

Conference Program

2025 13th International Conference on Traffic and Logistic Engineering (ICTLE 2025)

2025 11th International Conference on Innovation and Industrial Logistics (ICIIL 2025)

Macau, China | August 22-24, 2025

Co-Sponsored by



澳門科技大學
MACAU UNIVERSITY OF SCIENCE AND TECHNOLOGY

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Published by



Venue: Sofitel Macau at Ponte 16

Address: Rua do Visconde Paco de Arcos, 999078 Macau

Web: <https://www.sofitelmacau.com/>

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Conference Information and Tips

1) Conference Venue

※Venue: Sofitel Macau at Ponte 16

Address: Rua do Visconde Paco de Arcos, 999078 Macau

Web: <https://www.sofitelmacau.com/>

Tel: (853) 8861 0016 / Fax: (853) 8861 0018

2) On-site Registration

※ Registration desk→ Inform the staff of your paper ID→ Sign-in→ Claim your conference kits.

3) Devices Provided by the Organizer

※ Laptops (with MS-Office & Adobe Reader) / Projectors & Screen / Laser Sticks

4) Materials Provided by the Presenter

※ Oral Session: Slides (pptx or pdf version). Format 16:9 is preferred.

※ Poster Display: A1(Length: 841mm, width:594mm) size

※ Official language: English.

5) Duration of Each Presentation


※ Keynote Speech: 40min, including Q&A

※ Oral Presentation: 15min, including Q&A

6) Notice

※ **UTC+8. Please be aware of time difference between this and your region/country.**

7) Online Presentation Tips

 Zoom Download	Room	Meeting ID	Link
	A	875 3018 6135	https://us02web.zoom.us/j/87530186135
	B	883 9747 0910	https://us02web.zoom.us/j/88397470910

Note:

We recommend that you install the Zoom platform on your computer before the conference starts. New users can participate in the Zoom meeting without registration.

Participants who are going to do an online presentation are required to join the rehearsal in Zoom on **Friday, August 22, 2025**. Duration: 3min apiece. Feel free to leave after you finish the test.

◆Name Setting

Keynote Speaker: KN-Name

Committee: Position-Name

Author: Paper ID-Name

Delegate: Delegate -Name

◆Useful Links

✧ [Conference Banner](#)

✧ [Zoom Background](#)

Welcome Message

On behalf of Conference Committee, we welcome you to attend 2025 13th International Conference on Traffic and Logistic Engineering (ICTLE 2025) & 2025 11th International Conference on Innovation and Industrial Logistics (ICIIL 2025) held in Macau, China during August 22-24, 2025, co-sponsored by Macau University of Science and Technology, and technically sponsored by the Faculty of Science and Technology of the University of Macau.

ICTLE 2025 & ICIIL 2025 welcomes author submission of papers from any branch of traffic and logistic engineering; innovation and industrial logistics, and their applications or other topic areas. The areas covered by the include, but not limited to: Transportation Infrastructure and Technology; Transportation Planning and Management; Intelligent Transportation Systems; Supply Chain Management; Transportation Management, Route Optimisation; Warehouse Process Optimization; Reliability and Maintenance of Logistic Systems and so on.

The conference aims to provide an interactive communication platform for practitioners to learn about the most cutting-edge academic and industrial application trends, to share the latest scientific research and technological achievements, innovative ideas and scientific methods in the field of traffic and logistic engineering; innovation and industrial logistics, to improve the level of academic research and industrial application in the field of traffic and logistic engineering; innovation and industrial logistics, so as to serve the global strategic deployment of new and old kinetic energy conversion, and promotes technology research, development, and application home and abroad.

We feel deeply grateful to all that have contributed to make this event possible: authors, the conference steering committees, the conference speakers, and the peer reviewers. Thanks are also extended to the conference administrative committee and the supporters for their tireless efforts throughout the course of the conference.

We hope that all participants benefit from these two conferences.

With Warmest Regards,
Conference Organizing Committee

Conference Committee *(in no particular order)*

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Paul Tae-Woo Lee, Zhejiang University, China

Kun An, Tongji University, China

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Anucha Hirunwat, King Mongkut's University of Technology North Bangkok, Thailand
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Bahana Wiradanti, Indonesian Ports (Pelindo), Indonesia
Noppakun Sangkhiew, Silpakorn University, Thailand
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Huichuan Dai, Guangdong University of Science and Technology, China
Nurul Retno Nurwulan, Higher Colleges of Technology, UAE
Fenfang Ye, Guangdong University of Science and Technology, China
Jonas C. P. Yu, Takming University of Science and Technology, Taiwan, China

Agenda Overview (UTC+8)

Friday, August 22, 2025

On-site Registration	13:30-17:00	Outside Promenade Meeting Room, 6 th Floor, Sofitel Macau at Ponte 16
Zoom Pre-test for Online Presenters	14:00-16:30	Room A: 875 3018 6135 Link: https://us02web.zoom.us/j/87530186135

