co-Principal Investigator (With William Lam as PI and W.T. Hung at Hong Kong Polytechnic University, SC Wong and CO Tong at University of Hong Kong, and H Yang at Hong Kong University of Science and Technology).
49. Setting up and updating of base district traffic models for traffic impact assessments in Hong Kong, Kowloon and New Territories Engineering consultant for Atkins China Ltd on the project. Agreement No. CE 10/99, CE 11/99, CE 13/99) between the Transport Department of HKSAR and Atkins China Ltd. HK\$20,000. (Consultant to Atkins China Ltd).

50. Dynamic Intersection Control for Over-saturated Traffic. *RGC Competitive Earmarked Research Grant 1999-2000*, HKUST6101/99E, 31 December 1999 - 30 December 2001, HK\$405,000, **Principal Investigator and Project Management** (With W.H.K. Lam at Hong Kong Polytechnic University and M Bell at Newcastle University at UK.)
51. Modeling Pedestrian Movements in Congested Urban Areas. *RGC Competitive Earmarked Research Grant 1999-2000*, 31 December 1999 - 30 December 2001, HK\$405,000, Co-Principal Investigator (with William Lam at Hong Kong Polytechnic University as PI)
52. Software Simulation Environment for Adaptive Traffic Control with Real-time Information. *Sino Software Research Institute Applied Research Award*, SSRI98/99.EG02, HK\$311,000, 1 July 99 – 30 June 2000. **Principal Investigator and Project Management** (With D.Y. Yeung at Computer Science of the Hong Kong University of Science and Technology)
53. Comprehensive Citybus (CTB) Screenline Survey. *Transport Department, HKSAR, HKGTD98/99.EG06*, 7 December 1998 - 6 January 1999, HK\$72,335, **Principal Investigator and Project Management** (With H. Yang at Hong Kong University of Science & Technology)
54. Urban Development and Traffic Environment from the Perspective of the Road Network Capacity. *Engineering Research Committee of HKUST, DAG97/98.EG27*, 1 July 1998 - 30 June 1999, HK\$49,066, Co-Principal Investigator (With H. Yang at Hong Kong University of Science & Technology at PI)
55. KMB Bus Screenline Survey. 1996. HK\$10,000. Consultant to the Hong Kong Polytechnic University.
56. Survey Studies of Public Transport Services in Kwun Tong District. *Kwun Tong District Board, KTDB96/97.EG1*, 1 November 1994 - 15 March 1995, HK\$82,300, Co-Principal Investigator (With H. Yang as PI and Wilson Tang at Hong Kong University of Science & Technology)
57. Traffic Signal Control for Over-Saturated Transportation Networks. *Engineering Research Committee of HKUST, DAG97/98.EG03*, 1 July 1998 - 31 January 2000, HK\$141,669, **Principal Investigator and Project Management**
58. Dynamic Traffic Assignment Model Development. *Engineering Research Committee of HKUST, DAG96/97.EG32*, 15 November 1996 – 13 November 1998, HK\$91,890, **Principal Investigator and Project Management**
59. Development of an Evaluation Framework for Road Pricing. *California Department of Transportation*. US\$60,000, 94-95; US\$60,000, 95-96. **Principal Investigator and Project Management**
60. Dynamic Traffic Models Comparison. *California Department of Transportation*. US\$155,000, 94-95. **Principal Investigator and Project Management**
61. Functional and organizational analysis of Transportation Management Centers. *California Department of Transportation*. US\$46,000, 94-95. **Principal Investigator and Project Management**
62. National ITS Architecture Program. *Federal Highways Administration*. Subcontract to Rockwell International. US\$300,000, 93-94; US\$400,000, 95-96. Lead Engineer
63. Development of an Intelligent Transportation Systems (ITS) Evaluation Framework. *Federal Highways Administration*. US\$100,000, 92-93. **Principal Investigator and Project Management**

PUBLICATIONS

Book and Journal Editorship

Books

1. *Transportation and Traffic Theory 2009: Golden Jubilee*. 2009. Edited by Lam, W., SC Wong, and H. Lo. Springer. ISBN 978-1-4419-0820-9.

2. *Road Safety - Strategy and Implementation*. 2002. Edited by S.C. Wong, W.T. Hung, and **H. Lo**. China Public Security Publisher. Shenzhen, China. ISBN 96-86626-2-9.
3. *Professional Qualifying Examination –January & May 2003: Question Papers and Suggested Solutions*. 2002. The Chartered Institute of Logistics and Transport in Hong Kong. (ISBN: 962-86872-2-0). Edited by Ho S.F., Wong S.C., Loo B.P.Y. and **Lo H**
4. *Professional Qualifying Examination – May 2002: Question Papers and Suggested Solutions*. 2002. The Chartered Institute of Logistics and Transport in Hong Kong. (ISBN: 962-86872-1-2). Edited by Ho S.F., Wong S.C., Loo B.P.Y. and **Lo H**.

Journal Special Issues

1. **Lo, H.**, D. Watling, and G. Cantarella. 2016. Day to Day Dynamics in Transportation Networks. *Transportation Research Part B*. In press.
2. Lin, W.H., H. Liu, and **H. Lo**. 2016. Big data for Driver, Vehicle, and System Control in ITS. *IEEE Transactions on Intelligent Transportation Systems*, 17(6).
3. Lam, W., **H. Lo**, SC Wong. 2014. Advances in Equilibrium Models for Analyzing Transportation Network Reliability. *Transportation Research Part B*, 66, August.
4. Lam, W., **H. Lo**, SC Wong. 2013. Transportation Network Reliability. *Transportmetrica B: Transport Dynamics*, 1(3).
5. Lam, W., SC Wong, and **H. Lo**. 2011. Emerging Theories in Traffic and Transportation and (2) Emerging Methods for Transportation and Traffic Operations. *Transportation Research Part C*, 19(2).
6. **Lo, H.**, W. Lam, S.C. Wong, and J. Leung. 2011. Advanced Systems for Public Transport Scheduling and Network Design. *Public Transport*, 3(1).
7. **Lo, H.**, W. Lam, S.C. Wong, and J. Leung. 2010. Advanced Systems for Public Transport Scheduling and Control. *Public Transport*, 2(3).
8. Bandara, S., **H. Lo**, and S.C. Wong. 2010. Recent Advances in Traffic Control and Management. *Journal of Advanced Transportation*, 44(4).
9. **Lo, H.**, W. Lam, S.C. Wong, and J. Leung. 2010. Advanced Methods for Public Transport System Management. *Public Transport*, 2(1-1).
10. Schmocker, JD and **H. Lo**. 2009. Special Issue: on Improving Network Reliability Through ITS Technologies. *Journal of Intelligent Transportation Systems*, 13(1).
11. **Lo, H.** and W. Lam. 2008. Special issue: Travel Choice Behavior Modeling. *Transportmetrica*, 4(2).
12. **Lo, H.** and W. Lam. 2005. Application of New Technologies for Transit System Operations and Management. *Journal of Intelligent Transportation Systems*, 9(2).
13. Wong, S.C. and **H. Lo**. 2004. Advanced algorithms in traffic signal control for urban road systems. *Journal of Intelligent Transportation Systems*, 8.
14. **Lo, H.** and S.C. Wong. 2004. Special Issue: Advances in Urban Planning Methodologies (II). *ASCE Journal of Urban Planning and Development*, 130(1).
15. **Lo, H.** and S.C. Wong. 2002. Special Issue: Advances in Urban Planning Methodologies (I). *ASCE Journal of Urban Planning and Development*, 128(4).

Conference Proceedings

5. *Transportation and Logistics Management*. Proceedings of the 17th International Conference of Hong Kong Society for Transportation Studies. Edited by H.Y. Mak and H. Lo. December 14-16, 2012, Hong Kong.
6. *Transportmetrica: Advanced Methods for Transportation Studies*. Proceedings of the 9th Hong Kong Society for Transportation Studies. Edited by H. Yang and **H. Lo**. December 11, 2004, Hong Kong. 621 pages.
7. *Transportation Science and Technology into the Next Millennium*. Proceedings of the 4th Hong Kong Society for Transportation Studies. Edited by **H. Lo** and H. Yang. December 4, 1999, Hong Kong. 438 pages.

