



# The 8th International Conference on Transportation Information and Safety

Transportation + Artificial Intelligence &  
Green Energy: Making a Sustainable World



## CONFERENCE GUIDE

GRANADA, SPAIN  
July 16-19, 2025

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## PREFACE

On behalf of the conference Organizing Committee, we are pleased to welcome all of you to the 8th International Conference on Transportation Information and Safety (ICTIS 2025) at Granada, Spain. Thank you for attending this wonderful three-day conference to share your research ideas and progress in transportation information and safety.

The key aspects to the operation of transportation systems are efficiency, intelligence, safety, reliability and environmental friendliness. These features of the transport systems are among the most important topics in transportation areas, across all modes of transportation, including road, water, rail and air. The theme of ICTIS 2025 is “Transportation+Artificial Intelligence & Green Energy: Making a Sustainable World”, which includes a broad range of topics related to the theories, technologies and applications of transportation information and safety technology.

We would like to offer our sincere thanks to the conference sponsors: China Communications and Transportation Association (CCTA), Canadian Society for Civil Engineering (CSCE), and IEEE Intelligent Transportation Systems Society (IEEE-ITSS) for their support. Many people have made significant contributions to the conference organization of ICTIS 2025. We highly appreciate academic committee members for their technical review work. We thank the keynote speakers, invited speakers, and all of the authors for their effort and time to make this event happen. We would also like to thank all members of the Organizing Committee.

The conference should be an excellent platform to exchange original new ideas and technical findings. The conference has received 332 full papers from researchers in several countries and regions, among which 298 papers have been accepted by ICTIS 2025. There will be 18 technical sessions at ICTIS 2025. We hope that the technical discussion and idea exchange taking place during the conference will benefit your future research.

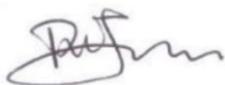
We hope you have a wonderful stay in Granada, Spain and enjoy the conference.



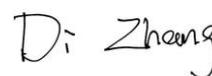
**Daniel Arias-Aranda (Chair)**  
**Professor,**  
Department of Business Management I,  
University of Granada, Spain



**Chaozhong Wu (Chair)**  
**Professor,**  
Director of National Engineering Research  
Center for Water Transport Safety, China



**Jun Ren (Chair)**  
**Professor,**  
Liverpool John Moores University, UK



**Di Zhang (Chair)**  
**Professor, Vice President,**  
Wuhan University of Technology, China

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# CONFERENCE ORGANIZATION

## **Sponsored by**

China Communications and Transportation Association: CCTA

Canadian Society for Civil Engineering: CSCE

IEEE Intelligent Transportation Systems Society: IEEE ITSS

## **Hosted by**

University of Granada, Spain

Wuhan University of Technology, China

Liverpool John Moores University, UK

## **Supported by**

State Key Laboratory of Maritime Technology and Safety, MOST, China;

National Engineering Research Center for Water Transport Safety, MOST, China;

Base of Foreign Outstanding Expertise-Introduction for Disciplines Innovation for Smart Shipping and Maritime Safety (111Project), MOE, China;

Base for International Science & Technology Cooperation on Smart Shipping and Maritime Safety;

Engineering Research Center for Transportation Information and Safety, MOE, China;

IEEE ITSS --Intelligent Waterborne Transportation Systems Technical Committee;

Youth Science and Technology Workers Committee of China Communications and Transport Association;

Professional Committee of Intelligent Transportation, China Association for Artificial Intelligence;

East Lake Laboratory, Wuhan, China;

Hubei Key Laboratory of Cooperative Vehicle Infrastructure and Traffic Control, Wuhan, China.

# ORGANIZING COMMITTEE

## Honorary Chairman

**YAN, Xinping**, Academician, Chinese Academy of Engineering, Professor, Wuhan University of Technology, China.

## Chairman

**ARIAS-ARANDA, Daniel**, Professor, University of Granada, Spain.

**REN, Jun**, Professor, Liverpool John Moores University, UK.

**WU, Chaozhong**, Professor, National Engineering Research Center for Water Transport Safety, China.

**ZHANG, Di**, Professor, Wuhan University of Technology, China.

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**ZHANG, Hui**, Professor, Intelligent Transportation Systems Research Center, Wuhan University of Technology, China.

## Executive Vice-Chairman

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**WU, Bing**, Professor, Intelligent Transportation Systems Research Center, Wuhan University of Technology, China.

## Members

**ARJONA SÁNCHEZ, Miguel**, Professor of Law, University of Granada, Spain.

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**CRUZ MIRANDA, Javier**, Professor of Computer Engineering, Automatics and Robotics, University of Granada, Spain.

**CRUZ ORTÍZ, Rocío**, Professor of Spanish Language, University of Granada, Spain.

**DÍAZ BRETONES, Francisco**, Dean of the Faculty of Human Resources and Labor Relations, University of Granada, Spain.

**DING, Naikan**, Associate Professor, Intelligent Transportation Systems Research Center, Wuhan University of Technology, China.

**FAN, Shiqi**, Professor, Wuhan University of Technology, China.

**FAN, Liang**, Associate Professor, Intelligent Transportation Systems Center, Wuhan University of Technology, China.

**FERNÁNDEZ DE MOLINA ORTÉS, Elena**, Professor of Spanish Language, University of Granada, Spain.

**GARCÍA LÓPEZ, Ana Isabel**, University of Granada, Spain.

**GARCÍA LÓPEZ, Pedro**, Professor of Statistics, University of Granada, Spain.

**HUANG, Yamin**, Professor, National Engineering Research Center for Water Transport Safety, Wuhan University of Technology, China.

**JIANG, Zhonglian**, Professor, Intelligent Transportation Systems Research Center, Wuhan University of Technology, China.

**JIMÉNEZ LINARES, Mar á Jesús**, Professor of Law, University of Granada, Spain.

**LIU, Jialun**, Professor, Intelligent Transportation Systems Research Center, Wuhan University of Technology, China.

**LYU, Nengchao**, Professor, National Engineering Research Center for Water Transport Safety, Wuhan University of Technology, China.

**MOLINA MORENO, Valent ín**, Professor of Management, University of Granada, Spain.

**RÍOS DE HARO, Manuel**, Professor of Management, University of Granada, Spain.

**WAN, Chengpeng**, Associate Professor, Intelligent Transportation Systems Center, Wuhan University of Technology, China.

**WALUCH DE LA TORRE, Edyta**, Professor of Spanish Language, University of Granada, Spain.

**XU, Kun**, Executive Editor, Journal of Transportation Information and Safety, China.

**YIN, Jianhua**, Associate Professor, Beijing Institute of Technology, China.

**ZHANG, Cunbao**, Professor, Intelligent Transportation Systems Research Center, Wuhan University of Technology, China.

### **Conference Secretary**

**TIAN, Kai**, Assistant Professor, Intelligent Transportation Systems Center, Wuhan University of Technology, China.

**LIU, Bao**, Lecturer, School of Transportation and Logistics Engineering, Wuhan University of Technology, China.

**LIU, Yang**, Postdoctoral Researcher, Intelligent Transportation Systems Center, Wuhan University of Technology, China.

**WEI, Changyin**, Postdoctoral Researcher, Intelligent Transportation Systems Center, Wuhan University of Technology, China.

**GARZA, Patricia Brañas**, CEO of GRXWorkshop, Spain.

**LU, Yu**, Administrative Assistant, Intelligent Transportation Systems Research Center, Wuhan University of Technology, China.

## ACADEMIC COMMITTEE

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### *Chairman:*

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**ZIO, Enrico**, Professor, Polytechnic University of Milan, Italy.

### *Members:*

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**CHEN, Deshan**, Associate Professor, Wuhan University of Technology, China.

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**DING, Naikan**, Associate Professor, Intelligent Transportation Systems Research Center, Wuhan University of Technology, China.

**DONG, Ni**, Associate Professor, Southwest Jiaotong University, China.

**FAN, Shiqi**, Professor, Intelligent Transportation Systems Research Center, Wuhan University of Technology, China.

**FERNÁNDEZ ANTELO, Luis**, Judge at the Superior Court of Madrid. Former référendaire at Luxembourg's EU General Tribunal, Spain.

**FU, Liping**, Professor, Department of Civil & Environmental Engineering, University of Waterloo, Waterloo, Canada.

**FU, Shanshan**, Professor, Shanghai Maritime University, China.

**FU, Xiuju**, Professor, Institute of High Performance Computing, Agency for Science, Technology and Research (A\*STAR), Singapore.

**GUO, Yanyong**, Professor, School of Transportation, Southeast University, China.

**HE, Yi**, Professor, School of Transportation and Logistics Engineering, Wuhan University of Technology, China.

**HUANG, Yamin**, Professor, Intelligent Transportation Systems Research Center, Wuhan University of Technology, China.

**JIANG, Zhonglian**, Professor, Intelligent Transportation Systems Research Center, Wuhan University of Technology, China.

**LIU, Jialun**, Professor, Intelligent Transportation Systems Research Center, Wuhan University of Technology, China.

**LIU, Yuanchang**, Associate Professor, University College London, UK.

**LYU, Nengchao**, Professor, National Engineering Research Center for Water Transport Safety, Wuhan University of Technology, China.

**QIN, Zheng**, Senior Principal Scientist, Institute of High Performance Computing (IHPC), Agency for Science, Technology and Research (A\*STAR), Singapore.

**RAFET EMEK, Kurt**, Professor, Maritime Human Factors Centre, University of Strathclyde Glasgow, UK.

**RONG, Hao**, Research Fellow, Liverpool John Moores University, UK.

**THEOTOKATOS, Gerasimos**, Professor, Ocean & Marine Engineering, University of Strathclyde, UK.

**WANG, Lei**, Professor, College of Safety Science and Engineering, Civil Aviation University of China, China.

**WANG, Tiantian**, Professor, Central South University, China.

**WEI, Chongfeng**, Associate Professor, University of Glasgow, Scotland, UK.

**WU, Bing**, Professor, Intelligent Transportation Systems Research Center, Wuhan University of Technology, China.

**XIA, Xin**, Doctor, University of Michigan, Dearborn, US.

**XIANG, Xianbo**, Professor, Huazhong University of Science and Technology, China

**XIAO, Jinsheng**, Professor, Wuhan University of Technology, China.

**YANG, Zaili**, Professor, Liverpool John Moores University, UK.

**YANG, Zhen**, Associate Professor, Chongqing Jiaotong University, China.

**YIN, Jianhua**, Associate Professor, Beijing Institute of Technology, China.

**YUAN, Chengqing**, Chief Professor of the Discipline, Dean, School of Transportation and Logistics Engineering, Wuhan University of Technology, China.

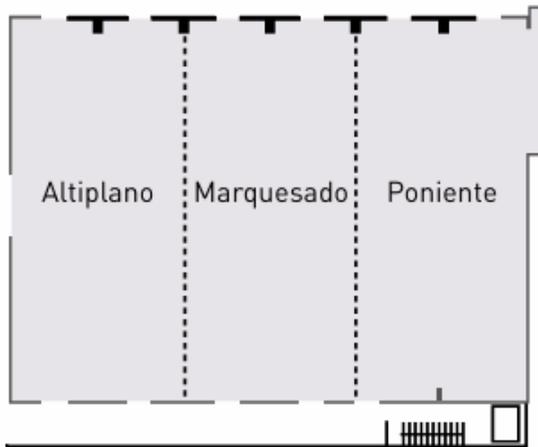
**ZHANG, Cunbao**, Professor, Intelligent Transportation Systems Research Center, Wuhan University of Technology, China.

**ZHAO, Jing**, Professor, Business School, University of Shanghai for Science and Technology, China.

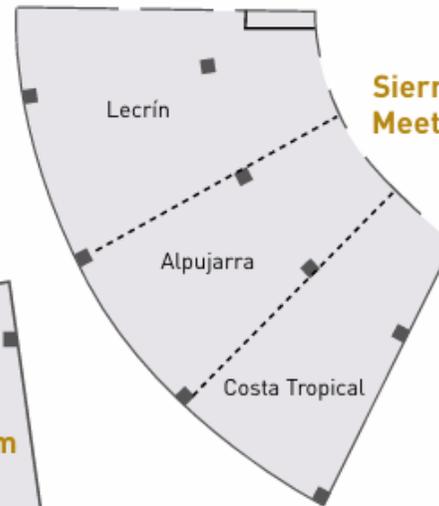
**ZHONG, Ming**, Professor, Intelligent Transportation Systems Research Center, Wuhan University of Technology, China.

**VENUE MAP**

**Granada Meeting Room**



**Loja Meeting Room**



**Sierra Nevada Meeting Room**

## How to arrive Hotel Abades Nevada Palace Granada

### GETTING TO GRANADA

Granada is well connected by air and land, allowing easy access to the city by various means of transport: bus, taxi, car, train and plane. Granada Airport is 20 km from Granada and has very good communications with the capital.

### From Granada-Jaén (GRX) Airport to Hotel Ctra. de Málaga, 18329 Chauchina, Granada

Search along the route... Gas EV charging Hotels Calicasas Cogollos Vega

Best 19 min 2h 12m 4h 18m 1h 4m

Federico Garcia Lorca Granada Airport

Hotel Abades Nevada Palace, C. de la Su

Add destination

Leave now Options

Send directions to your phone Copy link

via Autovia de Santa Fe a Granada/A-92G and GR-30	19 min	23.0 km
Fastest route, the usual traffic		
⚠️ This route has tolls.		
Details		
via A-4075, Autovia de Santa Fe a Granada/A-92G and GR-30	21 min	24.8 km
via A-92 and GR-30	23 min	29.5 km

Explore nearby Hotel Abades Nevada Palace

### From Train Station to Hotel Av. de Andaluces, 20, 18014 Granada

Search along the route... Gas EV charging Hotels ALBAICÍN

Best 10 min 21 min 1h 2m 18 min

Granada, Av. de Andaluces, 20, Beiro, 18014

Hotel Abades Nevada Palace, C. de la Su

Add destination

Leave now Options

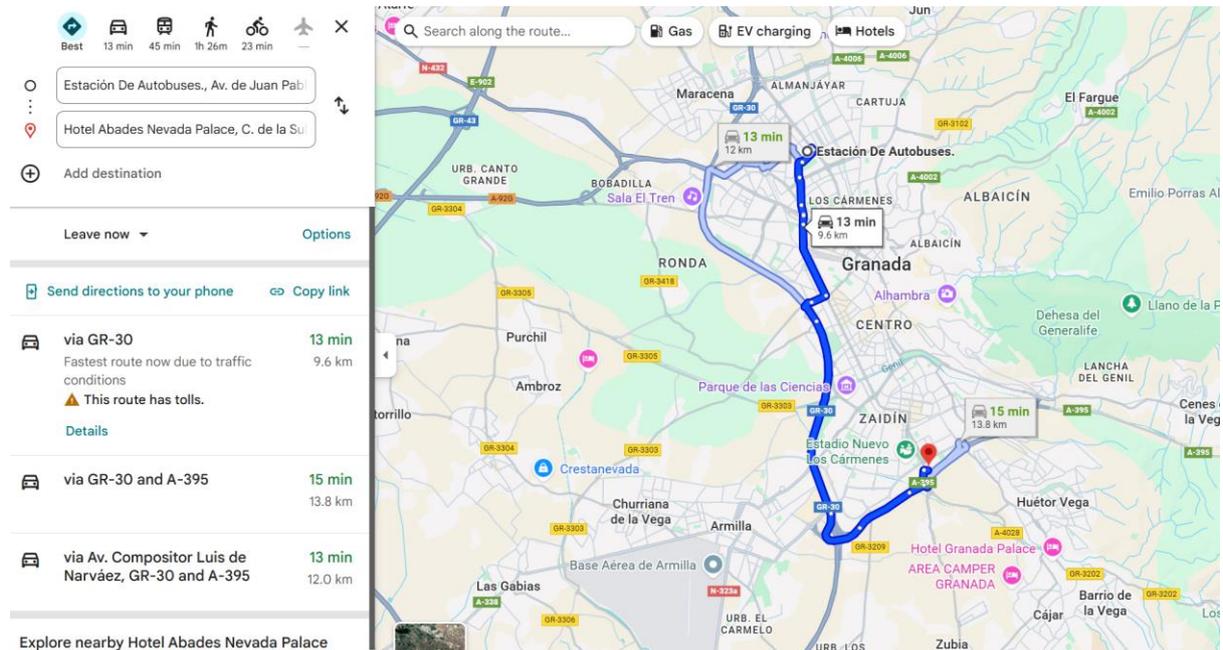
⚠️ We don't have the most recent timetables for this area.

