Ching-Hui Tang

Associate Professor

Department of Transportation Science, National Taiwan Ocean University

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Research • Transportation

Interests • Airline/Airport Operations and Management

• Transportation Network Design

Expertise • Operations Research

• Stochastic Programming

Education

- Ph.D., National Central University, Chung-Li, Taiwan, 2002/8 2006/7
 Transportation Engineering, Department of Civil Engineering
 Dissertation: A Solution Approach for Planning Problems under Stochastic
 Disturbances
- M.S., National Central University, Chung-Li, Taiwan, 1998/8 2000/7
 Transportation Engineering, Department of Civil Engineering
 Thesis: Airport Common Use Check-in Counter Assignment Problems
- B.A., Tamkang University, Tamsui, Taiwan, 1994/8 1998/7
 Department of Transportation Management

Professional

• Associate Professor (2014/2-present)

Experience

Department of Transportation Science, National Taiwan Ocean University

- Assistant Professor (2012/2-2014/1)
 Department of Transportation Science, National Taiwan Ocean University
- Associate Professor (2010/2-present)
 Department of Air Transportation, Kainan University
- Assistant Professor (2007/8-2010/2)
 Department of Air Transportation, Kainan University
- Assistant Professor (2006/8-2007/7)

Department of Aviation Service Management, Aletheia University on Matou campus

Honors and

• MOST Distinguished Researcher Award (2015-present)

Awards

Ministry of Science and Technology, Taiwan

• Best Master Theory Award (2019)

Operations Research Society of Taiwan (ORSTW)

• Best Paper Award-Civil Aviation and Technology (2019)

The 2019 International Conference and Annual Meeting of the Chinese Institute of Transportation

• Excellent Paper (Field of Air Transportation) (2018)

2018 World Transport Convention (WTC), Beijing

• Quality Master Theory Award (2016)

Operations Research Society of Taiwan (ORSTW)

• Best Paper Award (2012)

The 2012 International Conference and Annual Meeting of the Chinese Institute of Transportation

• Outstanding Teaching Award (2015)

College of Maritime Management, National Taiwan Ocean University

• NSC Award for Excellent Junior Researcher (2008, 2009, 2010)

National Science Council, Taiwan

• Best Dissertation Award (2006)

Operations Research Society of Taiwan (ORSTW)

• Presidential Scholarship (2005)

National Central University, Taiwan

• Ph.D. Candidate Fellowship Award (2004)

Sinotech Foundation for Research & Development of Engineering Sciences & Technologies, Taiwan

• Ph.D. Scholarship Fellowship Award (2003)

Sinotech Engineering Consultant, Inc., Taiwan

International 1.

1. <u>Ching-Hui Tang</u> (2019) Optimization for transportation outsourcing problems,

Journal Computers & Industrial Engineering, (Published online). (SCI)

Papers 2. Ching-Hui Tang* and Chen-Yi Yen (2019) Airline unit load device

- dispatching considering service level and violation days, *Journal of Air Transport Management*, Vol. 79 (Article 101685), pp. 1-14. (SSCI) *Corresponding author
- 3. <u>Ching-Hui Tang*</u> and I-Shan Hsu (2019) Manpower supply planning for aircraft line maintenance under stochastic incidents, *Journal of the Chinese Institute of Engineers*, Vol. 42 (4), pp. 333-345. (SCI) *Corresponding author
- 4. Ching-Cheng Chao, <u>Ching-Hui Tang*</u>, and Ya-Hsin Hsiao (2019) Planned gate and runway assignments considering carbon emissions and costs, *International Journal of Sustainable Transportation*, (Published online). (SSCI) *Corresponding author
- 5. <u>Ching-Hui Tang</u> (2018) Two-stage stochastic modeling of transportation outsourcing plans for transshipment centers, *4OR-A Quarterly Journal of Operations Research*, Vol. 16 (1), pp. 67-94. (SCI)
- 6. <u>Ching-Hui Tang*</u> and Yueh-Ling Hsu (2016) Airline flight scheduling for oligopolistic competition with direct flights and a point to point network, *Journal of Advanced Transportation*, Vol. 50 (8), pp. 1942–1957. (SCI) *Corresponding author
- 7. <u>Tang, Ching-Hui*</u> and Hsin-Ta Huang (2016) Integrating fleet replacement and pilot training schedules for airborne service helicopters, *Journal of the Chinese Institute of Engineers*, Vol. 39, 6, pp. 653-665 (SCI) *Corresponding author
- 8. Huang, Shan-Huen, Ta-Hui Yang, and <u>Ching-Hui Tang*</u>, (2014) "Fleet size determination of a truckload distribution center," *Journal of Advanced Transportation*, Vol. 48, 5, pp. 377–389 (SCI). *Corresponding author
- 9. Yan, Shangyao, <u>Ching-Hui Tang</u>*, Jun-Hsiu Chen (2014), "Common-use check-in counter reassignments with a variable number of service lines and variable length of time window" *Journal of the Chinese Institute of Engineers*, Vol. 37, 5, pp. 643–658, (SCI) *Corresponding author
- 10. <u>Tang, Ching-Hui*</u> and Wei-Chung Wang (2013), "Airport gate assignments for airline-specific gates" *Journal of Air Transport Management*. Vol. 30 (July), pp. 10–16. (SSCI) *Corresponding author
- 11. <u>Tang, Ching-Hui</u> (2013), "A replacement schedule model for airborne service helicopters", *Computers & Industrial Engineering*. Vol. 64, 4, pp. 1061–1073 (SCI and EI)

