

CURRICULUM VITAE

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POST: Emeritus Professor (Civil and Transportation Engineering)

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EDUCATION

Ph.D.	(Transportation Engineering) University of Newcastle upon Tyne, U.K.	1992
M.Sc.	(Civil Engineering) University of Calgary, Canada	1980
B.Sc.	(Civil Engineering) University of Calgary, Canada	1978

PROFESSIONAL QUALIFICATION

Member:	<u>Since</u>
The American Society of Civil Engineers, MASCE	1999
The Hong Kong Institution of Engineers, MHKIE	1986
The Institution of Civil Engineers, MICE	1985
The Institute of Transportation Engineers, MITE	1984
The Chartered Institute of Logistics & Transport, MCILT	1982

Fellow:	
The Hong Kong Institution of Engineers, FHKIE	1999
The Chartered Institution of Highways and Transportation, FCIHT	1992

SPECIALISATION Transport planning and traffic forecasting, ITS technology and development, smart surveillance and traffic simulation, public transport and pedestrian studies.

SUMMARY OF EXPERIENCE

Ir Professor William H.K. Lam is currently an Emeritus Professor of Civil and Transportation Engineering in the Department of Civil and Environmental Engineering (CEE) at The Hong Kong Polytechnic University (PolyU), China. He returned to Hong Kong in 1980 and worked as a traffic engineer in industry for new town development projects. Ir Prof. Lam joined the PolyU as lecturer in 1983 and has been promoted to Chair Professor in 2003. He has been appointed as the Associate Head of CEE in 2007 and then the Head of CEE from July 2013 to June 2019. Ir

Prof. Lam was retired in January 2023 after his 40-year service in PolyU.

PROFESSIONAL EXPERIENCE

Jan 2023 – present	The Hong Kong Polytechnic University Emeritus Professor (Civil & Transportation Engineering)
1983 – Jan 2023	The Hong Kong Polytechnic University Lecturer, Senior Lecturer, Associate Professor, Professor and then Chair Professor of Civil & Transportation Engineering
1980 – 1983	Maunsell Consultants Asia Ltd., Hong Kong Traffic Engineer
1978 – 1980	University of Calgary, Alberta, Canada Research Assistant

PART A – ACADEMIC LEADERSHIP

During Ir Prof. Lam’s headship for CEE of the PolyU from July 2013 to June 2019, the Department has made remarkable achievements in both teaching and research aspects, particularly with the additional student quota of 46 and 30 per year for the 2-year senior year Civil Engineering and the new 4-year Sustainable Structural and Fire Engineering degree programmes, respectively. It is very helpful to the resources of the Department so that the self-finance BEng degree programme and higher diploma in Civil Engineering could be phased out without any financial implication to CEE. In the 6-year period (2013 – 2019) while Prof. Lam was the Department Head, CEE have started its success in securing major research grants for three Collaborative Research Fund (CRF), four Research Impact Fund (RIF), and two Theme-based Research Scheme (TRS) projects.

During the 6-year period under Ir Prof. Lam’s headship, the average departmental income from consultancy projects is falling in the range of over HK\$15M per year. The research grants, the number of PhD students and research staff have also significantly grown as shown in the following table. Under his leadership, PolyU was ranked **the 10th and 15th best institution worldwide and the 1st in Hong Kong** in the Civil and Structural Engineering discipline in QS Ranking 2018 and 2019. The Department has made significant improvements when comparing with the QS Ranking of 50th in 2012.

Year	Research Grant (HK\$M)	No. of PhD Students	No. of Research Staff
2012/13	24.9	119	90
2018/19	118.2	156	145
Growth	+375%	+31%	+61%

PART B – RESEARCH & SCHOLARLY ACTIVITIES

Ir Prof. Lam has been actively involved in research and scholarly activities. Particularly in the last two decades (2000-2019), he has successfully received **20** earmarked research grants from the Hong Kong Research Grants Council (RGC). In January 2019, Ir Prof. Lam has been awarded from RGC with **HK\$6.34 million** from the RGC’s **Research Impact Fund (RIF)** for development of “Reliability-based Intelligent Transportation Systems in Urban Road Network

with Uncertainty” (3.5 years from 30 June 2019 to 29 December 2022). In October 2021, he has been awarded with about HK\$2 million from **Smart Traffic Fund** of the Hong Kong Transport Department for development of Network-wide Traffic Speed-Flow Estimator. He has also made contributions to the **collaborative research with various universities** such as University of Calgary and University of Toronto in Canada, University of Texas at Austin in USA, Technical University of Denmark in Denmark, EPFL in Switzerland and several universities in Asia in the past decades.

Ir Prof. Lam is the author of over 360 SCI journal papers and book chapters, about 250 conference papers and over 80 consultancy reports. His current h-index is 73 with the total number of over 16,500 citations (as of October 2026). He was ranked within the top 50 in the world in terms of the research publications in the ISI Web of Science categories (Transportation Science Technology OR Transportation) (<https://www.webofscience.com/wos/woscc/summary/ea2ce9df-089d-4326-b8d8-f200ae70d725-22a2b223/relevance/1>). Ir Prof. Lam was selected as one of the highly cited researchers in the field of Civil Engineering by ShanghaiRanking Consultancy and Elsevier in 2016, a standalone global discipline-specific list that was later integrated into institutional rankings. His enduring academic prominence was further demonstrated when he was listed among the **World's Top 2% Scientists** released by Stanford University every year since its inaugural edition in 2019 through to 2026, consistently featured in both the "Career-long" and "Single-year" impact categories. The ranking identifies the top scholars in their own areas of specialty and whose publications are most frequently cited by other authors around the world. Notably, Ir Prof. Lam was ranked among the **top 50 in the field of logistics and transportation** in both 2020 and 2021.

Ir Prof. Lam is the Founding President of the Hong Kong Society for Transportation Studies (HKSTS) (www.hksts.org). He was also the first one from China to be the member of the International Advisory Committee of the most prestige international Symposium in the field of transportation and traffic theory (ISTTT). He has been the **Convenor of the International Advisory Committee of the ISTTT** (<https://isttt23.sciencesconf.org/resource/page/id/6>) from July 2015 to July 2022 and from July 2025 to July 2026. He has also been one of the members of the Board of the Eastern Asia Society for Transportation Studies (<http://eastst.info/organization/#BOARD>) from 1996 to 2019. Currently, Ir Prof. Lam is an honorary member of the International Advisory Committee of the ISTTT and a member of the International Scientific Committee of the International Symposium for Transport Network Resilience (INSTR) (www.instr.org).

Ir Prof. Lam is also the founding Editor-in-Chief of the SCI Journal – Transportmetrica and is now one of the Editors-in-Chief of Transportmetrica A: Transport Science (<https://www.tandfonline.com/toc/ttra21/current>). He was the Associate Editor, Editor and then Co-Editor-in-Chief of the SCI Journal of Advanced Transportation (<https://onlinelibrary.wiley.com/journal/20423195>) from 1996 to March 2017.

Ir Prof. Lam has been appointed as Honorary Professor at the Institute for Transport and Logistics Studies, The University of Sydney from 2015 to 2023. He was also appointed as Chang Jiang Scholars Chair Professor at the Beijing Jiaotong University for the period from 2010 to 2016. In 2011, Ir Prof. Lam and his colleagues from Beijing Jiaotong University, Beihang University, and the Hong Kong University of Science and Technology were granted with the State Natural Science Award, the highest honour in China.

Ir Prof. Lam also made contribution to the local professional community and participated in international scholarly activities so as to promote the reputation of the Department in the field of

Transportation Engineering. He has been a **council member** of the Hong Kong Institution of Engineers (HKIE) (www.hkie.org.hk) from 2018 to 2020. He had been also the Chairman of Logistics and Transportation Division of the HKIE in 2014-2015, the Chairman of HKIE Logistics and Transportation Discipline Advisory Panel in 2012-2015, the Chairman of HKIE Civil Division in 2002-2003 and the Chairman of HKIE Civil Discipline Advisory Panel in 2008-2011. In 2015, Ir Prof. Lam was appointed as the member of the Road Safety Research Committee of Road Safety Council and the member of the Planning Sub-Committee of the Land and Development Advisory Committee of the Hong Kong SAR Government. In 2019, he was invited to be one of the ex-official members of Steering Committee on Research and Development for Transport Department of the Hong Kong SAR Government.

B(i) RESEARCH PROJECTS (Principal Investigator)

1. Network-wide Traffic Speed-Flow Estimator – a 1-year research project sponsored by **Smart Traffic Fund**, Transport Department of the Hong Kong SAR Government, (HK\$1.976 million), Date of award – October 2021.
2. Intelligent Transportation Systems for Smart Mobility – a 2-year research project sponsored by the Hong Kong Polytechnic University for Hong Kong Scholars Program (HK\$0.378 million), Date of award – August 2021.
3. Reliable Path Finding in Public Transit Network – a 1-year research project sponsored by the Hong Kong Polytechnic University for Joint Supervision Scheme with the Chinese Mainland, Taiwan and Macao Universities - Other Chinese Mainland, Taiwan and Macao Universities (HK\$0.181 million), Date of award – March 2021.
4. Sustainable Control Strategies for Urban Freeways under Uncertainty: A Data-driven Approach – a 1-year research project sponsored by Research Institute for Sustainable Urban Development for Joint PhD Student Supervision Scheme (HK\$0.171 million), Date of award – October 2019.
5. Reliability-based Intelligent Transportation Systems in Urban Road Network with Uncertainty – a 3-year research project sponsored by the Hong Kong Research Grant Council (RGC) for competitive bidding for allocation from their **Research Impact Fund** (HK\$6.34 million), Date of award – January 2019.
6. Maximization of Accessibility in Multi-modal Public Transit Network with Uncertainty – a 3-year research project sponsored by the Hong Kong Research Grant Council (RGC) for competitive bidding for allocation from their Earmarked Grant (HK\$0.582 million), Date of award – June 2017.
7. Optimization of Different Sensor Locations for Estimation of Origin-Destination Traffic Demand and Travel Times in Road Network with Uncertainty – a 3-year research project sponsored by the Hong Kong Research Grant Council (RGC) for competitive bidding for allocation from their Earmarked Grant (HK\$0.676 million), Date of award – June 2016.
8. Advanced Technologies for Development of a Door-to-Door and Low-Carbon Multi-Modal Route Guidance System – a 3-year research project sponsored by the Faculty of Construction and Environment of the Hong Kong Polytechnic University (Research Funding for Collaborative Project with Beijing Municipal Government via Beijing University of Technology) (HK\$1.0 million), Date of award – May 2016.
9. Real-time Traffic Monitoring System for Smart Campus Development – a 4-year research project sponsored by the Research Committee of the Hong Kong Polytechnic University (HK\$2.36 million), Date of award – July 2015.
10. Automatic Calibration of Activity-based Travel Demand Model using Re-identified MAC Addresses – a 3-year research project sponsored by the Hong Kong Research Grant Council (RGC) for competitive bidding for allocation from their Earmarked Grant (HK\$0.696 million), Date of award – June 2015.