Send directions to your phone Copy link

via GR-30	10 min	8.1 km
Fastest route now due to traffic conditions		
⚠️ This route has tolls.		
Details		
via GR-30 and A-395	12 min	9.8 km
6:32 AM—6:53 AM	21 min	

## From Bus Station to Hotel

Av. de Juan Pablo II, s/n, 18014 Granada



## GETTING AROUND GRANADA

City Bus (line 8 to Hotel Abades Nevada Palace)

Metro (Palacio de Deportes station is close to the hotel).

Taxi

Pide Taxi Granada: (+34) 958 28 00 00

Radio Taxi Genil: (+34) 958 13 23 23

# PROGRAM GLANCE

Registration: Hallway		
July 16 15:00-20:00	July 17 08:30-15:00	July 18 08:30-10:00

Thursday(July 17, 2025)	
9:00-9:35	<b>Opening Ceremony: Granada Meeting Room Altiplano</b>
9:35-9:45	<b>Group Photo</b>
9:45-11:15	<b>Plenary Session/Keynote Speech: Granada Meeting Room Altiplano</b>
11:15-11:30	<b>Coffee Break</b>
11:30-13:30	<b>Plenary Session/Keynote Speech: Granada Meeting Room Altiplano</b>
13:30-14:30	<b>Lunch Buffet</b>
14:30-16:30	<b>A1: Advanced Transportation Information and Control Engineering, Sierra Nevada Meeting Room--Lecrin</b>
	<b>A2: Transportation Behavior, Safety and Security-1, Sierra Nevada Meeting Room--Alpujarra</b>
	<b>A3: Special Session: EU Project, Sierra Nevada Meeting Room--Costa Tropical</b>
	<b>A4: Green, Intelligent, and Connected Vehicles-1, Loja Meeting Room</b>
16:30-17:00	<b>Coffee Break</b>
17:00-19:00	<b>B1: Traffic Operation and Transportation System Management, Sierra Nevada Meeting Room--Lecrin</b>
	<b>B2: Rail Transportation &amp; Aviation Intelligent Management and Safety, Sierra Nevada Meeting Room--Alpujarra</b>
	<b>B3: Special Session: IWTS &amp; ATRes, Sierra Nevada Meeting Room--Costa Tropical</b>
	<b>B4: Green, Intelligent, and Connected Vehicles-2, Loja Meeting Room</b>
20:00	<b>Gala Dinner: Abades Nevada Hotel, Marquesado</b>

Friday (July 18, 2025)	
9:00-10:30	<b>C1: Autonomous Ships and Smart Shipping-1, Sierra Nevada Meeting Room--Lecrin</b>
	<b>C2: Waterborne Transportation Safety, Accident Prevention and Emergency Response-1, Sierra Nevada Meeting Room--Alpujarra</b>
	<b>C3: Transportation Environment and Sustainability, Sierra Nevada Meeting Room--Costa Tropical</b>
10:30-11:00	<b>Coffee Break</b>

11:00-13:00	<b>D1: Autonomous Ships and Smart Shipping-2, Sierra Nevada Meeting Room--Lecrin</b>
	<b>D2: Reliability and Green Technology for Ships-1, Sierra Nevada Meeting Room--Alpujarra</b>
	<b>D3: Waterborne Transportation Safety, Accident Prevention and Emergency Response-2, Sierra Nevada Meeting Room--Costa Tropical</b>
13:00-14:30	<b><i>Lunch Buffet</i></b>
14:30-16:30	<b>E1: Waterborne Transportation Intelligent Management, Sierra Nevada Meeting Room--Lecrin</b>
	<b>E2: Reliability and Green Technology for Ships-2, Sierra Nevada Meeting Room--Alpujarra</b>
	<b>E3: Transportation Behavior, Safety and Security-2, Sierra Nevada Meeting Room--Costa Tropical</b>
16:30-17:00	<b><i>Coffee Break</i></b>
17:00-19:00	<b>F1: TBD, Sierra Nevada Meeting Room--Lecrin</b>
	<b>F2: Reliability and Green Technology for Ships-3, Sierra Nevada Meeting Room--Alpujarra</b>
	<b>F3: TBD, Sierra Nevada Meeting Room--Costa Tropical</b>
19:00-22:00	<b><i>Closing Ceremony</i></b>

<b>Saturday (July 19, 2025)</b>	
9:00-10:30	<b>Campus Tour at University of Granada</b>

# CONFERENCE PROGRAM

Thursday (July 17, 2025)	
<p><i>Opening Ceremony and Keynote Speech</i>  <b>Venue: Granada Meeting Room Altiplano</b></p>	
<p><i>Opening Remarks</i>  <b>Chair: ARIAS-ARANDA, Daniel</b>, Professor, University of Granada</p>	
9:00-9:35	<p><b>Mayor of Granada</b>  <b>ZHANG, Chunzhi</b>, Professor, Vice President, China Communications and Transportation of Association Representative, China. (Video)  <b>FU, Liping</b>, CSCE Representative, University of Waterloo, Canada.  <b>LU, Meng</b>, IEEE, Representative, Vice President for Industry &amp; Standards Activities, IEEE Intelligent Transportation Systems Society.  <b>TBD</b>, Professor, University of Granada  <b>YAN, Xinping</b>, Academician of Chinese Academy of Engineering, Professor, Wuhan University of Technology, China.  <b>REN, Jun</b>, Professor, Liverpool John Moores University, UK.</p>
9:35-9:45	<p><i>Group Photo</i></p>
<p><i>Keynote Speech</i>  <b>Chair: ZHANG, Di</b>, Professor, Wuhan University of Technology, China</p>	
9:45-10:15	<p><b>Title: Challenges to the Development of Maritime Autonomous Surface Ships</b>  <b>GUEDES SOARES, Carlos</b>, University of Lisbon, Fellow of the Portuguese Academy of Engineering, Portugal.</p>
10:15-10:45	<p><b>Title: Advancing Transportation Safety and Efficiency Using AI and Big Data</b>  <b>FU, Liping</b>, Department of Civil and Environmental Engineering, University of Waterloo, Canada.</p>
10:45-11:15	<p><b>Title: AI and Telco Industry Joined to Boost Disaster Recovery Through Autonomous Networks Hyperloops</b>  <b>CLARET TREMPS, Jesús</b>, Head of Strategic Projects and Business Development at MasOrange, Spain.</p>
11:15-11:30	<p><i>Coffee Break</i></p>
<p><i>Keynote Speech</i>  <b>Chair: REN, Jun</b>, Professor, Liverpool John Moores University, UK.</p>	
11:30-12:00	<p><b>Title: TBD</b>  <b>DEGIULI, Nastia</b>, Faculty of Mechanical Engineering and Naval Architecture, University of Zagreb, Croatia.</p>
12:00-12:30	<p><b>Title: From Automation to Resilience: Rethinking Maritime Safety in the Age of AI</b>  <b>YANG, Zaili</b>, Professor, Liverpool John Moores University, UK.</p>

12:30-13:00	<b>Title: Key Technology of Intelligent Control and Safety Improvement for Connected Transportation Systems</b> <b>ZHANG, Hui</b> , Professor, Intelligent Transportation Systems Research Center, Wuhan University of Technology, China.
13:00-13:30	<b>Title: Use of Dual-Use Items During Natural Disasters on the Necessity of A Change of Paradigm in the New Scenario of Global Catastrophes</b> <b>ANTELO FERNADEZ, Luis</b> , Judge at the Superior Court of Madrid. Former R ��rendaire at Luxembourg 's EU General Tribunal, Spain.
13:30-14:30	<i>Lunch Buffet</i>

## TECHNICAL PRESENTATION

### A1: Advanced Transportation Information and Control Engineering

**CHAIR:** Nengchao Lyu, Professor, Wuhan University of Technology, China.

**TIME:** 14:30-16:30, July 17, 2025

**VENUE:** Sierra Nevada Meeting Room--Lecrin

<b>INVITED SPEECH:</b> 14:30-14:50			
<b>Title:</b> An Enhanced Motion Planning Approach by Integrating Driving Heterogeneity and Long-term Trajectory Prediction for Automated Driving Systems			
<b>Presenter:</b> Ni Dong, Associate Professor, Southwest Jiaotong University, China.			
PRESENTATION	PAPER ID	TIME	PRESENTER
Graph-Based Multi-Target Association for AIS and Video Data in Complex Waterways	142	14:50-15:05	Yuxu Lu
Generalizable Representation Learning for Day-Night Cross-domain Vehicle Association	235	15:05-15:20	Zhanwen Liu
Modeling of Urban Travel Pattern in Morning Peak Hours: A Case in Chengdu	303	15:20-15:35	Xi Wang
Robust Koopman Model Predictive Path Following Control for Unmanned Surface Vehicles	344	15:40-15:55	Yingjie Tang
Optimization Model for Location Selection of Emergency Guard Points in Highway Tunnels Based on Accident Analysis	99	15:55-16:10	Bencheng Zhu

### A2: Transportation Behavior, Safety and Security-1

**CHAIR:** Hui Zhang, Professor, Wuhan University of Technology, China.

**TIME:** 14:30-16:30, July 17, 2025

**VENUE:** Sierra Nevada Meeting Room-- Alpujarra

<b>INVITED SPEECH:</b> 14:30-14:50			
<b>Title:</b> Smart Traffic Conflict Technique and its Application			
<b>Presenter:</b> Yanyong Guo, Professor, School of Transportation, Southeast University, China.			
PRESENTATION	PAPER ID	TIME	PRESENTER
Vehicle Trajectory Extraction from UAV-Captured Traffic Surveillance Videos	22	14:50-15:05	Fei Ma
An Advanced Hybrid Framework for Predicting Drivers' Perception and Response Times in Car-Following Risks in Connected Environments	41	15:05-15:20	Rui Ding
Exploring the Applications of Big Data in Transportation Safety Research: A Systematic Review	114	15:20-15:35	Yanjie He

Integrated Solution for Rapid Monitoring of Physiological Conditions of Drivers in "Coach and Hazardous Material Transport Vehicles" Before Departure	124	15:40-15:55	Siying Mao
Assessing the Maritime Traffic Flow Complexity based on Dynamic Density	158	15:55-16:10	Chengpeng Wan
A Review of Autonomous Vehicle Safety in Mixed Traffic Environments Based on Bibliometric Analysis	164	16:10-16:25	Yijun Zhang
Understanding social factors influencing emergency response to housing loss	382	16:25-16:40	Contreras-Montero Barbara

### A3: Special Session: EU Project

**CHAIR: Jun Ren, Professor, Liverpool John Moores University, UK**

**TIME: 14:30-16:30, July 17, 2025**

**VENUE: Sierra Nevada Meeting Room-- Costa Tropical**

<b>INVITED SPEECH: 14:30-14:50</b>			
<b>Title:</b> Long Term Industry Collaboration: A Case Study of the Risktec - LJMU Partnership			
<b>Presenter:</b> Ben Matellini, Senior Lecture, Liverpool John Moores University, UK			
PRESENTATION	PAPER ID	TIME	PRESENTER
A holistic Approach to Smart Connected Multimodal Transportation for Resilient and Sustainable Rural Logistics and Mobility	416	14:50-15:05	Javier Cruz Miranda
Distributed Acoustic Sensing: an urban traffic monitoring technology for intelligent traffic control in disaster management	220	15:05-15:20	Izhan Fakhruzi
Enhancing Supply Chain Resilience Through HR Practices in Transportation	345	15:20-15:35	Omolomo Tobora
Supply Chain Risk Management Practice in Thailand	258	15:40-15:55	Jirapan Liangrokapart
Electrochemical Approaches for Decarbonizing Chemical Production	Guest Speaker	15:55-16:10	Manila Ozhukil Valappil
From REMESH to SIMULANT: EU RISE project and Tutor-Tutee programme	Guest Speaker	16:10-16:25	Jun Ren

### A4: Green, Intelligent, and Connected Vehicles-1

**CHAIR: Kai Tian, Assistant Professor, Intelligent Transportation Systems Center, Wuhan University of Technology, China.**

**TIME: 14:30-16:30, July 17, 2025**

**VENUE: Loja Meeting Room**

**INVITED SPEECH:** 14:30-14:50

**Title:** Multi-modal Human-machine Interaction Evaluation of Intelligent Cockpit Based on Ergonomics

**Presenter:** Tao Wang, Professor, Guilin University of Electronic Technology, China.

PRESENTATION	PAPER ID	TIME	PRESENTER
A Laser-Based Autonomous Navigation Method for Propelled Modular Transporters in Mixed Indoor-Outdoor Environments	7	14:50-15:05	Jianxin Liu
An Aerial-ground Cooperative Positioning Method for Intelligent and Connected Vehicles under GNSS-denied Environments	36	15:05-15:20	Luyao Du
Recommendations for driving behavior considering fuel economy based on deep reinforcement learning	40	15:20-15:35	Shuai Wang
Quintic Polynomial Path Planning Integrating Fuzzy Logic for Intelligent Mine Trucks in Unmapped Underground Mines	117	15:40-15:55	Jinper Feng
Toward Imaging Enhancement of Unmanned Mine Truck via Edge-guided Cycle-GAN	169	15:55-16:10	Jingming Zhang

## B1: Traffic Operation and Transportation System Management

**CHAIR:** Cunbao Zhang, Professor, Wuhan University of Technology, China.

**TIME:** 17:00-19:00, July 17, 2025

**VENUE:** Sierra Nevada Meeting Room-- Lecrin

**INVITED SPEECH:** 17:00-17:20

**Title:** Generalizable Representation Learning for Day-Night Cross-domain Vehicle Association

**Presenter:** Zhanwen Liu, Professor, Chang'an University, China.

PRESENTATION	PAPER ID	TIME	PRESENTER
Integrated Operation Scheduling of Direct-handling Bulk Ports Based on Constraint Programming	29	17:20-17:35	Xuan Lu
Study on the Flow Suitability of Long-distance Bulk Cargo Transportation	246	17:35-17:50	Qi He
An Association Analytical Model on Ship Deficiencies from the Complex Network Perspective: Case of Data from the Tokyo MOU	249	17:50-18:05	Shenping Hu
Comprehensive Benefit Evaluation of High Dam Turnover Logistics Mode in Bulk Cargo Mountainous Area	251	18:05-18:20	Bo Wang
Real-time Traffic Congestion Prediction Considering Safety Factors: A Novel Online Learning Method with Attention Mechanism and Multi-LSTM-based Integrated Learning	317	18:20-18:35	Zhaoyou Lu

The value of Internet of Things IoT and Blockchain technologies in the supply chain of emergency resources in disasters. Especially in traffic operation and transportation system management	396	18:35-18:50	Jiménez Linares María Jesús
A holistic approach to smart connected multimodal transportation for resilient and sustainable rural logistics and mobility	416	18:50-17:05	Cruz Miranda Javier

## B2: Rail Transportation & Aviation Intelligent Management and Safety

**CHAIR:** Changyin Wei, Postdoctoral Researcher, Wuhan University of Technology, China.

**TIME:** 17:00-19:00, July 17, 2025

**VENUE:** Sierra Nevada Meeting Room--Alpujarra

<b>INVITED SPEECH:</b> 17:00-17:20 <b>Title:</b> TBD <b>Presenter:</b> Zhen Yang, Assistant Professor, Delft University of Technology, Netherlands.			
PRESENTATION	PAPER ID	TIME	PRESENTER
Collision Risk Model in the Arrival Procedures	111	17:20-17:35	Taobo Wang
Conflict Detection and Resolution of UAV Based on Three-dimensional Scenes in Converged Airspace	115	17:35-17:40	Lili Wang
Dynamic Modelling of Rolling Element Bearings With Asymmetric Edges Evolution Characteristics of Raceway Defect	431	17:40-17:55	Jiahang Li
Experimental Study for Structural Optimization Design of Human Expiratory Boundary Conditions in Indoor Environments	432	17:55-18:10	Hang Zhang

## B3: Special Session: IWTS & ATRes

**CHAIR:** Carlos Guedes Soares, Portuguese Academy of Engineering, Professor, Center for Marine Technology and Ocean Engineering, University of Lisbon, Portugal.

Xinping Yan, Academician, Chinese Academy of Engineering, Wuhan University of Technology, China.

**TIME:** 17:00-19:00, July 17, 2025

**VENUE:** Sierra Nevada Meeting Room--Costa Tropical

## B4: Green, Intelligent, and connected Vehicles-2

**CHAIR:** Kai Tian, Assistant Professor, Intelligent Transportation Systems Center, Wuhan University of Technology, China.