- 12. Yan, Shangyao, <u>Ching-Hui Tang</u>*, Yu-Zhou Hou (2011), "Airport gate reassignments considering deterministic and stochastic flight departure/arrival times," *Journal of Advanced Transportation*. Vol. 45, 4, pp. 304-320. (SCI)*Corresponding author
- 13. <u>Tang, Ching-Hui</u> (2011), "A gate reassignment model for the Taiwan Taoyuan Airport under temporary gate shortages and stochastic flight delays," *IEEE Transactions on Systems, Man, and Cybernetics, Part A.* Vol. 41, 4, pp. 637-650. (SCI and EI)
- 14. <u>Tang, Ching-Hui</u> (2011), "A scenario decomposition-genetic algorithm method for solving stochastic air cargo container loading problems," *Transportation Research Part E*, Vol. 47, 4, pp. 520-531. (SSCI, SCI and EI)
- 15. <u>Tang, Ching-Hui</u> (2010), "A network model for airport common use check-in counter assignments," *Journal of the Operational Research Society*, Vol. 61, 11, pp.1607-1618. (SSCI and SCI)
- 16. <u>Tang, Ching-Hui</u>, Shangyao Yan, Yu-Zhou Hou (2010), "A gate reassignment framework for real time flight delays," *4OR*, Vol. 8, 3, pp. 299-318 (SCI)
- 17. <u>Tang, Ching-Hui</u>, Shangyao Yan, Chia-Wei Chang, (2009), "Short-term work team scheduling models for effective road repair and management," *Transportation Planning and Technology*, Vol. 32, 3, pp. 289-311. (SCI)
- 18. Yan, Shangyao and <u>Ching-Hui Tang</u> (2009), "Inter-city bus scheduling under variable market share and uncertain market demands," *Omega- The International Journal of Management Science*, Vol. 37, 1, pp. 178-192. (SSCI)
- 19. Yan, Shangyao, Chun-Ying Chen and <u>Ching-Hui Tang</u> (2009), "Gate Reassignment Following Temporary Airport Closures," *Transportmetrica*, Vol. 5, 1, pp. 25 41 (SSCI and SCI).
- 20. <u>Tang, Ching-Hui</u>, Shangyao Yan and Yu-Hsuan Chen,(2008),"An integrated model and solution algorithms for passenger, cargo, and combi flight scheduling," *Transportation Research Part E*, Vol. 44, 6, pp. 1004-1024. (SSCI, SCI and EI)
- 21. Yan, Shangyao and <u>Ching-Hui Tang</u>, (2008), "An integrated framework for inter-city bus scheduling under stochastic bus travel times," *Transportation Science* Vol. 42, 3, pp. 318-335 (SSCI, SCI and EI).
- 22. Yan, Shangyao, <u>Ching-Hui Tang</u> and Chun-Hao Chen (2008), "Reassignments of common-use checking counters following airport incidents," *Journal of*