Zoom Test Timetable

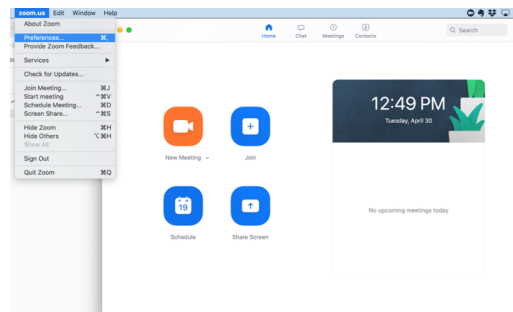
- ✧ Participants who are going to do an online presentation are required to join the rehearsal in Zoom on Friday, August 22, 2025. Duration: 3min apiece. Feel free to leave after you finish the test.
- ✧ We will test control panel including screen sharing, audio, video and “Raise Hand” feature, etc. Please get your presentation slides and computer equipment prepared beforehand.

14:00-14:30	LE703, LE632, LE613, LE624, LE625, LE627, LE505, LE540, LE561, LE565, LE566
14:30-15:00	LE529, LE570, LE618, LE620, LE504, LE544, LE552, LE578, LE587, LE516, LE521
15:00-15:30	LE542, LE603, LE621, LE626, LE633, LE520, LE534, LE557, LE571, LE573, LE579
15:30-16:00	LE511, LE528, LE533, LE539, LE589, LE5006, LE5009, LE5010, LE591, LE556
16:00-16:30	Alternative time for participants who are unavailable at allocated time. Other online participants, includes but not limited to keynote speaker, session chair, committee member, delegate

Zoom Guidance

You can join the meeting without sign-in process. Just put the meeting ID and join us.

URL: <https://zoom.us/download>



Each meeting has a unique 9, 10, or 11-digit number called a **meeting ID** that will be required to join a Zoom meeting.

For any questions on the meeting day, you can text privately to “Assistant” for help.



Audio muted and video off (both indicated by a red slash).

Click to open the Participants box. This will allow you to “Raise Hand”.

To share screen or contents.

Click to open the Chat box. This will allow you to chat with Hosts and Participants.



Saturday, August 23, 2025

Plenary Session

Room A: **875 3018 6135**Conference Room: Promenade <6th floor >

Host: Assoc. Prof. Chi Man VONG, University of Macau, Macau, China

08:50-09:00 Opening Speech: Prof. Felix T. S. Chan, Macao University of Science and Technology, Macau, China

09:00-09:40 Keynote Speech I: Mathematics, Economics and Artificial Intelligence for On-demand Mobility Services

Hai Yang, The Hong Kong University of Science and Technology, Hong Kong, China

09:40-10:20 Keynote Speech II: Smart, Green, and Connected: How 6th-Generation Ports Are Shaping the Future of Container Hub Logistics

Paul Tae-Woo Lee, Zhejiang University, China

10:20-10:50 Group Photo & Coffee Break

10:50-11:30 Keynote Speech III: The Economic and Policy Implications of Autonomous Driving Early stage results and future developments

Xiaowen Fu, The Hong Kong Polytechnic University, Hong Kong, China

11:30-12:10 Keynote Speech IV: Leveraging Inclusive Service Innovation for Sustainability

Voon Boo Ho, Universiti Teknologi MARA (UiTM) Sarawak, Malaysia12:10-13:30 Lunch
Mistral Restaurant, 6th Floor/6 樓海風餐廳

13:30-14:10 Keynote Speech V: Optimizing Electric Bus Depots for Public Charging and Vehicle-to-Grid Integration

Kun An, Tongji University, China

Saturday, August 23, 2025 | Parallel Session (Onsite)

14:15-16:00	Onsite Session 1: Urban Logistics and Transportation Services LE543, LE559, LE560, LE5002-A, LE517, LE527, LE567-A	Promenade 1 6 th Floor
14:15-16:00	Onsite Session 2: Logistics Network Construction and Supply Chain Management LE609-A, LE623-A, LE704, LE536, LE611, LE535, LE702-A	Promenade 2 6 th Floor
16:00-16:30	Coffee Break	6 th Floor
16:30-18:30	Onsite Session 3: Maritime Transportation and Environmental Monitoring LE506, LE558, LE509, LE522, LE562, LE541-A, LE548, LE5011	Promenade 1 6 th Floor
16:30-18:45	Onsite Session 4: Construction and Operation Management of Intelligent Transportation Networks in Smart Cities LE508-A, LE526, LE532, LE537, LE545, LE580, LE590, LE546-A, LE510	Promenade 2 6 th Floor
18:50-20:30	Dinner Mistral Restaurant, 6 th Floor/6 樓海風餐廳	

Sunday, August 24, 2024 (Onsite)

9:00-16:00 One-day Tour in Macau
 * One day tour registration fee is: 100 USD/700 RMB; Payment link: <http://confsys.iconf.org/online-payment/890003173>
 * The one day tour registration fee includes cost of coffee break, lunch and tourism entrance ticket.
 Registration closes at August 20, 2025 (UTC+8h).
 More details please check page 24.