**TIME:** 17:00-19:00, July 17, 2025

**VENUE:** Loja Meeting Room

**INVITED SPEECH:** 17:00-17:20

**Title:** Social Spatio-Temporal Graph Convolutional Neural Network for Pedestrian Trajectory Prediction

**Presenter:** Yao Wu, Professor, Nanjing University of Posts and Telecommunications, China.

PRESENTATION	PAPER ID	TIME	PRESENTER
A Driving Risk-Field Based Car-Following Model for Connected Autonomous Vehicles: Integrating Risk-end Crash Risk and Multi-Vehicles Dynamics	253	17:20-17:35	Hengyu Xue
Optimization of Drug Transportation Logistics for Home Isolation Patients: A Case Study in Thailand	363	17:35-17:50	Duangpun Kritchanhai
Assessment of Alternatives and Optimisation Framework for Sustainable Power-barges	434	17:50-18:05	Panagiotis Sotiralis

## C1: Autonomous Ships and Smart Shipping-1

**CHAIR:** Zheng Qin, Senior Principal Scientist, Agency for Science, Technology and Research

(A\*STAR), Singapore.

**TIME:** 9:00-10:30, July 18, 2025

**VENUE:** Sierra Nevada Meeting Room-- Lecrin

**INVITED SPEECH:** 9:00-9:20

**Title:** Ship Collision Avoidance Behaviour Recognition and Analysis

**Presenter:** Hao Rong, Research Fellow, Liverpool John Moores University, UK.

PRESENTATION	PAPER ID	TIME	PRESENTER
Motion Modeling and Course-Keeping Control for Dual-Podded-Propulsion Ship	28	9:20-9:35	Yunhe Lin
A Novel Cluster-based MIMO Channel Model for UAV-to-Ship Communications	32	9:35-9:40	Wei Chen
LiCOS: Towards Advanced Onboard Maritime Sensing with LiDAR-Camera Fusion	33	9:40-9:55	Zexi Chen
Enhancing Ship Fuel Consumption Prediction: A Comprehensive Machine Learning Framework with Feature Selection and Explainability Technique	38	9:55-10:10	Xinjian Wang
Ship Encountering Scenario Extraction and Characterization For supporting Autonomous Navigation Test	123	10:10-10:25	Xuri Xin
Research on the Optimization of Ship Berthing Trajectory Under the Coupling Action of Wind and Current	87	10:25-10:40	Zhaofeng Song

## C2: Waterborne Transportation Safety, Accident Prevention and Emergency Response-1

**CHAIR:** Rafet Emek Kurt, Professor, University of Strathclyde, UK.

**TIME:** 9:00-10:30, July 18, 2025

**VENUE:** Sierra Nevada Meeting Room--Alpujarra

**INVITED SPEECH:** 9:00-9:20

**Title:** Arctic Shipping Risk Management: Evolution Trends and Influencing Factors Analysis of Maritime Accidents

**Presenter:** Shanshan Fu, Professor, Shanghai Maritime University, China.

PRESENTATION	PAPER ID	TIME	PRESENTER
A Dynamic Graph-based Clustering Algorithm for Extracting Multi-Vessel Encounters	26	9:20-9:35	Yuerong Yu
A Dynamic Vessel Cluster Identification Method for Cooperative Collision Risk Control	27	9:35-9:40	Yanting Tong
Forming Mechanism of Unsafe Acts of Ship Officers Driven by Accident Data	85	9:40-9:55	Yongtao Xi
Analysis of Safety Performance Evaluation Indicators for Ferry Crew Based on Improved DEMATEL and Complex Network Theory	92	9:55-10:10	Ziyi Cao
Preliminary risk analysis of bunkering operations for hydrogen-powered ships	386	10:10-10:25	Hao Chen, Shanshan Fu

### C3: Transportation Environment and Sustainability

**CHAIR:** Hui Zhang, Professor, Wuhan University of Technology, China.

**TIME:** 9:00-10:30, July 18, 2025

**VENUE:** Sierra Nevada Meeting Room-- Costa Tropical

**INVITED SPEECH:** 9:00-9:20

**Title:** Ethical Challenges in Sustainable Transportation Systems and Digital Infrastructure

**Presenter:** Meng Lu, Executive Committee Member / VP Standards Activities, IEEE (Institute of Electrical and Electronics Engineers) Intelligent Transportation Systems Society.

PRESENTATION	PAPER ID	TIME	PRESENTER
Rule-based Energy Management Strategy Testing and Verification on a Multi-energy Ship Test Platform	161	9:20-9:35	Hanyou Liu
A Double-layer Planning Model for AC/DC Hybrid Distribution Network Architecture and Wind Turbines Considering Economics and Carbon Emissions in Port	218	9:35-9:40	Xinhao Bian, Yupeng Yuan
Characterizing Driver Behavior Patterns in Driver Assistance Systems under Different Lighting Conditions A Driving Simulator Study	429	9:40-9:55	Yun Wang, Yu Zhou
Impact of Cascading Failures on Shipping Network Resilience	208	9:55-10:10	Yuhao Cao
Research on the Anti-corrosion Performance of HNS Spill Containment Materials on Water	320	10:10-10:25	Wei Cao

### D1: Autonomous Ships and Smart Shipping-2

**CHAIR:** Hao Rong, Research Fellow, Liverpool John Moores University, UK.

**TIME:** 11:00-13:00, July 18, 2025

**VENUE: Sierra Nevada Meeting Room-- Lecrin**

**INVITED SPEECH 1:** 11:00-11:20

**Title:** Innovations in Transportation Systems Driven by AI, Modelling and Simulation (AIMS)

**Presenter:** Zheng Qin, Senior Principal Scientist, Agency for Science, Technology and Research (A\*STAR), Singapore.

**INVITED SPEECH 2:** 11:20-11:40

**Title:** Autonomous' Shipping, Operations, etc.- Everything in the Loop: Status and Challenges

**Presenter:** Nikolaos Ventikos, Professor, National Technical University of Athens, Greece.

PRESENTATION	PAPER ID	TIME	PRESENTER
A Ship Path Planning Method Considering Water Depth Based on Improved Dijkstra Algorithm	176	11:40-11:55	Bowen Lin
Cognitive Load and Task Complexity: Effects on Crew Performance in Remote Ship Control	150	11:55-12:10	Wenchen Lyu
Hierarchical Multi-Plan Decision-making in Merging Mixed Waterways Based on Stackelberg Game	371	12:10-12:25	Zhuoyi Li
A multi-vessel cooperative positioning method based on factor graph	377	12:25-12:40	Xin Xiong
Online Estimation Method of Rolling Bearing Health Index Based on Wavelet Features and Particle Filtering	397	12:40-12:55	Yangrui Ge
Intelligent Tugboat Scheduling for Port Seaside Operations	418	12:55-13:10	Yaqiong Lv

**D2: Reliability and Green Technology for Ships-1**

**CHAIR:** Jinsheng Xiao, Professor, Wuhan University of Technology, China.

**TIME:** 11:00-13:00, July 18, 2025

**VENUE:** Sierra Nevada Meeting Room--Alpujarra

**INVITED SPEECH 1:** 11:00-11:20

**Title:** Coherent Structures in the Wake of a Rim-driven Thruster

**Presenter:** Maarten Vanierschot, Professor, Department of Mechanical Engineering, KU Leuven, Belgium.

**INVITED SPEECH 2:** 11:20-11:40

**Title:** Numerical Modeling and Hydrodynamic Characteristics Analysis of a Contra-rotating Rim-driven Thruster

**Presenter:** Bao Liu, Lecturer, School of Transportation and Logistics Engineering, Wuhan University of Technology, China.

PRESENTATION	PAPER ID	TIME	PRESENTER
Experimental Study on Optimization and Characteristics of Onboard Carbon Capture System	10	11:40-11:55	Zhonghao Wang
Construction of a Knowledge Graph for Marine Diesel Engine Fault Diagnosis Enhanced by Large Language Models	18	11:55-12:10	Mingjian Lu, Lanfang Chu
Numerical Simulation of Hydrogen Leakage Acoustic Waves From Fuel Cell Ships	42	12:10-12:25	Zhengkai Rao

MPC Strategy for Hybrid Ships Based on Markov Model	45	12:25-12:40	Ting Liu
Double PID Control Strategy for Marine PEMFC-MH Thermal Management System	54	12:40-12:55	Gaoqiang Zeng, Yupeng Yuan

### D3: Waterborne Transportation Safety, Accident Prevention and Emergency Response-2

**CHAIR:** Shanshan Fu, Professor, Shanghai Maritime University, China

**TIME:** 11:00-13:00, July 18, 2025

**VENUE:** Sierra Nevada Meeting Room-- Costa Tropical

<b>INVITED SPEECH 1:</b> 11:00-11:20			
<b>Title:</b> Real-Time Intelligent Maritime Accident Prediction and Prevention System for Narrow Waterways			
<b>Presenter:</b> Özkan UĞURLU, Professor, Ordu University, Turkey.			
PRESENTATION	PAPER ID	TIME	PRESENTER
Research on Multi-Ship Collision Avoidance Game Method Based on Markov Decision Process	247	11:40-11:55	Ruyao Zhong
Research on the Blocking Effect of Ship Fires in Large Ship Navigation Tunnels	401	11:55-12:10	Muyang Li
Data-driven BN and DBN Models Prediction Performance for Ship Collision Risk Assessment	414	12:10-12:25	Zaili Yang
Study on Optimization Model of Ro-Ro Fleet Scheduling for Multi-Type Transportation Demands	368	12:25-12:40	Yukuan Wang

### E1: Waterborne Transportation Intelligent Management

**CHAIR:** Shiqi Fan, Professor, Wuhan University of Technology, China.

**TIME:** 14:30-16:30, July 18, 2025

**VENUE:** Sierra Nevada Meeting Room-- Lecrin

<b>INVITED SPEECH:</b> 14:30-14:50			
<b>Title:</b> Maritime Human Factors: Key Research Insights, Emerging Challenges, and Opportunities			
<b>Presenter:</b> Rafet Emek Kurt, Professor, Director of Maritime Human Factors Centre, University of Strathclyde, UK.			
PRESENTATION	PAPER ID	TIME	PRESENTER
Research on Integrated Scheduling Optimization of U-shaped Automated Container Terminal	6	14:50-15:05	Yuchen Wu
Dynamic Simulation of Inland Vessel Traffic Flow Based on AnyLogic	16	15:05-15:20	Xiao Chu
Feeder Ship Route Optimization Under Uncertainty of Service Time in Port Based on Digital Twin Technology	83	15:20-15:35	Kaiyue Zhang
Impact of Line Pre-tension on the Mooring Safety of Large Vessel	185	15:40-15:55	Chenggang Tang

Data Thinning of Ship Engine Room Equipment Based on Improved Douglas-Peucker Algorithm	269	15:55-16:10	Chenji Jiang
GPT4STP: A Novel Ship Trajectory Prediction Method Based on Pre-trained Large Language Model	286	16:10-16:25	Huanhuan Li

## E2: Reliability and Green Technology for Ships-2

**CHAIR:** Maarten Vanierschot, Professor, Department of Mechanical Engineering, KU Leuven, Belgium.

**TIME:** 14:30-16:30, July 18, 2025

**VENUE:** Sierra Nevada Meeting Room--Alpujarra

<b>INVITED SPEECH:</b> 14:30-14:50			
<b>Title:</b> Modelling and Optimization of Hydrogen Storage, Purification, Refuelling and Safety Issues for Transportation Applications			
<b>Presenter:</b> Jinsheng Xiao, Professor, Wuhan University of Technology, China.			
PRESENTATION	PAPER ID	TIME	PRESENTER
Enhancing the Resilience of Emergency Food Supply Chains: Dehydration Solutions and the Role of Drones in Humanitarian Logistics	12	14:50-15:05	Pedro Antonio Garc á López
High-Toughness Double-Network PAM/PSBMA Hydrogels for Ship Antifouling and Drag-Reduction	61	15:05-15:20	Haiyuan Sun, Xiuqin Bai
A Data-Driven Method for Predicting Ship Carbon Intensity Index (CII) based on ANN Network	90	15:20-15:35	Feiyang Ren, Yang Qiu, Min Chen
Optimization Research on Diameter and Speed Matching for Rim-Driven Thruster	139	15:40-15:55	Zhuo Zhang, Wu Ouyang
Displacement Feedback Control for Transverse-torsional Coupling Vibration of the Propulsion Shaft System Under Friction Excitation	157	15:55-16:10	Zhihao Xie
A Multi-Objective Framework for Green Energy Selection and Navigation in Maritime Transportation	166	16:10-16:25	Congcong Zhao

## E3: Transportation Behavior, Safety and Security-2

**CHAIR:** Nengchao Lyu, Professor, Wuhan University of Technology, China.

**TIME:** 14:30-16:30, July 18, 2025

**VENUE:** Sierra Nevada Meeting Room-- Costa Tropical

<b>INVITED SPEECH:</b> 14:30-14:50			
<b>Title:</b> Research and Design of Interactive Behavior of Intelligent Vehicles in Mixed Traffic			
<b>Presenter:</b> Kai Tian, Assistant Professor, Wuhan University of Technology, China.			
PRESENTATION	PAPER ID	TIME	PRESENTER

Finite Element Analysis of Structural Safety for B-Class Ice-Strengthened Vessels Under B3 Ice Conditions in Northern Chinese Waters	176	14:50-15:05	Chao Liu
Analysis of Fire Evolution Paths in Battery-Powered ship Based on CFD Simulation	239	15:05-15:20	Wenfen Zhang
Multi-ship Route Exchange and Cooperative Collision Avoidance Based on MADDPG	248	15:20-15:35	Hongchao Liu
Challenges of Transportation and Distribution in Humanitarian Logistics: Nepal's Perspective	261	15:40-15:55	Thananya Wasusri
A Digital Twin-Based Ship Reputation Value Management Scheme Over Blockchain in the Internet of Ships	262	15:55-16:10	Ting Ye
	323		
Demand for High-Quality Development Standards in Inland Waterway Engineering Construction Based on Policy Comparative Analysis	421	16:10-16:25	Juan Li

## F2: Reliability and Green Technology for Ships-3

**CHAIR:** Bao Liu, Lecture, School of Transportation and Logistics Engineering, Wuhan University of Technology, China.

**TIME:** 17:00-19:00, July 18, 2025

**VENUE:** Sierra Nevada Meeting Room--Alpujarra

PRESENTATION	PAPER ID	TIME	PRESENTER
Analysis of Different Fault on Characteristics of Port Photovoltaic Topology	204	17:00-17:15	Tong Deng
Research on the Influence of Surface Roughness on the Performance of a Rim-driven Thruster	56	17:15-17:30	Zhuo Zhang
Reliability Assessment of Ship Systems by Fault Tree Analysis and Bayesian Network	385	17:30-17:45	Ivana Jovanovic
Multi-stage energy storage for high-efficiency thermoelectric harvesting in gas turbine	388	17:45-18:00	Changlei Feng
Torque under High Temperatures: A Thermally-Driven Shape Memory Alloy Integration Approach	389	18:00-18:15	Tairong Zhu
Dynamic Speed Optimization Method of Inland Ships for the Optimal Operating Efficiency	407	18:15-18:30	Weiwen Qian

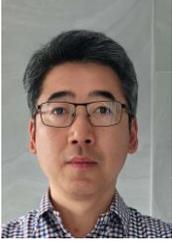
## OPENING REMARK SPEAKERS

<p><b>Name</b> <b>Photo</b></p>	<p>Professor Spain</p> <p>Brief CV</p>
<p><b>FU, Liping</b></p> 	<p>Professor Department of Civil and Environmental Engineering, University of Waterloo</p> <p>Dr. Liping Fu is a Professor in the Department of Civil and Environmental Engineering and Director of the Innovative Transportation System Solutions (iTSS) Lab at the University of Waterloo. He is a Fellow of Canadian Society for Civil Engineering and the past Chair of Transportation of Division of CSCE. Dr. Fu received Transportation Association of Canada (TAC)'s Academic Merit Award sponsored by Transport Canada for his long-term contribution to the advancement of the academic field and to the development of tomorrow's transportation leaders. He was also the recipient of Engineering Research Excellence Award and Excellence in Graduate Supervision. Dr. Fu's research interest specifically focuses on evaluation and optimization of large, complex traffic and transportation service systems where uncertainty and dynamics play a major role, and on the development of decision support tools for use in managing these systems. He has a long track record of research contributions to the areas of intelligent transportation systems, public transit, road safety, and winter road operations. He has served on numerous technical committees of various professional organizations, including Transportation Research Board's Committee, Editorial Advisory Board of the journal of Transportation Research, Intelligent Transportation Systems Society of Canada, Canadian Urban Transit Association, and Institute of Transportation Engineers.</p>
<p><b>LU, Meng</b></p> 	<p>Executive Committee Member / VP Standards Activities, IEEE (Institute of Electrical and Electronics Engineers) Intelligent Transportation Systems Society</p> <p>Dr. Meng Lu (The Netherlands) – VP Industry &amp; Standards Activities, IEEE Intelligent Transportation Systems Society; Member, IEEE Conferences Committee; Member, Board of Governors, IEEE Standards Association (IEEE SA); IEEE SA Representative, IEEE Educational Activities Board. Previously, Strategic Innovation Manager at Peek Traffic (NL), Program Manager International at the Dutch Institute of Advanced Logistics (NL), and Visiting Professor at the National Laboratory for Automotive Safety and Energy, Tsinghua University (CN). Since 2002, has been actively involved in R&amp;D and innovation projects in Europe. Since 2016, has contributed to standardisation activities of IEEE, ISO/TC 204 - Intelligent transport systems (also Head of Delegation (NL) 2021-2023), and CEN/TC 278 - Road transport and traffic telematics. PhD at Lund University, Sweden; Master's title and degree of Engineering in The Netherlands and P.R. China.</p>
<p><b>Name</b> <b>Photo</b></p>	<p>Professor UG ?</p> <p>Brief CV</p>

