

Breakout Sessions

Day 1 Session 1A (Sep 7, Wed.) 13:40-15:20

Location: Conference Hall (1F)

Topic: Logistics Policy Chair: Hidekazu Ito

- A25 Sununta Charoenpanyaying *Transportation Institute, Thailand*
Government Policies and Legal Factors that Affect Coastal Transportation in Thailand
- A60 Chhorn Vuchlung, Jaruwit Prabnasak *King Mongkut's Institute of Technology
Ladkrabang, Thailand*
An Evaluation of the Truck Ban Regulation and Suburban Truck Terminal Implementation Scheme in Regional Cities of Thailand: A Case Study of Khon Kaen City, Thailand
- P08 Takeshi Kenmochi, Hideki Oka, *The Institute of Behavioral Sciences, Japan*
Ryota Tani, Yasukatsu Hagino
Atsushi Doi, Kotaro Endo *Litec Co.,Ltd, Japan*
Urban Freight Survey and Policy Measures with Respect to Urban and Transport Planning in Tokyo Metropolitan Area
- A56 Hideki Oka, Yasukatsu Hagino, *The Institute of Behavioral Sciences, Japan*
Takeshi Kenmochi, Ryota Tani
Ryuta Nishi, Kotaro Endo *Litec Co.,Ltd, Japan*
An analysis of Truck Route Choice Behavior Based on the 5th Tokyo Metropolitan Freight Survey Data
- A88 Wen-Chih Chen, *National Chiao Tung University, Taiwan*
Che-Ping Jack Su, Mary Margaret Rogers *University of New Mexico, USA*
Comparing National Transportation Systems Performance: Economic, Ecological and Social Perspectives

Day 1 Session 1B (Sep 7, Wed.) 13:40-15:20

Location: Conference Room 4 (1F)

Topic: City Logistics (1) Chair: I-Lin Wang

- A11 Tadashi Yamada *Kyoto University, Japan*
Modelling Supply Chain Network Equilibrium with the Behaviour of Multi-tiered Material Suppliers
- A10 Zujian Wang, Mingyao Qi, Yang Yu *Tsinghua University, China*
A Branch-and-price Algorithm for Service Network Design with Heterogeneous Vehicles
- A30 Joseph Widagdo, Kuancheng Huang, *National Chiao Tung University, Taiwan*
Andi Cakravastia *Institut Teknologi Bandung, Indonesia*
A Tabu Search Heuristic for the Vehicle Routing and Agent Location Problem
- A01 Huey-Kuo Chen, Huey-Wen Chou, *National Central University, Taiwan*
Che-Fu Hsueh *Chien Hsin University of Science and Technology, Taiwan*
The Auto-carrier Transportation Problem: A Two-stage Heuristic Algorithm
- A23 Chi-Yuan Luo, Ching-Jung Ting *Yuan Ze University, Taiwan*
An Ant Colony Optimization for the Multi-Dock Assignment Problem with Cross-docking

Day 1 Session 1C (Sep 7, Wed.) 13:40-15:20 **Location: Conference Room 201 (2F)**

Topic: Data and Information **Chair: Hong-Seung Roh**

- A83 Liye Zhang, Qiang Meng, Tien Fang Fwa *National University of Singapore, Singapore*
Big AIS-Data Based Spatial-Temporal Analysis of Ship Traffic in Port Waters
- A05 Daisuke Watanabe, *Tokyo University of Marine Science and Technology, Japan*
Hajime Matsui, *Sompo Japan Nipponkoa Insurance Co., Ltd, China*
Daisuke Momota, *Sompo Japan Nipponkoa Insurance Plc., Thailand*
Yuya Ikegai *Sompo Japan Nipponkoa Insurance Inc., Japan*
Evaluation of Shipping Environment using Shock logger and Geographic Information System in India
- A42 Junya Iida, Ruyichi Shibasaki *National Institute for Land and Infrastructure Management, Japan*
Enhancement Strategy for Visualization of Port Logistics Information through Domestic and International Collaborations: In Case of Japan
- A38 Fangping Yu, Haibo Kuang, *Dalian Maritime University, China*
Lushuai Wang *Dongbei University of Finance and Economics, China*
Did Marine Cargo Insurance Promote Import- Export Trade Growth? Evidence from 11 Countries (1992-2014)
- A64 Li-Yen Hsu *China University of Science and Technology, Taiwan*
Re-Featuring Logistics for Utilizing Inherent Resources
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Day 1 Session 2A (Sep 7, Wed.) 15:40-17:20 **Location: Conference Hall (1F)**