11. Monitoring Real-Time Network Performance and Traffic Emissions using ITS Technologies – a 2-year research project sponsored by the Research Institute for Sustainable Urban Development (RISUD) of the Hong Kong Polytechnic University (HK\$0.2 million), Date of award – May 2015.
12. Design of Low-carbon Emission Bus System for Congested High Density Cities – a 3-year research project sponsored by the Research Institute for Sustainable Urban Development (RISUD) of the Hong Kong Polytechnic University and Technical University of Denmark (DTU) (HK\$0.31 million), Date of award – March 2015.
13. Advanced Models for Assessing the Impacts of Traffic Control and Surveillance on Road Network Degradability under Adverse Weather and Incident Conditions – a 3-year research project sponsored by the Hong Kong Research Grant Council (RGC) for competitive bidding for allocation from their Earmarked Grant (HK\$0.5 million), Date of award – June 2014.
14. Network degradability analysis for performance evaluation of Sustainable Transport Development – a 3-year research project sponsored by the Research Institute for Sustainable Urban Development (RISUD) of the Hong Kong Polytechnic University (HK\$0.2 million), Date of award – September 2013.
15. Optimal Pedestrian Facility Design under Adverse Weather Conditions – a 3-year research project sponsored by the Hong Kong Research Grant Council (RGC) for competitive bidding for allocation from their Earmarked Grant (HK\$0.645 million), Date of award – July 2013.
16. A Network Equilibrium Approach for Simultaneous Estimation of Activity and Travel Choices in Multi-Modal Transportation Network – a 3-year research project sponsored by the Hong Kong Research Grant Council (RGC) for competitive bidding for allocation from their Earmarked Grant (HK\$0.645 million), Date of award – July 2013.
17. Estimation of Urban Road Network Condition using Sparse Traffic Data with Partial Vehicle Identification Technology – a 3-year research project sponsored by the Hong Kong Research Grant Council (RGC) for competitive bidding for allocation from their Earmarked Grant (HK\$0.7 million), Date of award – July 2012.
18. Covariance Analysis for Estimating Stochastic Origin-destination Demands from Classified Traffic Counts with Day-to-day and Seasonal Effects – a 3-year research project sponsored by the Hong Kong Research Grant Council (RGC) for competitive bidding for allocation from their Earmarked Grant (HK\$0.5 million), Date of award – July 2012.
19. Covariance Analysis for Estimating Stochastic Origin-destination Demands from Classified Traffic Counts with Day-to-day and Seasonal Effects – a 2-year research project sponsored by the Research Committee of the Hong Kong Polytechnic University (HK\$0.105 million), Date of award – February 2012.
20. Journey Time Estimator for Traffic Surveillance and Incident Detection under Network Uncertainties – a 3-year research project sponsored by the Hong Kong Research Grant Council (RGC) for competitive bidding for allocation from their Earmarked Grant (HK\$1.123 million), Date of award – July 2010.
21. Advanced Models for Sustainable Multimodal Transit Systems – an Activity-based Approach in Networks with Uncertainties and Climate Changes – a 3-year research project sponsored by the Hong Kong Research Grant Council (RGC) for competitive bidding for allocation from their Earmarked Grant (HK\$0.552 million), Date of award – June 2009.
22. Transport Network Reliability Analysis – a 3-year research project sponsored by the Research Committee of the Hong Kong Polytechnic University (HK\$0.7 million), Date of award – July 2009.

23. Strategic Modelling for Sustainable Urban Transportation and Land Use Development - a 3-year research project sponsored by the Research Committee of the Hong Kong Polytechnic University (HK\$ 0.6 million), Date of award – July 2009.
24. An Activity-based Approach for Estimation of Multi-modal Travel Demand Using Annual Traffic Census Data – a 2-year research project sponsored by the Research Committee of Hong Kong Polytechnic University (HK\$0.15 million), Date of award – July 2008. The same project was identified as fundable but not funded by the Hong Kong Research Grant Council (RGC) for competitive bidding for allocation from their General Research Fund.
25. Development of an Intelligent Transportation Systems (ITS) Testbed for Real-time Navigation and Cross-boundary Container Logistics Management - a 2-year research project sponsored by the Research Committee of the Hong Kong Polytechnic University for the “Development of Niche Areas” (HK\$ 3.0 million), Date of award – February 2008.
26. Advanced Models for Assessing the Effects of Non-recurrent Congestion on Road Network Reliability – a 3-year research project sponsored by the Hong Kong Research Grant Council (RGC) for competitive bidding for allocation from their Earmarked Grant (HK\$0.678 million), Date of award – July 2007.
27. Advanced Models for Optimizing the Number of Transit Operators and the Design of Transit Networks – a 3-year research project sponsored by the Hong Kong Research Grant Council (RGC) for competitive bidding for allocation from their Earmarked Grant (HK\$0.638 million), Date of award – July 2006.
28. Real-time Traffic Incident Management System for Hong Kong – a 3-year research project sponsored by the Research Committee of Hong Kong Polytechnic University for New Chair Professor Scheme (HK\$1.0 million), Date of award – July 2005.
29. Modelling and Evaluating Joint Implementation of Integrated Transit Pricing and Personal Public Transport Information Systems – a 2-year research project sponsored by the Hong Kong Research Grant Council (RGC) for competitive bidding for allocation from their Earmarked Grant (HK\$0.359 million), Date of award – July 2005.
30. Modelling Combined Activity and Travel Choices of Pedestrians in Congested Urban Areas – a 2-year research project sponsored by the Hong Kong Research Grant Council (RGC) for competitive bidding for allocation from their Earmarked Grant (HK\$0.338 million), Date of award – July 2004.
31. Advanced Modelling Techniques for Applications of Intelligent Transportation Systems – a 3-year research project sponsored by the Research Committee of Hong Kong Polytechnic University for Young Professor Scheme (HK\$0.5 million), Date of award – February 2004.
32. A Combined Model for Congested Transport Networks with Motorized and Non-Motorized Modes – a 2-year research project sponsored by the Hong Kong Research Grant Council (RGC) for competitive bidding for allocation from their Earmarked Grant (HK\$0.377 million), Date of award – July 2003.
33. A Stochastic Passenger Flow Simulator for Congested Transit Networks with Public Transport Information System – a 3-year research project sponsored by the Hong Kong Research Grant Council (RGC) for competitive bidding for allocation from their Earmarked Grant (HK\$0.611 million), Date of award – July 2002.
34. Integration of GIS with Annual Traffic Census for Transport Information System Applications - a 2-year R&D project sponsored by the Research Committee of Hong Kong Polytechnic University for allocation from their Special Grant (HK\$1.825 million), Date of award – September 2001.
35. Transport Network Reliability Analysis – a 3-year research project sponsored by the Hong Kong Research Grant Council (RGC) for competitive bidding for NSFC/RGC

- Joint Research Grant (HK\$0.795 million), Date of award – December 2001. This is a joint project with the School of Management, Beijing University of Aeronautics and Astronautics (BUAA).
36. Dynamic Parking Information and Charges for Balancing Parking Demand and Supply – a 2-year research project sponsored by the Hong Kong Research Grant Council (RGC) for competitive bidding for allocation from their Earmarked Grant (HK\$0.417 million), Date of award – July 2001.
 37. The reallocation of road space to different modes of transport – a 3-year research project sponsored by the Hong Kong Research Grant Council (RGC) for competitive bidding for allocation from their Earmarked Grant (HK\$0.796 million), Date of award – July 2000.
 38. Modeling pedestrian movements in congested urban areas – a 2-year research project sponsored by the Hong Kong Research Grant Council (RGC) for competitive bidding for allocation from their Earmarked Grant (HK\$0.405 million), Date of award – July 1999.
 39. A land-use optimization model under network supply constraints – a research project sponsored by the Research Committee of Hong Kong Polytechnic University (1999-2000).
 40. A time-dependent stochastic traffic assignment model – a PhD research project funded by the Research Committee of Hong Kong Polytechnic University and completed in 2001 (PhD graduate: Mr. Chan King-sun, Eric).
 41. An optimal car-ownership model for Hong Kong – a PhD research project funded by the Research Committee of Hong Kong Polytechnic University and completed in 2000 (PhD graduate: Miss Tam Mei-lam, Karen).
 42. Pedestrian flow characteristics in the Hong Kong Mass Transit Railway Systems – an MPhil research project funded by the Research Committee of Hong Kong Polytechnic University and completed in 1998. (MPhil graduate: Mr. Cheung Chung-yu).
 43. Evaluation of count location selection methods for the estimation of O-D matrices from traffic counts – a part-time MPhil research project funded by the Research Committee of Hong Kong Polytechnic University and completed in 1998. (MPhil graduate: Mr. Yim Ka-nin, Paul).
 44. Joint project on road network reliability – a 3-year research project sponsored by the Institute of Systems Science Research, Japan (HK\$0.2 million), Date of award – March 1998. This is a joint project with Kyoto University (Japan) and University of Newcastle upon Tyne (U.K.).
 45. Dynamic driver information system for the expressway network in Hong Kong – a 2-year research project sponsored by the University Grant Council for competitive bidding for allocation from their Earmarked Grant (HK\$0.534 million), Date of award – October 1998. The same project was identified as fundable but not funded in 1997 but has been sponsored by the Research Committee of Hong Kong Polytechnic University (1997-98) with a lump sum of HK\$0.239 million. This is a joint project with University of South Australia.
 46. Estimation of car-ownership demand in Hong Kong – a research project sponsored by the Research Committee of Hong Kong Polytechnic University (1997-98).
 47. Probability distribution of statistical quantities for opposing vehicles and opposed turns at fixed-time signalized intersections – a PhD research project funded by the Research Committee of Hong Kong Polytechnic University and completed in 1996 (PhD graduate: Mr. Mung King-shing, Gregory).
 48. Optimization of road pricing policies – an MPhil research project funded by the UPGC grant and completed in 1996 (MPhil graduate: Mr. Ye Rui-jin).
 49. A computer-aided transport network design tool with applications to the Pearl River Delta – a 2-year research project sponsored by the University Grant Council for

- competitive bidding for allocation from their Earmarked Grant (HK\$0.282 million), Date of award – October 1995.
50. Transit assignment for congested public transport systems – a 3-year research project sponsored by the University Grant Council for competitive bidding for allocation from their Earmarked Grant (HK\$0.7 million), Date of award – October 1994. This is a joint project with The Hong Kong University of Science and Technology.
 51. A statistical approach to the estimation of origin-destination matrix from traffic counts and survey data – a 2-year research project sponsored by the UPGC for competitive bidding for allocation from their Earmarked Grant (HK\$0.437 million), Date of award – October 1992. This is a joint project with the City Polytechnic of Hong Kong.
 52. Co-ordination of transport pricing policies – a 3-year research project sponsored by the UPGC for competitive bidding for allocation from their Earmarked Grant (HK\$0.535 million), Date of award – October 1990.
 53. Development of elastic demand model for Hong Kong transport planning – a research project sponsored by the Research Committee of Hong Kong Polytechnic (1989-91).
 54. Signalization of isolated intersections and the area traffic control under the Chinese conditions – a joint research project collaborated with Traffic Engineering Institute of Shenzhen, China (1989-91).
 55. Estimation of origin-destination matrix from traffic counts – a joint research project collaborated with Traffic Engineering Institute of Shenzhen, China (1986-88).
 56. Review of modal split models – a research project sponsored by Lands and Works Branch of Hong Kong Government (1984-86). The developed model has been used for strategic planning in Hong Kong and incorporated into the Land Use & Transport Optimization (LUTO) model.
 57. Review of trip generation models – a research project sponsored by Lands and Works Branch of Hong Kong Government (1983-84). The developed model has been used for strategic planning in Hong Kong and incorporated into the Land Use & Transport Optimization (LUTO) model.

