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Research Interests

Intelligent Transportation Systems, Transportation Planning, Projects Evaluation, Logistics and Behavior Analysis, Traffic Engineering.

Education

Ph.D., Institute of Transportation, National Chiao Tung University, Taiwan

Master's degrees, Institute of Transportation, National Chiao Tung University,
Taiwan

Bachelor's degrees, Department of Civil Engineering, Chung Yuan University,
Taiwan

Work Experience

08/2002~Present **Assistant Professor**, Department of Transportation Science,
College of Maritime Science and Management, National
Taiwan Ocean University

08/2000~08/2002 **Assistant Professor**, Chung Yu University

12/1997~08/2000 **Researcher**, Institute of Transportation, Ministry of
Transportation and Communications

05/1988~12/1998 **Associate Engineer**, Department of Transportation, Taipei
City Government

Publications (journal)

1. Tsan-Huang Huang, Hsing-Wei Huang, Yen-Chieh Tseng, The Study for Effectiveness of the Aviation Security, Management Information Computing, 2019/SP 8(2), 93-101.
2. Tsan-Huang Huang, Yu-Chen Huang, Chao-Yi Huang, and Shi-Yi Fu, Game-theoretic modeling on ship safety inspection, Journal of Maritime Science, Vol. 25, pp.129-140, 2016.

3. Tsan-Huang Huang, Hui-Ling Chen, Shu-Ning Huang, Hsiang-ting Chien, The Study of Developing and Operating of Night Tourism Bus, *Journal of Tourism and Leisure Management*, 2016 4(S), 141-149.
4. Tsan-Huang Huang, Jin-Ting Lin, The Forward and Reverse Logistics Integration of Electronic Products, *Management Information Computing*, 2016/SP 5(S2), 129-138.
5. Tsan-Huang Huang, Ruo-Yu Hu, Yun-Chen Liu, Chiung-Yu Chao, Jia-Wen Zheng, A study on the distribution of the cargo capacity of Asia Europe Lines, *Management Information Computing*, 2016/SP 5(S2), 204-213.
6. Tsan-Huang Huang, Shi-Yi Fu, Yu-Chen Huang, Chao-Yi Huang, Yun-ChungTsai, The transportation indexes for passenger ship between both sides of the Taiwan Strait, *Journal of Marine Technology Quarterly*, 2015, NO.4, 11-22.
7. Tsan-Huang Huang, Li-Hsiang Cho, The Analysis of Two-Port Shuttle Routing transportation under the capacity constraints, *Management Information Computing*, 2015/ 4(S2), 68-78.
8. Tsan-Huang Huang, Yu-Chen Huang, Chao-Yi Huang, and Shi-Yi Fu, Study of Changing on Ship Safety Inspection Data, *Management Information Computing*, 2015/ 4(S1), 117-124.
9. Tsan-Huang Huang, Yu-Chen Huang, Chih-Chieh Yang, Han-Jun Yan, Yu-Tsen Chuang, Tzu-Yu Lin, Study of Maritime Hub-and-Spoke Transferring Lines, *Management Information Computing*, 2015/ 4(S2), 163-171.
10. Tsan-Huang Huang, Yu-Chen Huang, Chao-Yi Huang, Hsien-Chung Kuo, Kok-Keong Yong, Wei-Yao Wang, Logistics Assignment on the Changeable Demand and Supply, *Management Information Computing*, 2015/ 4(S1), 194-201.
11. Tsan-Huang Huang, Yu-Chun Huang, Yun-ChungTsai, Chien-Yun Chen, Hsiang-Ting Chien, I-Rong Wu, Study for Integrating and Reeducation of Taxi, *Journal of Tourism and Leisure Management*, 2014 2(S), 75-85.
12. Tsan-Huang Huang, Sheng-Long Kao, Chih-Chieh Yang, Feasibility Study of Changeable Pavement Markers, *Management Information Computing*, 2014/ 3(1), 46-53.
13. Tsan-Huang Huang, Yun-Chung Tsai, Exclusive Bus Lanes on Highway: Case Study in Taiwan, *Management Information Computing*, 2014/ 3(1), 77-86.

14. Tsan-Huang Huang, Chun-Hui Hsu , Yi-An Chen , Guan-Jie Wang , Si-Bing Jou , Yu-Chun Huang , Behavior Based on Information from Pedestrian Countdown Timers, *Journal of Traffic Science* , 13(2), 2013, 181-198.
15. Cherng-Yuan Lin, Tsan-Huang Huang, Evaluation of Cost-benefits of Using Biodiesel as Alternative Fuel of Taiwanese Fishing Boats, *Marine Policy* 36 (2012 January) 103-107.
16. Tsan-Huang Huang, Cheng-Hsin Kuo, The Short-Term Forecasting of Container Throughput in Taiwan, *Maritime Quarterly*, 21(3), 2012, 97-118.
17. Tsan-Huang Huang, Er-You Tu , Hsiao-Chan Lee, Wei-Ting Wang, The study of the maritime investigating mechanism, *Journal of Maritime Science*, 20(1), 2011, 45-64.
18. Tsan-Huang Huang, “MODELING LEVEL OF SERVICE ON PEDESTRIAN ENVIRONMENT”, *Journal of the Eastern Asia Society for Transportation Studies*, 2007.
19. Tsan-Huang Huang, “A Method for Predicting Psychological Response to Random Image when Detecting to Traffic Flow Based on a Bi-Variate Membership Function ” , *Journal of the Eastern Asia Society for Transportation Studies*, Vol. 6, pp1904-1913, 2005.
20. Tsan-Huang Huang, “ESTIMATING THE SAFETY PERFORMANCE OF URBAN ROAD TRANSPORTATION NETWORKS PATTERN” , *Journal of the Eastern Asia Society for Transportation Studies* Vol. 6, pp4411-4421, 2005.
21. Tsan-Huang Huang, “TRAFFIC CONTROL DESIGN, WITH SHOCK WAVE PROCESSING”, *Journal of the Eastern Asia Society for Transportation Studies* Vol. 4, pp1911-1924, 2003.