Topic: Container Shipping **Chair: Ching-Jung Ting**

- A35 Koji Domaie, Hidenobu Matsumoto *Kobe University, Japan*
Port Cities, Location of Advanced Maritime Producer Services Firms and Economies of Agglomeration: A Case of East Asia
- P19 Thi-Anh-Tam Tran, Mikio Takebayashi *Kobe University, Japan*
How To Coordinate Ports in The Region? An Approach by the Cooperative Game
- P21 Shih-Liang Chao, Bo-Wei Chen, *National Taiwan Ocean University, Taiwan*
Chun-Wei Lai
Comparing the Efficiency Between Alliance Member Liner Carriers and Independent Liner Carriers: An Application of Metafrontier Approach
- P09 Kimata Jun, Choji Makoto *Chuo Fukken Consultants Co., Ltd., Japan*
Mikio Takebayashi *Kobe University, Japan*
Panel Data Analysis on Route Choice Behavior of Japanese Shippers in Japan-ASEAN Transport Market
- P13 Kazuhiko Ishiguro *Kobe University, Japan*
Hiroto Kayano *Nippon Kaiji Kentei Kyokai, Japan*
Shippers' Port Choice Behavior in Rural Area in Japan
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Day 1 Session 2B (Sep 7, Wed.) 15:40-17:20

Location: Conference Room 4 (1F)

Topic: City Logistics (2) Chair: Tadashi Yamada

- A68 Al Hanz Seiji Basa Lidasan, *Tokyo University of Marine Science and Technology, Japan*
Syusaku Umeda, Tetsuro Hyodo
Characteristics of Logistics Facilities Allocation, Size and Truck Generation by Tokyo Metropolitan Area Urban Freight Survey
- A51 Kuancheng Huang, Kun-Feng Wu, *National Chiao Tung University, Taiwan*
Nashir Ardiansyah
A Stochastic Vehicle Routing Problem for Perishable Goods Collection and Delivery
- P14 Chao Hua Chen, Che Cheng Yeh *Chung Hua University, Taiwan*
Optimal VMI Policy And Space Allocation For A Capacitated On-Line Store With Time-Varying Stochastic Demand: A Simulation Approach
- A41 Boliang Lin, Siqi Liu, Chang Liu, *Beijing Jiaotong University, China*
Jiaxi Wang, Jian Li
Ruixi Lin *Stanford University, USA*
A Method to Adjust Freight Flows Between Two Railway Paths Based on the 0-1 Knapsack Problem
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Day 1 Session 2C (Sep 7, Wed.) 15:40-17:20

Location: Conference Room 201 (2F)

Topic: Terminal and Warehouse Operation Chair: Daisuke Watanabe

- A27 Siti Nurminarsih, *Universitas Internasional Semen Indonesia, Indonesia*
Maulin Masyito Putri,
Ahmad Rusdiansyah *Institut Teknologi Sepuluh Nopember, Indonesia*
Space-sharing Strategy for Building Dynamic Container Yard Storage Considering Uncertainty on Number of Incoming Containers
- A33 Ahmad Rusdiansyah, Siti Nurminarsih *Institut Teknologi Sepuluh Nopember, Indonesia*
Maulin Masyito Putri, Nurhadi Siswanto
Twin Automatic Stacking Crane Operation Strategy Model with Dynamic Buffer Area in an Automated Container Terminal
- A43 Ivan Kristianto Singgih, Kap Hwan Kim *Pusan National University, Korea*
A Flexible Vehicle Dispatching Procedure for Overcoming Uncertainties in Real-time Operation Progresses in Container Terminals
- A24 Tsubasa Tamura, Takayoshi Yokota *Tottori University, Japan*
Fast Optimization Algorithm for Conveyance Orders and Paths of Conveyance Robots in Warehouses
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Day 2 Session 3A (Sep 8, Thu.) 8:50-10:30**Location: Conference Hall (1F)****Topic: Cross-Border and River Transport****Chair: Sarawut Luksanato**