B(ii) CONFERENCE GRANTS

1. Croucher Foundation's Grant (2008) for Organizing the 18th International Symposium on Transportation and Traffic Theory (www.isttt18.org), 16-18 July 2009, Hong Kong.
2. Croucher Foundation's Grant (2002) for Organizing the Advanced Study Institute on "Advanced Modeling for Transit Operations and Service Planning"

B(iii) EDITORSHIP OF BOOKS & CONFERENCE PROCEEDINGS

1. Liao, F.X., Lam, W.H.K., Li, Z.C. (2022) Special issue on advances in supernetwork modelling and mobility pattern analysis, *Transportmetrica A: Transport Science*, 18 (2), 189-191.
2. Nuzzolo, A., Lam, W.H.K. (2016) *Modelling Intelligent Multi-modal Transit Systems*, CRC Press.
3. Lam, W.H.K., Huang, H.J., Timmermans, H. (2016) Special issue on activity-travel behavior analysis and multi-state supernetwork modeling, *Transportmetrica A: Transport Science*, 12 (7), 569-571.
4. Chen, B.Y., Lam, W.H.K. (2016) Special issue on smart transportation: theory and practice, *Journal of Advanced Transportation*, 50 (2), 141-144.
5. Lam, W.H.K. (2015) Special issue on emerging technologies for intelligent transportation, *Journal of Advanced Transportation*, 49 (2), 171-173.
6. Lam, W.H.K., Lo, H.K., Wong, S.C. (2014) Special issue on advances in equilibrium

- models for analyzing transportation network reliability, *Transportation Research Part B*, 66, 1-3.
7. Lam, W.H.K., Lo, H.K., Wong, S.C. (2013) Special issue on transportation network reliability, *Transportmetrica B: Transport Dynamics*, 1 (3), 171-173.
 8. Lam, W.H.K. (2013) Special issue on traffic control and management – recent methodological advances, *Journal of Advanced Transportation*, 47 (1), 1-3.
 9. Lam, W.H.K., Sumalee, A. (2013) Special issue on modeling for sustainable urban transportation, *International Journal of Sustainable Transportation*, 7 (3), 167-169.
 10. Lam, W.H.K., Lo, H.K., Wong, S.C. (2012) Proceedings of the 5th International Symposium on Transportation Network Reliability (INSTR2012), 18-19 December 2012, Hong Kong.
 11. Lam, W.H.K., Wong, S.C., Lo, H.K. (2011) *Transportation Research Part C*, 19 (2)
 12. Lo, H.K., Lam, W.H.K., Wong, S.C., Leung, J.M.Y. (2011) Special issue on advanced systems for public transport scheduling and network design, *Public Transport*, 3(1).
 13. Leclercq, L., Lam, W.H.K., Peeta, S. (2011) *Computer-Aided Civil and Infrastructure Engineering*, 26 (4).
 14. Sumalee, A., Lam, W.H.K., Ho, W.H., Siu, B (2010) Proceedings of the 15th International Conference on Hong Kong Society for Transportation Studies (HKSTS), 11-14 December 2010, Hong Kong.
 15. Lo, H.K., Lam, W.H.K., Wong, S.C., Leung, J.M.Y. (2010) Special issue on advanced public transport system scheduling and control, *Public Transport*, 2 (3).
 16. Lo, H.K., Lam, W.H.K., Wong, S.C., Leung, J.M.Y. (2010) Special issue on advanced methods for public transport system management, *Public Transport*, 2 (1-2).
 17. Lo, H.K., Lam, W.H.K., Wong, S.C., Leung, J.M.Y. (2009) Proceedings and CD-ROM of the 11th International Conference on Advanced Systems for Public Transport (CASPT09), 20-22 July 2009, Hong Kong.
 18. Lam, W.H.K., Wong, S.C., Lo, H.K. (2009) Companion Volume of the 18th International Symposium on Transportation and Traffic Theory 2009 (ISTTT18), 16-18 July 2009, Hong Kong.
 19. Lam, W.H.K., Wong, S.C., Lo, H.K. (2009) *Transportation and Traffic Theory 2009: Golden Jubilee*, Proceedings of the 18th International Symposium on Transportation and Traffic Theory 2009 (ISTTT18), 16-18 July 2009, Hong Kong, Springer, New York, USA, 738 pages.
 20. Lo, H.K., Lam, W.H.K. (2008) Special issue on travel choice behavior modeling, *Transportmetrica*, 4 (2), 79-81.
 21. Wong, S.C., Lam, W.H.K. (2006) Special issue on public transportation systems in Asia, *Transportation*, 33 (2), 111-113.
 22. Lee, S., Lam, W.H.K., Asakura, Y. (2006) Special issue on behavior in networks (II), *Journal of Advanced Transportation*, 40 (2), 119-121.
 23. Lam, W.H.K., Yan, J. (2005) Proceedings of the 10th International Conference of Hong Kong Society for Transportation Studies, 10 December 2005, Hong Kong.
 24. Lee, S., Lam, W.H.K., Asakura, Y. (2005) Special issue on behavior in networks, *Journal of Advanced Transportation*, 39 (1), 1-3.
 25. Schmocker, J.D., Bell, M.G.H., Lam, W.H.K. (2004) Special issue on importance of public transport, *Journal of Advanced Transportation*, 38 (1), 1-4.
 26. Lam, W.H.K., Huang, H.J. (2003) Special issue: mathematical modelling for transport, *Journal of Mathematical Modelling and Algorithms*, 2 (4), 295-298.
 27. Lam, W.H.K., Bell, M.G.H. (2003) *Advanced Modeling for Transit Operations and Service Planning*, Elsevier Science Ltd., Oxford, U.K., 345 pages.
 28. Lam, W.H.K. (2002) Special issue: intelligent transportation systems, *Journal of Advanced Transportation*, 36 (3), 225-229.

29. Lam, W.H.K., Wong, S.C. (2001) Special issue: public transportation (II) - potential applications in practice, *Journal of Advanced Transportation*, 35 (3), 197-198.
30. Wong, S.C., Lam, W.H.K. (2001) Special issue on public transportation (I) - recent methodological advances, *Journal of Advanced Transportation*, 35 (2), 93-96.
31. Lam, W.H.K. (1999) Special issue: network reliability and transport modelling, *Journal of Advanced Transportation*, 33 (2), 121-123.
32. Lam, W.H.K. (1997) Proceedings of the 2nd Conference of Hong Kong Society for Transportation Studies, 6 December 1997, The Hong Kong Polytechnic University.
33. Lam, W.H.K. (1997) Engineering Civil Infrastructure for the Future, Proceedings of Symposium organized by the Civil Division of Hong Kong Institution of Engineers (HKIE) for the HKIE's 50th Anniversary on 24 October 1997.
34. Lam, W.H.K. (1997) Special issue: transportation in Asia-Pacific countries - Volume 2, *Journal of Advanced Transportation*, 31 (1), 1-4.
35. Lam, W.H.K. (1996) Special issue: transportation in Asia-Pacific countries - Volume 1, *Journal of Advanced Transportation*, 30 (2), 1-4.

B(iv) JOURNAL PAPERS OR REFEREED ARTICLES IN TECHNICAL BOOKS

1. Liu, S. J., Lam, W.H.K., Fu, H., Liao, Q., Wu, J., Ma, W. (2026). Network-wide spatiotemporal speed and flow estimation under recurrent and non-recurrent traffic conditions: A physics-informed computational graph framework. *Transportation Research Part C: Emerging Technologies*, 191, 105832.
2. Chen, J., Zhu, N., Fu, H., Lam, W.H.K. (2026). Drone pre-positioning for cardiac arrest response: A feature-driven distributionally robust chance constrained programming. *Transportation Research Part B: Methodological*, 211, 103525.
3. Shao, F., Jin, H., Ma, A., Shao, H., Wang, D., Lam, W.H.K. (2026). Characterizing latent driving behavior heterogeneity from AVI data: Vehicle color as an exploratory observable cue. *Transport Policy*, 188, 104370.
4. Shi, Y., Long, K., Lam, W.H.K., Li, X., Ma, W. (2026). Iterative physics-enhanced residual learning for context-aware traffic assignment under biased inputs. *Transportation Research Part C: Emerging Technologies*, 183, 105498.
5. Huang, Y., Xiong, J., Hsu, S. C., Sumalee, A., Lam, W.H.K., Zhong, R. (2026). A comparison of the accumulation-based, trip-based and time delay macroscopic fundamental diagram models. *Transportmetrica A: Transport Science*, 22(1), 2338258.
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B(v) CONFERENCE PAPERS / PRESENTATION

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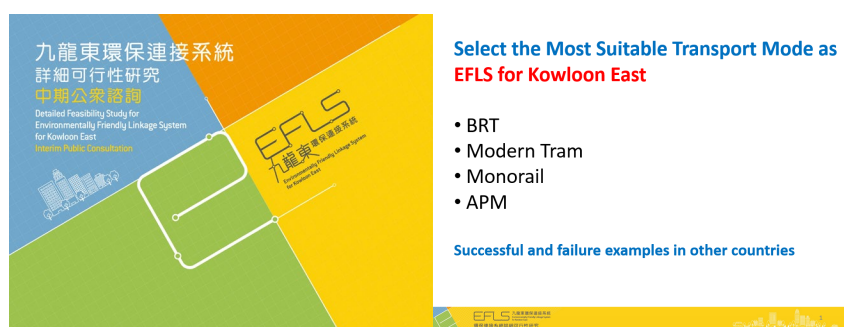
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 241. Lam, W.H.K., Wirasinghe, S.C. (1996) An alternative airport terminal with automated people movers system for Hong Kong new airport terminal, Proceedings of Seminar K for the 24th European Transport Forum, London, England, 2-6 September 1996.
 242. Lam, W.H.K., Bell, M.G.H., Iida, Y. (1996) A time-dependent multi-class path flow estimator, Proceedings of the 13th International Symposium on Transportation and

- Traffic Theory, Lyon, France, 24-26 July 1996.
243. Lam, W.H.K., Morrall, J.F., Ho, H. (1995) Pedestrian flow characteristics in Hong Kong, Paper presented in the 74th Annual Meeting of Transportation Research Board, Washington, D.C., 22-28 January 1995, 950154.
 244. Lam, W.H.K., Lai, W.P. (1994) A time-dependent traffic noise model for Hong Kong, Proceedings of the POLMET '94, Beijing, China, 14-17 November 1994, 627-635.
 245. Lam, W.H.K. (1994) Saturation flows and passenger car equivalents at signalized intersections in Hong Kong, Proceedings of the 2nd International Symposium on Highway Capacity, Sydney, Australia, 9-13 August 1994, 385-394.
 246. Lam, W.H.K., Poon, A.C.K., Ye, R. (1994) Co-ordination of road pricing policies, Proceedings of the 7th International Conference on Travel Behaviour, Santiago, Chile, 13-16 June 1994, 307-318.
 247. Lam, W.H.K. (1994) Pedestrian movements in Hong Kong: a review, Proceedings of the International Symposium on Non-motorized Transportation, Beijing, China, 23-25 May 1994, 393-398.
 248. Lam, W.H.K., Poon, A.C.K., Ye, R. (1993) Integration of road pricing policies in the land use and transport planning, Proceedings of the INTA - New Town Experience Joint Conference at Hong Kong, 26-30 September 1993.
 249. Lam, W.H.K., Huang, H. (1993) CDAM and its application to Kowloon transportation network in Hong Kong, Proceedings of the 2nd International Conference on System Science and Systems Engineering, Beijing, China, 24-27 August 1993, 903-906.
 250. Lam, W.H.K., Bell, M.G.H. and et al (1993) Stochastic user equilibrium assignment and iterative balancing, Proceedings of the 12th International Symposium on Transportation and Traffic Theory at Berkeley, California, 21-23 July 1993.
 251. Lam, W.H.K., Bell, M.G.H. (1992) Efficient data collection strategies for the estimation of O-D matrices from traffic counts, Proceedings of the 6th World Conference on Transport Research, 29 June - 3 July 1992 in Lyon, France.
 252. Lam, W.H.K., Huang, H. (1992) Urban transportation planning and traffic management in China, Paper presented in the 71st Annual Meeting of Transportation Research Board, Washington, D.C., 12-16 January 1992, 920990.
 253. Lam, W.H.K., Kam, A.W.K. (1991) Transport demand management policies in Hong Kong, Paper presented in the 61st ITE Annual Meeting held on 22-25 September 1991 in Milwaukee, Wisconsin, organized by the Institute of Transportation Engineers, United States, Compendium of Technical Papers, 248-256.
 254. Lam, W.H.K., Bell, M.G.H., Catling, I. (1991) The improvement of road network efficiency by the application of information technology, Proceedings of the 4th International Conference on Computing in Civil and Building Engineering at Tokyo, Japan, 29-31 July 1991, organized by both Japan Society of Civil Engineers and Architectural Institute of Japan, 305.
 255. Lam, W.H.K., Leung, T.Y.C. (1991) Transport strategy for Hong Kong, Proceeding of the 1991 National Transport Conference at Brisbane, 1-3 May 1991, organized by the Institution of Engineers, Australia, 166-171.
 256. Lam, W.H.K., Clark, M.C. (1990) Airport groundside access requirements, Proceedings of the Conference on 'Airport into the 21st Century', organized by the Hong Kong Institution of Engineers, February 1990, 80-83.
 257. Lam, W.H.K., Lo, H.P., Chung, C.M. (1990) A unified framework for estimating origin-destination matrices from roadside interviews, Proceedings of the 3rd International Conference: Survey Methods in Transportation, Washington D.C., January 1990.
 258. Lam, W.H.K. (1988) Development of probabilistic modal split model using both observed and synthetic generalized costs, Proceedings of the 14th Australian Road Research Board Conference, Canberra, 14 (3), September 1988, 13-20.