<p><b>YAN, Xinp ing</b></p> 	<p>Professor Director of the Academic Committee of Wuhan University of Technology (WUT) Academician, Chinese Academy of Engineering</p> <p>Academician of Chinese Academy of Engineering. Director of the Academic Committee of Wuhan University of Technology (WUT). Doctoral Supervisor, Intelligent Transportation System Research Center and School of Transportation and Logistics Engineering in WUT. Director of State Key Laboratory of Maritime Technology and Safety, Base for International Science &amp; Technology Cooperation Smart Shipping and Maritime Safety, and Collaborative Innovation Platform for Smart River Ministry of Transport.</p> <p>Prof. Xinp ing Yan is also the Deputy Director of the Energy and Transportation Department of the Science and Technology Commission of the Ministry of Education, a member of the Transportation Engineering Discipline Evaluation Group of the Academic Degrees Committee of the State Council, and a member of the Expert Committee of the Ministry of Transportation.</p> <p>Prof. Xinp ing Yan has long been engaged in the teaching and research work of transportation engineering, and is committed to the research of waterway transportation intelligence, safety and green technology.</p>
<p><b>Jun REN</b></p> 	<p>Professor Liverpool John Moores University</p> <p>Dr Jun Ren is Professor of Logistics and Supply Chain Management at the Liverpool Logistics, Offshore and Marine (LOOM) Research Institute at Liverpool John Moores University (LJMU), UK. Prof. Ren has a PhD (2003 from the University of Exeter, UK) in Manufacturing Operations Management. He has more than 30 years of industrial, teaching, and research experience in the areas of risk analysis and safety assessment, logistics, and supply chain analysis. He's participated in the creation of diverse decision support systems/tools and applications intended for logistics and supply chain systems, offshore installations, oil/gas development projects, and agile/lean systems with financial support from the National Natural Foundation of China (NSFC), the UK Engineering and Physical Sciences Research Council (EPSRC), the EU, etc.. He is currently the coordinator of EU funded project REMESH (Research Network on Emergency Resources Supply Chain, H2020 Marie Curie RISE Project) of €1,324,800 from 2019 to 2025. He is a co-Investigator of other two EU projects RESET (Reliability and Safety Engineering and Technology for Large Maritime Systems, H2020 Marie Curie RISE Project, 2018-2022, €1,417,500) and Weastflows (freight movements in NEW, European Regional Development Fund (ERDF) under the Interreg IVB North West Europe Programme, 2011-2013, €4,500,000). Prof. Ren successfully supervised 10+ PhDs, leading them through groundbreaking research projects that resulted in numerous publications, patents, and advancements in their respective fields. He is currently supervising 5 PhD students in the areas of supply chain management and logistics operations. Prof. Ren is an editorial board member/an associate editor of 4 international journals.</p>

## KEYNOTE SPEAKERS

<p><b>GUEDES SOARES,</b> <b>Carlos</b></p> 	<p>Professor Member of the Portuguese Academy of Engineering</p> <p>Carlos Guedes Soares is a Distinguished Professor of the Engineering Faculty (Instituto Superior Técnico) of the University of Lisbon and Scientific Coordinator of the Centre for Marine Technology and Ocean Engineering (CENTEC), which is a research centre of the University of Lisbon that is rated as “Excellent” and funded by the Portuguese Foundation for Science and Technology. He concluded his postgraduate studies at the Massachusetts Institute of Technology, USA in 1976, and at the Norwegian Institute of Technology of the University of Trondheim, in 1984 and has since then been at the University of Lisbon (Technical University of Lisbon until 2013). He has supervised and co-supervised more than 75 PhD students and has co-authored more than 900 journal papers. He has been Chair or Co-Chair of various conferences in the series of OMAE, ESREL, IMAM, ISSC, ICCGS, MARSTRUCT, MARTECH and RENEW. He has been Editor of the Reliability Engineering and Systems Reliability Journal for about 30 years, the last 10 of which as Editor-in-Chief. He is Co-Editor in Chief of the Journal of Marine Science and Applications and is member of the Editorial Board of more than 15 Journals. He is a Fellow of SNAME, RINA, IMarEST, ASME, Portuguese Engineering Association (Ordem dos Engenheiros), Member of ASCE, AGU, ESRA and SRA and a Fellow of the Portuguese Academy of Engineering.</p>
<p><b>FU, Liping</b></p> 	<p>Professor Department of Civil and Environmental Engineering, University of Waterloo</p> <p>Dr. Liping Fu is a Professor in the Department of Civil and Environmental Engineering and Director of the Innovative Transportation System Solutions (iTSS) Lab at the University of Waterloo. He is a Fellow of Canadian Society for Civil Engineering and the past Chair of Transportation of Division of CSCE. Dr. Fu received Transportation Association of Canada (TAC)'s Academic Merit Award sponsored by Transport Canada for his long-term contribution to the advancement of the academic field and to the development of tomorrow's transportation leaders. He was also the recipient of Engineering Research Excellence Award and Excellence in Graduate Supervision. Dr. Fu's research interest specifically focuses on evaluation and optimization of large, complex traffic and transportation service systems where uncertainty and dynamics play a major role, and on the development of decision support tools for use in managing these systems. He has a long track record of research contributions to the areas of intelligent transportation systems, public transit, road safety, and winter road operations. He has served on numerous technical committees of various professional organizations, including Transportation Research Board's Committee, Editorial Advisory Board of the journal of Transportation Research, Intelligent Transportation Systems Society of Canada, Canadian Urban Transit Association, and Institute of Transportation Engineers.</p>
<p><b>Luis Fernández</b> <b>Antelo</b></p> 	<p>PhD Madrid Superior Court of Justice/ EUFJE</p> <p>PhD in Law of the Public administrations Legal Secretary and coordinator of administrative cases at Spain Constitutional Court (2006-2013) Legal Secretary (référéndaire) at Luxembourg's General Court of the European Union (2013-2015) Administrative Magistrate at Madrid Superior Court of Justice (2015-today) International Relations Consultant for Spain's General Council of the judiciary UN Evaluator for the application of the UN Convention Against Corruption Member of the European Union Forum of Judges for the Environment (EUFJE)</p>

<p><b>YANG, Zaili</b></p> 	<p>Professor Liverpool Logistics, Offshore and Marine Research Institute, Liverpool John Moores University</p> <p>Zaili Yang is Professor of Maritime Transport at Liverpool John Moores University (LJMU), UK. Prof. Yang's research interests are analysis and modelling of safety, resilience and sustainability of transport networks, particularly maritime and logistics systems. Prof. Yang has received more than £13m external grants (£8m as the PI) from the EU, UK EPSRC and UK DTI to support his research, including a prestigious ERC consolidator grant. Prof. Yang has successfully completed 11 postdoctoral and 46 PhD projects. He currently has 5 postdoctoral researchers and 9 PhD students under his supervision in the research areas of maritime safety, logistics operation and port optimisation. His research findings have been published in 450 refereed papers in risk and supply chain areas, including 4 books and 250 SCI/SSCI cited journal papers. Prof. Yang is an editorial board member of 14 transport/maritime journals (e.g. Transport Research Part E). He has also served as a member of review boards for national research councils of USA, UK, EU, Canada, Norway and China. He has received 15 paper awards and 5 research awards (e.g. Northeast Asia Logistics Award 2018).</p>
<p><b>ZHANG, Hui</b></p> 	<p>Professor Director of Intelligent Transportation Systems Research Center (ITSC) Wuhan University of Technology</p> <p>Dr. Hui Zhang is the Director and a Professor of Intelligent Transportation Systems Research Center (ITSC) at Wuhan University of Technology, Wuhan, China. His main expertise is in the areas of traffic safety management and driving behavior analysis. He serves on the editorial board members of Accident Analysis and Prevention. Dr. Hui Zhang was the Principal Investigator of one National Key Research and Development Project of China and three National Natural Science Foundation of China and has published more than 60 peer reviewed articles. He is also the youth committee member of China Communications and Transportation Association and the Vice Secretary of Intelligent Transportation Systems Technical Commission of Chinese Association for Artificial Intelligence. He is awarded the Deborah Freund Paper Award in 2017 by Transportation Research Board Truck and Bus Safety (ANB70) Committee.</p>
<p><b>CLARET TREMPAS,</b> <b>Jesús</b> <b>PHOTO</b></p>	<p>With over 25 years of experience in the technology and telecommunications sectors, I am passionate about creating business value by connecting long-term strategy with outstanding customer experiences. My career has taken me through industry-leading companies like Orange, Telefónica, and Deutsche Telekom, where I held senior positions such as Director of Strategy and Business Development, focused on driving sustainable growth, Product Operations Director as well as Senior Director of Experience and Customer-Centric Design, where I was responsible for embedding a customer-first mindset into the product lifecycle. Beyond my corporate roles, I am committed to education and served as a Professor for the Master's in IT Management at UNIR. I hold a MSc in Computer Science and an MBA from Georgetown University, and my expertise lies in Business Strategy, Corporate Development, UX design, and leading multicultural teams. I am fluent in English, German, and French and always open to connecting with professionals who share an interest in technology and innovation.</p>
<p><b>DEGIULI, Nastia</b></p> 	<p>Professor University of Zagreb</p> <p>Dr. Nastia Degiuli is a distinguished Full Professor and Head of the Chair of Ship Hydrodynamics at the University of Zagreb's Faculty of Mechanical Engineering and Naval Architecture. With a PhD in Naval Architecture and over three decades of academic and research experience, she specializes in computational and experimental ship hydrodynamics, sustainable maritime transport, and decarbonization technologies. Dr. Degiuli has led numerous high-impact projects, including Horizon 2020 initiatives and Croatian Science Foundation grants, focusing on sustainable shipping and energy efficiency. She serves as Editor-in-Chief of Brodogradnja and has guest-edited special issues for top-tier journals like Journal of Marine Science and Engineering. A member of prestigious academies and committees, including the Croatian Academy of Engineering and SNAME, she is a sought-after speaker at international conferences. Her work bridges academia and industry, driving innovation in naval architecture and environmental sustainability.</p>

## Opening Ceremony and Keynote Speech Chair

<p><b>ARIAS-ARANDA,</b> <b>Daniel</b></p> 	<p>Professor University of Granada</p> <p>Graduated in Business Administration and Management and in Economics from the Carlos III University of Madrid, he is a doctor in Economic and Business Sciences from the Complutense University of Madrid. He has been Associate Professor at the Complutense University of Madrid from 1997 to 1999. Since 1999 he has been Associate Professor, Full Professor (2003) and obtained a position as Professor of Business Organization at the Faculty of Economic and Business Sciences of Granada in 2011. His research has focused on Operations Management, Innovation Management, Management of Service Companies, Relationship between the implementation of advanced Enterprise Resource Planning (ERP) Systems and Supply Chain Management and Simulation. He has also published works in the field of R+D+i in the field of Functional Food as well as related to Business Development in the Health Sciences Technology Park of Granada during his time as Director of the Center for Business Planning and Development of the Technological Park of Health Sciences. From his different public responsibilities, he has been Secretary of the Department of Business Organization of the University of Granada (2004-2006), Vice Dean of the Faculty of Economic and Business Sciences of said university (2006-2008), Director of the Center for Planning and Business Development of the Technological Park of Health Sciences (2008-2011) and Coordinator of the Double Master in Economics and International Management (University of Granada-SRH Hochschule Berlin) (2011-2015). He has been Principal Investigator and has participated in numerous national and international competitive research projects related to the implementation of advanced ERP for Supply Chain Management. He currently teaches at the Higher Technical School of Roads, Canals and Ports Engineering, at the Faculty of Labor Sciences and Human Resources and at the Faculty of Economic and Business Sciences of the University of Granada.</p>
<p><b>ZHANG, Di</b></p> 	<p>Professor Vice-president of Wuhan University of Technology</p> <p>Di Zhang is Professor and doctoral supervisor at Wuhan University of Technology, the National Science Fund for Distinguished Young Scholars and a leading young and middle-aged innovator in science and technology in the transportation industry. Currently serves as the Vice President of Wuhan University of Technology and the Director of the National Key Laboratory of Waterway Traffic Control (Wuhan University of Technology).</p>
<p><b>Jun REN</b></p> 	<p>Professor Liverpool John Moores University</p> <p>Dr Jun Ren is Professor of Logistics and Supply Chain Management at the Liverpool Logistics, Offshore and Marine (LOOM) Research Institute at Liverpool John Moores University (LJMU), UK. Prof. Ren has a PhD (2003 from the University of Exeter, UK) in Manufacturing Operations Management. He has more than 30 years of industrial, teaching, and research experience in the areas of risk analysis and safety assessment, logistics, and supply chain analysis. He's participated in the creation of diverse decision support systems/tools and applications intended for logistics and supply chain systems, offshore installations, oil/gas development projects, and agile/lean systems with financial support from the National Natural Foundation of China (NSFC), the UK Engineering and Physical Sciences Research Council (EPSRC), the EU, etc.. He is currently the coordinator of EU funded project REMESH (Research Network on Emergency Resources Supply Chain, H2020 Marie Curie RISE Project) of €1,324,800 from 2019 to 2025. He is a co-Investigator of other two EU projects RESET (Reliability and Safety Engineering and Technology for Large Maritime Systems, H2020 Marie Curie RISE Project, 2018-2022, €1,417,500) and Westflows (freight movements in NEW, European Regional Development Fund (ERDF) under the Interreg IVB North West Europe Programme, 2011-2013, €4,500,000). Prof. Ren successfully supervised 10+ PhDs, leading them through groundbreaking research projects that resulted in numerous publications, patents, and advancements in their respective fields. He is currently supervising 5 PhD students in the areas of supply chain management and logistics operations. Prof. Ren is an editorial board member/an associate editor of 4 international journals.</p>

## INVITED SPEAKERS

<b>A1: Advanced Transportation Information and Control Engineering</b>	
<p><b>DONG, Ni</b></p> 	<p>Associate Professor Southwest Jiaotong University</p> <p>Dr. Dong Ni is an Associate Professor at Southwest Jiaotong University, specializing in autonomous driving, traffic safety, and intelligent transportation systems. With extensive research experience, she has led or contributed to key projects funded by the National Natural Science Foundation of China (NSFC), Sichuan Province's international S&amp;T programs, the U.S. Federal Highway Administration, and China's Ministry of Transport. She has published 18 high-impact papers in top-tier journals such as Transportation Research Part C, Accident Analysis &amp; Prevention, and Chaos, with one ESI Highly Cited Paper (top 1% globally) and three Elsevier Highly Cited Papers. An active participant in international academia, she has presented at major conferences, including TRB, OCTA, and future transportation symposia. Recognized for her academic leadership, she directed a graduate textbook project on Transportation Systems &amp; Data Science and mentored National Scholarship-winning master's students. Her work advances cutting-edge solutions in smart mobility and safety.</p>
<b>A2: Transportation Behavior, Safety and Security-1</b>	
<p><b>GUO, Yanyong</b></p> 	<p>Professor Southeast University</p> <p>Dr. Yanyong Guo is currently a full Professor at Southeast University. He received the Ph.D degree at Southeast University in 2016 and then served as a postdoctoral fellow and research associate at the University of British Columbia during 2016 to 2020. Dr. Guo's research field is transportation engineering, mainly focus on traffic safety, traffic conflict technique, and smart freeway. He has co-authored over 100 journal/conference papers. Most of the papers were published on top journals, such as IEEE ITS, AMAR, Transportation research Part A/C/E/F. He serves as editors in Accident Analysis and Prevention, Journal of Traffic and Transportation Engineering, Journal of Advanced Transportation, and Frontiers in future transportation. He has a number of best paper awards. Dr. Guo was invited on regular basis to review research papers in more than 20 international and high-impact factor journals and many international conferences. He also serves on several international committees including the US Transportation Research Board, COTA member and WTC (WORLD TRANSPORT CONVENTION) member.</p>
<b>A3: Special Session: EU Project</b>	
<p><b>MATELLINI, Ben</b></p>	<p>Senior Lecture Liverpool John Moores University, UK</p> <p>Dr Ben Matellini is a senior industrial lecturer within the School of Engineering, Technology and Maritime Operations. Ben leads several modules within engineering programmes, which focus on risk and safety management, and industrial management. The modules are delivered both in the UK as well as overseas through collaborative partnership programmes. Ben also manages a collaborative partnership with Risktec Solutions, with whom an MSc in Risk and Safety Management is delivered.</p> <p>Ben's area of expertise and research interest is in risk and safety management. Ben is interested in the development and application of risk management techniques within industry. He has previously worked on projects within the fire and rescue services, process industries, and Arctic shipping. Ben is director of study for several PhD projects linked to these areas.</p> <p>Prior to joining the University Ben was a risk and safety consultant at ABS Consulting (UK), working on oil and gas, and marine projects across the world. Ben also spent eight years in Peru working for the Government's Maritime Institution, where he managed oceanographic projects and conducted research on the El Nino Southern Oscillation phenomenon.</p>
<b>A4: Green, Intelligent, and Connected Vehicles-1</b>	
<p><b>WANG, Tao</b></p>	<p>Professor Guilin University of Electronic Technology</p> <p>Wang Tao is currently a Professor and Ph.D. supervisor, Director of the Guangxi Key Laboratory of Intelligent Transportation, Guangxi "Bagui Young Scholar," Leading Young</p>



Scientific and Technological Talent in Guangxi's Transportation Industry, and expert in Guangxi's Urban Traffic Smoothness and Civilization Enhancement Project. His primary research focuses on transportation planning and management, traffic information, and control.