- P04 Tetsuya Takimoto *Nankai Express Co. Ltd, Japan*
Discrepancy at Cross Boarder for E-Commerce (Inconsistent Customs Regulation for Mail and Parcel vs. Courier)
- A19 Sumalee Sukdanont *Chulalongkorn University, Thailand*
The Assessment of Supporting Factors Influencing Cross-border Trade and Transport of Passes along Thai–Myanmarese Border
- A40 Takashi Shimada, *The Overseas Coastal Area Development Institute of Japan, Japan*
Masaru Suzuki
Ryuichi Shibasaki *International Coordination Division, National Institute for Land, Infrastructure, Transport and Tourism of Japan, Japan*
Hidetoshi Kume *Jica Expert, The Ministry of Public Works and Transport of Cambodia, Japan*
Implications for Better Container Transit in the Lower Mekong River through the Field Survey and Policy Simulation
- A36 Tun-Hsiang Edward Yu, Bijay Sharma, *University of Tennessee, USA*
Burton English
A Spatial Autocorrelation Analysis for Lock Delays on the Upper Mississippi River
- A55 Achara Kongsawatvorakul, *King Mongkut's Institute of Technology*
Jaruwit Prabnasak, Chhorn Vuchlung *Ladkrabang, Thailand*
An Investigation of Inland Water Transportation Situation, Tugging Charge and Conditions of River in Chao-Phraya Basin, Thailand

Day 2 Session 3B (Sep 8, Thu.) 8:50-10:30**Location: Conference Room 4 (1F)****Topic: Green Logistics****Chair: Ahmad Rusdiansyah**

- A13 Jiali Yu, Peng Yang, Kai Zhang, Faping Wang *Tsinghua University, China*
Policy Analysis of Diffusion of Electric Vehicles in Shenzhen China: A System Dynamics Model
- A28 Artya Lathifah *Universitas Internasional Semen Indonesia, Indonesia*
Muhammad Dliyaoul Haq *Institut Teknologi Sepuluh Nopember, Indonesia*
A.A.N Perwira Redi *National Taiwan University of Science and Technology, Taiwan*
Nur Aini Masrurroh *Gajah Mada University, Indonesia*
Green Logistics Planning by Considering Fleet Size Mix Routing Pollution Problem (FSMPRP) and Intermodal Freight Transportation
- A14 Yuzhe Zhao, Qianru Xing, Haibo Kuang *Dalian Maritime University, China*
Optimization Design for Hub-and-Spoke Container Shipping Network Considering CO2 Emissions
- A74 Takeshi Shinoda, Arif Budiyanto *Kyushu University, Japan*
Effectiveness of Energy Saving on Installation of Roof Shade for Reefer Container
- P18 Hong-Seung Roh *The Korea Transport Institute, Korea*
Enhancement of Road Freight Vehicle Fuel Efficiency Using Lightweight Flat-Bed Trailers Made of High-Strength Steel Plate

Day 2 Session 4A (Sep 8, Thu.) 10:50-12:10**Location: Conference Hall (1F)****Topic: Intermodal and Cross-Border Transport Modelling Chair: Ming-Jong Yao**

- A18 Ryuichi Shibasaki *National Institute for Land and Infrastructure Management, Japan*
Tomoya Kawasaki *Nihon University, Japan*
Modelling International Intermodal Container Shipping and Application to South Asia
- A53 Russ Bona Frazila, Febri Zukhruf *Institut Teknologi Bandung, Indonesia*
A Stochastic Discrete Optimization Model for Multimodal Freight Transportation Network Design
- P06 Shinya Hanaoka, Masashi Sota, Tomoya Kawasaki *Tokyo Institute of Technology, Japan*
Agent-based Corridor Choice Simulation for the Port Access in East Africa
- P15 Ghim Ping Ong *National University of Singapore, Singapore*
Development of a Multimodal Microscopic Traffic Simulation Model for Land Border Operations in Singapore
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Day 2 Session 4B (Sep 8, Thu.) 10:50-12:10**Location: Conference Room 4 (1F)****Topic: City Logistics (3) Chair: Seung Bum Ahn**

- A86 I Lin Wang, Ping Cheng Lin *National Cheng Kung University, Taiwan*
Optimal Arc Restoration Schedules for Pipeline Networks in the Post-disaster Logistics Management
- A82 Ali Gul Qureshi, Eiichi Taniguchi, Go Iwase *Kyoto University, Japan*
Vehicle Routing considering the Safety and Environment near Urban Facilities
- A63 Nipapan Ananpalasak, Thitima Wonginta, *Burapha University, Thailand*
Sarawut Luksanato
Solving the Intra-hospital Transportation Timetabling Problem using a Genetic Algorithm
- A77 Suprayogi Suprayogi, Raghi Delano Kriswandi *Institut Teknologi Bandung, Indonesia*
Solving The Problem of Blood Delivery using Genetic Algorithm
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Day 2 Session 5A (Sep 8, Thu.) 13:30-15:10**Location: Conference Hall (1F)****Topic: Maritime Logistics Chair: Ghim Ping Ong**