- Operational Research Society, Vol. 59, 8, pp.1100–1108 (SSCI, SCI)
- 23. Yan, Shangyao, <u>Ching-Hui Tang</u> and Tseng-Chih Fu, (2008), "An airline scheduling model and solution algorithms under stochastic demands," *European Journal of Operational Research*, Vol. 190, 1, pp. 22-39. (SCI and EI)
- 24. Yan, Shangyao, Yu-Jung Tung, and <u>Ching-Hui Tang</u> (2007), "An inter-city bus scheduling model incorporating variable market share," *IEEE Transactions on Systems, Man, and Cybernetics, Part A.* Vol. 37, 6, pp. 921-932.(SSCI and EI)
- 25. <u>Tang, Ching-Hui</u> and Shangyao Yan (2007), "A routing and scheduling framework incorporating real-time adjustments for inter-city bus carriers under stochastic travel times and demands" *Journal of the Chinese Institute of Engineers*, Vol. 30, 4, pp. 635-649. (SCI, EI)
- 26. Yan, Shangyao and <u>Ching-Hui Tang</u> (2007) "A heuristic approach for airport gate assignments for stochastic flight delays," *European Journal of Operational Research*, Vol. 180, 2, pp. 547-567. (SCI and EI)
- 27. Yan, Shangyao, <u>Ching-Hui Tang</u> and Ming-Chei Lee (2007), "A flight scheduling model for Taiwan airlines under market competitions," *Omega-The International Journal of Management Science*, Vol. 35, 1, pp. 61-74 (SSCI).
- 28. Yan, Shangyao, Chin-Jen Chi, and <u>Ching-Hui Tang</u> (2006), "Inter-city bus routing and timetable setting under stochastic demands," *Transportation Research A*, Vol. 40, 7, pp. 572-586. (SSCI, SCI and EI).
- Yan, Shangyao, <u>Chin-Hui Tang</u> and Chong-Nan Shieh (2005), "A simulation framework for evaluating airline temporary schedule adjustments following incidents," *Transportation Planning and Technology*, Vol. 28, 3, pp.189-211. (SSCI, SCI and EI).
- 30. Yan, Shangyao, Kai-Cheng Chang and <u>Chin-Hui Tang</u> (2005), "Minimizing inconsistencies in airport common-use checking counter assignments with a variable number of counters," *Journal of Air Transport Management*, Vol. 11, 2, pp.107-116. (SSCI).
- 31. Yan, Shangyao, <u>Chin-Hui Tang</u> and Miawjane Chen (2004), "A model and a solution algorithm for airport common use check-in counter assignments," *Transportation Research Part A*, Vol 38, 2, pp.101-125. (SSCI, SCI and EI)

Projects

- 1. Airline unit load device dispatching in planning and real-time Stages, Ministry of Science and Technology, Taiwan (MOST 108-2221-E-019 -005 -MY2), Principal Investigator, 2019/8-2021/7.
- Optimization of numbers of self-run and outsourced trips for home delivery carrier considering stochastic demands and feasibility, Ministry of Science and Technology, Taiwan (MOST 106-2410-H-019 -021 -MY2), Principal Investigator, 2017/8-2019/7.
- 3. Short-term dispatching and scale problem for airline unit load device considering variable and stochastic demands, Ministry of Science and Technology, Taiwan (MOST 105-2410-H-019-017), Principal Investigator, 2016/8-2017/7.
- 4. The fleet scale model for low temporary home-delivery, Industrial Technology Research Insitute, Principal Investigator, , 2014/10/20-2014/12/20
- Airline manpower supply for aircraft line maintenance under stochastic demands, Ministry of Science and Technology, Taiwan (MOST 103-2410-H-019 -016 -MY2), Principal Investigator, 2014/8-2016/7
- 6. Airline ULD inventory and dispatch , Co-Investigator , China Airlines , 2013/9/12-2015/3/11 °
- Dynamic Airline Scheduling considering Variations of Passenger Demands and Competitor Timetables, National Science Council, Taiwan (NSC 102-2410-H-019 -014), Principal Investigator, 2012/8-2013/7
- Multiple-objective helicopter feet planning considering pilot training scheduling , National Science Council, Taiwan (NSC 101-2410-H-019 -026), Principal Investigator, 2011/8-2012/7
- Gate assignments following the trend towards airport privatization, National Science Council, Taiwan (NSC 100-2410-H-424 -016), Principal Investigator, 2011/8-2012/7
- A scenario decomposition method for solving stochastic programming problems, National Science Council, Taiwan (NSC99-2410-H-424-013), Principal Investigator, 2010/8-2011/7 (NSC Award for Excellent Junior Researcher)
- 11. Optimization of rescue helicopter fleet planning, National Science Council, Taiwan (NSC99-2410-H-424-015), Principal Investigator, 2010/8-2011/7
- 12. Integrated models and solution algorithms for gate assignments under