Book Chapters

1. An, K., and **H. Lo**. 2016. Transit Network Design with Stochastic Demand. Multi-Modal Transit System Modelling in the Context of ITS/ICT, Nuzzolo, A. and Lam, W.H.K., eds. Chapter 10.
2. Tang, S. and **H. Lo**. 2015. Property models for financing railway development. *Sustainable Railway Futures: Issues and Challenges*, Chapter 12, 201-218. Edited by B. Loo and C. Comtois. Ashgate Transport & Mobility Research Monographs.
3. Siu, B. and **H. Lo**. 2009. Integrated Network Improvement and Tolling Schedule: Mixed Strategy versus Pure Demand Management. *Travel Demand Management and Road User Pricing: Success, Failure and Feasibility*. Chapter 11, 185-214, Edited by Wafaa Saleh and Gerd Sammer. Ashgate Publishing Ltd.
4. Wong, C.K., S.C. Wong and **H. Lo**. 2007. A Cell Transmission Model for Signal Timing Optimization In Work Zones. Chapter 22, 307 - 319. *Mathematics in Transport*, edited by B. Heydecker. Elsevier Science.
5. Lam, W., N. Zhang., **H. Lo**. 2007 A Reliability-based User Equilibrium Model for Traffic Assignment. In *Reliability and Vulnerability in Critical Infrastructure: A Quantitative Geographic Perspective*, Chapter 8, 151-171, edited by A.T. Murray and T.H. Grubbs. Springer-Verlag: Berlin.
6. **Lo, H.** and W.Y. Szeto. 2004. Planning transport network improvements over time. In *Urban and Regional Transportation Modeling: Essays in Honor of David Boyce*, Chapter 9, 157-176. Edward Elgar.
7. **Lo, H.** and W.H.K. Lam. 2007. Stochastic Traffic Assignment Methods and Applications (隨機交通分配模型與應用). In *Theoretical Research Frontiers in Transportation Planning (交通規畫理論研究前沿)*. Edited by H.P. Lu and H.J. Huang. Chapter 6, 213-224. Tsing-Hua University Press.
8. Lam, W.H.K. and **H. Lo**. 2004. Traffic Assignment Methods. In *Transport Handbook 5: Transport Geography and Spatial Systems*, Chapter 34, 609-625. Edited by Stopher, Button, Kingsley, and Hensher. Elsevier Science.
9. **Lo, H.**, C.W. Yip, and Q. K. Wan. 2003. Modeling Competitive Multi-modal Transit Services. In *Advanced Modeling For Transit Operations and Service Planning*, Chapter 9, 231-256, Edited by W.H.K. Lam and M. Bell, Elsevier Science.
10. Wong, S.C., B.S.Y. Leung, W.T. Hung, **H. Lo**. 2002. Evaluation of road safety strategies. In S.C. Wong, W.T. Hung and H.K. Lo (eds.), *Road Safety - Strategy and Implementation*. Chapter 3, 33-50, China Public Security Publisher, Shenzhen, China.
11. **Lo, H.** and Y.K. Tung. 2000. A Chance Constrained Network Capacity Model. In *Reliability of Transport Networks*, Chapter 11, 159-172. Edited by M. Bell and C. Cassir. Research Studies Press Limited.

Refereed Journal Articles

1. Lin, W.H., H. Liu, and H. Lo. 2016. Editorial: Big data for Driver, Vehicle, and System Control in ITS. *IEEE Transactions on Intelligent Transportation Systems*, 17(6), 1663-1665.
2. Wang, D.Z.W and **H. Lo**. 2016. Urban Development with Financially Sustainable Rail Service. *Journal of Advanced Transportation*. Accepted.
3. Wang, D.Z.W and **H. Lo**. 2016. Financial sustainability of rail transit service: The effect of urban development pattern. *Transport Policy*, 48, 23-33.
4. Xiao, Yu, **H. Lo**. 2016. Day-to-day Departure Time Modeling under Social Network Influence. *Transportation Research Part B*. Accepted.
5. Xu, X., **H. Lo**, A. Chen, E. Castillo. 2016. Robust Network Sensor Location for Complete Link Flow Observability under Uncertainty. *Transportation Research Part B*, 88, 1-20.
6. Cen, X.K., **H. Lo**, and L. Li, 2016. A Framework for estimating traffic emissions: the development of Passenger Car Emission Unit. *Transportation Research Part D*, 44, 78-92.
7. Ma, X, and H. Lo. 2015. Adaptive Transport Supply and Demand Management Strategies in an Integrated Land Use and Transport Model. *Transportation Research Record*, 2494, 11-20.
8. An, K. and **H. Lo**. 2016. Two-Phase Stochastic Program for Transit Network Design under Demand Uncertainty. *Transportation Research Part B*, 84, 157-181.

9. Li, Lu, **H. Lo**, and X.K. Cen. 2015. Optimal Bus Fleet Replacement Strategy for Emissions Reduction. *Transportation Research Part D*, 41, 330-347.
10. Castillo, E., Z., Grande, A. Calvino, **H. Lo**, W.Y. Szeto. 2015. A state-of-the-art review of the sensor location, flow observability, estimation and prediction problems in traffic networks. *Journal of Sensors*, 2015, Article ID 903563.
11. Lin, W. and **H. Lo**. 2015. Highway Voting System: Embracing a Possible Paradigm Shift in Traffic Data Acquisition. *Transportation Research Part C*, 56, 149-160.
12. Ng, K. F. and **H. Lo**. 2015. Optimal Housing Supply in a Bid-Rent Equilibrium Framework. *Transportation Research Part B*, 74, 62-78.
13. An, K. and **H. Lo**. 2015. Robust Transit Network Design with Stochastic Demand Considering Development Density. *Transportation Research Part B*, 81, 737-754.
14. Xu, X.D., A. Chen, S. Kitthamkesorn, H. Yang, and **H. Lo**. 2015. Modeling absolute and relative cost differences in stochastic user equilibrium problem. *Transportation Research Part B*, 81, 686-703.
15. Yu, C.H., W.J. Ma, **H. Lo**, and X. Yang. 2015. Optimization of Mid-block Pedestrian Crossing Network with Discrete Demands. *Transportation Research Part B*, 73, 103-121.
16. Li, X., and **H. Lo**. 2014. Energy Minimization in Dynamic Train Scheduling and Control for Metro Rail Operations. *Transportation Research Part B*, 70, 269-284.
17. Ma, W.J, D. Liao, Y. Liu, and **H. Lo**. 2015. Optimization of Pedestrian Phase Patterns and Signal Timings for Isolated Intersection. *Transportation Research Part C*, 58, 502-514.
18. Lam, W., **H. Lo**, SC Wong. 2014. Advances in Equilibrium Models for Analyzing Transportation Network Reliability. *Transportation Research Part B*, 66, 1-3.
19. Li, X., and **H. Lo**. 2014. An Energy-Efficient Scheduling and Speed Control Approach for Metro Rail Operations. *Transportation Research Part B*, 64, 73-89.
20. Castillo, E., A. Calvino, **H. Lo**, J. Menendez, Z. Grande. 2014. Non-planar Hole-generated Networks and Link Flow Observability Based on Link Counters. *Transportation Research Part B*, 68, 239-261.
21. An, K. and **H. Lo**. 2014. Service Reliability-based Transit Network Design with Stochastic Demand. *Transportation Research Record*, 2467, 101-109.
22. Xiao, L. and **H. Lo**. 2015. Combined Route Choice and Adaptive Traffic Control in a Day-to-day Dynamical System. *Network and Spatial Economics*, 15(3), 697-717.
23. Xiao, L. and **H. Lo**. 2014. Adaptive Vehicle Navigation with En Route Stochastic Traffic Information. *IEEE Transactions on Intelligent Transportation Systems*, 15(5), 1900-1912.
24. Castillo, E., A. Calvino, M. Nogal and **H. Lo**. 2014. On the Probabilistic and Physical Consistency of Traffic Random Variables and Models. *Computer-Aided Civil and Infrastructure Engineering*, 29, 496-517.
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Working Papers

- Xiao, Yu, **H. Lo**, and L. Xiao. The Influence of Social Network on Departure Time Choices. *Transportation Research Part A*. In review.

Refereed Conference Papers

1. Zhang, S., **H. Lo**, and K. An. 2015. Substitute Bus Service Network Design after a Metro Failure. *Proceedings of the 6th International Symposium of Transportation Network Reliability*, Nara, Japan, August 2-3, 2015.
2. An, K. and **H. Lo**. 2015. Robust Transit Network Design with Stochastic Demand. *Proceedings of the 6th International Symposium of Transportation Network Reliability*, Nara, Japan, August 2-3, 2015.
3. Jiang, G., **H. Lo**. 2016. Congestion tolls for Travellers with Heterogeneous Risk Aversion under Uncertainty. *Proceedings of the Conference of 6th International Symposium on Dynamic Traffic Assignment*, Sydney, Australia, June 28-30, 2016
4. Zhang, S., **H. Lo**. 2016. Dynamic Self-equalizing Headway Control for Bus Operations. *Proceedings of the Conference of 6th International Symposium on Dynamic Traffic Assignment*, Sydney, Australia, June 28-30, 2016
5. Ng, K.F. **H. Lo**. 2015. Analyzing Public-Private Partnerships in Railway and Property Development via Real Options. *Proceedings of the Conference for Advanced Systems for Public Transport (CASPT)*, Rotterdam, the Netherlands, July 19-23, 2015.
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165. **Lo, H.** 1996. Transportation Management Centers in North America. *Proceedings of 1996 International Road Federation Asia-Pacific Regional Meeting*. Pp. III-75-84.
166. **Lo, H.** and M. Hickman. 1996. An Evaluation Taxonomy for Congestion Pricing. *Transportation Research Board 75th Annual Meeting*. Washington, DC. Paper number: 960753.
167. **Lo, H.**, B. Ran, and B. Hongola. 1996. A Multi-Class Dynamic Traffic Assignment Model: Formulation and Computational Experiences. *Transportation Research Board 75th Annual meeting*. Washington, DC. Paper number: 961108
168. Hickman, M., S. Weissenberger, and **H. Lo.** 1995. A Methodology for Systems Architecture Evaluation. *Proceedings of the Second World Congress on Intelligent Transport Systems '95 YOKOHAMA*. November 9-11.
169. **H. Lo**, S. Weissenberger, and M. Hickman. 1995. A Structured Approach for ITS Architecture Representation and Evaluation. *Proceedings of IEEE's 6th International Conference on Vehicular Navigation and Information Systems (VNIS)*, Seattle, Washington. Pp.442-449.
170. Weissenberger, S., **H. Lo**, and M. Hickman. 1995. A Methodology for Evaluating System Architectures. *Proceedings of IEEE's 6th International Conference on Vehicular Navigation and Information Systems (VNIS)*, Seattle, Washington, pp. 397-403.
171. **H. Lo**, M. Hickman, B. Ran, J. Larson, and S. Weissenberger. 1995. Route Guidance and Planning: Potential Benefits and Implications for Public-Private Partnerships. *Proceeding of ITS America Fifth Annual Conference*, Washington, DC. Volume 2, Pp. 767-775.
172. Ran, B. and **H. Lo.** 1995. Predictive Dynamic Traffic Modeling for Real-Time Incident Management. *World conference on Transport Research*. Sydney, Australia. July 16.
173. Hall, R., **H. Lo**, and E. Minge. 1994. Organization for IVHS: Computer Integrated Transportation. *Proceedings of the 1994 Korea - USA Symposium on IVHS & GIS-T*. June 7 - 10. Seoul, Korea. pp. 285-297.
174. **Lo, H.**, R. Hall, and J. Windover. 1994. Transportation Management Centers for IVHS: Survey of Existing Capabilities. *Proceedings of the IVHS America 1994 Annual Conference*, Atlanta, Georgia. Volume 2. Pp. 952-961.
175. **Lo, H.**, B. Ran, and R. Hall. 1994. An Adaptive Vehicle Routing for IVHS. *Proceedings of the IVHS America 1994 Annual Conference*. Atlanta, Georgia. Volume 1. Pp. 44-49.