He has led three National Natural Science Foundation of China (NSFC) projects and over 10 provincial-level research projects, including Guangxi Natural Science Foundation and Guangxi Key R&D Programs. Additionally, he has participated in major national research initiatives such as the National Key R&D Program and significant foundation projects.

With a strong academic record, he has published 44 high-impact SCI/SSCI journal papers (32 as first/corresponding author), including top-tier journals such as IEEE ITS Magazine and Transportation Research. One of his first-authored papers has been recognized as an ESI Highly Cited Paper. He has also authored two textbooks, obtained over 10 invention patents, and received two Guangxi Science and Technology Progress Awards and two Guangxi Teaching Achievement Awards (Second Prize).

His work bridges theoretical research and practical applications, contributing significantly to advancements in intelligent transportation systems and sustainable urban mobility.

**B1: Traffic Operation and Transportation System Management**

**LIU, Zhanwen**



Professor  
 Director of the Construction Office of the Vehicle-to-everything and Intelligent Vehicle Testing Technology Engineering Research Center in Shaanxi Province, Director of the Traffic Information Testing and Control engineering Laboratory of Chang'an University.  
 Chang'an University

Zhanwen Liu is a Professor in the School of Information Engineering, Chang'an University, Xi'an, China. Director of the Construction Office of the Vehicle-to-everything and Intelligent Vehicle Testing Technology Engineering Research Center in Shaanxi Province, Director of the Traffic Information Testing and Control engineering Laboratory of Chang'an University, She has long been dedicated to research on Artificial Intelligence, Deep Learning, Computer Vision, and Graph Representation Learning. Orienting the new generation of intelligent networked transportation, and especially focusing on the perception of all elements of the complex and dynamic traffic environment, collaborated sensing and perception between vehicle and road, as well as the digital twin of intelligent connected highways and urban intersections perception testing in recent years.

**B2: Aviation & Rail Transportation Intelligent Management and Safety**

**YANG, Zhen**



Assistant Professor  
 Civil Engineering & Geosciences, Railway Engineering, Delft University of Technology

Zhen Yang received his BSc, MSc and PhD degrees from Beijing Institute of Technology (2009), Tongji University (2012) and TU Delft (2018), respectively. He has been a tenure-track assistant professor at TU Delft since July 2019. His research expertise includes wheel-rail contact and train/track structural dynamics, aiming to provide new insights into the fundamental study of dynamic friction and contribute to the prediction, detection, and mitigation of the track structural degradation, vibration and noise.

**B4: Green, Intelligent, and connected Vehicles-2**

**WU, Yao**



Associate Professor  
 Nanjing University of Posts and Telecommunications

Wu Yao, female, holds a Doctor of Engineering degree. Currently, she serves as the director of the Department of Transportation Engineering at the School of Modern Post, Nanjing University of Posts and Telecommunications, and is a master's supervisor in transportation. She is a talent of Jiangsu's "Double Innovation" program and a vice president of technology in Jiangsu Province. She obtained her Ph.D. in Transportation Engineering from Southeast University and was a joint doctoral student and postdoctoral fellow at the University of British Columbia in Canada. Her research mainly focuses on intelligent transportation, traffic safety, intelligent transportation and logistics management, traffic conflict and accident modeling, and static traffic. To date, she has published over 30 papers in her research fields, with more than 20 being indexed by SCI/SSCI journals. She has also obtained 15 patents and authored two books, "Traffic Safety and Accident Prevention of Electric Bicycles" and "Traffic Characteristics and Development Strategies of Urban Bicycle Sharing Systems", as well as two software copyrights.

**C1: Autonomous Ships and Smart Shipping-1**

**RONG, Hao**



Research Fellow  
Liverpool John Moores University

Hao Rong is currently a research fellow at Liverpool John Moores University. He completed his PhD at the University of Lisbon, Portugal. His research interests focus on maritime traffic risk analysis, ship trajectory data mining, ship trajectory prediction, maritime traffic forecasting, and ship anomaly detection. In recent years, Dr. Rong has published more than 20 scientific papers, including 9 as first or corresponding author in leading journals. He has also contributed as a key researcher to 4 major projects funded by the Portuguese Foundation for Science and Technology. In addition to his research work, Dr. Rong serves as a reviewer for several high-impact journals and has participated as a scientific committee member for two international conferences in the maritime field.

**C2: Waterborne Transportation Safety, Accident Prevention and Emergency Response -1**

**FU, Shanshan**



Professor  
Shanghai Maritime University, China

Dr. Shanshan Fu is a professor at the College of Transport & Communications, Shanghai Maritime University, China. Currently, she is a visiting scholar at Chalmers University of Technology, Sweden. She obtained her B.Sc., M.Sc. and Ph.D. degrees from Wuhan University of Technology, Wuhan, China, in 2010, 2013 and 2017, respectively. From January 2015 to June 2016, she was a visiting Ph.D. student at Ecole Centrale Paris, France. Her research focuses on risk assessment of maritime transportation systems and data driven-based modeling for navigational accidents. She is the principal investigator of six innovative research projects on maritime safety, including two funded by the National Natural Science Foundation of China and four by the Shanghai Municipal Science and Technology Commission. She has published over 40 peer-reviewed international journal papers, such as Reliability Engineering & System Safety, Ocean Engineering, and Transport Policy. She obtained the China Navigation Youth Science and Technology Award in 2024, which is awarded to 20 recipients every two years.

**C3: Transportation Environment and Sustainability**

**LU, Meng**



Executive Committee Member / VP Standards Activities,  
IEEE (Institute of Electrical and Electronics Engineers) Intelligent Transportation Systems Society

Dr. Meng Lu (The Netherlands) – VP Industry & Standards Activities, IEEE Intelligent Transportation Systems Society; Member, IEEE Conferences Committee; Member, Board of Governors, IEEE Standards Association (IEEE SA); IEEE SA Representative, IEEE Educational Activities Board. Previously, Strategic Innovation Manager at Peek Traffic (NL), Program Manager International at the Dutch Institute of Advanced Logistics (NL), and Visiting Professor at the National Laboratory for Automotive Safety and Energy, Tsinghua University (CN). Since 2002, has been actively involved in R&D and innovation projects in Europe. Since 2016, has contributed to standardisation activities of IEEE, ISO/TC 204 - Intelligent transport systems (also Head of Delegation (NL) 2021-2023), and CEN/TC 278 - Road transport and traffic telematics. PhD at Lund University, Sweden; Master's title and degree of Engineering in The Netherlands and P.R. China.

**D1: Autonomous Ships and Smart Shipping-2**

**QIN, Zheng**



Senior Principal Scientist  
Institute of High Performance Computing (IHPC), Agency for Science, Technology and Research (A\*STAR), Singapore.

Dr. Qin Zheng is the Director of the Systems Science Department at the Institute of High Performance Computing (IHPC <https://www.a-star.edu.sg/ihpc>) under the Agency for Science, Technology and Research (A\*STAR). He is also Director of A\*STAR's Centre for Maritime Digitalisation. He has research interests in urban mobility, maritime, and modelling and simulation.

His project "Singapore Integrated Transport & Energy Model (SITEM)" on vehicle electrification received the Ministry of Trade & Industry (MTI) Firefly Borderless (Silver) Award 2022. SITEM's simulation and modelling insights were critical to the "National Effort to Electrify Singapore's Vehicle Population" by Ministry of Transport, A\*STAR and agency partners, which won the One Public Service Award 2023. His department leads Singapore's Maritime AI Research Programme which co-develops AI and other digital technologies for a safer, more efficient and more sustainable maritime industry.

	<p>Dr. Qin Zheng received his PhD in Electrical and Computer Engineering from the National University of Singapore (NUS). He served on the Editorial Board of IEEE Transactions on Parallel and Distributed Systems (TPDS) and was the Program Committee Chair of the 24th IEEE International Conference on Parallel and Distributed Systems (ICPADS) 2018. He received the 2021 IEEE TPDS Awards for Editorial Excellence.</p>
<p><b>Nikolaos P. VENTIKOS</b></p> 	<p>Professor National Technical University of Athens</p> <p>Dr Nikolaos P. Ventikos is a Professor in the Laboratory for Maritime Transport at the School of Naval Architecture and Marine Engineering of the National Technical University of Athens (NTUA), Greece. He is the Head of the Maritime Risk Group (MRG). Dr Ventikos's expertise is in marine safety; risk engineering; maritime transport; (oil) marine pollution; risk-based design for ships and (transport) systems; human reliability (incl. human-centered design); autonomous shipping and operations; marine casualty investigation; marine health risk engineering; systems engineering; transport ecosystem design, resilience engineering; and offshore and environmental risk. He has published and presented his work in journals such as Marine Pollution Bulletin, Journal of Hazardous Materials, Maritime Policy and Management, Ships and Offshore Structures, Journal of Risk Research, Reliability Engineering &amp; System Safety etc., and in more than 145 scientific conferences. Dr Ventikos was awarded the G.P. Livanos Grand Prize on Environmental Issues sponsored by the Hellenic Chamber of Shipping (2000). Dr Ventikos is very fluent in English and French, and he has basic knowledge of Arabic.</p>
<p><b>D2 : Reliability and Green Technology for Ships</b></p>	
<p><b>VANIERSCHOT, Maarten</b></p> 	<p>Professor Department of Mechanical Engineering, KU Leuven, Belgium.</p> <p>Maarten Vanierschot received a Master's degree in Electromechanical Engineering from the KU Leuven, Belgium in 2002 with magna cum laude. He started a PhD at the division of Applied Mechanics and Energy Conversion of the KU Leuven from 2003 till 2007 and became a PDM postdoctoral researcher from 2007 till 2009 at the same division. From 2009 on he became an assistant professor at GROUP T - International Engineering School and a member of the Sustainable Engineering research group. In October 2013, Group T - International Engineering School became a campus of KU Leuven. He is involved as a (co)lecturer in seven courses related to aerodynamics and fluid mechanics and has been supervisor of 102 Master theses. Since 2012 on, he is also coach of the Belgian solarteam and has been involved in the aerodynamic design of the different solar cars. In 2019 and 2023, the team became world champion on the World Solar Challenge in Australia. As program director of the POC "polyvalente ingenieursvorming", he also contributes to the educational program of the Faculty of Engineering Technology. His research focusses on the application of fluid mechanics to industrial processes, both theoretical, experimental and numerical. He is/has been involved in over 45 research projects (most in close cooperation with industry) and has built up a vast experience in different industrial processes involving fluid flow, amongst others external aerodynamics, heat transfer, species transport and combustion. Maarten Vanierschot is vice-chair of the Division of Applied Mechanics and Energy Conversion of the Department of Mechanical Engineering and head of the Applied Fluid mechanics and (Aero) Acoustics (AFAA) research group, which primarily focuses on applied research in close cooperation with industry. Maarten is currently (co)supervising 19 PhD students and has (co)supervised 13 finished PhDs. These PhD's cover a wide range of flow topologies and as such, he has a broad experience in different physical phenomena involved in fluid flow, a necessity for successfully completing this multidisciplinary research proposal. He has published 94 international peer reviewed journal publications and 67 peer reviewed conference proceedings. Maarten Vanierschot is also appointed as an extraordinary professor at North West University (South-Africa) for the period of 2022-2028 and as a Foreign expert project planning at Wuhan University of Technology (China) for the period of 2023-2025. He is also member of the European Mechanics Society and the Australasian Fluid Mechanics Society (AFMS).</p>

<p><b>LIU, Bao</b></p> 	<p>Lecturer Wuhan University of Technology</p> <p>Dr. Bao Liu, obtained his BSc degree in Energy, Power system and Automation in 2015 and MSc degree in Marine Engineering in 2018 from the School of Energy and Power Engineering in Wuhan University of Technology. Afterwards, he started his PhD study at KU Leuven with full scholarship granted by the China Scholarship Council and received his PhD (Research on the hydrodynamic characteristics analysis and optimization design of a rim-driven thruster) from the Department of Mechanical Engineering in KU Leuven in December 2022.</p> <p>Dr. Bao Liu is now working as a lecturer at the State Key Laboratory of Maritime Technology and Safety, School of Transportation and Logistics Engineering, Wuhan University of Technology, China. He specializes in the design methods and experimental techniques on ship propulsion system, including the design and optimization of rim-driven thrusters, integrated motor pumps using computational fluid dynamics and experimental tests.</p>
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**D3 : Waterborne Transportation Safety, Accident Prevention and Emergency Response-2**

<p><b>UĞURLU, Özkan</b></p> 	<p>Professor Ordu University, Ordu-Fatsa/Türkiye</p> <p>Özkan Uğurlu, born in 1978 in Sinop, is a Turkish academic. Prof. Dr. Uğurlu is currently serving as the Head of the Department of Maritime Transportation and Management Engineering at the Faculty of Marine Sciences in Fatsa, Ordu University, where he also holds the position of Dean. He received his Ph.D. degree in 2011. Throughout his academic career, he has supervised 4 doctoral dissertations and 16 master's theses, and he has conducted various academic research projects in Malta, Georgia, and the United Kingdom. Since 2021, he has held the title of Professor at Ordu University. Prior to his academic career, he worked in various maritime companies as a deck officer, chief officer, and captain. Internationally recognized as a scholar, Uğurlu specializes in areas such as maritime accidents, human factors, risk analysis, Bayesian networks, HFACS, and ship operations. He has authored more than 30 articles published in journals indexed in SCI, SSCI, and other international databases, as well as contributing to book chapters and presenting at international conferences. His work is particularly notable for its focus on the analysis of maritime accidents from the perspective of human error, maritime safety, working conditions of seafarers, and their mental health. He serves on the editorial boards of the Journal of Marine Engineering &amp; Technology, Autonomous Transportation Research, Journal of ETA Maritime Science, and the Turkish Journal of Maritime and Marine Sciences.</p>
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**E1 : Waterborne Transportation Intelligent Management**

<p><b>KURT, Rafet Emek</b></p> 	<p>Professor University of Strathclyde</p> <p>Dr. Rafet Emek Kurt, a Reader at the University of Strathclyde, is involved in maritime safety and risk research, focusing on the crucial role of human factors.</p> <p>Dr. Kurt also serves as the Director of the Maritime Human Factors Centre, further demonstrating his commitment to advancing research in this field. Additionally, he holds the position of Associate Editor in Ships and Offshore Structures, showcasing his dedication to the dissemination of knowledge within the maritime community. Dr. Kurt is also a member of the International Ship and Offshore Structures Congress (ISSC), where he collaborates with peers to develop ship design criteria informed by human factors, further highlighting his commitment to the advancement of maritime safety practices.</p> <p>Over the years, Dr. Kurt has worked on many research projects aimed at integrating human factors, safety, and risk into maritime practices. His work has been published in respected journals and conferences, igniting essential discussions in the maritime community.</p> <p>His interests are wide-ranging, including human risk-informed design, safety culture, and safety learning. Dr Kurt's exploration of topics such as human reliability assessment and resilience engineering demonstrates his genuine curiosity about how human performance is central to maritime safety.</p> <p>Dr Kurt was the maritime coordinator of the EU H2020 SAFEMODE Project. SAFEMODE was a significant initiative aimed at enhancing HF approach frameworks in the aviation and</p>
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maritime industries. It delivered a human risk-informed design framework to support designers in integrating human factors considerations into design. Outside academia, Dr Kurt is closely cooperating with industry and has supported regulation development on numerous occasions.

