



The 1st International Conference of Maritime Transportation and Innovation
The 4th International Conference on Transport and Supply Chain
Resilience and Digital Transformation

The 1st ICMTI & the 4th TSCRDT



PROGRAMME



The 1st ICMTI & the 4th TSCRDT

The 1st International Conference of Maritime Transportation and Innovation
& the 4th International Conference on Transport and Supply Chain Resilience
and Digital Transformation

August 26-29, Liverpool and London, UK

Sponsored by

- European Research Council (ERC)
- UK Research and Innovation (UKRI)
- Maritime Research and Innovation UK (MarRI-UK)
- International Ocean Society
- UK EPSRC-funded Maritime and Last Mile Net Zero (MaLaMi)



Organised by

- Liverpool John Moores University
- University of Liverpool
- UK ESRC-funded Net Zero Maritime Energy Solutions Centre for Doctoral Training
- Beijing Normal - Hong Kong Baptist University
- International Centre for Resilient Supply Chains
- Global Centre for Maritime Innovation



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I

Welcome



Welcome Message from the conference chair, Professor Zaili Yang



It is my great pleasure, on behalf of the Conference Committee, to welcome you to the 1st International Conference of Maritime Transportation and Innovation and the 4th International Conference on Transport and Supply Chain Resilience and Digital Transformation. Hosted in Liverpool and London, this joint conference provides an international platform for scholars, industry experts, policymakers, and practitioners to exchange new ideas, present recent research findings, and discuss future directions in maritime transportation, shipping systems, port and logistics operations, supply chain resilience, digital transformation, and sustainable transport development. The United Kingdom has a long maritime tradition, and both Liverpool and London have played important roles in global shipping, trade, maritime services and transport policy. Holding this joint conference in these two cities, therefore, provides a meaningful setting for discussions on maritime innovation, digital transformation, resilience, and sustainability.

Liverpool John Moores University (LJMU) is a modern civic university with a strong commitment to research excellence, education, innovation, and engagement with industry and society. Maritime Studies has been one of the subjects of strategic importance, evidenced by the launch of Global Centre for Maritime Innovation (GCMI). Within GCMI, the Liverpool Logistics, Offshore and Marine Research Institute (LOOM) has developed into one of the UK's leading maritime research centres, with internationally recognised expertise in maritime transportation, logistics, and the design, operation, safety, sustainability, and digital transformation of large maritime engineering systems. Rooted in Liverpool's maritime heritage and connected to national and international research networks, LOOM plays an important role in advancing knowledge, developing future skills, and supporting the transformation of the maritime sector. Through this conference, GCMI and LOOM are pleased to welcome colleagues from around the world to Liverpool and to support continued dialogue, collaboration, and innovation across the global maritime and transport community.

The conference hosts over 100 presentations and brings together 6 keynote speakers, 27 invited and plenary speakers, 4 special sessions, and participants from academia, industry, and professional organisations. The programme covers a wide range of key themes, including maritime safety, risk and resilience, artificial intelligence, maritime autonomy, decarbonisation, port and logistics operations, and supply chain resilience. These topics reflect the major transformations underway across the maritime and transport sectors, from the adoption of smart technologies and greener transport solutions to the growing need for efficient operations, resilient supply chains, and sustainable global trade networks.

Through keynote speeches, invited presentations, parallel technical sessions, special sessions, and associated events, we hope the 1st ICMTI and 4th TSCRDT will foster meaningful discussion, strengthen international collaboration, and support the development of safer, smarter, greener, and more resilient maritime transportation systems. We would like to express our sincere appreciation to all authors, speakers, reviewers, committee members, sponsors, partners, and participants for their valuable contributions and support.

Once again, we warmly welcome all of you to Liverpool and the 1st ICMTI and the 4th TSCRDT conference. We wish everyone a fruitful, engaging, and inspiring conference ahead.

Professor Zaili Yang

The 1st ICMTI and the 4th TSCRDT Conference General Chair
Professor of Maritime Transport at Liverpool John Moores University, UK

Welcome Message from John Bridgeman, N0MES Principal Investigator and Director



On behalf of Net Zero Maritime Energy Solutions (N0MES), I am delighted to add my own welcome to Professor Yang's, and to thank Liverpool John Moores University and the wider conference committee for bringing the 1st ICMTI and 4th TSCRDT to Liverpool and London.