176. Ran, B., **H. Lo**, B. Hongola, and S. Weissenberger. 1994. Predict Dynamic Travel Times under Incidents in Transportation Networks . *Proceedings of the IVHS America 1994 Annual Conference*. Atlanta, Georgia. Volume 2. Pp. 925-932.
177. **Lo, H.** and *M. McCord*. 1993. Dynamic Heuristics for Ocean Current Routing. *Transportation Research Board 72nd Annual Meeting*, Paper No. 930417, Washington, D.C., January, 1993.
178. **Lo, H.** and *M. McCord*. 1991. Estimated Fuel Savings From Current Routing on US Transoceanic Trades. *Transportation Research Board 70th Annual Meeting*, Washington, D.C.
179. **Lo, H.** and *M. McCord*. 1991. Altimetric Sensing of Currents: Spatial Averaging and Sampling Impacts on Ocean Routing. *Transportation Research Board 70th Annual Meeting*, Washington, D.C.
180. *McCord, M.* and **H. Lo**. 1989. Temporal Variability in Ocean Currents, *1989 ASPRS-ACSM Fall Convention: ASPRS Technical Papers, Am. Soc. of Photog. and Remote Sensing*. 83-90.

Research Reports and Non-referred Articles

Invited Articles

1. Report of the Task Force on Emergency Transport Coordination. June 2005.
2. **Lo, H.** 2005. The Central-Wanchai bypass is important for the long-term interest of Hong Kong. Mingpao, Apr 19-20. (in Chinese).
3. Wong, S.C., N.N. Sze, W.T. Hung, B.P.Y. Loo, and **H. Lo**. 2004. Government – University Collaboration in Assessing New Scheme at Autotoll Lanes. Chartered Institute of Logistics and Transport in Hong Kong (CILTHK) Newsletter issue 17, 7.
4. Wong S.C., Leung B.S.Y., Hung W.T. and **Lo H.** 2002 A qualitative assessment methodology for road safety policy strategies. *China Public Security Journal*, 60(3), 160. (In Chinese)
5. **Lo, H.** 2000. Pedestrian Crossings in Hong Kong. *Yellow Bus* (in Chinese).
6. **Lo, H.** 2000. Road Pricing 1, 2, 3. *Car and Driver Magazine*, April, pp. 36.
7. Weissenberger, S., J. Dahlgren, M. Hickman, and **H. Lo**. 1996. Research and Testing for ITS Deployment and Operations. *ITS Quarterly*, Vol. IV, No. 4, pp. 51-62.
8. **Lo, H.** And R. Hall. 1994. California Transportation Management Centers: Past, Present, and Future. *Intellimotion*. Vol. 4, No. 1, Pp. 2-13.
9. **Lo, H.** 1994. Traffic Simulation for National ITS Systems Architecture Evaluation. Traffic Models in Support of IVHS: Workshop Results. December 11-16, 1994. St. Petersburg Beach, Florida.
10. **Lo, H.** and B. Ran. 1993. Dimensions for Evaluating ATMIS. Proceedings of the North America Meeting of the Regional Science Association International. Houston, TX. Nov. 11-14.

Research Reports

1. Wong, S.C., C.O. Tong, K.I. Wong, W.H.K. Lam, **H. Lo**, H. Yang, H.P. Lo. 2002. Enhancement of the Trip Matrix Estimation Procedure in the CTS-3 Model. Final Report. Transport Department, HKSAR.
2. **Lo, H.** et al. 2000. Review of the Annual Traffic Census. Final Report, Transport Department, HKSAR.
3. **Lo, H.** 2000. Review of Traffic Detection Technology. Working Paper for the Transport Department. HKSAR.
4. Chan, C.S., **H. Lo**, and H. Yang. 1999. Final Report of the Citybus Screenline Surveys. Transport Department, HKSAR.
5. **Lo, H.** and Y.K. Tung. 1999. A Chance Constraint Network Capacity Model. Workshop on Network Reliability. Newcastle, UK.
6. **Lo, H.** 1998 Comments on the third comprehensive transport study (CTS-3). *Commentary Report submitted to Transport Department, HKSAR*, 2 pages, June 15, 1998.
7. Yang, H. and **H. Lo**, Tang, H.W., Choi, C.K. and Ng, L.L. 1997. Survey studies of public transport services in Kwun Tong District. *Research report submitted to Kwun Tong District Board, HKSAR*, March 15, 1997.

8. **Lo, H.**, W. Lin, L. Liao, E. Chang, and J. Tsao. 1996. A Comparison of Dynamic Traffic Models: Part II Results. PATH Published Working Paper. UCB-ITS-PWP-97-15. University of California, Berkeley, Institute of Transportation Studies.
9. **Lo, H.**, W. Lin, L. Liao, E. Chang, and J. Tsao. 1996. A Comparison of Dynamic Traffic Models: Part I Framework. PATH Published Research Report UCB-ITS-PRR-96-22. University of California, Berkeley, Institute of Transportation Studies.
10. Dahlgren, J., S. Weissenberger, M. Hickman, and **H. Lo**. 1996. Lessons from Case Studies of Advanced Transportation and Information Systems. PATH Published Working Paper UCB-ITS-PWP-96-9. University of California, Berkeley, Institute of Transportation Studies.
11. Weissenberger, S., J. Dahlgren, M. Hickman, and **H. Lo**. 1996. Research and Testing for ITS Deployment and Operation. PATH Published Working Paper UCB-ITS-PWP-96-8. University of California, Berkeley, Institute of Transportation Studies.
12. Lin, W. and **H. Lo**. 1996. Are the Objectives and Solutions of Dynamic User-Equilibrium Models Always Consistent? PATH Published Working Paper UCB-ITS-PWP-96-6. University of California, Berkeley, Institute of Transportation Studies.
13. **Lo, H.**, M. Hickman, and M. Walstad. 1996. Toward An Evaluation Framework for Road Pricing. PATH Published Research Report UCB-ITS-PRR-96-10. University of California, Berkeley, Institute of Transportation Studies.
14. **Lo, H.** and H. Rybinski. 1995. Organizing for ITS: Computer Integrated Transportation Phase II: Results For Emergency Operations. PATH Published Research Report UCB-ITS-PRR-96-11. University of California, Berkeley, Institute of Transportation Studies.
15. Rockwell Team (as part of the team). 1995. ITS Systems Architecture Deliverable Reports: Implementation Plan; Evaluation Plan; Traffic Simulation; Executive Summary. Reports for the FHWA under the ITS Systems Architecture Contract.
16. **Lo, H.**, et al. 1995. IVHS Systems Architecture Simulation Parameters. Report for the FHWA under the IVHS Systems Architecture Contract.
17. Hall, R., **H. Lo**, and E. Minge. 1994. Organizing for IVHS: Computer Integrated Transportation Phase I: Results For Arterial and Highway Transportation Management Centers. PATH Published Research Report UCB-ITS-PRR-94-24. University of California, Berkeley, Institute of Transportation Studies.
18. **Lo, H.**, et al. 1994. IVHS Systems Architecture Evaluation Plan. Report for the FHWA under the IVHS Systems Architecture Contract.
19. **Lo, H.**, et al. 1994. IVHS Systems Architecture Simulation Parameters. Report for the FHWA under the IVHS Systems Architecture Contract.
20. **Lo, H.**, R. Hall, and J. Windover. 1993. California Transportation Management Centers. Part 1: Assessment of Existing Capabilities. PATH Published Working Paper UCB-ITS-PWP-93-17. University of California, Berkeley, Institute of Transportation Studies.
21. **Lo, H.**, et al. 1992. An Evaluation Framework for IVHS. ORNL report for the FHWA.