**E2 : Reliability and Green Technology for Ships-2**

**XIAO, Jinsheng**



Professor Lecture  
Wuhan University of Technology

Jinsheng XIAO: 1983 B.S. and 1999 Ph.D. in Engineering Thermophysics, Tsinghua University, China; 1986 M.S. in Marine Engineering, Wuhan University of Technology, China. Assistant (1986-1989), Lecturer (1989-1992), Associate Professor (1992-1996), and Professor (1996-2022) at Wuhan University of Technology. Guest Professor (2008-2022) at Hydrogen Research Institute, University of Quebec at Trois-Rivieres, Canada. Current research is on hydrogen and battery energy systems.

**E3: Transportation Behavior, Safety and Security-2**

**TIAN, Kai**



Assistant Professor,  
Intelligent Transportation Systems Center, Wuhan University of Technology, China.

Dr. Tian Kai is a Specially Appointed Researcher at Wuhan University of Technology. He obtained his PhD from the Institute for Transport Studies at the University of Leeds and was previously a visiting scholar at Queen's University Belfast. Since 2024, he has been a faculty member at the Intelligent Transportation Systems Research Center at Wuhan University of Technology. His core research focuses on the modeling and simulation of interactive decision-making between autonomous vehicles and vulnerable road users (such as pedestrians and cyclists), as well as driver human factors and safety analysis. Dr. Tian has a strong record of research achievements. He has led several key national and provincial-level projects in China and has been deeply involved in major international research initiatives, including those with the UK Engineering and Physical Sciences Research Council (EPSRC) and the EU Horizon 2020 program. He has published a total of 20 academic papers (11 of which are first-author SCI/EI papers) and holds 7 invention patents.

## SESSION CHAIRS

<b>Session I: Advanced Transportation Information and Control Engineering</b>	
<p><b>DONG, Ni</b></p> 	<p>Associate Professor Southwest Jiaotong University</p> <p>Dr. Dong Ni is an Associate Professor at Southwest Jiaotong University, specializing in autonomous driving, traffic safety, and intelligent transportation systems. With extensive research experience, she has led or contributed to key projects funded by the National Natural Science Foundation of China (NSFC), Sichuan Province's international S&amp;T programs, the U.S. Federal Highway Administration, and China's Ministry of Transport.</p> <p>She has published 18 high-impact papers in top-tier journals such as Transportation Research Part C, Accident Analysis &amp; Prevention, and Chaos, with one ESI Highly Cited Paper (top 1% globally) and three Elsevier Highly Cited Papers. An active participant in international academia, she has presented at major conferences, including TRB, OCTA, and future transportation symposia.</p> <p>Recognized for her academic leadership, she directed a graduate textbook project on Transportation Systems &amp; Data Science and mentored National Scholarship-winning master's students. Her work advances cutting-edge solutions in smart mobility and safety.</p>
<p><b>LYU, Nengchao</b></p> 	<p>Professor Wuhan University of Technology</p> <p>Nengchao Lyu, holds a joint-cultivated Ph.D. from Wuhan University of Technology and the University of Wisconsin-Madison. He is the Distinguished Young Scholars of Hubei Province; Youth Science and Technology Talent, Ministry of Transportation, China; Outstanding Sci&amp;Tech Innovation Leader, ITS China Association. He is chairman of the Safety Analysis and Improvement Technical Committee of WTC, committee member of ITS China Association. He focuses on scientific research and talent training in intelligent connected transportation, CV and ADAS, road traffic safety evaluation, driving behavior, etc. He presided over 5 National Natural Science Foundation of China, over 10 provincial and ministerial projects; presided over more than 30 intelligent transportation related projects. Based on the research, more than 30 patents or software copyrights have been obtained. He has been awarded 8 provincial-level prizes, including the First Prize of Hubei Provincial Technical Invention.</p>
<b>Session II: Autonomous Ships and Smart Shipping</b>	
<p><b>LIU, Yuanchang</b></p> 	<p>Associate Professor Dept of Mechanical Engineering, University College London</p> <p>Dr. Yuanchang Liu is an Associate Professor and Chair of Marine Research in the Department of Mechanical Engineering at University College London. Dr Liu is also the Programme Director of MSc Power Systems Engineering. Prior to joining the department, he served as a Research Fellow in Robotic Vision and Autonomous Vehicles at the Surrey Space Centre, University of Surrey. Dr. Yuanchang Liu earned his MSc degree in Power Systems Engineering and a PhD degree in Marine Control Engineering, both from University College London in 2011 and 2016, respectively.</p> <p>Dr. Liu's research primarily focuses on automation and autonomy, with a special emphasis on exploring technologies related to sensing, perception, and the guidance and control of intelligent and autonomous vehicles. In recognition of his contributions, Dr. Liu was featured among the World's Top 2% Scientists by Stanford University in both 2022, 2023, 2024. Additionally, he received the Denny Medal, awarded by the Institute of Marine Engineering, Science, and Technology (IMarEST).</p>
<p><b>LIU, Jialun</b></p>	<p>Professor Wuhan University of Technology</p> <p>Dr Jialun Liu is a professor at the Intelligent Transportation Systems Research Center at Wuhan University of Technology and the National Engineering Research Center for Water Transport Safety. His research interests focus on modelling, controlling, and testing autonomous ships and shipping. From 2006 to 2010, he studied Navigation Technology at Wuhan University of Technology and obtained his BSc degrees. He then pursued a master's degree in Traffic Engineering and Control at the same university. In</p>



2012, he was awarded a scholarship by the China Scholarship Council to conduct his Ph.D. research at Delft University of Technology in the Netherlands. From 2012 to 2017, he worked in the Ship Design, Operation, and Production section of the Department of Marine and Transportation Technology. In March 2017, he started working at Wuhan University of Technology. In the same year, he was awarded the 'Chutian Excellent Young Scholar' award and was subsequently promoted to associate professor. The individual has been appointed as a reviewer for over 40 international journals and conferences, such as Ocean Engineering, Applied Ocean Research, Ships and Offshore Structures, and Journal of Marine Science and Technology. Furthermore, he is currently a member of PIANC working group 210 for smart shipping. He has also hosted 14 research projects with a budget of over 60 million RMB in the fields of autonomous control and testing of ships. He has published over 100 peer-reviewed papers in journals and conferences.

**Session III: Aviation Intelligent Management and Safety: Theory and Method**

**YANG, Zhen**



Assistant Professor  
Civil Engineering & Geosciences, Railway Engineering, Delft University of Technology

Zhen Yang received his BSc, MSc and PhD degrees from Beijing Institute of Technology (2009), Tongji University (2012) and TU Delft (2018), respectively. He has been a tenure-track assistant professor at TU Delft since July 2019. His research expertise includes wheel-rail contact and train/track structural dynamics, aiming to provide new insights into the fundamental study of dynamic friction and contribute to the prediction, detection, and mitigation of the track structural degradation, vibration and noise.

**WANG, Lei**



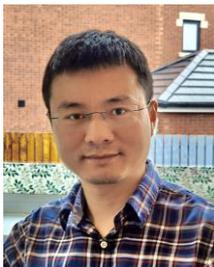
Professor  
Civil Aviation University of China

Dr. Wang Lei is currently a Professor at the College of Safety Science and Engineering, Civil Aviation University of China (CAUC). He received his doctoral degree in applied psychology in 2014 at the Institute of Psychology, Chinese Academy of Sciences. He was selected as the Young Scholar of Blue Sky Program of CAUC in 2018. He is also the Executive Vice Dean of the Graduate School in CAUC. Dr. Wang serves as the member of Management Ergonomics Committee of Chinese Ergonomics Society, and the editorial committee of two Chinese T1 journals (Chinese Journal of Safety Science and Journal of Safety and Environment). He is also the leader of PLM psychological competency research group of CAAC.

Dr. Wang has been engaged in the teaching and research of aviation safety and human factors over 18 years. He obtained three grants from Nature and Science Foundation of China as a PI. He received more than 10 patents, and also published over 50 peer-reviewed papers in top academic journals such as "Safety Science" and "Ergonomics". He innovatively investigated the issues of human factors using flight data, which received much attention from peer researchers.

**Session IV: Green, Intelligent, and Connected Vehicles**

**WEI, Chongfeng**



Associate Professor  
James Watt School of Engineering, University of Glasgow, UK

Dr. Chongfeng Wei is an Associate Professor (University Senior Lecturer) of James Watt School of Engineering at University of Glasgow. Before joining University of Glasgow, he was a lecturer at Queen's University Belfast. Chongfeng is interested in how to make the future autonomous vehicles and mobile robots interact with humans and complex severe environments in smarter or human-acceptable ways, employing AI technologies, bio-designs, and first principles of dynamics and control. Chongfeng also serves as an Associate Editor of IEEE TITS, IEEE TVT, IEEE TIV, IEEE OJ-ITS, and Frontiers on AI and Robotics.

<p><b>YIN, Jianhua</b></p> 	<p>Associate Professor Beijing Institute of Technology</p> <p>Dr. Jianhua Yin is an Associate Professor in the School of Aerospace Engineering at Beijing Institute of Technology (BIT), China. He previously served as a Research Fellow at the University of Michigan (2022 – 2023) and as an Assistant Professor at Wuhan University of Technology (2023 – 2025). Dr. Yin received his Ph.D. in Mechanical Engineering from Purdue University in 2022. His research focuses on path planning, motion planning, and control of unmanned aerial and ground vehicles in uncertain environments, uncertainty quantification, and machine learning. He has authored over 25 peer-reviewed journal articles and conference papers and serves as a reviewer for over 10 international journals. Dr. Yin is a member of AIAA, ASME, and IEEE.</p>
<p><b>Session V: Large Model and AI for autonomous driving</b></p>	
<p><b>XIA, Xin</b> <b>PHOTO</b></p>	
<p><b>HE, Yi</b></p> 	<p>Professor Vice Director of Intelligent Transportation Systems Research Center (ITSC) Wuhan University of Technology</p> <p>Dr. Yi HE is a professor and doctoral supervisor at Wuhan University of Technology. He has been honored as an "Innovative Leading Talent" by the Chinese Academy of Engineering and the Royal Academy of Engineering in the UK, as well as a "Young Top Talent" in Hubei Province and the recipient of the "Youth Innovation Award" from the China Communications and Transportation Association. He has long been dedicated to research and application in vehicle dynamics control, intelligent driving and autonomous driving, and intelligent transportation technology. Additionally, he holds positions as the deputy chairman of the Special Vehicles Branch of the China Society of Automotive Engineers and the secretary-general of the Youth Science and Technology Workers Committee of the China Communications and Transportation Association.</p>
<p><b>Session VI: Multimodal and Emerging Transportation Systems</b></p>	
<p><b>FAN, Shiqi</b></p> 	<p>Professor Wuhan University of Technology</p> <p>Dr Shiqi Fan, a professor at the School of Transportation and Logistics, Wuhan University of Technology, specialises in maritime human factors and safety. Holding PhD in Maritime Engineering from Liverpool John Moores University, her work advances data-driven risk modelling and the application of neuroimaging techniques in maritime human factors. She participated in the European Research Council project and Marie Skłodowska-Curie actions, focusing on decision-making and human performance in maritime operations through the use of EEG and fNIRS technologies. Dr Fan is a Chartered Engineer, Chartered Marine Engineer (CMarEng) and member of the Institute of Marine Engineering, Science and Technology.</p>
<p><b>Session VII: Rail Transportation Intelligent Management and Safety</b></p>	
<p><b>WANG, Tiantian</b> <b>Ph.D.</b></p> 	<p>Professor Hunan University</p> <p>Prof. Tiantian Wang is currently Professor and Doctoral Supervisor at College of Mechanical and Vehicle Engineering, Hunan University. He received his Doctoral degree in Fluid Mechanics from Beihang University. He specializes in rail transportation research, especially rail vehicle aerodynamics, big data, intelligent fault diagnosis and life prediction. He was selected into the China Association for Science and Technology Youth Talent Support Project. He won the second prize of Science and Technology Award of China Railway Society, the first prize of Hunan Provincial Technology Invention Award, and the special prize of China Machinery Industry Science and Technology Progress Award. He has published more than 40 papers in journals such as Engineering, Science of the Total Environment, Journal of Wind Engineering and Industrial Aerodynamics and Structural and Multidisciplinary Optimization.</p>
<p><b>Session VIII: Reliability and Green Technology for Ships</b></p>	
<p><b>Mihai Diaconeasa</b></p>	
<p><b>XIAO, Jinsheng</b></p>	<p>Professor Lecture Wuhan University of Technology</p>

	<p>Xiaojinsheng holds a Bachelor's and Ph.D. in Engineering Thermophysics from Tsinghua University and serves as a professor and doctoral advisor at Wuhan University of Technology. He has conducted collaborative research at universities and research institutions in the UK, the US, Canada, and Germany. Since 2008, he has established cooperation with the Hydrogen Research Institute at the Université du Québec à Trois-Rivières in Canada and is also a visiting professor there. His research focuses on hydrogen storage, purification, refueling and safety, as well as fuel cells, solar energy, and new energy vehicles. He has led and participated in numerous projects under the National Natural Science Foundation of China, national key R&amp;D programs, and the 863 Program, publishing over a hundred papers and books. In 2023 and 2024, he was listed among the world's top 2% scientists in his field by Elsevier.</p>
<p><b>LIU, Bao</b></p> 	<p>Lecture Wuhan University of Technology</p> <p>Dr. Bao Liu, obtained his BSc degree in Energy, Power system and Automation in 2015 and MSc degree in Marine Engineering in 2018 from the School of Energy and Power Engineering in Wuhan University of Technology. Afterwards, he started his PhD study at KU Leuven with full scholarship granted by the China Scholarship Council and received his PhD (Research on the hydrodynamic characteristics analysis and optimization design of a rim-driven thruster) from the Department of Mechanical Engineering in KU Leuven in December 2022.</p> <p>Dr. Bao Liu is now working as a lecturer at the State Key Laboratory of Maritime Technology and Safety, School of Transportation and Logistics Engineering, Wuhan University of Technology, China. He specializes in the design methods and experimental techniques on ship propulsion system, including the design and optimization of rim-driven thrusters, integrated motor pumps using computational fluid dynamics and experimental tests.</p>
<p><b>Session IX: Salvage and Underwater Technology</b></p>	
<p><b>XIANG, Xianbo</b> <b>Ph.D.</b></p> 	<p>Professor Huazhong University of Science and Technology</p> <p>Xianbo Xiang, Ph.D., Professor, Deputy Dean of School of Naval Architecture and Ocean Engineering, Huazhong University of Science and Technology (HUST), P.R.China. He received the B.E. and M.E. degrees in automatic control and marine engineering from HUST in 2000 and 2003, respectively, and the Ph.D. degree in System Automation and Micro-electronics from the University of Montpellier 2, France, in 2011. His research interests include marine robotic vehicles and intelligent marine systems. From September 2006 to December 2006, he was an EU Erasmus Mundus Visiting Scholar in the SpaceMaster Project. From February 2008 to March 2011, he was in the European Project FreeSubNet as an EC Marie Curie ESR Fellow at LIRMM, CNRS UMR 5506. He is member of IFAC Technical Committee 7.2 on Marine Systems. He was the General Chair of 2018 IEEE 8th International Conference on Underwater System &amp; Technology, and the General Chair of 2022 International Conference on Intelligent Marine Equipment and Technology, and serves as the associate editor of International Journal of Maritime Engineering (RINA), editorial members for Applied Ocean Research, China Ocean Engineering, Journal Brodogradnja/Shipbuilding, International Journal of Intelligent Robotics and Applications, and IET Cyber-systems and Robotics.</p>
<p><b>RONG, Hao</b></p> 	<p>Research Fellow Liverpool John Moores University</p> <p>Hao Rong is currently a research fellow at Liverpool John Moores University. He completed his PhD at the University of Lisbon, Portugal. His research interests focus on maritime traffic risk analysis, ship trajectory data mining, ship trajectory prediction, maritime traffic forecasting, and ship anomaly detection. In recent years, Dr. Rong has published more than 20 scientific papers, including 9 as first or corresponding author in leading journals. He has also contributed as a key researcher to 4 major projects funded by the Portuguese Foundation for Science and Technology. In addition to his research work, Dr. Rong serves as a reviewer for several high-impact journals and has participated as a scientific committee member for two international conferences in the maritime field.</p>
<p><b>CHEN, Deshan</b> <b>Ph.D.</b></p>	<p>Associate Professor Wuhan University of Technology</p>



Deshan Chen holds an M.S. degree in Information and Computing Science from Jilin University (2009) and a Ph.D. degree in Systems Science and Informatics from Hokkaido University (2014). He is currently an associate professor at the Intelligent Transportation Systems Center within Wuhan University of Technology. His academic achievements include receiving the Best Paper Award from the journal of Measurement Science and Technology in 2015, the Best Paper Award at ICSSE2020, the Outstanding Award in the 2021 China Port Association Smart Port and Navigation Competition, the Best Paper Award at SUT2022, and the China Navigation Society Award in 2018. He actively contributes to the China Diving and Salvage Industry Association as a member of the Expert Committee, the Underwater Engineering Inspection Professional Committee, and serves as a consulting expert for the Underwater Security Special Committee. Additionally, he holds the position of Deputy Secretary-General for the Offshore Wind Power Operation Safety Sub-Committee. His research interests revolve around intelligent maritime supervision, intelligent underwater perception, computer vision, and pattern recognition.

