Dr LEE Der-Horng
Associate Professor, Department of Civil Engineering, NUS

Education

PhD	University of Illinois, Chicago, Illinois, USA	9/1993 – 1/1996
MEng	National Central University, Chungli, Taiwan	9/1990 – 6/1992
BBA	Tamkang University, Taipei, Taiwan	9/1986 – 6/1990

Areas of Expertise and Research Interests

Intelligent transportation systems, Transportation planning and policy, Microscopic traffic simulation, Transportation network modeling and analysis, Multi-modal transportation logistics, Airport and aviation management, Maritime and port management

Honours & Awards

1. TR100 Honouree (now known as TR35, The Technology Review 100: World 100 top innovators under 35 whose work and ideas will change the world), MIT Technology Review, 2002.
2. Who's who in Science and Engineering, Marquis, New Providence, New Jersey, USA, 2003 – present.
3. Who's who in the World, Marquis, New Providence, New Jersey, USA, 2004 – present.
4. Who's who in Asia, Marquis, New Providence, New Jersey, USA, 2005 – present.
5. Outstanding Alumnus, Department of Civil Engineering, National Central University, Chungli, Taiwan, June 2006.

External Funded Research Projects (Last Three Years)

1. Principal investigator, ICVS Research Phase 2: Demand Forecasting and Vehicle Relocation Models, funded by HONDA ICVS Singapore Private Limited, SGD$204,792, May 2005 to May 2007.
2. International collaborator, Computational Transportation Science, Integrative Graduate Education and Research Traineeship (IGERT) Program, US National Science Foundation, USD$3,100,000, June 2006 to May 2009.

Selected International Referred Journal Publications (Last Three Years)

1. Lee, D H and M Dong, "A heuristic approach to logistics network design for end-of-lease computer products recovery". TRANSPORTATION RESEARCH PART E-LOGISTICS AND TRANSPORTATION REVIEW, 44, no. 3 (2008): 455-474. (United Kingdom).
2. Lee, D H, L Y Song and H Q Wang, "An optimization approach to security operations towards sustainable seaport". International Journal of Sustainable Transportation, 2, no. 2 (2008): 115-133. (United States).
3. Nunes, U, H Rakha, Y Wang and D H Lee, "Special Issue on ITSC 2006". IEEE TRANSACTIONS ON INTELLIGENT TRANSPORTATION SYSTEMS, 9, no. 1 (2008): 1-4. (United States).
4. Meng, Q, D H Lee and L. Wu, "Maximal reserve trip generation for transit networks". Journal of the Easter Asia Society for Transportation Studies, 7 (2008): 570-585. (Japan).
5. Lee, D H, W Bian and M Dong, "Multi-objective model and solution method for integrated forward and reverse logistics network design for third-party logistics providers". TRANSPORTATION RESEARCH RECORD, 2032 (2008): 43-52. (United States).
6. Lee, D H, H Q Wang and L X Miao, "Quay crane scheduling with handling priority in port container terminals". OPTIMIZATION, 40, no. 2 (2008): 179-189. (United Kingdom).
7. Lee, D H, W Bian and M Dong, "Multiproduct distribution network design of third party logistics providers with reverse logistics Operations". TRANSPORTATION RESEARCH RECORD, 2008 (Freight Systems) (2008): 26-33. (United States).
8. Lee, D H, M Dong, W Bian and Y J Tseng, "Design of product recovery network design under uncertainty". TRANSPORTATION RESEARCH RECORD, 2008 (Freight Systems) (2008): 19-25, 7. (United States).
9. Lee, D H, H Q Wang and L X Miao, "Quay crane scheduling with non-interference constraints in port container terminals". TRANSPORTATION RESEARCH PART E-LOGISTICS AND TRANSPORTATION REVIEW, 44 (2008): 124-135. (United Kingdom).
10. Lee, D H, Z Cao and Q Meng, "Scheduling of two-transtainer systems for loading outbound containers in port container terminals". INTERNATIONAL JOURNAL OF PRODUCTION ECONOMICS, 107 (2007), no. 1 (May) (2007): 115-124. (Netherlands).
11. Ng, S.T., R L Cheu and D H Lee, "Simulation evaluation of the benefits of real-time traffic information to trucks during incidents". ITS Journal, 10, no. 2 (Apr-Jun 2006): 89-99. (United States).
12. Lee, D H, W Zheng and Q X Shi, "Short-term freeway traffic flow prediction using combined neural network model". JOURNAL OF TRANSPORTATION ENGINEERING-ASCE, 132, no. 2 (2006): 114-121. (United States).
13. Lee, D H, L Wu and Q Meng, "Equity based land-use and transportation problem". JOURNAL OF ADVANCED TRANSPORTATION, 40, no. 1 (Winter 2006): 75-93. (United States).
14. Meng, Q, D H Lee and R L Cheu, "The multiobjective vehicle routing and scheduling problem with time window constraints in hazardous material transportation." JOURNAL OF TRANSPORTATION ENGINEERING-ASCE, 131, no. 9 (2005): 699-707. (United States).
15. Meng, Q, D H Lee and R L Cheu, "Counting the different efficient paths for transportation networks and its applications". JOURNAL OF ADVANCED TRANSPORTATION, 39, no. 2 (2005): 193-220. (United States).