PRESENTATIONS

Keynote Presentations

1. 16th Chinese Overseas Transportation Association (COTA) International Conference of Transportation Professionals. July 6-9, 2016, Shanghai, China, "A Framework for estimating traffic emissions: the development of Passenger Car Emission Unit (PCEU)"
2. NSFC-HKUST Joint Workshop, Hong Kong, June 21-23, 2016. "Smart Transportation: Potential and Research Questions"
3. The 3rd Symposium on Transportation Science and Computation (STSC-I), Guangxi, China, May 27-30, 2016, "Green Mixed Bus Fleet Management Strategy"
4. International Workshop on Resilient and Sustainable Transportation (I-RESTRA), Shanghai, China May 30-June 1, 2016. "Green Mixed Bus Fleet Management Strategy"
5. Korean Society of Transportation Annual Meeting (KST), Sejong City, Oct 15-16, 2015. "On Joint Railway and Property Development: Opportunities and Potential Pitfalls"
6. 13th China Uncertainty Theory Conference, Changchun, China, July 27-30, 2015. "Transit network design under demand uncertainty".

7. 15th Chinese Overseas Transportation Association (COTA) International Conference of Transportation Professionals. July 25-27, 2015, Beijing, China, "Robust Transit Network Design With Stochastic Demand".
8. The 1st Symposium on Transportation Science and Computation (STSC-I), ZhangJiaJie, Hunan, China, Aug 17-20, 2014. "Transit services planning under stochastic demand: a stochastic programming approach"
9. 14th Chinese Overseas Transportation Association (COTA) International Conference of Transportation Professionals. July 4-6, 2014, Changsha, China, "Optimal Housing Supply in a Bid-Rent Equilibrium Framework".
10. International Workshop on Sustainable Accessibility, Delft, The Netherlands, Nov 11-14, 2013. "On Joint Rail and Property Development: Opportunities and Potential Pitfalls"
11. 13th Chinese Overseas Transportation Association (COTA) International Conference of Transportation Professionals. August 13-16, Shenzhen, China, "On Rail and Property Development"
12. 12th International Conference on Advanced Systems for Public Transport (CASPT XII), Santiago, Chile, 23-27 July 2012, "On Joint Rail and Property Development: Opportunities and Potential Pitfalls"
13. International Workshop on Day-to-Day Dynamics for Transportation Network Analysis: Assignment, Control, Design, Salerno, Italy, European Union, 2-4 December, 2009. "Stability and Attraction Domains of Traffic Equilibria"
14. Intelligent Transportation Systems -- HK (ITS-HK) Annual Forum, Hong Kong, 24 September, 2008. "Traffic Incident Management: Opportunities and Challenges"
15. Access to Destinations Conference, Minneapolis, MN, USA, August 23-24, 2007. "On The Provision of Sustainable Public Transit Services: The Case of Hong Kong"
16. International Conference on Transport and Logistics Systems (INCOTALS), Colombo, Sri Lanka, August 21-22, 2006. "Capacity of Multi-lane Roundabout"
17. Annual Conference of the Korean Society of Transportation, Seoul, Korea, June 17-18, 2005. "Traffic Assignment: Static, Dynamic Formulations, and Extensions"
18. 1st Annual Seminar on Spatial Information Science and Technology (SIST), Hong Kong, May 30, 2005. "Passenger Route Guidance for Multi-modal Networks"
19. International Conference on Application of Information and Communication Technology in Transport Systems in a Third World Context (ICT2004). Moratuwa, Sri Lanka, August 5-8, 2004. "Passenger Route Guidance for Multi-modal Networks"
20. International Symposium on Transportation Science and Engineering for Global Chinese Scholars, Beijing, China, August 28-29, 2003. "Transport Modeling: Dynamic versus Static Paradigms"

Invited Plenary Session Presentations

1. Invited presentation, Annual Conference (2013) of the Hong Kong Institute of Surveyors, Sept 14, 2013, "On joint rail and property development"
2. Invited presentation, Behavior in Networks (BiNs) Workshop, Hong Kong, Dec 16, 2011. "Adaptive transport supply and demand management strategies under demand uncertainty"
3. Invited presentation, INFORMS Transportation Science & Logistics Workshop, Asilomar Conference Grounds, Pacific Grove, CA, June 26-29, 2011. "Impact of Transport Supply and Demand Management Strategies on Land Value"
4. Invited presentations, National Chiao Tung University and National Cheng Kung University, Taiwan, Jan 17-19, 2011. "Impact of Transport Supply and Demand Management Strategies on Land Value"
5. Professor Kitamura Memorial Symposium, Kyoto, Japan, April 24-25, 2010. "On the Provision of Sustainable Public Transit Services (PTS): The Case of Hong Kong"
6. Workshop on Methodologies for Sustainable Transport, Hokkaido, Japan, June 5, 2008. "Integrated Network Improvement and Tolling Schedule: Mixed Strategy versus Pure Demand Management"
7. The 2005 International Workshop on Urban Network Reliability, Beijing, Dec 19-20. "Doubly Uncertain Transportation Network: Degradable Capacity and Stochastic Demand".
8. Workshop on Theory and Practice of Transportation Science (WTPTS' 04), Shanghai, Dec18-19, 2004. "Non-equilibrium Dynamic Traffic Assignment".
9. International Workshop on Behavior in Networks, Seoul, Korea, July 22-23, 2004. "Transport Network

- Improvement and Tolling Strategies: Intergeneration Equity”
10. Croucher Advanced Study Institute (ASI) on Advanced Modeling for Transit Operations and Service Planning, Hong Kong, Jan 19-20, 2004. “A Passenger Route Guidance System for Multi-modal Transit Networks”
 11. Croucher Advanced Study Institute (ASI) on Advanced Modeling for Transit Operations and Service Planning, Hong Kong, Jan 19-20, 2004. “Ferry Service Network Design”
 12. Croucher Advanced Study Institute (ASI) on Advanced Modeling for Transit Operations and Service Planning, Hong Kong, Jan 19-20, 2004. “On Bus Tolling to Regulate the Urban Transit System”
 13. The Theory and Practice of Congestion Charging: An International Symposium. Imperial College London, UK, August 18-20, 2003. “Road Pricing Modeling: Dynamic versus Static Paradigms”
 14. Croucher Advanced Study Institute (ASI) on Advanced Modeling for Transit Operations and Service Planning, Hong Kong, 9-13 December 2002. “Modeling Competitive Multi-modal Transit Services”
 15. Croucher Advanced Study Institute (ASI) on Advanced Modeling for Transit Operations and Service Planning, Hong Kong, 9-13 December 2002. “2-Phase Transit Network Design in an Integrated Transit System”
 16. Washington DC Chinese Transportation Association (WCTA) Annual Conference, Washington DC. 7 January 2001. “Transportation in Hong Kong: Overview and Strategies for the Future” (Invited Honorary Speaker).
 17. Network Reliability Workshop, Ehime University, Matsuyama, Japan, August 5, 2000. “Capacity of Degradable Networks”
 18. Workshop on Intelligent Transport Systems, Hong Kong Polytechnic University, Hong Kong, 3 December 2001. “A Reliability-based Signal Control Approach”
 19. Workshop on Public Transportation, The University of Hong Kong, Hong Kong, 3 December 1999 “Transit Services in a Competitive Market”
 20. Network Reliability Workshop, University of Newcastle upon Tyne, UK, July 28, 1999 “A Chance Constraint Network Capacity Model”
 21. Traffic Models in Support of IVHS. St. Petersburg, Florida, December 11-16, 1994. “Traffic Simulation for National ITS Systems Architecture Evaluation”

Invited Presentations

1. National University of Singapore, Dec 21, 2007. “Traffic Assignment: Static, Dynamic Formulations, and Dynamical System Extensions”.
2. Harbin Institute of Technology, October 13-20, 2007. “Transportation Network Analysis”
3. Trinity College, University of Dublin, Ireland. 19 May 2006. “Doubly Uncertain Transportation Network: Degradable Capacity and Stochastic Demand”.
4. The Chinese University of Hong Kong, Department of Systems Engineering. 25 March 2004. “Dynamic Intersection Signal Control Optimization (DISCO)”
5. The Third North America China Overseas Transportation Association (NACOTA) China Conference, Northern Jiao Tong University, Beijing China 11-12 December 2003
6. University College London, UK, August 21, 2003. “Travel time budget in degradable transport networks”
7. Hong Kong Institution of Engineers (HKIE) Civil Division Seminar, July 21, 2003. “Road Safety: Some Perspectives”
8. University of Calgary, Canada, 10 January 2003. “Paradigms of Modeling Advance Transportation Information Systems”
9. Workshop on Public Transportation. Tongji University, Shanghai, 20 December, 2002. “Competitive Transit Services”
10. North America Meeting of the Regional Science Association International. Houston, Texas. Nov. 11-14, 1993. “Dimensions for Evaluating ATMIS”

Plenary Session Presentations

1. *21st International Symposium on Traffic and Transportation Theory (ISTTT)*. Kobe, Japan. August 5-7, 2015. Robust Transit Network Design with Stochastic Demand Considering Development Density. International Symposium of Traffic and Transportation Theory.