**Session X: Traffic Operation and Transportation System Management**

**ZHAO, Jing**



Professor  
University of Shanghai for Science and Technology, China

Jing Zhao, Professor, Ph.D., Doctoral Supervisor, is a recipient of the National Science Fund for Excellent Young Scientists. He is currently the Associate Dean of the School of Management at the University of Shanghai for Science and Technology and a Professor in the Department of Transportation Systems Engineering. His research focuses primarily on transportation system design, traffic control and management, traffic flow theory, and public transportation. He has led over ten national and provincial-level research projects, including the National Science Fund for Excellent Young Scientists, the National Natural Science Foundation of China, and the Science and Technology Innovation Action Plan of Shanghai. He has published over 100 academic papers, with more than 80 indexed by SCI/SSCI. He currently serves as the Chair of the Committee on Multimodal Traffic Control Technologies of the World Transport Convention (WTC), a council member of the China Association of Transportation Education, the Management Science and Engineering Society, and the Shanghai Highway and Transportation Society. He is also the Deputy Director of the Committee on Road Safety and Environment.

**ZHANG, Cunbao**



Professor  
Wuhan University of Technology

Cunbao Zhang is a Professor of Intelligent Transportation Systems Research Center, Wuhan University of Technology, China. He has hosted about 40 projects and published more than 60 papers. His current research interests include road traffic signal control, road traffic safety, vehicle infrastructure cooperative systems, etc.

**Session XI: Traffic Operation and Transportation System Management**

**GUO, Yanyong**



Professor  
Southeast University

Dr. Yanyong Guo is currently a full Professor at Southeast University. He received the Ph.D degree at Southeast University in 2016 and then served as a postdoctoral fellow and research associate at the University of British Columbia during 2016 to 2020. Dr. Guo's research field is transportation engineering, mainly focus on traffic safety, traffic conflict technique, and smart freeway. He has co-authored over 100 journal/conference papers. Most of the papers were published on top journals, such as IEEE ITS, AMAR, Transportation research Part A/C/E/F. He serves as editors in Accident Analysis and Prevention, Journal of Traffic and Transportation Engineering, Journal of Advanced Transportation, and Frontiers in future transportation. He has a number of best paper awards. Dr. Guo was invited on regular basis to review research papers in more than 20 international and high-impact factor journals and many international conferences. He also serves on several international committees including the US Transportation Research Board, COTA member and WTC (WORLD TRANSPORT CONVENTION) member.

<p><b>DING, Naikan</b> <b>Ph.D.</b></p> 	<p>Associate Professor Wuhan University of Technology</p> <p>Dr. Naikan DING is currently an Associate Professor at the Intelligent Transportation Systems Research Center (ITSC), Wuhan University of Technology, China. He received his Bachelor, Master and Doctoral degrees from Wuhan University of Technology. He was a Postdoctoral Researcher at the Institute of Materials and Systems for Sustainability, Nagoya University, Japan. He specializes in traffic safety, driving behavior, human factors, and connected automated vehicles. He has published more than 30 papers in journals such as Accident Analysis and Prevention, Safety Science, and China Journal of Highway and Transport. He also serves as a reviewer for more than 20 journals.</p>
<p><b>TIAN, Kai</b></p> 	<p>Assistant Professor, Intelligent Transportation Systems Center, Wuhan University of Technology, China.</p> <p>Dr. Tian Kai is a Specially Appointed Researcher at Wuhan University of Technology. He obtained his PhD from the Institute for Transport Studies at the University of Leeds and was previously a visiting scholar at Queen's University Belfast. Since 2024, he has been a faculty member at the Intelligent Transportation Systems Research Center at Wuhan University of Technology. His core research focuses on the modeling and simulation of interactive decision-making between autonomous vehicles and vulnerable road users (such as pedestrians and cyclists), as well as driver human factors and safety analysis. Dr. Tian has a strong record of research achievements. He has led several key national and provincial-level projects in China and has been deeply involved in major international research initiatives, including those with the UK Engineering and Physical Sciences Research Council (EPSRC) and the EU Horizon 2020 program. He has published a total of 20 academic papers (11 of which are first-author SCI/EI papers) and holds 7 invention patents.</p>
<p><b>Session XII: Traffic Operation and Transportation System Management</b></p>	
<p><b>FU, Liping</b></p> 	<p>Professor Department of Civil and Environmental Engineering, University of Waterloo</p> <p>Dr. Liping Fu is a Professor in the Department of Civil and Environmental Engineering and Director of the Innovative Transportation System Solutions (iTSS) Lab at the University of Waterloo. He is a Fellow of Canadian Society for Civil Engineering and the past Chair of Transportation of Division of CSCE. Dr. Fu received Transportation Association of Canada (TAC)'s Academic Merit Award sponsored by Transport Canada for his long-term contribution to the advancement of the academic field and to the development of tomorrow's transportation leaders. He was also the recipient of Engineering Research Excellence Award and Excellence in Graduate Supervision. Dr. Fu's research interest specifically focuses on evaluation and optimization of large, complex traffic and transportation service systems where uncertainty and dynamics play a major role, and on the development of decision support tools for use in managing these systems. He has a long track record of research contributions to the areas of intelligent transportation systems, public transit, road safety, and winter road operations. He has served on numerous technical committees of various professional organizations, including Transportation Research Board's Committee, Editorial Advisory Board of the journal of Transportation Research, Intelligent Transportation Systems Society of Canada, Canadian Urban Transit Association, and Institute of Transportation Engineers.</p>
<p><b>ZHONG, Ming</b></p> 	<p>Professor Wuhan University of Technology</p> <p>Dr. Ming Zhong is a Professor at Intelligent Transportation Systems Research Center (ITSC), Wuhan University of Technology (WHUT) and an adjunct professor at Department of Civil and Environmental Engineering, University of Waterloo. He is an awardee of Hubei ChuTian Chair Professor in 2010 and Hubei "Hundred Talents" Professor in 2014. Dr. Zhong has provided consulting services to several transportation agencies, including City of Shanghai, City of Wuhan, City of Guangzhou in China; Saskatchewan Ministry of Highways and Infrastructure, Alberta Transportation, City of Calgary, New Brunswick Department of Transportation and Infrastructure and City of Fredericton, Canada. He has served on several technical committees of professional organizations in China and North America, including Transportation Research Board (TRB), Transportation Association of Canada (TAC), Canadian Institute of</p>

	<p>Transportation Engineers (CITE), China Highway and Transportation Society (CHTS), China Communications and Transportation Association (CCTA), Chinese Systems Engineering Society (CSES) and Road Management Committee of the Province of Hubei and the City of Wuhan. He served as the Chair of Transportation Division of Canadian Society for Civil Engineering (CSCE) from 2012 to 2014. He is also the editor-in-Chief (EIC) for the Journal of Transport Information and Safety (in Chinese) and a reviewer for over a dozen of top national/international journals (editorial board member for some of them) and members of organizing committees of several international conferences (including International Conference on Transportation Information and Safety (ICTIS), International Conference on Integrated Land Use Transport Modeling (ILUTM, founding co-chair), CSCE Annual Meeting, and Canada-China Winter Transportation Symposium. To date, Dr. Ming Zhong have been granted research funding from various federal, provincial and local organizations in Canada and China, including Natural Science and Engineering Research Council (NSERC) of Canada (including an NSERC Discovery, an NSERC Equipment, an NSERC Engage and an NSERC Strategic Project grant), Canadian Foundation of Innovation (CFI), New Brunswick Innovation Foundation (NBIF), City of Fredericton and UNB in Canada; and various grants from Natural Science Foundation of China (NSFC), Ministry of Science and Technology, China, Province of Hubei, City of Wuhan, City of Guangzhou, Wuhan University of Technology and other agencies in China. His research interests include land use transport interaction modeling, travel behavior analysis and travel demand modeling, traffic monitoring program and data analysis, intelligent transportation systems (ITS), and remote sensing/GIS applications in transportation. To date, he has published more than 110 journal papers (with 80+ SCI/SSCI/EI), more than 160 conference papers and 110+ other non-referred publications &amp; presentations. Most of his work has been published on the following journals, such as Transportation Research: Part C, Environment Planning: B, Urban Studies, Sustainability, Journal of Transportation Engineering, Journal of Computing in Civil Engineering, Transportation Research Records, and Journal of Transportation Planning and Technology.</p>
<p><b>JIANG, Zhonglian</b></p> 	<p>Professor Wuhan University of Technology</p> <p>Prof. Zhonglian Jiang graduated from Hohai University of China and holds a PhD in Coastal Engineering from the University of Queensland in Australia. His research work focuses on river hydrodynamic modelling, ecology affairs and water transport management. He has published over 50 peer-reviewed journal papers and one books. His work has been funded by a variety of sources including the National Natural Science Foundation of China (NSFC), Ministry of Science and Technology (MOST) and Chinese Academy of Engineering. Prof Jiang has been granted with 6 provincial scientific awards. Concurrently, he serves as a member of the Waterway Technology Special Committee of the China Institute of Navigation and the secretary-general of the Waterway Transportation Special Committee of the China Intelligent Transportation Association. Besides, he has served as a reviewer for a number of international journals.</p>
<p><b>Session XIII: Waterborne Transportation Intelligent Management</b></p>	
<p><b>THEOTOKATOS, Gerasimos</b></p> 	<p>Professor University of Strathclyde</p> <p>I am the DNV Professor of Safety of Marine Systems at the Maritime Safety Research Centre (MSRC) of the Department of Naval Architecture, Ocean &amp; Marine Engineering at the University of Strathclyde since June 2020. I am the Director of the MSRC, a world-class centre of excellence with a vision to shape the maritime safety, which was established as a significant Industry-University partnership involving the University of Strathclyde, Royal Caribbean Cruise Lines and DNV Classification Society. I graduated from the Department of Mechanical Engineering of the National Technical University of Athens (NTUA) in 1994 and obtained a PhD degree, also from NTUA, in 2001 in the discipline of Marine Engineering. My research focuses on the development of scientific approaches to holistically capture the safety, energy and sustainability interplay of the complex marine systems including cyber-physical and autonomous systems. My research supports the development and use of advanced model-based methods and digital twin tools to address the design of safe, feasible and green alternatives to meet the demanding marine industry requirements, pursuing life-cycle risk and energy management, efficiency improvement, as well as safety and sustainability enhancement.</p>
<p><b>HUANG, Yamin</b></p>	<p>Professor Wuhan University of Technology</p>



Dr. Yamin Huang is a Professor at the Intelligent Transport System Research Centre (ITS), State Key Laboratory of Maritime Technology and Safety, and National Engineering Research Center for Water Transport Safety in Wuhan University of Technology. He also serves as an area editor in the Journal of Transport Information and Safety (in Chinese) and the youth editor both in the Journal of Traffic and Transportation Engineering (In Chinese) and Transportation Safety and Environment. He has worked on enhancing Maritime Safety by using emerging techniques. Specifically, he is interested in developing GNC systems for Maritime Autonomous Surface Ships (MASS), Human-Machine Cooperative systems aiming at the development of interpretable and interactive MASS(i2-MASS), and developing state-of-the-art risk assessment tools for Waterborne Traffic Control. On these topics, he has published more than 30 papers in peer-reviewed journals and won 2 Scientific and Technological Rewards from the China Institute of Navigation.

**Session VIII: Waterborne Transportation Safety, Accident Prevention and Emergency Response**

**KURT, Rafet Emek**



Professor  
University of Strathclyde

Dr. Rafet Emek Kurt, a Reader at the University of Strathclyde, is involved in maritime safety and risk research, focusing on the crucial role of human factors. Dr. Kurt also serves as the Director of the Maritime Human Factors Centre, further demonstrating his commitment to advancing research in this field. Additionally, he holds the position of Associate Editor in Ships and Offshore Structures, showcasing his dedication to the dissemination of knowledge within the maritime community. Dr. Kurt is also a member of the International Ship and Offshore Structures Congress (ISSC), where he collaborates with peers to develop ship design criteria informed by human factors, further highlighting his commitment to the advancement of maritime safety practices.

Over the years, Dr. Kurt has worked on many research projects aimed at integrating human factors, safety, and risk into maritime practices. His work has been published in respected journals and conferences, igniting essential discussions in the maritime community.

His interests are wide-ranging, including human risk-informed design, safety culture, and safety learning. Dr Kurt's exploration of topics such as human reliability assessment and resilience engineering demonstrates his genuine curiosity about how human performance is central to maritime safety.

Dr Kurt was the maritime coordinator of the EU H2020 SAFEMODE Project. SAFEMODE was a significant initiative aimed at enhancing HF approach frameworks in the aviation and maritime industries. It delivered a human risk-informed design framework to support designers in integrating human factors considerations into design. Outside academia, Dr Kurt is closely cooperating with industry and has supported regulation development on numerous occasions.

**WU, Bing**



Professor  
Wuhan University of Technology

Dr. Bing Wu currently is full Professor in Intelligent Transportation Research Centre, Wuhan University of Technology. He is the Assistant Director of the State Key Laboratory of Maritime Technology and Safety. He received his B.Eng. degree in marine engineering, M.Eng. degree in traffic information engineering and control, and PhD in traffic engineering from Wuhan University of Technology in Wuhan, China, in 2008, 2012, and 2016 respectively. During the period from 2014 to 2015, He was a joint PhD student in University of Lisbon. He received the Hong Kong Scholars Fellowship in 2017, and the National High-Level Talent (Youth) in 2021. His main research interests include risk analysis, decision making and human reliability analysis for maritime transportation. He has published more than 50 technical journal papers and international conference papers.

**FU, Shanshan**

Professor  
Shanghai Maritime University, China

Dr. Shanshan Fu is a professor at the College of Transport & Communications, Shanghai Maritime University, China. Currently, she is a visiting scholar at Chalmers University of Technology, Sweden. She obtained her B.Sc., M.Sc. and Ph.D. degrees from Wuhan University of Technology, Wuhan, China, in 2010, 2013 and 2017, respectively. From January 2015 to June 2016, she was a visiting Ph.D. student at Ecole Centrale Paris, France.



Her research focuses on risk assessment of maritime transportation systems and data driven-based modeling for navigational accidents. She is the principal investigator of six innovative research projects on maritime safety, including two funded by the National Natural Science Foundation of China and four by the Shanghai Municipal Science and Technology Commission. She has published over 40 peer-reviewed international journal papers, such as *Reliability Engineering & System Safety*, *Ocean Engineering*, and *Transport Policy*. She obtained the China Navigation Youth Science and Technology Award in 2024, which is awarded to 20 recipients every two years.