- stochastic airport flight delays, National Science Council, Taiwan (97-2628-H-424-001-MY2), Principal Investigator, 2008/8-2010/7 (NSC Award for Excellent Junior Researcher)
- 13. An analysis of competition strategy on tourism-oriented casino in Taiwan, Council for Economic Planning and Development, Executive Yuan, (cepd97031), Researcher, 2008/8-2009/1
- An optimization fleet planning model for national airborne service corps, National Airborne Service Corps, Ministry of Interior, (C-9706028), Co-Investigator, 2008/8-2008/12
- 15. Dynamic airport gate reassignments under stochastic flight delays, National Science Council, Taiwan (96-2415-H-424-003), Principal Investigator, 2007/8-2008/7
- A network model for short-term airport common use check-in counter assignments with the minimization of the number of counters, Undergraduate Student Project, National Science Council, Taiwan (96-2815-C-156-004-H), 2007/7-2008/2
- 17. Optimization of gate reassignments for temporary gate shortages, Undergraduate Student Project, National Science Council, Taiwan (96-2815-C-156-001-E), 2007/7-2008/2
- 18. Real-time adjustments for aircraft short-term maintenances, Undergraduate Student Project, National Science Council, Taiwan (96-2815-C-156-005-H), 2007/7-2008/2

Refereed Conference Papers

- Yu-Yang Chen , Ping-Hsuan Hsieh, and <u>Ching-Hui Tang</u> (2019) Airline unit load device re-dispatching under stochastic demands, Global Engineering & Applied Science Conference (GEASC) 2019, August 27-29, Tokyo.
- Yun-Chia Hsieh, Pao-Ying Chu, and <u>Ching-Hui Tang</u> (2019) Airline unit load device dispatching considering SKYPOOLING platform, Global Engineering & Applied Science Conference (GEASC) 2019, August 27-29, Tokyo.
- 3. Ping-Hsuan Hsieh and <u>Ching-Hui Tang</u> (2019) Airline unit load device re-dispatching under stochastic demands, 10th International Forum on Shipping, Ports and Airports (IFSPA) 2019, May 20-24, Hong Kong.
- 4. Pao-Ying Chu, <u>Ching-Hui Tang</u>, Yueh-Ling Hsu, and Chen-Yi Yen (2018) Airline unit load device dispatching considering service level and violation

- days, 2018 World Transport Convention 2018 (WTC), June 17-20, Beijing.
- 5. <u>Ching-Hui Tang</u> and Yi-Wen Wang (2017) Short-term transportation outsourcing plans for transshipment centers under stochastic demands, 12th EAST international conference for Eastern Asia Society for Transportation Studies, September 18-21, Ho Chi Minh, Vietnam.
- 6. I-Shan Hsu and <u>Ching-Hui Tang</u>, (2016), Manpower supply planning for aircraft line maintenance considering uncertain demands, LMS on One Belt One Road 2016, May 10-11, Hong Kong.
- 7. Chen-Yi Yen and <u>Ching-Hui Tang</u>, (2016), Daily dispatching and scale for airline ULDs under variable and stochastic demand, LMS on One Belt One Road 2016, May 10-11, Hong Kong.
- 8. Chia-Hao Hsu, Yueh-Ling Hsu, and <u>Ching-Hui Tang</u>, (2016), The intentions of customers who purchase flight tickets online through official website of airline, LMS on One Belt One Road 2016, May 10-11, Hong Kong.
- 9. <u>Ching-Hui Tang, Chen-Yi Yen, I-Shan Hsu (2015)</u> "A flight scheduling model and solution algorithm under oligopolistic competition," 2015 Conference and Annual Meeting of Chinese Institute of Transportation, Keelung, Taiwan.
- 10. <u>Tang, Ching-Hui</u> and Yueh-Ling Hsu, (2015), An integrated framework for airline timetable planning considering competitors' behavior and multiple travel times, 2015 ATRS World Conference, July 2 5, Singapore.
- 11. <u>Tang, Ching-Hui</u> \ I-Shan Hsu \ Wang Shau Yu (2014) \, Temporary manpower supply model for aircraft line maintenance considering uncertain demands, ORSTW 2014 Conference and Annual Meeting, Keelung, Taiwan.
- 12. <u>Tang, Ching-Hui</u> · Yueh-Ling Hsu · Wang Shau Yu (2014), Safety stock of airline unit load devices—integrating of ANOVA and sensitivity analysis, 2014 Conference and Annual Meeting of Chinese Institute of Transportation, Nantou, Taiwan. •
- 13. <u>Tang, Ching-Hui</u> · I-Shan Hsu · Wang Shau Yu (2014), A model for aircraft line maintenance manpower supply considering uncertain demands, 2014 Conference and Annual Meeting of Chinese Institute of Transportation, Nantou, Taiwan.
- 14. Yueh-Ling Hsu, Wen-Chin Li, <u>Ching-Hui Tang</u> (2013), The use of eye tracking in the study of airline cabin safety communication, 15th International Conference on Human-Computer Interaction (HCI International 2013), July