2. *20th International Symposium on Traffic and Transportation Theory (ISTTT)*. Delft, The Netherlands. July 17-19, 2013. On Joint Railway and Housing Development Strategy.
3. *20th International Symposium on Traffic and Transportation Theory (ISTTT)*. Delft, The Netherlands. July 17-19, 2013. Adaptive Vehicle Routing for Risk-Averse Travelers.
4. *15th International Symposium on Transportation and Traffic Theory (ISTTT)*, Adelaide, Australia. July 16-18, 2002. Trip Travel Time Reliability in Degradable Transport Networks.
5. *14th International Symposium on Transportation and Traffic Theory (ISTTT)*, Jerusalem, Israel. July 20-23, 1999. A Dynamic Traffic Assignment Formulation that encapsulates the Cell Transmission Model.

Other presentations

1. International Symposium on Transportation Network Reliability (INSTR' 2010), Minnesota, US, 22-23, July 2010. Punctuality-based Departure Time Scheduling under Stochastic Bottleneck Capacity.
2. 7th the Eastern Asia Society for Transportation Studies, Surabaya, Indonesia, 16-19, November 2009. Robust Quasi-Dynamic Traffic Signal Control.
3. 7th the Eastern Asia Society for Transportation Studies, Surabaya, Indonesia, 16-19, November 2009. Robust Quasi-Dynamic Traffic Signal Control. Transport Management and Land Value.
4. International Federation of Operational Research Society (IFORS), Johannesburg, South Africa, July 14-18, 2008. Impact of Transport Network Management on Location Cost over Time.
5. International Federation of Operational Research Society (IFORS), Johannesburg, South Africa, July 14-18, 2008. Equilibrium Trip Scheduling in Congested Traffic under Uncertain Delay.
6. 11th World Congress on Transport Research, Berkeley, US, June 24-28, 2007. Day-to-day traffic dynamics in pursuit of equilibrium.
7. 11th World Congress on Transport Research, Berkeley, US, June 24-28, 2007. Urban Development with Sustainable Rail Transit Services: Case Study in Hong Kong.
8. 11th World Congress on Transport Research, Berkeley, US, June 24-28, 2007. Optimal Transportation Supply and Demand Management over Time.
9. ASCE Application of Advanced Technology for Transportation Conference. Chicago, USA, 13-16 August 2006. Capacity of Multi-Lane Roundabout: Methodology Based on Lane Utilization.
10. ASCE Application of Advanced Technology for Transportation Conference. Chicago, USA, 13-16 August 2006. Discrete Choice Modeling with Partially Missing Information from a Revealed Preference Survey.
11. ASCE Application of Advanced Technology for Transportation Conference. Chicago, USA, 13-16 August 2006. Time-Dependent Transport Network Design and Urban Development.
12. ASCE Application of Advanced Technology for Transportation Conference. Chicago, USA, 13-16 August 2006. Urban Development with Sustainable Public Transit Services.
13. INFORMS International. Hong Kong. 25-28 June 2006. Planning for Sustainable Rail Transit Services.
14. 10th International Conference of Computer-Aided Scheduling of Public Transport (CASPT). Leeds, UK. June 21-24, 2006. Congested Multimodal Transit Network Design.
15. 10th International Conference of Computer-Aided Scheduling of Public Transport (CASPT). Leeds, UK. June 21-24, 2006. Urban Development with Sustainable Public Transit Services.
16. International Symposium of Dynamic Traffic Assignment. Leeds, UK. June 21-24, 2006. Stability Domains of Traffic Equilibrium: Directing Traffic System Evolution to Equilibrium.
17. International Symposium of Dynamic Traffic Assignment. Leeds, UK. June 21-24, 2006. Non-equilibrium and other alternatives to dynamic user equilibrium: what potential do they offer?
18. Annual Conference of the Transportation Research Board. Washington, DC. USA. Jan 23-26, 2006. Doubly Uncertain Transport Network: Degradable Link Capacity and Perception Variations in Traffic Conditions.
19. 9th International Conference on Computer-Aided Scheduling of Public Transport (CASPT 2004), San Diego, US, August 9-11, 2004 "Mixed-fleet Ferry Routing and Scheduling"
20. 9th International Conference on Computer-Aided Scheduling of Public Transport (CASPT 2004), San Diego, US, August 9-11, 2004 "Bus Tolling for Urban Transit System Management"

21. 8th International Conference of Applications of Advanced Technologies in Transportation Engineering, Beijing, May 26-28, 2004. "On Bus Tolling to Regulate the Urban Transit System"
22. The 50th Annual North American Meetings of the Regional Science Association International, Philadelphia, Pennsylvania, November 20-22, 2003. Planning transport network improvements over time.
23. 83th Annual Meeting of the Transportation Research Board, Washington, D.C., Jan 13-16, 2003. A Reliability-based Approach for Traffic Signal Control.
24. 83th Annual Meeting of the Transportation Research Board, Washington, D.C., Jan 13-16, 2003. The Effect of Traffic Information Pricing on a Dynamic Transportation Network.
25. The 3rd International Conference on Traffic and Transportation Systems, Guilin July 23-25, 2002. Dynamic Traffic Control System for Over-Saturated Traffic: Comparison of Adaptive Control Strategies.
26. The 7th Conference of Hong Kong Society for Transportation Studies, Hong Kong. December 14, 2002. Time-dependent Transport Network Design.
27. 15th International Symposium on Transportation and Traffic Theory Post Conference Workshop, Adelaide, Australia. July 19, 2002. Modeling Competitive Multi-modal Transit Services: A Nested Logit Approach.
28. International Symposium on Transportation network Reliability, July 30 – August 1, 2001, Kyoto, Japan. Reliability Analysis of Traffic Control Strategies.
29. 4th International IEEE Conference on Intelligent Transportation Systems. Oakland, CA, August 25-29, 2001. A New Dynamic Traffic Control System: Performance of Adaptive Control Strategies for Over-saturated Traffic.
30. 9th World Congress of Transport Research (WCTR), Seoul, Korea. July 22-27, 2001. A Cell-based Dynamic Traffic Assignment Model.
31. 9th World Congress of Transport Research (WCTR), Seoul, Korea. July 22-27, 2001. Performance of A New Cell-based Dynamic Traffic Control Approach for Over-saturated Traffic.
32. 9th World Congress of Transport Research (WCTR), Seoul, Korea. July 22-27, 2001. Network Transit Services in a Competitive Market with Heterogeneous Travelers.
33. 80th Transportation Research Board Annual Meeting, Washington, D.C., Jan 7-11, 2001, Network Design for Improving Trip Time Reliability.
34. The 5th Conference of Hong Kong Society for Transportation Studies, Hong Kong. December 2, 2000. Data Collection Methods for the Annual Traffic Census: Review and Analysis.
35. The 5th Conference of Hong Kong Society for Transportation Studies, Hong Kong. December 2, 2000. The Benefit of ATIS on Consumer Surplus: A Mixed-Equilibrium Model with Elastic Demand.
36. 79th Transportation Research Board Annual Meeting, Washington, D.C., Jan 9-13, 2000, Performance of A New Cell-based Dynamic Traffic Control Approach.
37. 79th Transportation Research Board Annual Meeting, Washington, D.C., Jan 9-13, 2000, Properties of a Cell-based Dynamic Traffic Assignment Model.
38. 79th Transportation Research Board Annual Meeting, Washington, D.C., Jan 9-13, 2000, Transit Services in a Competitive Market.
39. 78th Transportation Research Board Annual Meeting, Washington, D.C., Jan 10-14, 1999, Travel Time Minimization in Route Guidance with Elastic Market Penetration.
40. 77th Transportation Research Board Annual Meeting, Washington, D.C., Jan 11-15, 1998, "A Path-Based Traffic Assignment Formulation".
41. World Congress on Transport Research, Antwerp, Belgium. July 12-17, 1998, "Signal Control for Over-Saturated Traffic Conditions".
42. International Conference of Traffic and Transportation Studies. Beijing, PRC. July 27-29, 1998. A Traffic Signal Control Formulation Based on the Cell Transmission Model.
43. 3rd Conference of Hong Kong Society for Transportation Studies. Hong Kong. Applying the Cell Transmission Model to Signalized Street Networks in Hong Kong. Dec. 5, 98.
44. 8th International Federation of Automatic Control (IFAC/IFIP/IFORS) Symposium, Chania, Greece. Jun 16-18, 97. "Strategic Ship Routing Through Stochastic Ocean Currents"
45. 76th Transportation Research Board Annual Meeting, Washington, D.C., Jan 12-16, 1997, "Organizing for ITS: A Case Study for Emergency Operations for the San Francisco Bay Area".