PART C – CONSULTANCY ACTIVITIES

Ir Prof. William H.K. Lam has over 40-year professional experience and has worked extensively in Hong Kong and China for research and consultancy projects on traffic engineering, transport planning and modeling, ranging from strategic transport planning for the Territory to traffic impact assessments for local areas (including economic and environmental evaluation). Ir Prof. Lam has been involved in various transport planning and infrastructure projects. In December 2015, he was invited by Ove Arup & Partners Hong Kong Limited to serve as an **Independent Technical Advisor for providing advisory services on the Detailed Feasibility Study for Environmentally Friendly Linkage System (EFLS) for Kowloon East** (<http://www.ktd.gov.hk/efls/>). In April 2014, Ir Prof. Lam was invited by Hong Kong Construction Association to conduct a green transport study for new development areas in Hong Kong.



In December 2012, Ir Prof. Lam was invited by Highways Department of the Hong Kong SAR Government to serve as an **Independent Expert for providing review services in respect of traffic justification for the need of the Central Kowloon Route (CKR)**. He has also been asked to comment on the minimum extent of temporary reclamation in relation to the length of the preferred alignment of CKR being the shortest and complying with the relevant highway design standards.



In May 2011, Ir Prof. Lam was invited by the Drainage Projects Division, Drainage Services Department of the Hong Kong SAR Government to serve as an Independent Assessor for review of the Traffic Impact Assessment (TIA) report for Happy Valley Underground Stormwater Storage Scheme. From December 2008 to December 2012, Ir Prof. Lam has been served as **one of the Expert Panel members for giving advices and comments on the proposals for the North East New Territories – New Development Areas** and participated in the public consultation forums.



Ir Prof. Lam has been served as the Chairman of the Briefing Sessions with the North Point Residents on 14 and 15 April 2007 regarding the issue on the Eastern Ventilation Building for the Central-Wan Chai Bypass and Island Eastern Corridor Link.

Ir Prof. Lam has also been invited by the United Nations Centre for Regional Development (<http://www.uncrd.or.jp/>) to serve as an expert and moderator for facilitating the Asian Mayors' Policy Dialogue for the Promotion of Environmentally Sustainable Transport (EST) in Cities from 23 to 24 April 2007 in Kyoto, Japan and for the 3rd EST Forum from 17 to 19 March 2008 in Singapore.

In 2005, Ir Prof. Lam has been appointed by the Hong Kong SAR Government to **chair an Expert Panel for giving comments/recommendations on Sustainable Transport Planning and Central-Wan Chai Bypass**. The Panel has held one open forum and five working group meetings from 24 August to 30 September, 2005 to consolidate public views and members' recommendations on the captioned issues. A final report has been published in October 2005 and is available in the following website:

http://www.harbourfront.org.hk/eng/content_page/doc/report_of_the_expert_panel.pdf

Ir Prof. Lam is also a pioneer for development of Intelligent Transportation Systems (ITS) in Hong Kong. In the past 2 decades, with partnership of Autotoll Limited (www.autotoll.com.hk), he has developed novel solution algorithms for multiple ITS projects for the Transport Department of the Hong Kong SAR Government. The developed ITS applications include:

- Speed Map Panels (SMP), which was launched in January 2013, display the estimated traffic speeds on various road segments by using different colours to represent different congestion levels together with the journey time estimates on the selected paths in the New Territories of Hong Kong.
- Journey Time Indication System (JTIS), which was launched to the public at the end of May 2010, provides the average journey times of selected paths once every two minutes via the on-gantry indicators in Hong Kong Island and Kowloon Peninsula.
- Hong Kong eRouting System (formerly named as "Driving Route Search Service (DRSS)"), which was launched in mid-2010, provides the latest traffic information to road users to search for the driving route by different criteria (such as the fastest, shortest or cheapest route). This system was integrated with the Hong Kong eMobility (www.hkemobility.gov.hk) since late 2020.
- Internet Speed Map, which was launched in January 2007, shows the traffic speeds in three colours for representing the levels of congestion of current traffic condition. The speed map is integrated with the Hong Kong eMobility (www.hkemobility.gov.hk) since August 2018.

His solution algorithm has addressed the challenges of ITS development in Hong Kong, at a time when commercial solutions are not adequately up to the challenge. Based on limited available traffic data from multiple sensor systems, real-time traffic information can be estimated accurately (https://www.polyu.edu.hk/kteo/polyu-innovations/list/4-smart-cities-and-information-technology/4_eee_01_0819/). In 2018, Ir Prof. Lam has participated in the project of Installation of Traffic Detectors on Selected Strategic Roads for the Transport Department of the Hong Kong SAR Government. In this project, over 500 traffic detectors will be installed on the strategic routes for collection of traffic data on real-time basis.



Journey Time Indicator at Gascoigne Road,
Kowloon



Speed Map Panel at Tuen Mun Road, Tuen
Mun

C(i) CONSULTANCY & CONTRACT RESEARCH PROJECTS

1. Provision of Road Management and Road Safety Course for RMO (Road Management Office) to Police Driving & Traffic Training Centre, Hong Kong Police Force, 2026.
2. Provision of Road Management and Road Safety Course for RMO (Road Management Office) to Police Driving & Traffic Training Centre, Hong Kong Police Force, 2025.
3. Provision of Road Management and Road Safety Course for RMO (Road Management Office) to Police Driving & Traffic Training Centre, Hong Kong Police Force, 2024.
4. Provision of Road Management and Road Safety Course for RMO (Road Management Office) to Police Driving & Traffic Training Centre, Hong Kong Police Force, 2023.
5. **Independent Review of the Cogent and Convincing Material (Transportation Engineering Aspect) for the Temporary Reclamation Required for the Hong Kong Island – Kau Yi Chau Road Link** (Agreement No. SLO 15/2022), Civil Engineering and Development Department of the Hong Kong SAR Government, Sustainable Lantau Office, 2022-2026.
6. Provision of Road Management and Road Safety Course for RMO (Road Management Office) to Police Driving & Traffic Training Centre, Hong Kong Police Force, 2022.
7. Provision of Road Management and Road Safety Course for RMO (Road Management Office) to Police Driving & Traffic Training Centre, Hong Kong Police Force, 2021.
8. Kwun Tong Road Traffic Study, Kwun Tong District Council, 2020-2021 (with Master Alliance Consulting Limited).
9. Provision of Road Management and Road Safety Course for RMO (Road Management Office) to Police Driving & Traffic Training Centre, Hong Kong Police Force, 2019.

10. Installation of Traffic Detectors on Selected Strategic Roads (Contract No. TD57/2017), Transport Department of the Hong Kong SAR Government, 2018-2021 (with Autotoll Limited).
11. Provision of Road Management and Road Safety Course for RMO (Road Management Office) to Police Driving & Traffic Training Centre, Hong Kong Police Force, 2018.
12. Provision of Road Management and Road Safety Course for RMO (Road Management Office) to Police Driving & Traffic Training Centre, Hong Kong Police Force, 2017.
13. Transportation Systems in Hong Kong under the Leaders Programme in Urban Transport Planning and Management, The Centre of Excellence in Urban Transport, Centre for Environmental Planning and Technology University, India, 2017.
14. Update of Journey Time Indication System for Central-Wanchai Bypass Commissioning, Electrical and Mechanical Services Department of the Hong Kong SAR Government, 2017-2019. (With Autotoll Limited).
15. Maintenance Service for Journey Time Indication System and Speed Map Panels System, Autotoll Limited, 2016-2021.
16. **Detailed Feasibility Study for Environmental Friendly Linkage System for Kowloon East - Feasibility Study**, Ove Arup & Partners Hong Kong Limited, 2016-2017.
17. Green Transport Study for a New Development Area in Hong Kong, The Hong Kong Construction Association Limited, 2014-2015.
18. Research Study on Expansion of Road Casualty Information System (Agreement No. TD167/2012), Transport Department of the Hong Kong SAR Government, 2013-2014.
19. **Independent Review of the Cogent and Convincing Material Report (Transportation Engineering Aspect) for Central Kowloon Route Project**, Highways Department of the Hong Kong SAR Government, 2012-2013.
20. Enhancement Services for Hong Kong eRouting System (Formerly named as Driving Route Search Service (DRSS) System) (Quotation No. 1223EM12S), Electrical and Mechanical Services Department of the Hong Kong SAR Government, 2012-2014. (With Autotoll Limited).
21. Speed Map Panels in the New Territories (Contract No. TD26/2009), Transport Department of the Hong Kong SAR Government, 2010-2013. (With Autotoll Limited).
22. Revamp of Internet Speed Map, Electrical and Mechanical Services Department of the Hong Kong SAR Government, 2010-2011. (With Autotoll Limited).
23. Expansion of Journey Time Indication System to Kowloon (JTISK) (Contract no. 1037/EM/2006), Electrical and Mechanical Services Department of the Hong Kong SAR Government, 2008-2010. (With Autotoll Limited).
24. Driving Route Search Service (DRSS) (Ref. no. EMSD/SDU/IT/147), Electrical and Mechanical Services Department of the Hong Kong SAR Government, 2008-2010. (With Autotoll Limited).
25. Development of Real-time Traveler Information System (RTIS) for Hong Kong – Phase 1 Development, Autotoll Limited, 2006-2007.
26. Reconstructing and Enhancement of the Third Comprehensive Transport Study Model – Feasibility Study (Agreement No. CE 1/2004 (TT)), Transport Department of the Hong Kong SAR Government, 2005-2006. (With Ove Arup Ltd.).
27. Footbridge Across Kai Cheung Road Near Proposed EMSD Headquarters (Contract No. HY/2003/09), Highways Department of the Hong Kong SAR Government, 2004-2005. (With Unistress Building Construction Ltd., Hong Kong).
28. Mechanism to Determine Sensitivity of Western Harbour Crossing's Traffic – To find out the optimal toll level of Western Harbour Tunnel (WHT) under different scenarios

- so as to enable the WHT Company to consider a toll adjustment with a view to maximizing the Company's revenue. Western Harbour Tunnel Company Limited, 2004.
29. Research Study on the Benefits of Pedestrian Flashing Green Countdown Display, Transport Department of the Hong Kong SAR Government, 2002-2003. (With Department of Management Science, City University of Hong Kong).
 30. The Travel Characteristics Survey 2002 Study, Transport Department of the Hong Kong SAR Government, 2002-2003. (With Wilbur Smith Associates Limited and Ove Arup Ltd.).
 31. Pedestrian Demand Assessment of the Proposed Elevated Walkway in Wan Chai (Ref. No. TD2/2002), Transport Department of the Hong Kong SAR Government, 2002. (With Maunsell Consultants Limited).
 32. Enhancement of the Trip Matrix Estimation Procedure in the CTS-3 Model, Transport Department of the Hong Kong SAR Government, 2002. (In association with Department of Civil Engineering, The University of Hong Kong; Department of Civil Engineering, The Hong Kong University of Science & Technology; and Department of Management Sciences, City University of Hong Kong).
 33. Hong Kong Transport Department - Review of Annual Traffic Census (ATC), 1999-2000. (1) To review the methodology used in the ATC; (2) To identify areas of improvements or formulation of a new methodology; and (3) To develop new computer programme for ATC.
 34. Hyder Consulting Limited – A Consultancy Study on the Provision, Management and Operation of Traffic Control and Surveillance Facilities for the Strategic Road Network (Agreement No. CE 73/96) for Hong Kong Transport Department, 1999.
 35. Wilbur Smith Associates - **The Third Comprehensive Transport Study**, 1998-1999.
 36. C K M Asia Ltd. – KMB Screenline Survey 1998, prepared for Hong Kong Transport Department.
 37. Hong Kong Transport Department - Evaluation of Park and Ride (PnR) in Sheung Shui - Design of stated preference questionnaires and undertaking interview surveys for both PnR and non-PnR users; 1998.
 38. Hong Kong Transport Department - CTB Comprehensive Screenline Study, 1997.
 39. Hong Kong Transport Department - CMB Comprehensive Screenline Study, 1997.
 40. Halcrow Fox - **West Rail TS2000** - To calibrate and develop the SATURN model for traffic impact assessment of the five stations of the West Rail in NTNW; 1996-1997.
 41. Hong Kong Transport Department - KMB Comprehensive Screenline Study, 1996.
 42. Mott Connell Ltd. - Shanghai Rainbow City - Traffic Survey, 1996.
 43. Chung, Tong & Rosa Solicitors & Notaries - Expert Report for Traffic Accident on 24 July 1988, Princess Margaret Road near RSPCA; 1996.
 44. South China University of Technology - Appraisal of the Interim Report - Traffic Improvement Schemes for Guangzhou City Centre, 1995.
 45. Halcrow Fox - West Kowloon Reclamation - Comprehensive traffic analysis review and environmental impact assessment, 1995.
 46. Delcan International Corporation - Tsuen Wan & Kwai Tsing Sewerage - Traffic forecast and impact assessment for various implementation schemes, 1993.
 47. Delcan International Corporation - Rehabilitation of Hennessy Road and Queensway - Traffic simulation and assignment for various implementation schemes, 1993.
 48. Delcan International Corporation - Cheung Sha Wan Shipyards Redevelopment - Traffic impact assessment, 1992.
 49. Scott Wilson Kirkpatrick Consulting Engineers - Freight Transport Study - Improvements of existing goods vehicle model, 1991.
 50. Scott Wilson Kirkpatrick Consulting Engineers - Lantau Fixed Crossing - Traffic Estimates, 1990.