N0MES is proud to co-organise this conference alongside LJMU, and prouder still to bring so many of our doctoral researchers into its programme. Fourteen researchers from our second cohort will each deliver a three-minute pitch of their work in Special Session 1.3, a format that demands they distil complex, cross-disciplinary research into something sharp and immediate for a mixed academic and industry audience. Alongside them, researchers from our first cohort, now approaching the end of their second year, will give ten-minute presentations across Special Sessions 1.1 and 1.2, reflecting the depth their projects have reached since they began.

Taken together, these sessions capture what N0MES sets out to do: train engineers and researchers who move fluidly between rigorous technical work and the practical, often urgent, problems facing the maritime and offshore energy sectors. From net-zero shipbuilding and ship route extraction to offshore decommissioning and coastal climate risk, this year's cohorts speak directly to the transition our sector must deliver.

We are also delighted that Danielle Lane, Director of Offshore Development UK for RWE, joins us as a keynote speaker, representing our N0MES industry partners. Her perspective on the offshore wind sector's growing pains speaks directly to why partnerships like ours between academia and industry matter: the challenges she describes are precisely the ones our researchers are working to address.

My thanks to everyone who has supported our researchers on their journey to this conference, and to the wider ICMTI and TSCRDT community for the platform to share their work. I hope you enjoy the sessions ahead, and the conversations they spark.

John Bridgeman

TN0MES Principal Investigator and Director
Dr Matt Fulton (he/him)

II

The 1st ICMTI & the 4th TSCRDT Committee



Conference General Chair

Zaili Yang, Liverpool John Moores University, UK

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John Bridgeman, University of Liverpool, UK

Christian Matthews, Liverpool John Moores University, UK

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Ying-En Ge, Chang'an University, China

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Christos Kontovas, Liverpool John Moores University, UK

He Li, Liverpool John Moores University, UK

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Shaodong Tang, Beijing Normal - Hong Kong Baptist University, China
Tahsin Tezdogan, University of Southampton, UK
Nikolaos P. Ventikos, National Technical University of Athens, Greece
Xinjian Wang, Dalian Maritime University, China
Yuhong Wang, Ningbo University, China
Yi Xiao, Beijing Normal - Hong Kong Baptist University, China
Ran Yan, Nanyang Technological University, Singapore
Zhongzhen Yang, Ningbo University, China
Yap Wei Yim, Singapore University of Social Sciences, Singapore
Kum Fai Yuen, Nanyang Technological University, Singapore
Di Zhang, Wuhan University of Technology, China

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Matt Fulton, University of Liverpool, UK

III

Sponsors & Organisers



(1) Sponsors

- European Research Council (ERC)
- UK Research and Innovation (UKRI)
- Maritime Research and Innovation UK (MarRI-UK)
- International Ocean Society (IOS)
- UK EPSRC-funded Maritime and Last Mile Net Zero (MaLaMi)

(2) Organisers

- Liverpool John Moores University (LJMU)
- University of Liverpool (UoL)
- UK ESRC-funded Net Zero Maritime Energy Solutions Centre for Doctoral Training
- Beijing Normal-Hong Kong Baptist University (BNBU)
- International Centre for Resilient Supply Chains, BNBU
- Global Centre for Maritime Innovation, LJMU

IV

Keynote Speeches





A. Keynote Speech 1

Thursday, August 27 / 09:20-10:00, Merchant Suite

Presentation Title: Development of Next-Generation Shipping Systems and Reflections on Future Innovation Directions

Xinping Yan, PhD, Professor

Academician of the Chinese Academy of Engineering

Abstract: This speech provides an overview of the concept and key features of next-generation shipping systems, introduces our research group's innovative practices in this system, and discusses future directions for technological innovation in shipping, with a focus on green, intelligent, and resilient development.

Speaker Bio: Professor Xinping Yan is an Academician of the Chinese Academy of Engineering and Chair of the Academic Committee of Wuhan University of Technology. He is Director of the State Key Laboratory of Maritime Technology and Safety, the International Science and Technology Cooperation Base for Smart Shipping and Maritime Safety, and the Discipline Innovation and Talent Introduction Base of Intelligent Shipping and Maritime Safety. He also serves as Chief Scientist of the National Engineering Research Center for Water Transport Safety. Professor Yan concurrently serves as the 10th President of the China Institute of Navigation, Deputy Director of the Energy and Transportation Division of the Science and Technology Committee of the Ministry of Education, and a member of the Expert Committee of the Ministry of Transport and Advisory Committee on the Strategy of Building a Shipbuilding Power of the Ministry of Industry and Information Technology. He has long been engaged in teaching and research in transportation engineering, and is committed to the research of intelligent, safe and green technologies for waterway transportation.