Sunday, August 24, 2024 | Parallel Session (Online)

09:00-11:45	Online Session 1: Modern Intelligent Warehousing Logistics and Supply Chain System LE703, LE632, LE613, LE624, LE625, LE627, LE505, LE540, LE561, LE565, LE566	Room A: 875 3018 6135
09:00-11:45	Online Session 2: Vehicle Operation Control and Transportation Capacity Assessment LE529, LE570, LE618, LE620, LE504, LE544, LE552, LE578, LE587, LE516, LE521	Room B: 883 9747 0910
11:45-13:30	Break Time	
13:30-16:15	Online Session 3: Modern Logistics Information System and Management under Low -carbon Transportation LE542, LE603, LE621, LE626, LE633, LE520, LE534, LE557, LE571, LE573, LE579	Room A: 875 3018 6135
13:30-16:00	Online Session 4: Transportation Infrastructure Construction and Safety Monitoring LE511, LE528, LE533, LE539, LE589, LE5006, LE5009, LE5010, LE591, LE556	Room B: 883 9747 0910

Keynote Speaker I

Saturday, August 23, 2025

09:00-09:40



[Prof. Hai Yang.](#)

[The Hong Kong University of Science and Technology, Hong Kong, China](#)

Speech Title: Mathematics, Economics and Artificial Intelligence for On-demand Mobility Services

Abstract: Application-based taxi and car service e-hailing systems have revolutionized urban mobility by providing on-demand ride services that are timely and convenient. The integration of mathematics and economics is crucial for the development of efficient and sustainable on-demand mobility services, which ultimately benefit customers. This talk will explore the latest developments and research issues in ride-sourcing markets, including demand forecasting, surge-pricing, matching, pricing, and ride-pooling, optimal resource allocation, and the impact of ride-pooling on traffic congestion. Additionally, we will discuss topics such as competition, third-party platform-integration, Pareto-efficient market regulations, and the analysis of human mobility and network property using big car trajectory data.

Prof. Hai Yang is a Chair Professor at The Hong Kong University of Science and Technology, where he is recognized as a leading expert in transportation research. His work has been published in top-tier international journals, including *Transportation Research*, *Transportation Science*, and *Operations Research*, earning him a high ranking in both publications and citations within the transportation field. Throughout his career, Prof. Yang has received numerous prestigious awards, such as the 2020 Frank M. Masters Transportation Engineering Award and the 2021 Francis C. Turner Award from the American Society of Civil Engineers. In addition, he was honored with the National Natural Science Award by the State Council of the People's Republic of China in 2011. Prof. Yang was appointed as a Chang Jiang Chair Professor by the Ministry of Education of China and served as the Editor-in-Chief of *Transportation Research (TR) Part B: Methodological* from 2013 to 2018, a highly regarded journal in transportation studies. Currently, he is a member of the Distinguished Editorial Board for *TR Part B* and the Scientific Council for *TR Part C: Emerging Technologies*, and he also serves as an Advisory Editor for *Transportation Science*.

Keynote Speaker II

Saturday, August 23, 2025

09:40-10:20



[Prof. Paul Tae-Woo Lee,](#)
[Zhejiang University, China](#)

Speech Title: Smart, Green, and Connected: How 6th-Generation Ports Are Shaping the Future of Container Hub Logistics

Abstract: The digitalization, decarbonization, and sustainability (DDS) associated with the COVID-19 pandemic's impacts have become focal issues in maritime transportation and logistics. This presentation addresses the 6th-generation ports (6GP) model in the context of the DDS, which integrates artificial intelligence (AI), blockchain, internet of things (IoT), and cloud systems with new concepts of economies (i.e., economies of flow, connection, and fusion technology). Having considered the contribution of the 6GP model to advancing port devolution theory, this presentation also discusses a business development strategy and policy, as well as the way ahead for stakeholders, including mega ship carriers, logistics providers, port authorities, policymakers, in container hub ports and global supply chains.