51. Denton Hall Burgin & Warrens - Expert Evidence on Traffic Accident at Taikoo Shing, 1990.
52. Acer Consultants (Far East) Ltd. - Repulse Bay Hotel Redevelopment Access to Commercial Development - Traffic Review, 1989.
53. Wilbur Smith and Associates - Container Terminal 8 Traffic Study, 1989.
54. Wilbur Smith and Associates - **Port and Airport Development Strategy Study**, 1988-1989.
55. Ove Arup and Partners - The Hopewell Tower Hotel - Traffic Impact Study, 1988.
56. Ove Arup and Partners - Design of Transport Interchange and Road Layout, Hong Kong University of Science and Technology, 1988.
57. Wilbur Smith and Associates - Route X Project. A preliminary feasibility study for assessing the traffic impacts of the various alignment options, 1987-1988.
58. Ove Arup & Partners - Western Harbour Development Study, 1987.
59. Wilbur Smith and Associates - Kai Tak Airport Groundside Access Survey, 1987.
60. MVA Consultancy Ltd. - Guangzhou - Shenzhen - Zhuhai Superhighway, Traffic Volume Study, 1987.
61. Wilbur Smith and Associates - Light Rail Transit System Extension Studies for Kowloon-Canton Railway Cooperation (KCR), 1987.
62. HPT Systems Ltd. - Standard Chartered Bank Redevelopment - Pedestrian Footbridges Study, 1986.
63. Wilbur Smith and Associates - Tate's Cairn Tunnel Feasibility Study, Hong Kong. Evaluating 1996 traffic forecasts for various tunnel options and assisting in development of road improvements, 1986.
64. Transpotech. Ltd. - Data Collection for an Automatic Toll Study, 1986.
65. Maunsell Consultants Asia - Prediction of future traffic demand generated by Tai Po New Town with a population of 300,000, so as to revise the outline development plan, 1984.

C(ii) CONSULTING AND CONTRACT RESEARCH REPORTS

1. Final Report for Independent Review of the Cogent and Convincing Material (Transportation Engineering Aspect) for the Temporary Reclamation Required for the Hong Kong Island – Kau Yi Chau Road Link (Agreement No. SLO 15/2022), Civil Engineering and Development Department of the Hong Kong SAR Government, Sustainable Lantau Office, May 2026.
2. “Road Management and Road Safety Course for RMO (Road Management Office) – Course Evaluation Report”. Prepared for Hong Kong Police Force, February 2023 (with M.L. Tam).
3. “Road Management and Road Safety Course for RMO (Road Management Office) – Course Evaluation Report”. Prepared for Hong Kong Police Force, August 2022 (with M.L. Tam).
4. “Road Management and Road Safety Course for RMO (Road Management Office) – Course Evaluation Report”. Prepared for Hong Kong Police Force, February 2021 (with M.L. Tam).
5. “TD 57/2017 Installation of Traffic Detectors on Selected Strategic Routes – Working Paper on Methodology of Data Cleansing and Fusion for Average Traffic Speed Estimation”. Prepared for AECOM, June 2019 (with M.L. Tam and Autotoll Limited).
6. “Road Management and Road Safety Course for RMO (Road Management Office) – Course Evaluation Report”. Prepared for Hong Kong Police Force, March 2019 (with M.L. Tam).
7. “Road Management and Road Safety Course for RMO (Road Management Office) – Course Evaluation Report”. Prepared for Hong Kong Police Force, March 2018 (with

- M.L. Tam).
8. Road Management and Road Safety Course for RMO (Road Management Office) – Course Evaluation Report”. Prepared for Hong Kong Police Force, March 2017 (with M.L. Tam).
 9. “Transportation Systems in Hong Kong under the Leaders Programme in Urban Transport Planning and Management – Course Evaluation Report”. Prepared for The Centre of Excellence in Urban Transport, Centre for Environmental Planning and Technology University, February 2017 (with M.L. Tam).
 10. “Green Transport Study for a New Development Area in Hong Kong – Final Report”. Prepared for Hong Kong Construction Association, April 2015 (with M.L. Tam, H.W. Ho, W.T. Hung and L.S.C. Pun-Cheng).
 11. “Green Transport Study for a New Development Area in Hong Kong – Draft Final Report”. Prepared for Hong Kong Construction Association, January 2015 (with M.L. Tam, H.W. Ho, W.T. Hung and L.S.C. Pun-Cheng).
 12. “Green Transport Study for a New Development Area in Hong Kong – Interim Report”. Prepared for Hong Kong Construction Association, November 2014 (with M.L. Tam and H.W. Ho).
 13. “Research Study on Expansion of Road Casualty Information System – Executive Summary”. Prepared for Transport Department of Hong Kong SAR Government, March 2014 (in both English and Chinese) (with M.L. Tam and H.P. Lo).
 14. “Research Study on Expansion of Road Casualty Information System – Final Report”. Prepared for Transport Department of Hong Kong SAR Government, February 2014 (with M.L. Tam, H.P. Lo and N. Leung).
 15. “Research Study on Expansion of Road Casualty Information System – Draft Executive Summary”. Prepared for Transport Department of Hong Kong SAR Government, December 2013 (with M.L. Tam and H.P. Lo).
 16. “Research Study on Expansion of Road Casualty Information System – Draft Final Report”. Prepared for Transport Department of Hong Kong SAR Government, December 2013 (with M.L. Tam, H.P. Lo and N. Leung).
 17. “Research Study on Expansion of Road Casualty Information System – Working Paper No. 4: Recommendations for Further Expansion of RoCIS (Future Phases)”. Prepared for Transport Department of Hong Kong SAR Government, October 2013 (with M.L. Tam, H.P. Lo and N. Leung).
 18. “Research Study on Expansion of Road Casualty Information System – Working Paper No. 3: Recommendations for Expansion of RoCIS”. Prepared for Transport Department of Hong Kong SAR Government, August 2013 (with M.L. Tam, H.P. Lo and N. Leung).
 19. “Research Study on Expansion of Road Casualty Information System – Working Paper No. 2: Identification of Requirements from Stakeholders and Features of Existing Databases for System Enhancement of RoCIS”. Prepared for Transport Department of Hong Kong SAR Government, June 2013 (with M.L. Tam and H.P. Lo).
 20. “Research Study on Expansion of Road Casualty Information System – Working Paper No. 1: Road Casualty Information System in Overseas Countries”. Prepared for Transport Department of Hong Kong SAR Government, May 2013 (with M.L. Tam and H.P. Lo).
 21. “Research Study on Expansion of Road Casualty Information System – Inception Report”. Prepared for Transport Department of Hong Kong SAR Government, April 2013 (with M.L. Tam).
 22. “Traffic Justification for the Need of Central Kowloon Route – Independent Expert Review”. Prepared for Highways Department of Hong Kong SAR Government, February 2013 (in both English and Chinese).
 23. “Operability Period Test Report for Specific Tests on Journey Time Measurements and Traffic Speed Range Calculation”. Prepared for Mott MacDonald Hong Kong Limited,

- January 2013. (with M.L. Tam)
24. "Operability Period Test Procedure for Speed Map Panels in the New Territories". Prepared for Mott MacDonald Hong Kong Limited, September 2012. (with M.L. Tam)
 25. "Validation Report for Revamped Internet Speed Map". Prepared for the Electrical and Mechanical Services Department of Hong Kong SAR Government, June 2010. (with M.L. Tam)
 26. "Internet Speed Map Validation Procedure". Prepared for the Electrical and Mechanical Services Department of Hong Kong SAR Government, May 2010. (with M.L. Tam)
 27. "Operability Period Test Report for Journey Time Measurement of Journey Time Indication System in Kowloon Side and JHK-11". Prepared for the Electrical and Mechanical Services Department of Hong Kong SAR Government, April 2010. (with M.L. Tam)
 28. "Operability Period Test Procedure for Journey Time Indication System for Kowloon and JHK-11". Prepared for the Electrical and Mechanical Services Department of Hong Kong SAR Government, February 2010. (with M.L. Tam)
 29. "Operability Period Test Report for Journey Time Measurement after Take-over JTISHK System". Prepared for the Electrical and Mechanical Services Department of Hong Kong SAR Government, October 2009. (with M.L. Tam)
 30. "Mechanism to Determine Sensitivity of Western Harbour Crossing's Traffic – Final Report". Prepared for the Western Harbour Crossing Tunnel Co. Ltd., July 2004. (with K.S. Chan).
 31. "Mechanism to Determine Sensitivity of Western Harbour Crossing's Traffic – Draft Final Report". Prepared for the Western Harbour Crossing Tunnel Co. Ltd., April 2004. (with K.S. Chan and B. Leung).
 32. "Research Study on the Benefits of Pedestrian Flashing Green Countdown Display – Final Report". Prepared for the Transport Department of Hong Kong SAR Government, September 2003. (with H.P. Lo).
 33. "Research Study on the Benefits of Pedestrian Flashing Green Countdown Display – 3rd Quarterly Evaluation Report". Prepared for the Transport Department of Hong Kong SAR Government, June 2003. (with H.P. Lo).
 34. "Research Study on the Benefits of Pedestrian Flashing Green Countdown Display – 2nd Interim Evaluation Report". Prepared for the Transport Department of Hong Kong SAR Government, March 2003. (with H.P. Lo).
 35. "Research Study on the Benefits of Pedestrian Flashing Green Countdown Display - 1st Interim Evaluation Report". Prepared for the Transport Department of Hong Kong SAR Government, January 2003. (with H.P. Lo).
 36. "Pedestrian Demand Assessment of the Proposed Elevated Walkways in Wan Chai – Executive Summary". Prepared for the Transport Department of Hong Kong SAR Government, December 2002. (with Maunsell Consultants Asia Ltd.).
 37. "Enhancement of the Trip Matrix Estimation Procedure in the CTS-3 Model - Draft Final Report". Prepared for the Transport Department of Hong Kong SAR Government, November 2002. (with S.C. Wong, C.O. Tong, H.K. Lo, H.P. Lo and H. Yang).
 38. "Enhancement of the Trip Matrix Estimation Procedure in the CTS-3 Model - 2nd Interim Report". Prepared for the Transport Department of Hong Kong SAR Government, August 2002. (with S.C. Wong, C.O. Tong, H.K. Lo, H.P. Lo and H. Yang).
 39. "Enhancement of the Trip Matrix Estimation Procedure in the CTS-3 Model - 1st Interim Report". Prepared for the Transport Department of Hong Kong SAR Government, June 2002. (with S.C. Wong, C.O. Tong, H.K. Lo, H.P. Lo and H. Yang).
 40. "Enhancement of the Trip Matrix Estimation Procedure in the CTS-3 Model - Technical Note No. 1". Prepared for the Transport Department of Hong Kong SAR Government, May 2002. (with S.C. Wong, C.O. Tong, H.K. Lo, H.P. Lo and H. Yang).