- 21-26, Las Vegas, USA
- Ching-Hui Tang, Yu-Tung Kuan (2012), Airline timetable setting considering competitive behaviors, 2012 Conference and Annual Meeting of Chinese Institute of Transportation, Tainan, Taiwan.
- Tang, Ching-Hui (2011), Rescue helicopter replacement scheduling in Taiwan,
 International Conference on Civil Engineering and Building Materials,
 July 23-25, Kunming, China.
- 17. <u>Tang, Ching-Hui</u>, Hsin- Ta Huang, and Wei-Chung Wang (2011), Yu Tung-Kuan "Rescue helicopter fleet planning considering pilot training," ORSTW 2011 Conference and Annual Meeting, Taipei, Taiwan.
- 18. <u>Tang, Ching-Hui</u>, Hsin- Ta Huang, and Wei-Chung Wang (2010), "A optimization model for rescue helicopter fleet planning," 2010 Conference and Annual Meeting of Chinese Institute of Transportation, Taichung, Taiwan.
- 19. <u>Tang, Ching-Hui</u>, Wei-Chung Wang, and Hsin- Ta Huang (2010), "Flight to gate assignments considering connecting flights," 2010 Conference and Annual Meeting of Chinese Institute of Transportation, Taichung, Taiwan.
- 20. <u>Tang, Ching-Hui</u>, Shangyao Yan, Yu-Zhou Hou (2010), "A dynamic algorithm for gate assignments under varied flight delay information," Proceeding of 2010 International Conference on Information and Applied Electronics ICIAE 2010, July 9-11, Chengdu, China. (EI)
- 21. <u>Tang, Ching-Hui</u> and Hsin-Wei Chang (2010), "Optimization of stochastic cargo container loading plans for air express delivery," Proceedings of 2010 International Conference on Traffic and Logistic Engineering, April 23- 25, Bangkok, Thailand. (EI)
- 22. Sheu, Tsing-Shien and <u>Ching-Hui Tang</u> (2010), "A study of air cargo demand prediction of Taiwan Taoyuan Airport", 2010 CJCU Conference on Marine and Air Transportations, Tainan.
- 23. <u>Tang, Ching-Hui</u> (2009) "Real-time gate assignments under temporary gate shortages and stochastic flight delays," Proceedings of 2009 IEEE International Conference on Service Operations, Logistics and Informatics, July 22 24, Chicago, IL, USA. (EI)
- 24. <u>Tang, Ching-Hui</u> and Shi-Yu Jian (2009), "A violation design for airport gate reassignments," ORSTW 2009 Conference and Annual Meeting, Hsinchu,