Paul Tae-Woo Lee is a PhD Supervisory Professor of Maritime Transport and Logistics and the Director of the Maritime Logistics and Free Trade Islands Research Centre at Ocean College, Zhejiang University [浙江大学航海物流与自由贸易岛研究中心主任] and High-Level Overseas Talent of Zhejiang Province (2017) [(2017 年浙江省'千人计划'专家)]. He holds a Ph.D. degree from Cardiff University in the UK. He has been a Visiting Scholar at, among others, The Faculty of Economics and Politics at the University of Cambridge in the UK, the Institute of Marine Studies at the University of Plymouth, The Hong Kong Polytechnic University, The MPA Visiting Professor at Nanyang Technological University, Singapore, and a Visiting Professor at PhD Logistics Program in Chulalongkorn University, Thailand. He is currently Adjunct Professor at RMIT University in Melbourne Australia. He is also a regular speaker at international conferences, including the Asia-Pacific Economic Cooperation (APEC), United Nations Development Programme (UNDP), UN Economic and Social Commission of Asia and the Pacific (UNESCAP), ASEAN-Australia-New Zealand Free Trade Agreement, China Academy of Social Sciences (CASS), Supply Chain Asia (Singapore), and Vietnam Academy for Social Sciences (VASS). In particular, Paul is currently a consultant for UNESCAP and has published several reports about maritime connectivity, green shipping corridors, sustainable future port development, and smart ports over the last four years. Professor Lee has published nine books, more than 200 journal papers, and guest-edited 26 special issues of distinguished international journals. Following Editor-in-Chief of two international journals in the supply chain, logistics, trade, and maritime transportation, he is currently an Associate Editor of Transportation Research Part E. He is also the Book Editor of Elsevier's China Transportation Series (Scopus indexed) and Anthem Book Series of Supply Chain Management, Maritime Transport and Logistics (Scopus indexed). Professor Lee served the International Association of Maritime Economists (IAME) as co-opt Vice President, Secretary of IAME, and Council member since its inception in 1992. He is a founding member of the Asian Logistics Round Table (established in 2007), Yangtze River Research Innovation and Belt (established in 2017), and a founding member and Secretary-General of Global Research Network-Belt and Road Initiative (established in 2016).

Keynote Speaker III

Saturday, August 23, 2025

10:50-11:30



[Prof. Xiaowen Fu,](#)
[The Hong Kong Polytechnic University, Hong Kong, China](#)

Speech Title: The Economic and Policy Implications of Autonomous Driving Early stage results and future developments

Abstract: The adoption of autonomous vehicles, especially forthcoming fully driverless solutions, is expected to bring fundamental changes in the transport systems and mobility services. In a more general setting, the increasing use and availability of AI powered solutions could also raise many economic and policy related challenges, notably employment and the interaction between human employees and users. We will present the findings of our recent studies related to autonomous driving functions and driver assistance systems, with a focus on transport safety and desirable system features. We will then offer preliminary analytic results on possible policy alternatives that government could consider in order to address the challenges brought by autonomous driving, especially those on employment, investment and social welfare.

Professor Xiaowen Fu is the Head of Department and Professor in Engineering Management at the Department of Industrial and Systems Engineering, the Hong Kong Polytechnic University. His main research areas include engineering management, data analytics, transport and logistics, which cover issues such as competition policy and government regulation, efficiency benchmarking, operation management, transport demand modelling and industrial organization. He has been the principal investigator of close to 30 research grants, the guest editor of 9 journal special issues, and the author of close to 150 journal articles. He is the Editor-in-Chief of the journal Case Studies on Transport Policy, associate editor of the book series "Advances in Airlines Economics". He also serves as the director of the Behavior and Knowledge Engineering Research Center, Vice President (Research) of the Institute for Aviation (UK), founding chair of the Maritime Economy and Policy stream of the World Transport Convention, member of the Technical and Statistical Task Team on the Productive Capacities Index under the United Nations Conference on Trade and Development (UNCTAD), and an honorary professor of the University of Sydney Business School.

Keynote Speaker IV

Saturday, August 23, 2025

11:30-12:10



[Prof. Dr. Voon Boo Ho.](#)
[Universiti Teknologi MARA \(UiTM\) Sarawak, Malaysia](#)

Speech Title: *Leveraging Inclusive Service Innovation for Sustainability*

Abstract: Inclusive service innovation to care for the persons with special needs is recommendable for sustainability. Good understanding and effective measurement of service culture for excellence are essential even for NGOs such as the community-based rehabilitation (CBR) centres. The target customers are the CBR's trainees (i.e., persons with disability) and employees. In this inclusive service innovation, it is imperative to ensure consistent and continuous superior service to the target stakeholders. The parents/guardians also need to be empowered to care for their special children. This keynote speech will share a rehabilitation service management in Malaysia (Sarawak, Borneo) with the intended co-value creation for mutual benefits of the stakeholders. There is essentially a service excellence-value chain for sustainability. The service excellence culture (RehabServE) is multi-dimensional and impactful on the satisfaction, behavioural intentions, and health outcomes. The sustainable rehabilitation service culture can help to co-create and co-serve the persons with disabilities (PwDs) to achieve and sustain the triple bottom-lines of sustainability (i.e., natural environment, cost-effectiveness, and social inclusivity) for better quality of life of the parents/guardians and persons with special needs.

Prof. Dr. Voon is a professor of marketing at Universiti Teknologi MARA Sarawak, Malaysia. He is an experienced researcher who has published many papers and a few books in service management and marketing, strategic value-chain, and educational administration research. His book chapter on 'Confucian values for service excellence' can provide strategic insights. He has years of experience in education and banking in Sarawak before joining the academia. He teaches various strategic marketing and research methodology courses as well as supervised learners at bachelor degree and postgraduate levels. His innovations such as ServEx Scale, BEHAVE, BLUE-SEA, eDioms (Chinese Marketing), Marketing Research MOOC, MyServEx system, and RehabServE have won prestigious awards locally and internationally. MyServEx is commercialized. His consultancy projects on service management, customer experience and product development have helped the clients, and Sarawak government. His current research projects include socio-economic development service, rehabilitation service excellence, homestay service management, and personal service attitudes.