46. 2nd Conference of Hong Kong Society for Transportation Studies. Hong Kong. Dec 6, 97. "A Unified Signal Control formulation".
47. 75th Transportation Research Board Annual Meeting. Washington, D.C., Jan 7-11, 1996, "A Multi-Class Dynamic Traffic Assignment Model: Formulation and Computational Experiences".
48. 75th Transportation Research Board Annual Meeting. Washington, D.C., Jan 7-11, 1996, "An Evaluation Taxonomy for Congestion Pricing".
49. Third Annual World Congress on Intelligent Transport Systems, Orlando, Florida, 1996. Are the Objective and Solutions of Dynamic User-Equilibrium Models Always Consistent?"
50. ORSA/TIMS Joint National Meeting, Washington, D.C., May 5-8, 1996, "Formulation of a Multi-Class Dynamic Traffic Assignment Model."
51. 13th International Symposium on Transportation and Traffic Theory, Lyon, France, July 24-26, 1996, "A Formulation and Solution Algorithm for a Multi-Class Dynamic Traffic Assignment Problem."
52. ITS America Fifth Annual Conference, Washington, D.C., April 14-17, 1996, "Modeling for ITS Evaluation". Panel Moderator.
53. World Car Conference. Riverside, CA. Jan 21-24, 1996. "Advanced Transportation Management Centers".
54. International Road Federation Asia-Pacific Regional Meeting, Taipei, Taiwan, Nov 18-21, 1996, "Transportation Management Centers in North America".
55. 1st Conference of Hong Kong Society for Transportation Studies. Hong Kong. Dec 6, 96. "A Note on the Solution and Formulation of Dynamic User-Equilibrium Model?"
56. Joint University of California - France Workshop. Richmond, California. October 24-25, 1995. "Traffic Management Centers in California".
57. University of California, Berkeley, PATH Program Annual Research Meeting. October 12-13, 1995. Richmond, California. "Transportation Management Centers: Results for Emergency Operations"
58. 74th Transportation Research Board Annual Meeting. Washington, D.C., Jan 22-28, 1995, "Organization for IVHS: Computer Integrated Transportation"
59. ITS America Fifth Annual Conference, Washington, D.C., March 13-17, 1995, "Route Guidance And Planning: Potential Benefits And Implications for Public-Private Partnerships"
60. IEEE's 6th International Conference on Vehicular Navigation and Information Systems (VNIS), Seattle, Washington, July, 1995, "A Structured Approach for ITS Architecture Representation and Evaluation"
61. The Federal Highways Administration (FHWA) Systems Architecture Program Final Review. 1994. Washington, DC, October 17-24. "Technical Performance and Modeling of the National Systems Architecture".
62. University of California, Berkeley, PATH Program Annual Research Meeting. 1994. Richmond, California, October 13-14. "National Systems Architecture".
63. IVHS America Forth Annual Conference, Atlanta, Georgia, April 17-20, 1994. "An Adaptive Vehicle Routing for IVHS".
64. 72nd Transportation Research Board Annual Meeting, Washington, D.C., Jan 10-14, 1993, "Dynamic Heuristics for Ocean Current Routing"
65. ORSA/TIMS Joint National Meeting, Orlando, Florida, April 26-29, 1992, "A Satellite-based Ocean Current Detection System for Improved Routing"
66. ORSA/TIMS Joint National Meeting, Orlando, Florida, April 26-29, 1992, "Dynamic Ship Routing through Stochastic Satellite-based Ocean Currents"
67. 70th Transportation Research Board Annual Meeting, Washington, D.C., Jan 13-17, 1991, "Estimated Fuel Savings From Current Routing on US Transoceanic Trades"
68. 70th Transportation Research Board Annual Meeting, Washington, D.C., Jan 13-17, 1991, "Altimetric Sensing of Currents: Spatial Averaging and Sampling Impacts on Ocean Routing"
69. 32nd Transportation Research Forum Annual Forum, Long Beach, CA, Oct. 10-12, 1990, "Temporal Variability in Ocean Currents"
70. 32nd Transportation Research Forum Annual Forum, Long Beach, CA, Oct. 10-12, 1990, "Estimated Fuel Savings From Current Routing on US Transoceanic Trades"

71. ORSA/TIMS Joint National Meeting, Las Vegas, May 7-9, 1990, "Value of Vessel Routing Through Ocean Currents"
72. American Society for Photogrammetry and Remote Sensing 1989 ASPRS-ASCM Fall Convention, Cleveland, OH, Sep 17-21, 1989, "Temporal Variability in Ocean Currents"

PROFESSIONAL ACTIVITIES

International

- Convener, International Scientific Committee, International Conference of Advanced Systems for Public Transportation(CASPT), 2012 -
- Founding Editor-in-Chief, *Transportmetrica B: Transport Dynamics*, 13 -
- Managing Editor, *Journal of Intelligent Transportation Systems (ITS)*, 07 -
- Editor, *Journal of Transport and Land use*, 07 -
- Senior Editor, *Journal of Public Transport: Planning and Operations*, 08 -
- Associate Editor, *Transportmetrica A: Transport Science*, 03 -
- Associate Editor, *Travel Behaviour and Society*, 13 -
- Editorial Board, *Transportation Research Part B*, 96 -
- Editorial Board, *ASCE Journal of Urban Planning and Development*, 02 -
- Editorial Board, *Journal of Advanced Transportation*, 02 -
- Editorial Board, *International Journal of Sustainable Transportation*, 05 -
- Editorial Board, *the Open Operational Research Journal*, 07 -
- Editorial Board, *the Open Transportation Journal*, 07 -
- Editorial Board, *China Intelligent Transport System*, 02 -
- Associate Editor, *Journal of Intelligent Transportation Systems (ITS)*, 03 - 07
- Guest Editor, Special Issues, *American Society of Civil Engineers (ASCE) Journal of Urban Planning and Development*.
- Guest Editor, Special Issues, *Journal of Intelligent Transportation Systems*.
- Member, *American Society of Civil Engineers*, 1999 -
- Member, Advanced Technology for Transportation Committee, *American Society of Civil Engineers*, 2001 - 2004
- Charter Member, Transportation and Development Institute, *American Society of Civil Engineers*, 2003 - present
- Member, Committee on Network Modeling (A1C05), *Transportation Research Board*, USA, 1997 - 2006
- Member, Committee on Transit Management and Performance (AP010), *Transportation Research Board*, USA, 2004 - 2014
- Conference Chair, 17th International Conference of the Hong Kong Society for Transportation Studies (HKSTS), Hong Kong, 15-17 December 2012.
- Conference Co-chair, International Symposium on Transportation Network Reliability (INSTR), Hong Kong, 18-19 December, 2012.
- Conference Chair, 11th International Conference of Advanced Systems for Public Transportation (CASPT), 2009.
- Conference Co-Chair, 18th International Symposium on Transportation and Traffic Theory (ISTTT), 2009.
- Member, International Program Committee, *International Conference of Advanced Systems for Public Transportation(CASPT) Series*, 2004 - present
- Member, International Scientific Committee, *International Symposium on Transportation Network Reliability Series*, 2004 -
- Member, IEEE Intelligent Transportation Systems Council, China Division. 2005 -
- Member, Scientific Committee of the First INFORMS TSL Conference, Chicago, July 26-29, 2017. Conference theme: Mobility 2020: Traffic, Transportation, and Logistics in a Cyber-Connected World.

- Member, Advisory Committee, 7th International Symposium Travel Demand Management, Tucson, Arizona, April 13-15, 2015.
- Member, International Program Committee, International Conference on Evacuation Modeling and Management (ICEM 2015), Tainan, Taiwan, June 1-3, 2015.
- Member, International Program Committee, International Conference on Evacuation Modeling and Management (ICEM 2015), Tainan, Taiwan, June 1-3, 2015.
- Member, Program Committee, 2nd International Conference on Computational Logistics, September 2011, in Hamburg, Germany.
- Member, Scientific Committee, 2nd International Conference on Models and Technologies for Intelligent Transportation Systems, Leuven, June 22-24, 2011.
- Member, International Academic Committee, International Conference on Transportation Information and Safety (ICTIS) Wuhan, China, June 30 – July 2, 2011
- Member, International Scientific Committee, *Triennial Symposium on Transportation Analysis (TRISTAN)*, San Pedro De Atacama, Chile, June 9-14, 2013.
- Member, International Scientific Committee, *Triennial Symposium on Transportation Analysis (TRISTAN)*, Tromso, Norway, June 20-25, 2010.
- Member, International Scientific Committee, *Triennial Symposium on Transportation Analysis (TRISTAN)*, Sri Lanka, 2007.
- Member of Advisory Board. Innovations in Pricing of Transportation Systems: Workshop and Conference, Florida, USA. May 13-14, 2010.
- Member, International Scientific Advisory Committee, *2nd International Symposium on Dynamic Traffic Assignment*, June 18–20, 2008, Belgium.
- Member, International Scientific Advisory Committee, *1st International Symposium on Dynamic Traffic Assignment*, June 21–23, 2006, Leeds, UK.
- Member, Advisory Board, Urban Transportation Network Reliability Assessment Techniques for Beijing. Beijing Municipal Commission of Science and Technology. 2005 – 2006.
- Session Organizer, *INFORMS International* (Institute of Operations Research and the Management Sciences), June 25-28, 2006, Hong Kong.
- Member, Program Committee, *The Second International Symposium on Road Safety (ISRS' 2006)*, 5 August 2006, Hong Kong.
- Member, International Program Committee, *2006 IEEE International Conference on Systems, Man, and Cybernetics (SMC 2006)*, 8 – 11 October 2006, Taiwan.
- Member, International Program Committee, *1st International Conference on Transportation & Logistics (T-LOG 2005)*, 27-29 July 2005, Singapore
- Member, Technical Committee, *8th Asia-Pacific Intelligent Transport Systems Forum* 10-12 July, 2006, Hong Kong.
- Session Organizer, *International Federation of Operational Research Society (IFORS) Conference*, 11 -15 July 2005, Hawaii.
- Member, International Program Committee, *IEEE 6th International Conference on Intelligent Transportation Systems*, October 12-15, 2003, Shanghai, China.
- Member, International Program Committee, *IEEE International Conference on Networking, Sensing and Control*, March 21-23, 2004, Taipei, Taiwan.
- Member, International Scientific Committee, *2nd International Symposium on Transportation Network Reliability*, August 20-24, 2004. Christchurch, New Zealand.
- Member, International Organizing Committee, 4th International Conference of Chinese Transportation Professional, Wu Han, China, June 25-29, 2004.
- Member, Conference Technical Committee, *3rd NACOTA China Conference*, Dec 10-12, 2003. Beijing.
- Review Panel, Special Studies: Traffic Flow Simulation Model for Freeway/Expressway; Control Strategy and System Design for Route Guidance, Algorithm and Framework for Incident Management System; Algorithm and Framework for The Road-user's Information System. Chiao Tong University, Taiwan. 2002.