41. "Traffic Accident on 4th January 2001 involving Vehicles HV 5460 and AW 7728 - Expert Evidence". Prepared for Joseph Li and Co., Solicitors, Hong Kong, August 2001.
42. "Review of the Annual Traffic Census - Final Report". Prepared for the Transport Department of Hong Kong SAR Government, September 2000. (In association with Department of Civil Engineering, The University of Hong Kong; Department of Civil Engineering, The Hong Kong University of Science & Technology; and Department of Management Sciences, City University of Hong Kong).
43. "Review of the Annual Traffic Census - Draft Final Report". Prepared for the Transport Department of Hong Kong SAR Government, July 2000. (In association with Department of Civil Engineering, The University of Hong Kong; Department of Civil Engineering, The Hong Kong University of Science & Technology; and Department of Management Sciences, City University of Hong Kong).
44. "Review of the Annual Traffic Census - Interim Report No. 2". Prepared for the Transport Department of Hong Kong SAR Government, April 2000. (In association with Department of Civil Engineering, The University of Hong Kong; Department of Civil Engineering, The Hong Kong University of Science & Technology; and Department of Management Sciences, City University of Hong Kong).
45. "Review of the Annual Traffic Census - Interim Report No. 1". Prepared for the Transport Department of Hong Kong SAR Government, January 2000. (In association with Department of Civil Engineering, The University of Hong Kong; Department of Civil Engineering, The Hong Kong University of Science & Technology; and Department of Management Sciences, City University of Hong Kong).
46. "Review of the Annual Traffic Census - Working Paper No. 1: Review of Traffic Detection Technology". Prepared for the Transport Department of Hong Kong SAR Government, January 2000. (In association with Department of Civil Engineering, The University of Hong Kong; Department of Civil Engineering, The Hong Kong University of Science & Technology; and Department of Management Sciences, City University of Hong Kong).
47. "The Third Comprehensive Transport Study (CTS-3) - Final Report". Prepared for the Transport Department of Hong Kong SAR Government, October 1999. (with Wilbur Smith Associates Limited).
48. "Review of the Annual Traffic Census - Inception Report". Prepared for the Transport Department of Hong Kong SAR Government, September 1999. (In association with Department of Civil Engineering, The University of Hong Kong; Department of Civil Engineering, The Hong Kong University of Science & Technology; and Department of Management Sciences, City University of Hong Kong).
49. "Operation Plan". Working Paper No. 4 for the Consultancy Study on the Provision, Management and Operation of Traffic Control and Surveillance Facilities for the Strategic Road Network. Prepared for the Transport Department of Hong Kong SAR Government, April 1999. (With Hyder Consulting Limited).
50. "Initial Fasttrack Recommendations". Working Paper No. 8-1 for the Third Comprehensive Transport Study (CTS-3). Prepared for the Transport Department of Hong Kong SAR Government, August 1998. (with Wilbur Smith Associates Limited).
51. "Evaluation of Park-and-Ride Trial Scheme in Sheung Shui". Prepared for the Transport Department of Hong Kong SAR Government, June 1998. (with W.T. Hung and W.G. Wong).
52. "Expert Report on Traffic Accident near Airport Flyover – High Court Action No. PI 1244 of 1995". Prepared for Deacons Graham & James Lawyers Co., May 1998.
53. "Road Network Reliability Analysis – Progress Report". Prepared for Joint Research Project H-ZF21 with Kyoto, Japan, March 1998. (with Y. Iida and M.G.H. Bell).
54. "Traffic Forecasting Report". Working Paper No. 4. Prepared for Kowloon-Canton Railway Corporation. West Rail Contract No. TS-200. April 1997. (with Halcrow Fox).

55. "Study Area Model (SAM) - Validation Report". Working Paper No. 3. Prepared for Kowloon-Canton Railway Corporation. West Rail Contract No. TS-200. March 1997. (with Halcrow Fox).
56. "Assumptions & Basis for Traffic Impact Assessment". Working Paper No. 2. Prepared for Kowloon-Canton Railway Corporation. West Rail Contract No. TS-200. February 1997. (with Halcrow Fox).
57. "Traffic and Transportation Studies Methodology". Working Paper No. 1. Prepared for Kowloon-Canton Railway Corporation. West Rail Contract No. TS-200. December 1996. (with Halcrow Fox).
58. "CTB Screenline Surveys". Prepared for the Transport Department of Hong Kong Government, April 1997. (with W.T. Hung and W.G. Wong).
59. "CMB Screenline Surveys". Prepared for the Transport Department of Hong Kong Government, March 1997. (with W.T. Hung and W.G. Wong).
60. "KMB Screenline Surveys". Prepared for the Transport Department of Hong Kong Government, December 1996. (with W.T. Hung and W.G. Wong).
61. "Expert Evidence on Traffic Accident on 24th July 1988 at Princess Margaret Road near RSPCA", Prepared for Cheung, Tong & Rosa Solicitors and Notaries, Hong Kong, January 1996.
62. "West Kowloon Reclamation - Comprehensive Traffic Analysis Review and Environmental Impact Assessment – Technical Paper - Traffic Survey Results", Prepared for Halcrow Fox, July 1995.
63. "Tsuen Wan & Kwai Tsing Sewerage Stage I and Stage II – Working Paper No. 1 - Traffic", Prepared for Delcan International Corporation, November 1993.
64. "Rehabilitation of Hennessy Road and Queensway - SATURN Model Calibration Report", Prepared for Delcan International Corporation, January 1993.
65. "Cheung Sha Wan Shipyards Re-development Study", Prepared for Delcan International Corporation, January 1993.
66. "Freight Transport Study - Traffic Counts", Technical Note No. 18, Prepared for Scott Wilson Kirkpatrick Consulting Engineers, January 1992.
67. "Expert Evidence on Traffic Accident at Taikoo Shing on 14th October 1986", Prepared for Denton Hall Burgin & Warrens, Hong Kong, September 1990.
68. "Repulse Bay Hotel Redevelopment Access Commercial Development -- Traffic Review", Prepared for Acer Consultants (Far East) Ltd., Hong Kong, August 1989.
69. "Transport: Kwai Chung Survey Results", Technical Paper No. 15, Prepared for the Port and Airport Development Strategy (PADS) study, with Wilbur Smith Associates, December 1988.
70. "The Hopewell Tower Hotel -- Traffic Impact Study", Prepared for Ove Arup & Partners, August 1988.
71. "Western Harbour Development -- Preliminary Transport Appraisal", Prepared for Ove Arup & Partners, September 1987.
72. "Standard Chartered Bank Redevelopment -- Pedestrian Footbridges Study", Prepared for HPT Systems Limited, Consulting Engineers, December 1986.
73. "Tai Po Outline Development Plan Review -- Traffic Study", Prepared for Maunsell Consultants Asia, October 1985.
74. "Traffic Study for Comfort Terrace", Prepared for Henderson Land Development Company Limited, a traffic impact study for a residential building development at Comfort Terrace, September 1982.
75. "Junk Bay New Town Study Appendices -- Chapter 2 -- Transport", Prepared for Hong Kong Government, Territories Development Department, October 1982.
76. "Airport Terminal Planning", course notes of extension course (code: B-153), Department of Civil and Structural Engineering, Hong Kong Polytechnic, September 1993. (with S.C. Wirasinghe).

77. "Estimation of Origin-Destination Matrices in Congested Networks with Multiple User Classes", Ph.D. thesis, Department of Civil Engineering, University of Newcastle upon Tyne, U.K., June 1992.
78. "Analysis and Planning of Urban Public Transportation Routes", course notes of extension course (code: B-799), Department of Civil and Structural Engineering, Hong Kong Polytechnic, July 1990. (with S.C. Wirasinghe).
79. "Estimation of Origin-Destination (O-D) Matrix from Traffic Counts", Department of Civil and Structural Engineering, Hong Kong Polytechnic, November 1989. (with H.P. Ho, C.M. Chung and I.S. Mahalingam).
80. "Graduate Curricula for Future Transportation Engineers", information report, Institute of Transportation Engineers, Technical Committee 2-33, December 1988. (with H.B. Skinner and et al.).
81. "The Estimation of Origin-Destination Matrices", course notes of extension course (code: B-288), Department of Civil and Structural Engineering, Hong Kong Polytechnic, June 1989. (with M.G.H. Bell).
82. "A Review of Modal Split Model", Technical Report, Hong Kong Polytechnic, September 1987. (with A.L.K. Ng).
83. "A Review of Trip Generation Model", Department of Civil and Structural Engineering, Hong Kong Polytechnic, October 1985. (with O.T. Lau and P.K. Ho).

PROFESSIONAL AFFILIATIONS

Member:	<u>Since</u>
The American Society of Civil Engineers	1999
The Hong Kong Institution of Engineers	1986
The Institution of Civil Engineers	1985
The Institute of Transportation Engineers	1984
The Chartered Institute of Logistics & Transport	1982
Fellow:	
The Hong Kong Institution of Engineers	2000
The Chartered Institution of Highways and Transportation	1992
Council Member:	
Council of the Hong Kong Institution of Engineers (HKIE)	2018-2020
Council Executive of the HKIE	2018-2019
Committee Member:	
Chairman, Fellowship Committee, The HKIE	2017-2020
Member, Professional Assessment Committee, The HKIE	2016-2020
Member, Logistics & Transportation Division Committee, The HKIE	2015-2017
Immediate Past Chairman , Logistics & Transportation Division Committee, The HKIE	2015-2016
Chairman , Logistics & Transportation Division Committee, The HKIE	2014-2015
Training Committee, The HKIE	2005-2008
Continuing Professional Development Committee, The HKIE	2005-2006, 1996-2000
Community Service Committee, The HKIE	2003-2004
Immediate Past Chairman , Civil Division Committee, The HKIE	2003-2004
Chairman , Civil Division Committee, The HKIE	2002-2003
Education and Examinations Committee, The HKIE	2001-2005

Deputy Chairman, Civil Division Committee, The HKIE	2001-2002
Hon. Secretary, Civil Division Committee, The HKIE	2000-2001
Civil Division Committee, The HKIE	1995-2004
Technical Council Committee, The Institute of Transportation Engineers	1991-1996
Ex-official Member, Steering Committee on Research and Development, Transport Department, The Government of the HKSAR	2019-2023
Planning Sub-Committee of the Land and Development Advisory Committee, Development Bureau, The Government of the HKSAR	2015-2018
Road Safety Research Committee, Road Safety Council, The Government of the HKSAR	2015-2017
Registration Committee, The Engineers Registration Board	2012-2015, 2008-2011
Authorized Persons Registration Committee, Hong Kong Building Dept.	2006-2009
Committee (ADB30) on Transportation Network Modeling, National Research Council of United States, Transportation Research Board	2006-2009
International Advisory Committee, The International Symposium on Transportation and Traffic Theory (ISTTT)	2002-2026
International Scientific Committee, The International Symposium on Transportation Network Reliability (INSTR)	2001-present
China Academic Commission of Urban Transport Planning	1999-2000
Committee (A5013) on Non-motorized Transport and Related Issues in Developing Countries, National Research Council of United States, Transportation Research Board	1997-2000
Panel Member:	
Member (Representative on Professional Assessment Committee), Logistics & Transportation Discipline Advisory Panel, The HKIE	2016-2018
Member, Logistics & Transportation Discipline Advisory Panel, The HKIE	2015-2020
Immediate Past Chairman , Logistics & Transportation Discipline Advisory Panel, The HKIE	2015-2016
Chairman , Logistics & Transportation Discipline Advisory Panel, The HKIE	2012-2015
Deputy Chairman , Logistics & Transportation Discipline Advisory Panel, The HKIE	2010-2012
Chairman , Civil Discipline Advisory Panel, The HKIE	2008-2011
Deputy Chairman , Civil Discipline Advisory Panel, The HKIE	2005-2008
Member, Civil Discipline Advisory Panel, The HKIE	2001-2005
Member, Engineering Panel, Research Grants Council (RGC) of Hong Kong	2018-2024
Member, Expert Review Panel, Logistics and Supply Chain MultiTech R&D Centre (LSCM)	2017-2025
Member, Hong Kong PhD Fellowship Scheme Selection Panel, Research Grants Council (RGC) of Hong Kong	2011-2012
Expert Panel Chairman , “Expert Panel Forum on Sustainable Transport Planning and Central-Wanchai Bypass”, Sub-committee on Wan Chai Development Phase II Review of the Harbour-front Enhancement Committee, Hong Kong SAR	2005-2006
Review Panel under the Land (Miscellaneous Provisions) (Amendment) Ordinance 2003, the Environment, Transport & Works Bureau, Hong Kong SAR	2004-2010
Appeal Tribunal Panel under Section 45 of the Building Ordinance (Chapter 123), the Housing, Planning and Lands Bureau, Hong Kong SAR	2003-2013