Keynote Speaker V

Saturday, August 23, 2025

13:30-14:10



[Prof. Kun An,](#)
[Tongji University, China](#)

Speech Title: Optimizing Electric Bus Depots for Public Charging and Vehicle-to-Grid Integration

Abstract: The uneven distribution of public charging infrastructure presents a major challenge for private electric vehicle (EV) adoption. In many Chinese cities, bus depots host underutilized chargers during daytime operations, creating an opportunity to serve private EVs without compromising electric bus (EB) charging needs. This study proposes a novel framework for repurposing bus depot chargers, incorporating uncertainties in EB/EV charging demand and EV arrival times. A two-stage stochastic optimization model is developed to maximize bus operator revenue while ensuring EB operational priorities. Using a real-world case study from Shanghai, we demonstrate the model's practical viability: the depot transitions from a charging cost of 10,747 CNY to a projected profit of 1,733 CNY under the proposed system. Furthermore, we evaluate the benefits of integrating vehicle-to-grid (V2G) technology, which enables load shifting and peak-hour energy discharge. Results indicate that V2G operation significantly reduces grid peak-valley load differences and fluctuations while marginally improving photovoltaic energy consumption. Compared to unmanaged charging, the V2G-enabled system enhances grid stability and operator profitability.

Kun An is currently a professor with College of Traffic and Transportation Engineering at Tongji University. Dr. An received her Ph.D. degree in Civil Engineering from the Hong Kong University of Science and Technology in 2014. She worked as lecturer, senior lecturer in the Institute of Transport Studies, Department of Civil Engineering at Monash University, Australia from 2016-2019. Her research interests include transit network design considering stochastic demand, logistic system management and design, shared mobility, electric vehicle charging management. She has published 2 book chapters and 40+ peer-reviewed papers on top journals including Transportation Research Part ABCDE. She has obtained multiple research projects including NSFC projects in China, and ARC Discovery Project in Australia. She served as referee for top journals in the field of Transportation, Discovery projects and Linkage projects for Australia Research Council.

Onsite Session 1(UTC+8)

Saturday, August 23, 2025

14:15-16:00

Promenade 1, 6th floor

Urban Logistics and Transportation Services

Chairperson:

LE543 14:15-14:30	Tree-covery: A GIS-Driven Tree Planting Site Optimization Model for Sustainable Urban Logistics and Land Use in Calamba, Laguna Duran, Ma. Kathleen , National University, Philippines
LE559 14:30-14:45	Area-Weighted Resource Allocation for Humanitarian Logistics: An Enhanced Proximal Policy Optimization Approach Yineng Wang , The University of Hong Kong, China
LE560 14:45-15:00	Optimal scheduling of emergency logistics for earthquake disasters considering penalty costs Yanyan Wang , Harbin Institute of Technology, China
LE5002-A 15:00-15:15	Does differentiated source investment solve the green aviation "performance dilemma"? Wang Chuanlei , Anhui University, China
LE517 15:15-15:30	Analysis of Dockless Bike-sharing Parking Guidance Mechanism Considering Social Norms and Government Subsidies Shujing Zhang , Beijing Jiaotong University, China
LE527 15:30-15:45	Two-Stage and Feature-Driven Prediction of Air Traffic Flow Management Delay Mengfei Wang , Nanjing University of Aeronautics And Astronautics, China
LE567-A 15:45-16:00	Research on Train Derailment Protection under End-Obstacle Collision Tianyu Zhuo , Nanjing Vocational University of Industry Technology, China

Onsite Session 2(UTC+8)

Saturday, August 23, 2025

14:15-16:00

Promenade 2, 6th floor

Logistics Network Construction and Supply Chain Management

Chairperson:

LE609-A 14:15-14:30	Pricing strategy for a sustainable supply chain considering demand sensitive to price and green technology level Jonas C.P. Yu , Takming University of Science and Technology, Taiwan
LE623-A 14:30-14:45	A combinatorial VCG auction for carrier collaboration with carbon emission permits trading and double side bundles of requests exchange Xiaohui Lyu , Soochow University, China
LE704 14:45-15:00	Government Intervention Decision for Trade-in Open-loop Supply Chains Considering Policy Combinations Wenyan Pei , Zhongnan University of Economics and Law, China
LE536 15:00-15:15	Cost-oriented logistics quotation prediction and optimization Yiruo Dai , Hitachi (China), Ltd. Shanghai Branch, China
LE611 15:15-15:30	Multi-objective Particle Swarm Optimization for Paired Single-Row Facility Layout Nurul Retno Nurwulan , Higher Colleges of Technology, United Arab Emirates
LE535 15:30-15:45	Using agent simulation to redistrict the service region of front-line fulfillment centers for instant retailing platforms Jiaqi Liu , City University of Macau, China
LE702-A 15:45-16:00	Research on supply chain management innovation in digital intelligence environment Chenxu He , Zhejiang University of Finance and Economics, China