- Member, International Scientific Committee, 7th ASCE International Conference of the Applications of Advanced Technology in Transportation, August 5-7, 02, Boston, MA.
- Member, International Scientific Committee, *International Symposium on Transportation network Reliability*, July 30 – August 1, 2001, Kyoto, Japan.
- Member, International Program Committee, *IEEE 5th Conference on Intelligent Transportation Systems (ITSC'02)*, September 3-6, 02, Singapore.
- Member, International Program Committee, *IEEE 4th Conference on Intelligent Transportation Systems (ITSC'01)*, August 25-29, 01. Oakland, CA, USA.
- Member, International Scientific Committee of the 2nd International Conference on Traffic and Transportation Systems, Beijing, 99.
- Organize and chair sessions for *International Federation of Operations Research, Transportation Research Board*, and *Intelligent Transportation Systems America Annual Meetings*.
- Referee for the following journals and publications: *Transportation Research, Transportation Science, Journal of Advanced Transportation, ASCE Journal of Transportation Engineering, ASCE Journal of Urban Planning and Development, ITS Journal, ICE Proceedings - Transport; Australian Research Record, Transportation Research Record and Intelligent Transportation Systems America Conference Proceedings, Hong Kong Institute of Engineers Transactions.*
- Assistant Editor, *Journal of Planning Literature*, the Ohio State University Press. 1987.

Local

- Convener, Railway Objections Hearing Panel, Hong Kong SAR Government, 1 Jan 2014 – 31 December 2015.
- Member, Transport Advisory Committee, Hong Kong SAR Government, 2010 – 2016
- Member, Congestion Task Force, Transport Advisory Committee, Hong Kong SAR Government, 2014 – 2015
- Appointed Member, Logistics and Transportation Discipline Advisory Panel, HKIE, 2015 -
- Member, Home Purchase Allowance Appeals Committee Panel, Hong Kong SAR Government, July 2014 – July 2017.
- Member, Expert Group (EG) of System Analysis & Design (SA&D) of the Traffic and Incident Management System, Transport Department, Hong Kong SAR Government, 2011 – 2013.
- Member of Appeal Tribunal Panel (Buildings), Hong Kong SAR Government, 1 Feb 2007 – 30 November 2015.
- Member of Railway Objections Hearing Panel, Hong Kong SAR Government, 1 Jan 2010 – 31 December 2011; 1 Jan 2012 – 31 December 2013.
- Council Member, *Chartered Institute of Logistics and Transport in Hong Kong (MCILT)*, 08 – 2012.
- Vice-President, *Hong Kong Society for Transportation Studies*, 07 -; Board Member, 1996 – present.
- Chair of the Scientific Committee of the Shanghai and Hong Kong Symposium on Science and Technology, Shanghai, Sept 26-28, 2013
- Task Force on Emergency Transport Coordination, Hong Kong SAR Government. 2005.
- Expert Panel, Sustainable Transport Planning and Central-Wan Chai Bypass, Hong Kong SAR Government. 2005
- Member of the Harbour-Front Enhancement Committee, Hong Kong SAR Government, 1 September 2007 – 31 August 2009.
- Hong Kong Zhuhai Macau Bridge Feasibility Study Expert Panel (representing Hong Kong), 2009.
- Member, Task Force on Updating of the Road Users' Code, Transport Department, HK SAR Government, 09 -
- Member, Research Committee of *Road Safety Council*, Transportation Department, Hong Kong SAR, 99- present
- Member, Education and Training Committee, *Chartered Institute of Logistics and Transport in Hong Kong* (2002 – 2006)
- Member, Transport and Logistics Policy Committee, *Chartered Institute of Logistics and Transport in Hong Kong* (2005 – 2008)

- Expert witness, the Harbor Enhancement Committee on the issue of Central Reclamation Phase III, Hong Kong SAR Government. 2004.
- Member of Visiting Team for the Hong Kong Institution of Engineers accreditation exercise to the Hong Kong Polytechnic University, 16-17 October 2014.
- Member of Accreditation Team for the University of Hong Kong MA in Transport Policy and Planning, MSc. in Urban Planning, MSc. (Eng) in Transportation Engineering, MSc (Eng) in Industrial Engineering and Logistics Management, BEng in Logistics Engineering and Supply Chain Management. Nov, 2012.
- Panel Member, Validation for the MSc/PgD Program in Transportation Engineering and Management, Hong Kong Polytechnic University. 2003.
- Panel of Referee, Research Grants Council, University Grants Committee, 2005 - present
- Panel Member, Internal Validation Process for these programs: Certificate in Business Logistics; Professional Diploma in Business Logistics; Bachelor of Commerce (Logistics and Marketing), School of Professional and Continuing Education, The University of Hong Kong. 2002.
- Member, Academic Committee, Professional Diploma in Logistics and Transport Management, School of Professional and Continuing Education, The University of Hong Kong. 2002 – 2004.
- Member, Organizing Committee, *International Symposium on Road Safety*. March 9, 2002, Hong Kong.
- Panel of Referees, Sir Edward Youde Memorial Fellowships and scholarship 2004-05.
- Panel of Referees, The 2nd, 3rd, 4th Student Essay Competition, *Chartered Institute of Logistics and Transport in Hong Kong*, 2004, 2005, 2006.
- School Manager, School Management Board of Emmanuel Primary School, Kowloon, 09 -
- Guest Writer for *Car and Driver*, 99-
- Chair, Organizing Committee for the 4th *Annual Conference of the Hong Kong Society for transportation Studies*, 99.
- Member, Organizing Committee for the *Annual Conferences of the Hong Kong Society for Transportation Studies*, 96 - present
- Science Advisor (Transportation), *Leisure and Cultural Services Department*, Hong Kong SAR, 00-03

UNIVERSITY SERVICES

- Member, Task Force on Expense Reimbursement Policy Review, 2016
- Member of Search Committee for Vice President for Research and Graduate Studies, 2016.
- Chair, Technology and Management (T&M) Program Search and Appointments Committee, 2010 – 2016
- Chair, Merit Salary Review Committee of the Dual Degree Program in Technology and Management, 2015-2016.
- Member, Senate Committee of University Core Education (CUCE), 2009 – 2011
- Member, University Admissions Sub-Committee (UAS), 2012 – 2015
- Member, Teaching Development Projects Funding Committee, 2011 - 2015
- Member, University Scholarship Committee, 1999 – 2000, 2013 – 2015
- Member, Faculty Steering Group of HKUST Connect, 09 -
- Convener of Common Core Course Review Panel (Arts and Humanities), 2010 - 2012
- Member, University Senate, 2010-2012, 2015 - present
- Member of the University 334 Steering Group, 2006 – 2010
- Working Group for the 4-Year Curriculum Development, 2009 – 2011
 - Convener for Sub- Group on the Co-curriculum and the Student Experience
- Ad-hoc Group for overseeing the development of the new University Registration System, 2009
- Elected Member, University Scholarship Committee, 2004 – 2006, 2011– 2013
- Member of the organizing committees: University Open Days, September, 96; Engineering Summer Camp, July 19-22, 97
- Engineering Undergraduate Studies Committee, 00 – 03

- Oversee and implement policies on undergraduate students in the School of Engineering.