Taiwan

- 25. <u>Tang, Ching-Hui</u> and Shi-Yu Jian (2009), "Flight gate rescheduling under temporary gate shortages and stochastic flight delays," 2009 Conference and Annual Meeting of Chinese Institute of Transportation, Taoyuan, Taiwan.
- 26. <u>Tang, Ching-Hui</u> and Shi-Yu Jian (2009), Robust optimization of airport gate assignments, 7th Ten School Alliance Conference on Shipping Management and Logistic 2009, Taipei, Taiwan
- 27. Tang, Ching-Hui (2008), "The optimization of airport common use check-in counter assignments with the minimization of the number of counters," 2008 Conference and Annual Meeting of Chinese Institute of Transportation, Kaohsiung, Taiwan
- 28. <u>Tang, Ching-Hui</u>, Shangyao Yan , and Yu-Zhou Hou (2008) "A dynamic framework and model for airport gate reassignments under varied flights' departure/arrival times" International Conference on Modelling, Identification and Control, June 29 July 2, 2008 Shanghai, China.
- 29. <u>Tang, Ching-Hui</u> (2007) "Minimum airport gate number assignments considering robust optimization" 2007 Conference on Aviation Innovation, Tainan, Taiwan
- 30. <u>Tang, Ching-Hui</u> and Shangyao Yan (2007) "An Integrated Framework for Airport Gate Assignments under Stochastic Flight Delays" 2007 Conference on Aviation Innovation, Tainan, Taiwan
- 31. <u>Tang, Ching-Hui</u>, Shangyao Yan , and Yu-Zhou Hou (2007) "A dynamic framework for gate reassignment under flight delays", ORSTW 2007 Conference and Annual Meeting, Hualien, Taiwan
- 32. Chen, Chun-Ying, <u>Ching-Hui Tang</u> and Shangyao Yan (2006) "A gate assignment model for temporary airport closure," INFORMS International Hong Kong 2006, Hong Kong.
- 33. <u>Tang, Ching-Hui</u> (2006) "A solution approach for planning problems under stochastic disturbances" ORSTW 2006 Conference and Annual Meeting, Taoyuan, Taiwan
- 34. Yan, Shangyao, Yu-Hsuan Chen, <u>Ching-Hui Tang</u>, and Yuping Tu (2005) "A model for airline passenger and cargo flight scheduling," 1st International Conference on Transportation Logistics, Singapore.
- 35. Yan, Shangyao, Ching-Hui Tang and Ming-Chei Lee (2004), "An optimization

- model for airline flight scheduling under variable demands," Optimization 2004, Lisbon, Portugal.
- 36. Yan, Shangyao and Ching-Hui Tang (2004), \(^\text{Airport gate assignments under stochastic flight delays, 2004 Conference and Annual Meeting of Chinese Institute of Transportation, Tainan, Taiwan
- 37. Yan, Shangyao, Chih-Hwang Tseng, <u>Chin-Hui Tang</u>, and Tseng-Chih Fu (2004) "An airline scheduling model and an evaluation method under stochastic demands" ORSTW 2004 Conference and Annual Meeting, Taipei, Taiwan
- 38. Yan, Sangyao, <u>Chin-Hui Tang</u>, and Ming-Chei Lee (2004) "A network flow model for airline flight scheduling under market competitions," International Conference on Analysis and its Applications, Changhua, Taiwan.
- 39. <u>Tang, Chin-Hui</u>, Shangyao Yan, Ta-Hui Yang and Chong-Lan Shieh (2003), "A simulation framework for evaluating airline recovery scheduling," 12th INFORMS/APS CONFERENCE, Beijing, China.
- 40. Chen, Miawjane, Shangyao Yan, and <u>Chin-Hui Tang</u> (2003), "A model for optimizing airport common use check-in counter assignments," 12th INFORMS/APS CONFERENCE, Beijing, China.
- 41. Yan, Shangyao, Chin-Jen Chi, and <u>Ching-Hui Tang</u> (2003), "Inter-city bus routing and timetable setting under stochastic demands," Proceeding of 2003 Conference and Annual Meeting of Chinese Institute of Transportation, Hsinchu, Taiwan, pp. 246-255.
- 42. Yan, Shangyao, Ming-Chei Lee, and <u>Ching-Hui Tang</u> (2002), "Airline flight routing and timetable setting with variable market shares," Proceeding of 2002 Conference and Annual Meeting of Chinese Institute of Transportation, Chiayi, Taiwan, pp. 145-155.
- 43. Yan, Shangyao and <u>Ching-Hui Tang</u> (2001), "Airport common use check-in counter assignments," Proceeding of 2001 Conference and Annual Meeting of Chinese Institute of Transportation, Taipei, Taiwan, pp. 793-802.