- A62 Yu Lu, Hironori Kato, *The University of Tokyo, Japan*
Ryuichi Shibasaki *National Institute for Land and Infrastructure Management, Japan*
Simulation Model for International Maritime Container Flows in the Pacific Region and Scenario Analysis on Maritime Transportation Policies
- A31 Kuancheng Huang, Laura Laura *National Chiao Tung University, Taiwan*
Slot Allocation for Container Shipping Revenue Management with Demand Uncertainty
- A87 Ming-Jong Yao, Yi-Chin Su, *National Chiao Tung University, Taiwan*
Jen-Yen Lin *National Chiayi University, Taiwan*
Mabel Chou *National University of Singapore, Singapore*
Distribution Scheduling and Replenishment Problem in a Sea Cargo Supply Chain Delivering Liquefied Natural Gas
- A02 Yadong Wang, Qiang Meng *National University of Singapore, Singapore*
Bunkering Problem with Bunker Price Uncertainty
- A78 Suprayogi Suprayogi, Novia Mardesya *Institut Teknologi Bandung, Indonesia*
Real Time Tugboat Assignment and Scheduling Problem
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Day 2 Session 5B (Sep 8, Thu.) 13:30-15:10**Location: Conference Room 4 (1F)****Topic: Economics, Industries and Supply Chain Chair: Tsung-Sheng Chang**

- A52 Kosuke Okamoto, Kazuhiko Ishiguro *Kobe University, Japan*
The Economic Impact of Transportation Infrastructure Improvement on Seaborne Trade in East Asia
- A32 Hidekazu Ito *Kwansei Gakuin University, Japan*
David Guerrero *IFSTTAR, France*
Logistics Diversity in the Supply Chain of Automotive Parts: Evidence from Japanese Finished Car Makers in Kyushu, Japan
- A91 Layung Anindya Prasetyanti, Togar M. Simatupang, *Institut Teknologi Bandung, Indonesia*
Ryuta Takashima *Tokyo University of Science, Japan*
Maintaining Halal Integrity in Food Supply Chain
- A54 Linh Nguyen Khanh Duong, *Auckland University of Technology, New Zealand*
Xiaowei Wang, William Y. C. Wang, *The University of Auckland Business School, New Zealand*
Lincoln C. Wood
Persistent Backlogs: Transport On-Demand in a Service Supply Chain Experiencing Seasonal Demand
- P17 Sarawut Luksanato *Burapha University, Thailand*
Study on Workers in Thailand's Maritime Industry
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Day 2 Session 6A (Sep 8, Thu.) 15:30-16:30**Location: Conference Hall (1F)****Topic: Aviation Logistics Chair: Mikio Takebayashi**

- A34 Ahmad Rusdiansyah, Khara Karisia, *Institut Teknologi Sepuluh Nopember, Indonesia*
Dimpudus, Nurhadi Siswanto
A Heuristic Algorithm for Solving Cabin Crew Rostering with Irregularities
- A71 Sui-Ling Li *National Penghu University of Science and Technology, Taiwan*
Measuring and Estimating Ramp Operation Efficiency of Air Cargo Carrier at Taiwan Taoyuan International airport
- P10 Seung Bum Ahn *Incheon National University, Korea*
Jae-Wan Park
A Study on Improving Air Cargo Security System - Focused on Incheon Airport Security System -
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Day 2 Session 6B (Sep 8, Thu.) 15:30-16:30**Location: Conference Room 4 (1F)****Topic: Other Modes Chair: Tomoya Kawasaki**

- A89 Mabel C. Chou, Qizhang Liu, *National University of Singapore, Singapore*
Chung-Piaw Teo, Deanna Sock Ern Yeo
Docking Station Location Model in a Bicycle Sharing System
- P20 Jenn-Rong Lin, Chun-Chao Yeh *National Taiwan Ocean University, Taiwan*
Strategic Design of Public Bicycle Distribution Systems with Routing Considerations
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