SCHOOL OF ENGINEERING SERVICES

- Associate Dean, 2011 – 2015
- Chair, Engineering Education Quality Assurance Committee, 2013 - 2015
- Chair, Task Force for Hong Kong Institution of Engineers (HKIE) Accreditation, 2012-2014
- Chair, Internship and Industrial Training Committee, 2011 – 2015
- Chair, Mainland Recruitment Committee, 2011 – 2015
- Chair, Local Recruitment and Admissions Committee, 2011 - 2015
- Member, Engineering Undergraduate Studies and Student Affairs (EUSA) Committee, 2010 – 2013

DEPARTMENTAL SERVICES

- Coordinator of Merit Review Committee, 2011 – 2013
- Member of Substantiation and Promotion Committee, 07-09, 2011 – 2013
- Associate Head, 2009 – 2011.
- Coordinator of the HKIE accreditation Exercise, 2011
- Coordinator of the Planning Committee, 2009 - 2011
- Undergraduate Studies Coordinator, 2007 – 2009
- Coordinator of the Computing Committee, 2006 – 2008
- Member of the Academic Review Committee, 2007 - 2013
- Member of Curriculum Development/Teaching Learning Quality Committee, 2003- 2007
- Member of Undergraduate Studies Committee, 2006 – 2008
- Member of Promotional/Outreach Committee, 2005 – 2008
- Member of the Department 334 Committee, 2006 – 2011
- Member of the Faculty Search Committee for the area of construction management, 2007.
- Coordinator of Undergraduate Studies, 2001 – 2003
 - Oversee admission policies, exchange programs, direct entry admissions, final year projects selection, and other day-to-day operations on undergraduate studies.
- Founding Director, Self-financed MSc and Graduate Diploma Programs of Civil Infrastructural Engineering and Management, 2001 – 2003
 - Manage the finance; oversee admission policies, course curriculum design, and other day-to-day operations for the successful implementation of the programs.
- Director of the Computational Lab, 2001 - 2003
 - Manage the budget and the procurement process for computational equipment for faculty involved in extensive computational research.
- Member, Long-Term Department Planning Committee, 2004 – 2005
- Set up and coordinate the Intelligent Transportation Systems Lab (ITS-L), 1998
- Member of Student Affairs Committee, 1996 - 1997
- Member of Curriculum Development/Teaching Learning Quality Committee, 1996 - 2000
 - Coordinator of the Transportation Group
- Coordinator of Promotional Activities Committee, 1997 - 2000
 - Planned and implemented the outreach activities to secondary students, including Open Days, Mass Sessions, school visits, etc.
- Member, Post-Graduate Studies Committee, 1996 – 2000
 - Participated in setting up policies on PGS allocations, research students quality assurance, and admission.

AREAS OF TEACHING

- Network modeling
- Traffic Engineering

- Transportation Planning
- Transportation System Analysis and Operations
- Operations Research
- Public Transportation

COURSES TAUGHT

Undergraduate Courses

- CIVL1610 Elements of Civil Engineering Practice
- CIVL3610 Traffic and Transportation Engineering
- CIVL281 Modeling Systems with Uncertainties
- CIVL4620 Transportation System Operations

Postgraduate Courses

- CIVL5610 Transportation Network Analysis
- CIVL5630 Traffic Control Fundamentals
- CIEM 5630 Traffic Control Fundamentals and Practice
- MTM 505 Fundamentals of Transportation Systems
- MTM 508 Transportation Planning and Models
- EEMT 516 Transportation and Logistics Management
- MTMG 600N Transportation Economics and Planning

Continued Professional Development Courses

- Intelligent Transportation Systems (March 10-11, 2000) (with Prof Joe Sussman at MIT), enrollment: 25
- Public Transport: Operations and Service Planning: Advanced Course (Nov 23 and 25, 2000), (with Prof Avi Ceder at Technion in Israel), enrollment: 28
- Public Transport: Efficient Planning and Scheduling (April 18 and 19, 2002), (with Prof Avi Ceder at Technion in Israel), enrollment: 28

THESIS SUPERVISION

Under My Supervision

Current

1. Xiao, Yu (2012 – present) PhD Program (recipient of the Hong Kong PhD Fellowship)
2. Cen, Xuekai (2012 – present) PhD Program
3. Li, Lu (2012 – present) PhD Program
4. Ng, Ka Fai, (2012- present) PhD program (recipient of HKUST Academic Achievement Medal)
5. Zhang, Shu Yang, (2013 – present) PhD Program (recipient of the Hong Kong PhD Fellowship)
6. Zhang, Gege (2014 – present) PhD Program (recipient of the Hong Kong PhD Fellowship)
7. Li, Lubing (2015 – present) PhD Program
8. Wang, Shuling, PhD Program
9. Patwary, Ashraf, PhD Program (recipient of Hong Kong PhD Fellowship)
10. Lee Enoch, PhD Program
11. Huai, Yue, PhD Program

Graduated

12. An, Kun (PhD, 2014),, “Transit Network Design with Stochastic Demand” (First academic position: Postdoctoral fellow, University of Illinois Urbana Champaign; Lecturer in Transport Engineering, Monash University)

13. Xiao, Lin (PhD, 2013), „Traffic Management through Adaptive Control Methods” (First academic position: Postdoctoral fellow, University of Minnesota)
14. Ma, Xiaosu (PhD, 2012), "Long-term planning strategies for an integrated land use and transport system" (First academic position: Postdoctoral fellow, Singapore/MIT Alliance for Research and Technology (SMART) Centre)
15. Zhu, Feng (MPhil, 2011), “Delay and Emissions Modeling and Optimal Signal Control Strategies for Signalized Intersections”.
16. Tsang, F. K. (MPhil, 2011), “Analyses of Transportation Emission Management Schemes for Hong Kong”
17. Siu, Barbara (PhD, 2009), “Reliability-based Transportation Network Studies” (First academic position: Lecturer, Department of Civil and Structural Engineering, The Hong Kong Polytechnic University)
18. Tang, S (PhD, 2009). “On the Viability of Mass Transit Development.”
19. Wang, Zhiwei (PhD, 2008). “Transit system planning considering urban development and differential service types”. (First academic position: Assistant Professor, School of Civil and Environmental Engineering, Nanyang Technological University, Singapore)
20. Bie, Jing (Ph.D., 2008). “The Dynamical System Approach to Traffic Assignment: The Attainability of Equilibrium and Its Application to Traffic System Management” (First academic position: Assistant Professor, Department of Civil Engineering, University of Twente, The Netherlands)
21. Wan, Q.K. (Ph.D., 2006). “Transit Services Planning with Congestion” (First academic position: Lecturer, Civil Engineering, Napier University, Edinburgh, UK)
22. Szeto, W.Y. (Ph.D, 2003). “Dynamic Traffic Assignment: Formulations, Properties, and Extensions” (First academic position: Lecturer, Trinity College, Dublin, Ireland; Currently, Assistant Professor, Department of Civil Engineering, The University of Hong Kong)
23. Luo, X.W. (MPhil, 2004) “Transport Network with Degradable Links and Stochastic Demands”
24. Chow, H.F. (M.Phil, 2002). “Adaptive Traffic Control System: A Study of Strategy, Computation Speed, and Effects of Prediction Errors”
25. Wan, Q.K.H. (M.Phil, 2002). “Optimal Integrated Transit Network Design”
26. Lai, M.F. (M.Phil, 2002). “Optimal Assignment of Ferry Fleet for Waterborne Transportation”
27. Yip, C.W. (M.Phil, 2001). “Multi-modal Transit Network with Heterogeneous User Classes”
28. Chan, Y.C. (M.Phil, 2000). “Dynamic Traffic Control for Congested Traffic”
29. Szeto, W. Y. (M.Phil, 2000). “Cell-based Dynamic Traffic Assignment Models: Formulations and Properties”
30. Chang, E. (M.Phil, 1998). “Adapting a Cell-based Signal Control Method in Hong Kong”

Served as External Examiner

- Afzal Ahmed. PhD. 2015. The University of Leeds. “Integration of Real-time Traffic State Estimation and Dynamic Traffic Assignment with Applications to Advanced Traveler Information Systems”.
- Jiankai Wang. PhD. 2014. The Hong Kong Polytechnic University. “Self-adaptive Vision-based Re-identification System for Dynamic Freeway Travel Time Estimation.”
- Yu Jiang. PhD. 2014. University of Hong Kong. “Reliability-based Transit Assignment: Formulations, Solution Methods, and Network Design Applications.”
- Xin Pei. PhD. 2011. University of Hong Kong. “Bayesian Approach to Road Safety Analysis”.
- Lin Hong Zhi. PhD. 2009. City University of Hong Kong. “Activity-based Travel Demand Modeling System in Suburban Area”.
- Hao Li. PhD. 2009. Delft University of Technology. The Netherlands. “Robustness Analysis for Road Networks: A Framework with Combined DTA Models”.
- Zebin Zhao. PhD. 2007. School of Management. Harbin Institute of Technology, China. “Study on Road Congestion Pricing Revenue Redistribution Model and Simulation”.

- Wenqin Chen. MPhil. 2007. Department of Civil Engineering. University of Hong Kong. “An Analytical Shock-fitting Approach to the Solution of the Lighthill-Whitham-Richards Traffic Flow Model”
- Shoujie Li. Ph.D. 2007. Department of Civil and Environmental Engineering. Nanyang Technological University, Singapore. “Optimal Coordination for an Integrated Multimodal and Multi-Operator Transit System”.
- Kelvin Yim. M.Phil. 2005. Department of Civil Engineering. University of Hong Kong. “Reliability-based land use and transportation optimization model”.
- Y.W. Tang. M.Phil. 2004. Department of Management Sciences. City University of Hong Kong. “Application of Conditional Demand Analysis in Origin-Destination (OD) Matrix Estimation Using Traffic Counts and Zonal Characteristics”.
- Y.F. Tang. M.Phil. 2002. Department of Civil and Structural Engineering. Hong Kong Polytechnic University. “Short-term Traffic Forecasting using Hong Kong Annual Traffic Census”

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