## ORGANIZING COMMITTEE MEMBERS

<p><b>ARIAS-ARANDA, Daniel</b> <b>Chairman</b></p> 	<p>Professor University of Granada</p> <p>Graduated in Business Administration and Management and in Economics from the Carlos III University of Madrid, he is a doctor in Economic and Business Sciences from the Complutense University of Madrid. He has been Associate Professor at the Complutense University of Madrid from 1997 to 1999. Since 1999 he has been Associate Professor, Full Professor (2003) and obtained a position as Professor of Business Organization at the Faculty of Economic and Business Sciences of Granada in 2011. His research has focused on Operations Management, Innovation Management, Management of Service Companies, Relationship between the implementation of advanced Enterprise Resource Planning (ERP) Systems and Supply Chain Management and Simulation. He has also published works in the field of R+D+i in the field of Functional Food as well as related to Business Development in the Health Sciences Technology Park of Granada during his time as Director of the Center for Business Planning and Development of the Technological Park of Health Sciences. From his different public responsibilities, he has been Secretary of the Department of Business Organization of the University of Granada (2004-2006), Vice Dean of the Faculty of Economic and Business Sciences of said university (2006-2008), Director of the Center for Planning and Business Development of the Technological Park of Health Sciences (2008-2011) and Coordinator of the Double Master in Economics and International Management (University of Granada-SRH Hochschule Berlin) (2011-2015). He has been Principal Investigator and has participated in numerous national and international competitive research projects related to the implementation of advanced ERP for Supply Chain Management. He currently teaches at the Higher Technical School of Roads, Canals and Ports Engineering, at the Faculty of Labor Sciences and Human Resources and at the Faculty of Economic and Business Sciences of the University of Granada.</p>
<p><b>REN, Jun</b> <b>Co-Chairman</b></p> 	<p>Professor Liverpool John Moores University</p> <p>Dr. Jun Ren is a Reader in Logistics and Supply Chain Management in the Liverpool Logistics, Offshore and Marine (LOOM) Research Institute at Liverpool John Moores University (LJMU), UK. Dr. Ren has a PhD (2003 from the University of Exeter, UK) in Strategic Manufacturing and Operations Management and over 20 years of industrial, teaching, and research experience within the areas of risk analysis and safety assessment, logistics, and supply chain analysis. He has been leading researcher in the development of a range of decision support systems and applications for logistics and supply chain systems, offshore installations, oil/gas development projects, and agile/lean systems with financial support from the National Natural Science Foundation of China (NSFC), the UK Engineering and Physical Sciences Research Council (EPSRC), EU, etc. These systems are used in a wide range of decision-making and risk assessment activities by organizations including General Motors, Tesco, NHS, Ford, Shell, BP and CNOOC in relation to enterprise, healthcare and finance; modelling and analysis of system safety and security; organisational self-assessment in quality management; policy-making support and pipeline leak detection. From 2011 to 2015, he was an investigator on the €9.5m EU-funded project Westflows (freight movement in North West Europe) (€700k allocated to LJMU). Currently, he is managing a project funded by EU grant (€1,104,000 to research network on Emergency resources supply chain). Dr. Ren has supervised over 10 PhD students to completion and is currently supervising 5 PhD students in the areas of supply chain management and logistics operations. He is an editorial board member/an associate editor of three international journals and has published over 100 refereed research papers.</p>
<p><b>WU, Chaozhong</b> <b>Co-Chairman</b></p>	<p>Professor Professor, Hubei University of Arts and Sciences, Director of National Engineering Research Center for Water Transport Safety, China.</p> <p>Chaozhong Wu, Professor, He is a leading talent in science and technology innovation supported by the National High-level Talent Special Support Program</p>

	<p>and serves as the Executive Director of the China Intelligent Transportation Systems Association. Professor Wu has been long dedicated to research on Intelligent Driving and Traffic Safety. In the past five years, he has presided over the National Key R&amp;D Program project "Research and Development of Digitization Software Technology for Transportation Infrastructure" and the National Natural Science Foundation joint fund project "Intelligent Vehicle Environment Fine Perception, Deep Integration, and Dynamic Modeling Methods". His scientific achievements have been recognized with the first prize of the China Intelligent Transportation Association Technology Invention Award and the second prize of the Hubei Province Technology Invention Award.</p>
<p><b>ZHANG, Di</b> <b>Co-Chairman</b></p> 	<p>Professor Vice-president of Wuhan University of Technology</p> <p>Di Zhang is Professor and doctoral supervisor at Wuhan University of Technology, the National Science Fund for Distinguished Young Scholars and a leading young and middle-aged innovator in science and technology in the transportation industry. Currently serves as the Vice President of Wuhan University of Technology and the Director of the National Key Laboratory of Waterway Traffic Control (Wuhan University of Technology).</p>
<p><b>ZHANG, Hui</b> <b>Executive Chairman</b></p> 	<p>Professor Director of Intelligent Transportation Systems Research Center (ITSC) Wuhan University of Technology</p> <p>Dr. Hui Zhang is the Director and a Professor of Intelligent Transportation Systems Research Center (ITSC) at Wuhan University of Technology, Wuhan, China. His main expertise is in the areas of traffic safety management and driving behavior analysis. He serves on the editorial board members of Accident Analysis and Prevention. Dr. Hui Zhang was the Principal Investigator of one National Key Research and Development Project of China and three National Natural Science Foundation of China and has published more than 60 peer reviewed articles. He is also the youth committee member of China Communications and Transportation Association and the Vice Secretary of Intelligent Transportation Systems Technical Commission of Chinese Association for Artificial Intelligence. He is awarded the Deborah Freund Paper Award in 2017 by Transportation Research Board Truck and Bus Safety (ANB70) Committee.</p>
<p><b>WU, Bing</b> <b>Executive Vice Chairman</b></p> 	<p>Professor Wuhan University of Technology</p> <p>Dr. Bing Wu currently is full Professor in Intelligent Transportation Research Centre, Wuhan University of Technology. He is the Assistant Director of the State Key Laboratory of Maritime Technology and Safety. He received his B.Eng. degree in marine engineering, M.Eng. degree in traffic information engineering and control, and PhD in traffic engineering from Wuhan University of Technology in Wuhan, China, in 2008, 2012, and 2016 respectively. During the period from 2014 to 2015, He was a joint PhD student in University of Lisbon. He received the Hong Kong Scholars Fellowship in 2017, and the National High-Level Talent (Youth) in 2021. His main research interests include risk analysis, decision making and human reliability analysis for maritime transportation. He has published more than 50 technical journal papers and international conference papers.</p>
<p><b>HE, Yi</b> <b>Executive Vice Chairman</b></p>	<p>Professor Vice Director of Intelligent Transportation Systems Research Center (ITSC) Wuhan University of Technology</p> <p>Dr. Yi HE is a professor and doctoral supervisor at Wuhan University of Technology. He has been honored as an "Innovative Leading Talent" by the Chinese Academy of Engineering and the Royal Academy of Engineering in the UK, as well as a "Young Top Talent" in Hubei Province and the recipient of the</p>



"Youth Innovation Award" from the China Communications and Transportation Association. He has long been dedicated to research and application in vehicle dynamics control, intelligent driving and autonomous driving, and intelligent transportation technology. Additionally, he holds positions as the deputy chairman of the Special Vehicles Branch of the China Society of Automotive Engineers and the secretary-general of the Youth Science and Technology Workers Committee of the China Communications and Transportation Association.

**OUYANG, Wu**  
Executive Vice Chairman



Professor  
Wuhan University of Technology

Prof. Wu Ouyang is a full Professor at the State Key Laboratory of Maritime Technology and Safety, National Engineering Research Center for Water Transport Safety, School of Transportation and Logistics Engineering, Wuhan University of Technology, China. He received his Doctoral degree in Mechanical Engineering from Xi'an Jiaotong University, China. He is Transportation Young Scientific Talent, a member of the WG217 Working Group of the PIANC, and a young editorial board member of the Journal of Transportation Engineering, China Mechanical Engineering and Ship Engineering. He specializes in the green and efficient ship propulsion technology, state-aware and intelligent control technology of propulsion system. He has undertaken an international cooperation project of the National Key R & D Program of China and some other projects. He has published more than 90 papers, including 70 SCI/EI-indexed papers. He has published 1 academic book as the sole author. He held more than 30 patents in his specialty field. He won the first prize of China Maritime Science and Technology Award, the first prize of Guangdong Electric Industry Science and Technology Award.

**Dr. Patricia Brañas Garza**



**Dr. Kai Tian**



**Dr. Bao Liu**



**Dr. Changyin Wei**



**Dr. Yang Liu**



**Ms Yu Lu**

## PREVIOUS CONFERENCE INFORMATION

### The 1<sup>st</sup> International Conference on Transportation Information and Safety (ICTIS 2011)

Wuhan, China  
June 29<sup>th</sup> ~ July 2<sup>nd</sup> 2011

The 1<sup>st</sup> International Conference on Transportation Information and Safety (ICTIS 2011), which was sponsored by China Communications and Transportation Association (CCTA), American Society of Civil Engineers (ASCE) and Canadian Society for Civil Engineering (CSCE), and organized by Wuhan University of Technology (WUT), was held from June 30<sup>th</sup> through July 2<sup>nd</sup> 2011 successfully in Wuhan, China. The theme of ICTIS 2011 is "Transportation Safety in Information Age", which includes a broad range of topics related to the research and applications in transportation safety and information systems/technology. The conference showcases international experiences in transportation research and development, and provides a platform for both domestic and overseas experts to exchange successful stories and share lessons learned in research and practice.

ICTIS 2011 is a high level of international academic conferences in transportation field which combined three national associations in China, the United States and Canada. 355 papers coming from 15 countries were collected and published. At the end of September 2011, all 355 papers published in the "Proceedings of the 1<sup>st</sup> International Conference on Transportation Information and Safety" were indexed by EI. More than 280 scholars from all over the world took part in this academic event. The conference lasts 3 days. There were 3 plenary sessions, a total of 8 experts made keynote speeches. In the 13 technical sessions, 25 experts made invited speeches, and 152 paper authors made presentations. Participants respectively on two aspects of traffic information and traffic safety theme made extensive discussion and communication.



## The 2<sup>nd</sup> International Conference on Transportation Information and Safety (ICTIS 2013)

Wuhan, China  
June 28<sup>th</sup> ~July 1<sup>st</sup> 2013

The 2<sup>nd</sup> International Conference on Transportation Information and Safety (ICTIS 2013) was sponsored by Wuhan University of Technology, co-sponsored by China Communications and Transportation Association (CCTA), American Society of Civil Engineers (ASCE) and Canadian Society for Civil Engineering (CSCE). The conference was held at the Holiday Inn Riverside Wuhan. The theme of ICTIS 2013 is “Transportation Safety in the Age of Internet of Things”, which includes a broad range of topics related to the theories, technologies and applications in transportation safety and information technology. More than 280 experts and scholars of transportation field from 15 countries and regions participated the academic events.

The conference received a total of 494 academic abstracts from domestic and foreign, and nearly 400 effective full manuscripts. 75 domestic and foreign experts were arranged for over 700 peered paper reviewers. Finally the conference proceedings included a total of 355 papers from fifteen countries and regions. At the end of November 2013, all 339 papers published in the "Proceedings of the 2nd International Conference on Transportation Information and Safety" (ISBN 9780784413036) were indexed by EI.

The conference lasted three days. On June 29th, there were 3 plenary sessions, a total of 10 domestic and foreign experts made keynote speeches. On the second and third days, there were 12 technical sessions, consists of a total of 24 invited speeches and 113 academic reports. The conference gives a good communication on transportation information and safety.



## The 3<sup>rd</sup> International Conference on Transportation Information and Safety (ICTIS 2015)

Wuhan, China

June 25<sup>th</sup> ~June 28<sup>th</sup> 2015

The 3<sup>rd</sup> International Conference on Transportation Information and Safety (ICTIS 2015) was held from June 25<sup>th</sup> to June 28<sup>th</sup> 2015 in Wuhan, China. The theme of ICTIS 2015 is “Transportation Information and Safety in the Age of Big data”. Experts, scholars and practicing engineers of transportation systems are invited to the conference to discuss a broad range of topics related to the theories, technologies and applications of transportation information and safety technology. The conference shows international experiences in the research of multimodal transportation (including road, railway, navigation, aviation, and urban road) and development, and provide a platform for both domestic and overseas scholars and practicing engineers to exchange successful stories and share lessons learned in research and practice.

The conference received a total of 283 academic abstracts from domestic and foreign countries. Finally the conference proceedings included a total of 166 papers from 15 countries and regions. Selected papers were published as a special issue in an international journal called “Transportation Information and Safety”. All the accepted papers were published in the "Proceedings of the 3<sup>rd</sup> International Conference on Transportation Information and Safety" and were indexed by EI.

The conference lasted four days. A total of 11 domestic and foreign experts made keynote speeches. On the second and third days, there were 10 technical sessions, consists of a total of 23 invited speeches and over 100 academic report. The conference gives a good communication on transportation information and safety.



## The 4<sup>th</sup> International Conference on Transportation Information and Safety (ICTIS 2017)

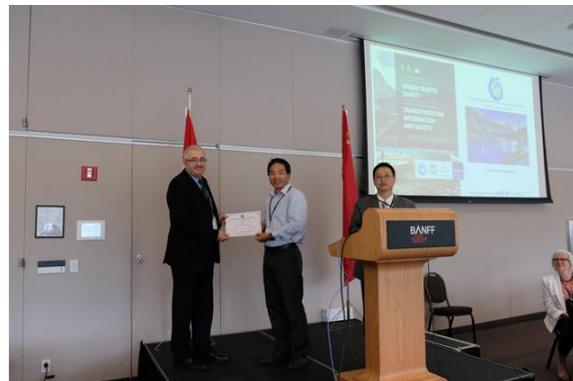
BANFF, CANADA

AUGUST 8-10, 2017

The 4<sup>th</sup> International Conference on Transportation Information and Safety (ICTIS 2017) was co-held with the 9th International Conference on Urban Traffic Safety, organized by the Office of Traffic Safety, City of Edmonton, Canada. The theme of ICTIS 2017 is "Transportation Information and Safety in Intelligent and Connected Environments". Experts, scholars and practicing engineers of transportation systems are invited to the conference to discuss a broad range of topics related to the theories, technologies and applications of transportation information and safety technology. The conference shows international experiences in the research of multimodal transportation (including road, railway, navigation, aviation, and urban road) and development, and provide a platform for both domestic and overseas scholars and practicing engineers to exchange successful stories and share lessons learned in research and practice.

The conference received more than 300 academic abstracts from domestic and foreign countries. Finally the conference proceedings included a total of 198 papers from 13 countries and regions. All the accepted papers were published in the "Proceedings of the 4<sup>th</sup> International Conference on Transportation Information and Safety" and were indexed by EI.

The conference lasted three days. A total of five domestic and foreign experts made keynote speeches. On the second and third days, there were 22 technical sessions, consists of a total of 11 invited speeches and over 60 academic reports. The conference gives a good communication on transportation information and safety.



## **The 5<sup>th</sup> International Conference on Transportation Information and Safety (ICTIS 2019)**

Liverpool, UK

July 14-17, 2019

The 5<sup>th</sup> International Conference on Transportation Information and Safety (ICTIS 2019) was held from July 14<sup>th</sup> to July 17<sup>th</sup> 2019 in Liverpool, UK. ICTIS 2019 was sponsored by China Communications and Transportation Association, American Society of Civil Engineers, Canadian Society for Civil Engineering and IEEE Intelligent Transportation Systems Society. The theme of ICTIS 2019 is “Smart, Safe and Sustainable Transport”. Experts, scholars and engineers of transportation systems all over the world are invited to the conference to discuss a broad range of topics related to the theories, technologies and applications of transportation information and safety technology.

ICTIS 2019 had received 306 full papers from researchers in 11 countries and regions, among which 243 papers have been selected for publication in the ICTIS 2019 Proceedings through IEEE. There were 24 technical sessions of ICTIS 2019.



## **The 6<sup>th</sup> International Conference on Transportation Information and Safety (ICTIS 2021)**

Wuhan, China

October 22-24, 2021

The 6<sup>th</sup> International Conference on Transportation Information and Safety (ICTIS 2021) was held from October 22<sup>th</sup> to July 24<sup>th</sup> 2021 in Wuhan, China. ICTIS 2021 was sponsored by China Communications and Transportation Association, Canadian Society for Civil Engineering and IEEE Intelligent Transportation Systems Society. The theme of ICTIS 2021 is “New Infrastructure Construction for Better Transportation”. Experts, scholars and engineers of transportation systems all over the world are invited to the conference to discuss a broad range of topics related to the theories, technologies and applications of transportation information and safety technology.

ICTIS 2021 had received 365 full papers from researchers in 11 countries and regions, among which 243 papers have been selected for publication in the ICTIS 2021 Proceedings through IEEE. There were 30 technical sessions of ICTIS 2021.



**The 7<sup>th</sup> IEEE International Conference on Transportation Information and Safety  
(ICTIS 2023)**

Xi'an, China

August 4-6, 2023

The 7<sup>th</sup> International Conference on Transportation Information and Safety (ICTIS 2023) was held from August 4<sup>th</sup> to August 6<sup>th</sup> 2023 in Xi'an, China. ICTIS 2023 was sponsored by China Communications and Transportation Association, Canadian Society for Civil Engineering and IEEE Intelligent Transportation Systems Society. The theme of ICTIS 2021 is "Internet of Vehicle and Smart Transportation". Experts, scholars and engineers of transportation systems all over the world are invited to the conference to discuss a broad range of topics related to the theories, technologies and applications of transportation information and safety technology.

ICTIS 2023 had received 402 full papers from researchers in 13 countries and regions, among which 364 papers have been selected for publication in the ICTIS 2023 Proceedings through IEEE. There were 16 technical sessions of ICTIS 2023.