Board Member:

The Hong Kong Society for Transportation Studies (http://www.hksts.org/commit_frame.htm)	2019-present
Board of Advice, Institute of Transport and Logistics Studies (ITLS), University of Sydney Business School	2015-2023
Qualification and Membership Board, The HKIE	2017-2020, 2012-2015, 2008-2011
Accreditation Board, The HKIE	2015-2020
Accreditation Board Executive Committee, The HKIE	2015-2020
Construction Industry Training Authority (CITA)	2003-2005
CITA Committee Member on Levy	
CITA Committee Member on Building and Development	
CITA Committee Member on Training Courses	
Learned Society Board, The HKIE	2002-2003
The Eastern Asia Society for Transportation Studies (http://easts.info/)	1996-2019
Building and Civil Engineering Training Board, Vocational Training Council	1993-1999

President:

The Hong Kong Society for Transportation Studies (http://www.hksts.org/commit_frame.htm)	1996-2019
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Convenor:

International Advisory Committee (IAC) of the International Symposium of Transportation and Traffic Theory (ISTTT) (https://isttt23.sciencesconf.org/resource/page/id/6)	2015-2022
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Associate Editor, Editor and then Co-Editor-in-Chief:

Journal of Advanced Transportation (https://onlinelibrary.wiley.com/journal/20423195)	1996-2017
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Founding Editor-in-Chief

2004-2006

Editors-in-Chief

2007-2012

SCI Journal - Transportmetrica

Editors in-Chief

2013-present

SCI Journal - Transportmetrica A: Transport Science
(<https://www.tandfonline.com/toc/ttra21/current>)

Editor

2013-present

SCI Journal - Transportmetrica B: Transport Dynamics
(<https://www.tandfonline.com/toc/ttrb20/current>)

Editorial Board Member:

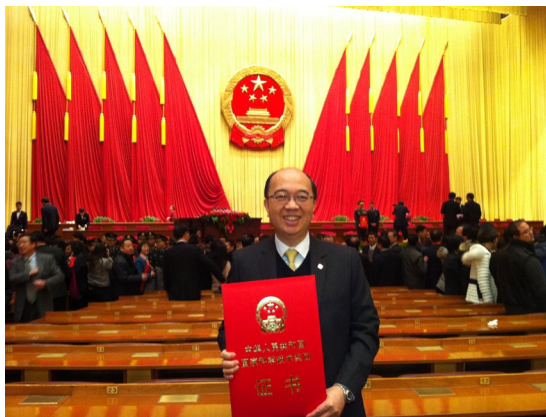
- Proceedings of Institution of Civil Engineers (ICE) – Transport (http://www.icevirtuallibrary.com/toc/jtran/current)	2004-2007
- Journal of Transportation Systems Engg. & Information Technology (Society of Chinese System Engineering, Beijing, China) – ISSN 1009- 6744 (http://www.tseit.org.cn/EN/volumn/current.shtml)	2003-2023
- The Journal of Mathematical Modelling and Algorithms (JMMA) (http://www.springer.com/mathematics/applications/journal/10852)	2002-2023

- Internet Journal for the Analysis, Modelling, Simulation of the Spatio-Temporal Dynamics of Traffic and Transportation (Cooper@tive Tr@nsport@tion Dyn@mics) (www.trafficforum.org/journal) 2001-2023
- Group Proceedings : Group 1 - Construction, Hong Kong Institution of Engineers 1997
- Journal of Advanced Transportation (<https://onlinelibrary.wiley.com/journal/20423195>) 1991-2017

AWARDS

- Lifetime Achievement Award, The 4th International Symposium on Multimodal Transportation (ISMT 2021), 4-5 December 2021, Nanjing, China.
- The 2021 Eastern Asia Society for Transportation Studies (EASTS) Best Paper Award for Methodological Development, “Travel Time Prediction on Links with and without Point Detectors on Urban Roads”, presented in the 14th EASTS International Conference, 12-14 September 2021, Hiroshima, Japan (Online).
- **2020 Higher Education Outstanding Scientific Research Output Award** (Science and Technology) – Second-Class Award in Natural Science (2020 年度高等學校科學研究優秀成果獎 (科學技術) 自然科學獎二等獎), Ministry of Education of China. It recognizes the excellence of his research project regarding “New mechanisms for investment decisions of transportation infrastructure (交通基礎設施投資決策新機制)”.
- Dean's Award for Outstanding Achievement in Research Funding (2020), The Hong Kong Polytechnic University.
- The 2019 Eastern Asia Society for Transportation Studies (EASTS) **Yasoshima Yoshino-suke Prize (Best of the Best Paper Award)**, “Modeling Joint Activity-Travel Patterns in Pedestrian Networks with Possibility of Using Wi-Fi Data”, presented in the 13th EASTS International Conference, 9-12 September 2019, Colombo, Sri Lanka.
- Dean's Award for Outstanding Achievement in Research Funding (2017), The Hong Kong Polytechnic University.
- HKIHT Highways and Transportation Excellence Award 2015: Commendation Award – The Hong Kong Institution of Highways and Transportation (HKIHT) has announced that the project, Speed Map Panels in the New Territories, was selected as the Commendation Award winner of the HKIHT Highways and Transportation Excellence Award 2015 on 1 December 2015. The Speed Map Panels is one of the Transport Department’s projects for disseminating real-time traffic information on major roads in the New Territories to the road users (website: www.hkemobility.gov.hk). It was jointly developed by the Autotoll Limited and the Department of Civil and Environmental Engineering (CEE), The Hong Kong Polytechnic University. The Principal Investigator of this project is Ir Prof. William H.K. Lam with assistance from Ir Dr. M.L. Tam (Senior Project Fellow).
- The 2015 Eastern Asia Society for Transportation Studies (EASTS) Best Paper Award for Methodological Development, “Dynamic Journey Time Estimation in Stochastic Road Networks with Uncertainty”, presented in the 11th EASTS International Conference, 11-14 September 2015, Cebu, Philippines.
- Ir Prof. Lam and his colleagues from Shenzhen University and Wuhan University received the 2014 China Geographic Information Science and Technology Progress Award (中國地理信息科技進步獎) – 1st Class Award by the China Association for Geographic Information Society on 17 August 2014.
- Dean's Award for Outstanding Achievement in Research Funding (2014), The Hong Kong Polytechnic University.

- «交通規劃理論系列教材» written and edited by Ir Prof. Lam and his colleagues from Beijing Jiaotong University, Beihang University, and the Hong Kong University of Science and Technology were given with “2012 清華大學優秀教材評選一等獎” by Tsinghua University in June 2012.
- Ir Prof. Lam and his colleagues from Beijing Jiaotong University, Beihang University, and the Hong Kong University of Science and Technology were given with the **State Natural Science Award** in 2011, the highest honour in China. The team of five has made significant and complementary contributions advancing the numerical study of Behavior-based Spatial-temporal Features of Urban Traffic Flow Distribution that has had far-reaching impacts on transportation theories and practices. Based on an explicit understanding of complex traffic behavior, they have established new mathematical models with taking account the spatial-temporal features of traffic flow and proposed highly efficient algorithms for solving various transportation problems in large urban networks.



Ir Prof. William H.K. Lam
(林興强教授)
attended the award ceremony
of the State Natural Science
Award (國家自然科學獎)
on 14 February 2012
in the Great Hall of the People
(人民大會堂), Beijing, China

- The Eastern Asia Society for Transportation Studies (EASTS) Outstanding Transportation Project Award 2011, “Journey Time Indication System in Kowloon, Hong Kong” presented in the 9th EASTS International Conference, 20-23 June 2011, Jeju, Korea. The Journey Time Indication System is one of the ITS projects of the Transport Department. The contractor of this project is Autotoll Limited. The solution algorithm of the journey time estimation in the system is developed by Ir Prof. William H.K. Lam with assistance from Dr. M.L. Tam (Project Fellow).
- Civil Engineering Paper of the Year Award 2010 (Professional Grade), “Reliable Path Searching System: A Case Study in Hong Kong” (B.Y. Chen, W.H.K. Lam, A. Sumalee and M.L. Tam) presented by the Hong Kong Institution of Engineers, Civil Division
- Award of Chang Jiang Scholarship at the Beijing Jiaotong University from 1 March 2010 to 28 February 2016.
- Hong Kong ICT Award 2008: Best Public Service Application (Small Scale Project): The Hong Kong Institution of Engineers – Information Technology Division announced that Internet Traffic Speed Map by Transport Department was awarded the Certificate of Merit in the Hong Kong ICT Awards 2008: Best Public Service Application (Small Scale Project) on 9 February 2009. The Internet Traffic Speed Map is one of the Transport Department’s projects for disseminating real-time traffic information on major urban roads to the public. It was jointly developed by the Autotoll Limited and the Department of Civil and Structural Engineering (CSE), The Hong Kong Polytechnic University. The Principal Investigator of this project is Ir Prof. William H.K. Lam with assistance from Dr. M.L. Tam (Research Fellow) and Dr. K.S. Chan (Research Associate).
- Award of Distinguished International Research Scholarship (2008) by the Schulich School of Engineering at the University of Calgary, Canada.
- Dean's Award for Outstanding Achievement in Research Funding (2008), The Hong

- Kong Polytechnic University.
- 2005 Engineering Alumni Excellence Award, Faculty of Engineering, The University of Calgary, Canada.
- The 2005 Eastern Asia Society for Transportation Studies (EASTS) Outstanding Paper Award, “Impact of Road Pricing on Network Reliability”, out of 600 papers presented in the 6th EASTS Conference, 21-24 September 2005, Bangkok, Thailand.
- President's Award in Research and Scholarly Activities (2000), The Hong Kong Polytechnic University

GRADUATE STUDENTS SUPERVISED (as Principal Supervisor)

(i)	<u>PhD Students</u>	<u>Year</u>
1.	SHI Yuxin (Title: Advancing the Traffic Assignment Model in the Era of Big Data and Intelligent Mobility)	completed in 2026
2.	LIU Shaojie (Title: Network-Wide Traffic Speed–Flow Estimation Using Hybrid Model-Based and Data-Driven Methods)	completed in 2026
3.	LI Ang (Title: Travel Time Prediction Problems for Paths and Links under Uncertainty)	completed in 2025
4.	VO Dang Khoa (Title: Modeling Household Joint Activity-travel Choices in Multi-modal Transportation Networks: An Activity-based Network Equilibrium Approach)	completed in 2022
5.	FU Hao (Title: Sensor Location Problems for Estimation of Origin-Destination Demands and Travel Times under Uncertainty)	completed in 2022
6.	WEPULANON Piyanit (Title: Developing Public Transport Information Systems with Use of Smartphone-based Human Probe Data)	completed in 2020
7.	PAN Tianlu (Title: Multiclass Multilane Traffic Models and Integrated Optional Control Strategies for Freeways)	completed in 2018
8.	LIU Ding (Title: Design of Urban Rail Transit Corridor over Time: Modeling and Optimization for Cities with Uncertainties in Population Densities)	completed in 2018
9.	FU Xiao (Title: Modelling Activity and Travel Choice Behaviour: A Network Equilibrium Approach)	completed in 2015
10.	OUYANG Lianqun (Title: Modeling Activity and Travel Choice Behaviour for Land Use and Transport Optimization Problems)	completed in 2014
11.	CHEN Biyu (Title: Reliable Shortest Path Problems in Networks under Uncertainty: Models, Algorithms and Applications)	completed in 2012
12.	LEE Yik Sze, Jodie (Title: Pedestrian Activity-Simulation Model for Hong Kong Congested Urban Areas)	completed in 2010
13.	TAM Mei Ling (Title: Evaluating the Demand and Service Quality of Ground Access Modes and Terminal Facilities of Hong Kong International Airport)	completed in 2006
14.	WU Zixiao	completed in 2005