Onsite Session 3(UTC+8)

Saturday, August 23, 2025

16:30-18:30

Promenade 1, 6th floor

Maritime Transportation and Environmental Monitoring

Chairperson:

LE506 16:30-16:45	Analysis of the impacts of the Red Sea crisis on the China-Europe shipping: a network perspective Chengpeng Wan , Wuhan University of Technology, China
LE558 16:45-17:00	Research on Optimization of Dry Bulk Sea-River-Inland Waterway Intermodal Transport Network Feiyang Ma , Southeast University, China
LE509 17:00-17:15	Hydrodynamic impact of ship waves on river water quality: Insights from numerical simulations Zhonglian Jiang , Wuhan University of Technology, China
LE522 17:15-17:30	An intelligent energy management strategy for marine transportation based on feedback-feedforward coordinated control Chongchong Shen , Harbin Engineering University, China
LE562 17:30-17:45	Research on Automated Recommendation Technology for Sea-River-Inland Waterway Intermodal Transport Solutions Zhiyuan Liu , Southeast University, China
LE541-A 17:45-18:00	A Variable Speed Limit Method Considering Safety and Efficiency for the Upstream Area of CAVL Exits on Urban Expressways Fengwei Meng , Northeast Forestry University, China
LE548 18:00-18:15	Gradient-Embedded Surrogate Optimization for Accelerated Convergence in Large-Scale Simulation Calibration Kelong Liu , Southeast University, China
LE5001 18:15-18:30	Neural Network-Based Disturbance Observer for Vehicle Platoon Control Rui Yao , Chang'an University, China

Onsite Session 4(UTC+8)

Saturday, August 23, 2025

16:30-18:45

Promenade 2, 6th floor

Construction and Operation Management of Intelligent Transportation Networks in Smart Cities

Chairperson:

LE508-A 16:30-16:45	Multi-modal Human-Machine Interaction for Intelligent Cockpits Based on Vehicle-Road-Cloud Collaboration Quan Yuan , Tsinghua University, China
LE526 16:45-17:00	Flexible Route Network Planning Adapting to Time-varying Air Traffic Using Reinforcement Learning Yangjie Li , Nanjing University of Aeronautics and Astronautics, China
LE532 17:00-17:15	Study on green and low carbon evaluation of integrated transportation hub Shuaiqi Wang , Southeast University, China
LE537 17:15-17:30	Enhancing Public Transport Management with Deep Learning and IoT-Based Monitoring Mariano Giuseppe Paganelli , Politecnico di Bari, Italy
LE545 17:30-17:45	Optimal Location for Transportation Terminal of San Pablo City, Laguna in the Philippines Duran, Ma. Kathleen , National University, Philippines
LE580 17:45-18:00	A Collaborative Framework for Airline and Network Manager Coordination in Irregular Flight Recovery Hanlin Wu , Beihang University, China
LE590 18:00-18:15	Analysis and Countermeasures for Passenger Flow Improvement of Zhuhai-Zhuhai Airport Intercity Railway Lili Zhang , Zhuhai Rail Transit Co., Ltd., China
LE546-A 18:15-18:30	Real-Time Violence Detection in Public Transport using Deep Learning and Embedded Systems Marco Gallo , Politecnico di Bari, Italy
LE510 18:30-18:45	Assessing the Impact of Traffic Variables on Accident Severity: An Artificial Neural Network-Based Approach in Metro Manila QUENNIE MAE ESTRELLA , Mapúa University, Philippines

Poster Display

Saturday, August 23, 2025 15:30-16:30		6 th floor
LE629-A	A Study on the Intention to Use Bio Cold Chain Monitoring Technology Using the Extended Unified Theory of Acceptance and Use of Technology (UTAUT2) <i>Jiwon Lee</i> , Incheon National University, South Korea	

Online Session 1(UTC+8)

Sunday, August 24, 2025

09:00-11:45

Room A: 875 3018 6135

Link: <https://us02web.zoom.us/j/87530186135>

Modern Intelligent Warehousing Logistics and Supply Chain System

Chairperson:

LE703 09:00-09:15	Performance Evaluation of Tourism Supply Chain Based on Topological Cloud Modeling Dongwen Li , Xi'an university of posts and telecommunications, China
LE632 09:15-09:30	Transformation in Warehouse Management through RFID and Smart Shelving in E-Commerce Companies David Eleazar Acuna Matamoros , Universidad Continental, Peru
LE613 09:30-09:45	Research on risk assessment of agricultural super-docking supply chain based on fault tree and Bayesian network Ye Gao , Xi'an University of Posts and Telecommunications, China
LE624 09:45-10:00	Blockchain-Enabled Pricing Model for Closed-Loop Supply Chains with Reference Price Effect Doudou Liu , Xi'an University of Posts and Telecommunications, China
LE625 10:15-10:15	Research on the Impact of Blockchain Technology on the Resilience of Supply Chain Yuping Dan , Xi'an University of Posts and Telecommunications, China
LE627 10:15-10:30	Impact of Cloud Manufacturing on Delivery Delays within the Coffee Industry Supply Chain Pamela Katherine Vilchez Ponce , Universidad Continental, Peru
LE505 10:30-10:45	Enhancing Demand Forecasting with Machine Learning: Insights from Hotel Booking Data Zhe Pang , University of Minnesota, USA
LE54 10:45-11:00	Global Closed-loop Supply Chain Network Design with Product Recycling Rate Uncertainty Xinyi Zhu , China Jiliang University, China
LE561 11:00-11:15	Transnational supply chain remanufacturing authorization decision considering government subsidies Zhao Zhixuan , China Jiliang University, China
LE565 11:15-11:30	Supply chain risk assessment of new energy automobile manufacturing enterprises based on two-dimensional cloud model Cuiman Gao , Xi'an University of Posts and Telecommunications, China
LE566 11:30-11:45	Research on Fresh Agricultural Product Supply Chain Network Optimization under Cold Chain Subsidy Policies Yilan Xu , China Jiliang University, China

Online Session 2(UTC+8)

Sunday, August 24, 2025

09:00-11:45

Room B: 883 9747 0910

Link: <https://us02web.zoom.us/j/88397470910>

Vehicle Operation Control and Transportation Capacity Assessment

Chairperson:

LE529 09:00-09:15	Intelligent Inventory Management in the Dairy Industry: A Model of Optimization and Automation using EOQ and Machine Learning Hershel Edu Yalopoma Mendoza , Universidad Continental, Perú
LE570 09:15-09:30	Application of a Technological Model for the Automated Verification of Vehicle Documents through Computer Vision in the City of Huancayo Rosa Gabriela Quesada Tutaya , Universidad Continental, Perú
LE618 09:30-09:45	Transforming Container Handling Efficiency: A Novel Genetic Algorithm Based Double Cycling Approach for Port Operations Denisse Michelle Gunawan , Telkom University, Indonesia
LE620 09:45-10:00	A Portrait Study of ESG Disclosure of Chinese Listed Express Firms Based on Text Analysis Huijuan Zhao , Xi'an University of Posts and Telecommunications, China
LE504 10:00-10:15	Emergency Lane Enabling Dynamic Decision Model Based on YOLOv8 Algorithm and Improved Neural Networks Minshan Jiang , Xi'an University of Posts and Telecommunications, China
LE544 10:15-10:30	Optimal Truck-Tank Assignment for Compressed Natural Gas Delivery: A Case Study from Vietnam Tuyet Vy Vu , Vietnam Petroleum Institute, Vietnam
LE552 10:30-10:45	CNN-LSTM-Attention-based Vehicle Weight Estimation using Weigh-in-Motion Ying WANG , Inner Mongolia University of Technology, China
LE578 10:45-11:00	Design of an Improved A* Algorithm for the Container Relocation Problem in Four-Way Shuttle Vehicle Systems Ying Liu , Beijing University of Posts and Telecommunications, China
LE587 11:00-11:15	Vehicle Routing Optimization in Full-Truckload Logistics Based on Simulated Annealing Algorithm Siyuan He , Guangdong University of Science and Technology, China
LE516 11:15-11:30	Traffic Flow Prediction: A Hybrid VMD-NRBO-BiLSTM Model Approach Jixiao Jiang , Don State Technical University, Rostov-on-Don, Russia
LE521 11:30-11:45	Commercial Drone Deliveries: Evolution, Applications and Market Dynamics Mateusz Mazur , Military University of Technology, Poland

Online Session 3(UTC+8)

Sunday, August 24, 2025

13:30-16:15

Room A: 875 3018 6135

Link: <https://us02web.zoom.us/j/87530186135>

Modern Logistics Information System and Management under Low-carbon Transportation

Chairperson:

LE542 13:30-13:45	Equilibrium Analysis of Perishable Agricultural Supply Chains under Flow-Dependent Losses and Carbon Trading: The Role of Logistics Capability Wu Tingfeng , Southeast University, China
LE603 13:45-14:00	Research on the spatio-temporal characteristics and influencing factors of carbon emission efficiency in China's logistics industry Xinyue Zhang , Xi'an University of Posts and Telecommunications, China
LE621 14:00-14:15	Research on the Coupling and Linkage Development of Digital Economy and Green Logistics Xing Yu , Guangdong University of Science and Technology, China
LE626 14:15-14:30	Research on The Evolutionary Game Between the Two Sides of the Quality Control Strategy of Pension Logistics Service Jingke Dong , Xi'an University of Posts and Telecommunications, China
LE633 14:30-14:45	Research on Construction of Risk Evaluation Indicator System for Fresh e-commerce Cold Chain Logistics under New Retailing Fenfang Ye , Guangdong University of Science and Technology, China
LE520 14:45-15:00	Enhancing LBC Express Branch Network Efficiency through Minimum Spanning Tree Optimization Enzo Benedict C. Esquejo , Mapúa University, Philippines
LE534 15:00-15:15	Improving Logistics Efficiency in Microchip Outbound Networks via Integer Linear Programming Optimization Jingwen Qu , Chongqing Vocational Institute of Engineering, China
LE557 15:15-15:30	Integrated Inventory Routing Optimization Using ALNS with Disruption Recovery Ningfei Wang , Shanghai Jiao Tong University, China
LE571 15:30-15:45	Research on the Synergistic Development of the Digital Economy and Cross-Border E-Commerce Logistics Based on Grey Correlation Coupling Model Xinghong Wen , Guangdong University of Science and Technology, China
LE573 15:45-16:00	Research on the Integrated Collection-Distribution Location-Routing Problem in E-commerce Logistics Meixi Li , Harbin University of Commerce, China
LE579 16:00-16:15	Intelligent Logistics Optimization Strategy and Management System for Plant Area of Oil Equipment Manufacturing Cun SUN , Kunlun Digital Technology Co., Ltd, China

Online Session 4(UTC+8)

Sunday, August 24, 2025

13:30-16:00

Room B: 883 9747 0910

Link: <https://us02web.zoom.us/j/88397470910>

Transportation Infrastructure Construction and Safety Monitoring

Chairperson:

LE511 13:30-13:45	Assessment of Passenger Satisfaction Level in Cubao-San Fernando Provincial Sustainable Bus Route: Evaluation of Safety, Comfort, and Acceptance using Rapid Entire Body Assessment Robin Gabriel Reyes , Mapúa University, Philippines
LE528 13:45-14:00	Optimizing Urban Traffic Flow under Uncertainty Through Particle Swarm Optimization John Mark Lorcan J. Cea , Mapúa University, Philippines
LE533 14:00-14:15	Using Bus Location Data to Assess Road Network Resilience: A Case Study of Macao Man-I Wu , University of Macau, China
LE539 14:15-14:30	Design and Application of Highway Disaster Monitoring and Warning System Rurui Liu , Research Institute of Highway (RIOH) Ministry of Transport, China
LE589 14:30-14:45	Analysis of Cracking Behavior of Concrete with Internal Defects Ziyan Zhao , Chang'an University Xi'an, China
LE5006 14:45-15:00	Study on Superhighway Fuel Consumption and Emissions Based on Trajectory Data Pei Gao , Research Institute of Highway, Ministry of Transport, China
LE5009 15:00-15:15	Data-driven analysis of rainfall impact on metro commuting travel: A case of Shanghai metro, China Xian ZHAO , Shenzhen University, China
LE5010 15:15-15:30	Baseline Scenario Study of CCER Methodology for Transportation Infrastructure Construction Li QiangWang , Tianjin Port Engineering Design and Consulting Company Ltd, China
LE591 15:30-15:45	Two-Region Macroscopic Fundamental Diagram for Airport Surface Operations: Empirical Modeling and Control Strategies Suwan Yin , Sichuan University, China
LE516 15:45-16:00	Space-time Risk Density: Discovering Spatio-temporal Distribution Patterns of Traffic Risk in Vehicle Trajectory Data Shichun Huang , China Tobacco Guangxi Industrial Co., Ltd., China

Delegates List

Paolo Roberto Massenio	Polytechnic University of Bari, Italy
Jiaqi Zhou	Shenzhen University, China
Xiao Huamao	Shaoguan University, China
Inho Lee	Incheon National University, South Korea

One day Tour

8:50	Gather at the Lobby of Sofitel Macau at Ponte 16 (Shuttle bus will depart at 9:00 a.m. sharp, so please arrive on time)
09:30~10:30	Seac Pai Van Park / 石排湾郊野公园
10:30~11:00	Coffee Break at Lord Stow's Bakery+Han Kee Handmade Coffee / 安德鲁饼店+汉记手打咖啡茶歇
11:00~11:30	Coloane Pier / 路环码头
11:30~12:30	Rua de Cinco de Outubro / 十月初五马路
12:30~13:30	Lunch / 午餐
13:30~14:10	Cheoc Van Beach / 竹湾沙滩
14:10~15:10	Hike along the Hac Sá Long Chao Kok Coastal Trail / 黑沙龙爪角海岸径徒步
15:10~15:40	Hac Sá Beach / 黑沙滩
16:00	The Venetian Macao / 威尼斯人 Explore Taipa, then make your own way back to the hotel.
<p>Tips:</p> <p>It gets very hot by the sea in summer — be sure to bring a hat, sunglasses, and other sun protection.</p> <p>Since you'll be hiking, please wear light, comfortable clothing and shoes.</p>	

Note

[illegible]