Publications (in refereed conference proceedings)

1. Tsan-Huang Huang, Yu-Chen Huang, Chao-Yi Huang, and Shi-Yi Fu, Q-learning Approach in Ship Safety Inspection Data, The 11th Asia Pacific Transportation Development Conference and 29th ICTPA Annual Conference, May27~29, 2016, Hsinchu, Taiwan.
2. Tsan-Huang Huang, Tzay-An Shiau and Yu-Chen Huang, A cooperative game with incomplete information among container terminals of one port, THE IAME 2012 CONFERENCE, 6 – 8 SEPTEMBER, 2012, TAIPEI, TAIWAN.
3. Tsan-Huang Huang, Po-chi CHu and Hsuan-Pu Hsu, Rationalization of

management strategies for ocean deck officers in Taiwan, THE IAME 2012 CONFERENCE, 6 – 8 SEPTEMBER, 2012, TAIPEI, TAIWAN.

4. Tsan-Huang Huang, The exhaust emission reducing of electronic fuel injection motorcycles in Taiwan, 2011 International Conference on Aerosol Science and Technology, 2011.
5. Tsan-Huang Huang, Cheng-Wei WU, Modeling container feeder services on railway in Taiwan, Proceedings of the Eastern Asia Society for Transportation Studies, October, 2003 .
6. Tsan-Huang Huang, Tsan-Huang, RANDOMIZED OSCILLOGRAM DETECTION ALGORITHM FOR TRAFFIC SIGNALS, Proceedings of the Eastern Asia Society for Transportation Studies, October, 2003.
7. Tsan-Huang Huang, “The Design of Intelligent Transportation Management with On-Demand Graphical Meshless Processing”, Proceedings of the 6th Asia-Pacific ITS Forum & Exhibitions, June, 2003.

Honors and Awards

Best Paper- 2013 Forum for Shipping Across Taiwan Strait (December 10-13 2013)

Excellent Paper- 2012 Maritime Quarterly

ETC Best Paper- 2006 The first college Traffic Engineering and Intelligent Transportation System Competition Conference

Professional Services

1. Reviewer of Transportation Research Part F: Traffic Psychology and Behaviour (2014~2016)
2. Reviewer of Maritime Policy and Management (2016)
3. Reviewer of Advances in Economics and Business (2016-2019)
4. Reviewer of Journal of the Chinese Institute of Engineers (2018)
5. Reviewer of Journal of Transportation Planning Journal(2016-2018)

Advisor of Master’s Dissertation

1. The Effects of Airport Food Court and the Associated Commercial Space on Passenger Behavior Intention: A Case Study of Taoyuan Airport. (Yu-Ting Tsai, 2018)
2. Taoyuan International Airport Passenger Mode Choice Preference -A case

- study for the immigration travelers. (Chun-Yu Hsu, 2018)
3. Combining Two-Stage Cluster Analysis and Decision Tree Algorithm to Marine Accidents Identification Model. (Wei-Jen Chien, 2017)
 4. Logistics Network Design and Carbon Footprint Analysis. (Yun-Yi Chung, 2016)
 5. Using multi-activity network DEA model to measure the operational performance of demand responsive transit system – A case study of America. (Nai-Tzu Yeh, 2016)
 6. Enhancing Ship Safety Inspection by Using the Q-Learning method. (Chao-Yi Huang, 2015)
 7. Combining WOIS, TRIZ Method to Improve Pavement Markers Designing. (chih-chieh Yang, 2015)
 8. A Study of Willingness to Pay for On-Board Diagnostics of Fuel-injected Motorcycle. (Chun-Hui Hsu, 2013)
 9. The Study of the Traffic Violation Appeal --Case Study for Keelung Motor Vehicles Supervision Station. (Po-Chi Chu, 2012)
 10. An Airline Passengers Forecasting of Taiwan. (Chen-Hsin Kuo, 2011)
 11. Applying Structural Equation Models to Study the Influence of Service Quality: A Case Study Based on Home Delivery Service of Undergraduates' Baggage. (Bo-Jhang Wu, 2009)
 12. A Study of Ship Navigation Safety of Main Harbors in Taiwan. (Shao-Hu Tu, 2009)
 13. The study on the parameter combination of Genetic Algorithm using Taguchi Method -- the case of Traveling Salesman Problem. (Yu-Shang Wang, 2006)
 14. The study for the efficiency of MRT station. (Jr-Chiun Chen, 2006)
 15. The Study of the Traffic Violation Appeal --Case Study for Keelung Motor Vehicles Supervision Station. (Cheng-Wei Wu, 2005)