- (Title: Motorized and Non-motorized Transport Systems: Modeling and Optimization)
15. XU Gang completed in 2003
(Title: A Traffic Flow Simulator for Driver Information System)
 16. CHAN King Sun, Eric completed in 2001
(Title: Advances on Stochastic Traffic Assignment Model for Driver Information System applications)
 17. TAM Mei Lam completed in 2000
(Title: A Balance of Car Ownership under Demand and Road Network Supply Conditions)
 18. MUNG King Shing, Gregory completed in 1996
(Title: Probability Distribution of Statistical Quantities for Opposing Vehicles and Opposed Turns at Fixed Time Signalized Intersection)

(ii) MPhil Students

Year

1. ZHANG Junlong completed in 2015
(Title: On-time Delivery Probabilistic Models for Stochastic Vehicle Routing Problems)
2. XIONG Yiliang completed in 2015
(Title: Modelling Individual and Household Activity - Travel Scheduling Behaviours in Stochastic Transportation Networks)
3. LI Xiangmin completed in 2014
(Title: Automatic Incident Detection under No-Rain and Rain Conditions)
4. YE Daojun completed in 2014
(Title: Accident Analyses in Hong Kong: Accident Blackspot Identification, Casualty Injury Severity and Before-After Analysis)
5. ZHANG Yuqing completed in 2012
(Title: Advanced Models for Transit Network Design and Operation under Uncertainties)
6. YANG Liu completed in 2006
(Title: Advanced Passenger Information System: Modeling and Optimization)
7. TANG Yuen Fan, Amy completed in 2002
(Title: Short-term Traffic Forecasting using Hong Kong Annual Traffic Census)
8. LEE Yik Sze, Jodie completed in 2002
(Title: Development of Pedestrian Simulation-Assignment Models for Hong Kong Mass Transit Railway Stations)
9. YIM Ka Nin, Paul completed in 1998
(Title: Evaluation of Count Location Selection Methods for the Estimation of O-D Matrices from Traffic Counts)
10. CHEUNG Chung Yu completed in 1998
(Title: Pedestrian Flow Characteristics in the Hong Kong Mass Transit Railway Stations)
11. Ye Rui Jin completed in 1996
(Title: Optimization of Road Pricing Policies)

(iii) MSc Student

Year

1. SIU Wai Chung completed in 1997
(Title: A Stated Preference Examination of Arrival Time Decision of Drivers for Home-to-work Trips)

(iv) DBA Student

Year

1. LAM Yim Ping, Samson completed in 2002
(Title: Strategy for Successful Implementation of Transport Information System (TIS) in

Hong Kong)

- | (v) <u>MBA Student</u> | <u>Year</u> |
|--|--------------------|
| 1. LAM Wai Chung
(Title: The Future Direction of Hong Kong being the Number One Container Port in the World under the Strategic Reforms of Ports in South China and in Far East Countries) | completed in 1996 |

EXTERNAL EXAMINER

- | (i) <u>PhD Candidates</u> | <u>Year</u> |
|---|--------------------|
| 1. TRAN Cong-Quoc
➤ PhD Thesis title: "Optimal Deployment of Charging Infrastructures for Urban Networks"
➤ Supervised by Dr. Mehdi Keyvan-Ekbatani, Department of Civil and Natural Resources Engineering, University of Canterbury, Christchurch, New Zealand. | 2022 |
| 2. LI Lubing
➤ PhD Thesis title: "Adaptive Traffic Signal Control under Demand Uncertainty"
➤ Supervised by Prof. Hong K. Lo, Department of Civil and Environmental Engineering, Hong Kong University of Science and Technology. | 2020 |
| 3. PATKAR Manish
➤ PhD Thesis title: "Impact of Side Friction on Capacity of Urban Arterial Midblock Sections in India"
➤ Supervised by Prof. Ashish Dhamaniya, Department of Civil Engineering, SV National Institute of Technology, India. | 2020 |
| 4. POORJAFARIJAVAZM Vahid
➤ PhD Thesis title: "Transit Timetable Synchronisation Using Metaheuristic Algorithms"
➤ Supervised by Dr. W.L. Yue, School of Natural and Built Environments, Division of IT, Engineering and the Environment, University of South Australia. | 2016 |
| 5. HÄNSELER Flurin S.
➤ PhD Thesis title: "Modeling and Estimation of Pedestrian Flows in Train Stations"
➤ Supervised by Prof. Michel Bierlaire, School of Architecture, Civil and Environmental Engineering, École Polytechnique Fédérale de Lausanne. | 2016 |
| 6. YAN Wei
➤ PhD Thesis title: "Driving Behavior Studies based on Driving Simulator Experiments"
➤ Supervised by Prof. S.C. Wong, Department of Civil Engineering, The University of Hong Kong. | 2015 |
| 7. JIANG Yu
➤ PhD Thesis title: "Reliability-based Transit Assignment: Formulations, Solution Methods and Network Design Applications"
➤ Supervised by Dr. W.Y. Szeto, Department of Civil Engineering, The University of Hong Kong. | 2014 |
| 8. LIAO Feixiong
➤ PhD Thesis title: " Synchronizing networks: the modeling of supernetworks for activity-travel behavior"
➤ Supervised by Prof. Harry J.P. Timmermans, Centre of Urban Planning, Eindhoven University of Technology, Eindhoven, Netherlands. | 2013 |
| 9. KNOOP Victor | 2009 |

- PhD Thesis title: "Road Incidents and the Effects on Driving Behaviour and Traffic Congestion"
 - Supervised by Prof. H.J. van Zuylen and Prof. S.P. Hoogendoorn, Department of Transport Planning, Faculty of Civil Engineering and Geosciences, Delft University of Technology, Delft, Netherlands.
10. ZHU Wei 2008
 - PhD Thesis title: "Bounded Rationality and Spatio-Temporal Pedestrian Shopping Behavior"
 - Supervised by Prof. Harry J.P. Timmermans, Centre of Urban Planning, Eindhoven University of Technology, Eindhoven, Netherlands.
 11. BIE Jing 2008
 - PhD Thesis title: "The Dynamical System Approach to Traffic Assignment: The Attainability of Equilibrium and Its Application to Traffic System Management "
 - Supervised by Dr. Hong K. Lo, Department of Civil Engineering, Hong Kong University of Science and Technology.
 12. JIN Ming 2007
 - PhD Thesis title: "Studies of Drivers' Responses to ATIS Information in Incidents: System and Applications"
 - Supervised by Dr. Michael Soi-Hoi Lam, School of Civil & Environmental Engineering, Nanyang Technology University, Singapore.
 13. WAN Kam Hung 2006
 - PhD Thesis title: "Congested Transit Service Planning: Supply and Demand Considerations"
 - Supervised by Dr. Hong K. Lo, Department of Civil Engineering, Hong Kong University of Science and Technology.
 14. TUNGKAVACHIRANON Kritsda 2005
 - PhD Thesis title: "Development of Transportation Models for a Regional City with GIS Integration"
 - Supervised by Prof. Yordphol Tanaboriboon, School of Civil Engineering, Asian Institute of Technology.
 15. WONG Chi Kwong 2004
 - PhD Thesis title: "Lane-based Optimization Method for Traffic Signal Design"
 - Supervised by Prof. S.C. Wong, Department of Civil Engineering, The University of Hong Kong.
 16. WANG Yau Tai, Judith 2003
 - PhD Thesis title: "Strategic Gaming Analysis of Competitive Transportation Services"
 - Supervised by Dr. Hai Yang, Department of Civil Engineering, Hong Kong University of Science and Technology.
 17. SZETO Wai Yuen 2003
 - PhD Thesis title: "Dynamic Traffic Assignment: Formulations, Properties and Extensions"
 - Supervised by Dr. Hong K. Lo, Department of Civil Engineering, Hong Kong University of Science and Technology.
 18. ZHANG Xiaoning 2003
 - PhD Thesis title: "Optimal Road Pricing in Transportation Networks"
 - Supervised by Dr. Hai Yang, Department of Civil Engineering, Hong Kong University of Science and Technology.
 19. WONG Chun Kuen 2002
 - PhD Thesis title: "Dynamic Macroscopic Modeling of Highway Traffic Flows"
 - Supervised by Prof. S.C. Wong, Department of Civil Engineering, The University of Hong Kong.

20. MAK Chin Long 2001
 - PhD Thesis title: "Automatic Incident Detection on Expressways"
 - Supervised by Prof. Henry S. L. Fan, School of Civil and Structural Engineering, Nanyang Technological University, Singapore.
21. TONG Hing Yan 2001
 - PhD Thesis title: "Vehicular Emissions and Fuel Consumption at Urban Traffic Signal Controlled Junction"
 - Supervised by Dr. W. T. Hung, Department of Civil and Structural Engineering, Hong Kong Polytechnic University.
22. Alexandre de BARROS 2001
 - PhD Thesis title: "Planning of Airports for the New Large Aircrafts"
 - Supervised by Prof. S.C. Wirasinghe, Department of Civil Engineering, University of Calgary, Alberta, Canada.
23. QIAO Feng Xiang 2000
 - PhD Thesis title: "Intelligent Classification, Simulation and Control of Traffic Flow"
 - Supervised by Dr. Hai Yang, Department of Civil Engineering, Hong Kong University of Science and Technology.
24. MENG Qiang 2000
 - PhD Thesis title: "Bi-level Transportation Modeling and Optimization"
 - Supervised by Dr. Hai Yang, Department of Civil Engineering, Hong Kong University of Science and Technology.

(ii) MPhil Candidates

Year

1. FUNG Wen Chi, Sylvia 2005
 - MPhil Thesis title: "Calibration and Validation of Transit Network Assignment Models"
 - Supervised by Dr. C. O. Tong, Department of Civil Engineering, The University of Hong Kong.
2. LAI Ming Fai 2002
 - MPhil Thesis title: "Optimal Assignment of Ferry Fleet for Waterborne Transportation"
 - Supervised by Dr. Hong K. Lo, Department of Civil Engineering, Hong Kong University of Science and Technology.
3. WAN Kam Hung 2002
 - MPhil Thesis title: "Optimal Integrated Transit Network Design"
 - Supervised by Dr. Hong K. Lo, Department of Civil Engineering, Hong Kong University of Science and Technology.
4. CHEUNG Wai Man 2001
 - MPhil Thesis title: "Dynamic Traffic Assignment for Congested Highway Network"
 - Supervised by Prof. S.C. Wong and Dr. C.O. Tong, Department of Civil Engineering, The University of Hong Kong.
5. YIP Chun Wing 2001
 - MPhil Thesis title: "Multi-modal Transit Network with Heterogeneous User Classes"
 - Supervised by Dr. Hong K. Lo, Department of Civil Engineering, The Hong Kong University of Science and Technology.
6. WONG Wai Tak 2000
 - MPhil Thesis title: "Calibration of New Sheared Delay Formulae for the Estimation of Queues and Delays in TRANSYT"
 - Supervised by Prof. S.C. Wong, Department of Civil Engineering, The University of Hong Kong.

7. WONG Chi Kwong 1998
- MPhil Thesis title: "A new methodology for calibrating the Lowry model"
 - Supervised by Dr. C. O. Tong, Department of Civil Engineering, The University of Hong Kong.

Updated on October 2026