B. Keynote Speech 2

Thursday, August 27 / 10:00-10:40, Merchant Suite

Presentation Title: Evolution towards green and intelligent ships

Carlos Guedes Soares, PhD, Professor

Fellow of the Portuguese Academy of Engineering

Fellow of the European Academy of Sciences and Arts

Foreign Member of the Chinese Academy of Engineering

Abstract: An overview of the main trends identified in commercial shipping is provided as technology is developed and implemented in new ships and retrofitted into some existing ships. Decarbonization of the world fleet is being progressively implemented, with new technology incorporated into new ship designs and constructions and the adaptation of the existing fleet through different types of retrofits.

The generic approach is to implement short- and medium-term solutions to improve energy efficiency and reduce greenhouse gas emissions, while research and development efforts focus on new fuels that do not emit greenhouse gases. The long-term solution requires new fuels to become widely available through appropriate infrastructure at the main ports that the relevant ships demand. It also requires developments in ship machinery systems to adapt them for use with the new fuels.

Another important trend in the evolution is the increasing adoption of intelligent technologies and digitalisation. Automation has been implemented for many years in various shipboard systems, but the recent trend is an increased level of intelligence, as systems incorporate higher levels of decision-making across an increasingly wide range of operations. This trend is more evident in prototypes of autonomous ships being tested in various countries.

Speaker Bio: Carlos Guedes Soares is a Distinguished Professor of the Engineering School (Instituto Superior Técnico) of the University of Lisbon. He founded the Centre for Marine Technology and Ocean Engineering (CENTEC) in 1994, a research centre at the University of Lisbon funded by the Portuguese Foundation for Science and Technology, and is its Scientific Coordinator. 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. Since then, he has been at the University of Lisbon (formerly the Technical University of Lisbon, until 2013). He has supervised over 75 PhD students at IST and co-supervised over 50 PhD students from foreign universities, and his publications have garnered more than 50,000 citations in the Web of Science. In the Stanford World Ranking of the 2% highly cited scientists during their career, he ranked between first and fourth from 2019 to 2025 in the area of Civil Engineering, which includes Marine and Ocean Engineering (out of a total of 62,000 authors). In the same period, he ranked first among all Portuguese scientists from all scientific areas.

He is now Co-Editor-in-Chief of the Journal of Marine Science and Application (Springer), the Journal of Reliability Science and Engineering (IOP Press) and the Autonomous Transportation Research Journal (Elsevier). He is also a member of the Editorial Board of more than 15 Journals. He is the Chairman of WEGEMT, the European Association of Universities on Marine Technology, with 40 universities. He is a Member of the Portuguese Academy of Engineering and the European Academy of Sciences and an International Member of the Chinese Academy of Engineering. He received the Friendship Award in 2024 and the International Science and Technology Cooperation Award in 2026 from the Chinese Government.



C. Keynote Speech 3

Thursday, August 27 / 10:40-11:20, Merchant Suite

Presentation Title: The Offshore Wind Paradox: Success Has Made It Harder work?

Danielle Lane

Director of Offshore Development UK for RWE

Abstract: Offshore wind has been extraordinarily successful. Turbines are larger, farms are farther offshore, and capacity auctions are measured in gigawatts rather than megawatts, however this success has created a paradox. As projects scale up supply chains become stretched, global commodity pressures have resulted in costs rising and the installation, operation and maintenance of site is increasingly constrained by maritime capacity. Add then to this increasing environmental, social, and regulatory tensions the challenges facing Offshore Wind Sector is as great as ever, more so in fact, as we also have emerging complexity of how we consider decommissioning of our early sites. This is why centres like the N0MES CDT are so important as they create the focal points as to where engineering centred research evolves and provide solutions to these problems.

Speaker Bio: Danielle is Director of Offshore Development UK for RWE. She joined RWE in January 2022 from Vattenfall where she worked from 2018 as Director of Asset Value & Partnering as part of the offshore leadership team and as Vattenfall's UK Country Manager. Danielle has worked for leading energy companies delivering offshore wind for almost 25 years including Ørsted, The Crown Estate and Centrica.

RWE and N0MES: RWE's partnership with N0MES extends beyond this keynote. The company is currently cosupervising two PhD projects within the CDT: one developing a two-phase model of the flocculation process caused by offshore installations in coastal waters, the other investigating the effects of offshore wind farms on the distribution of invasive species. Spanning coastal sediment dynamics and marine ecology, the two projects reflect both the multidisciplinary breadth of the N0MES programme and RWE's own research interests, which extend beyond engineering delivery into the maritime and environmental science needed to develop offshore wind responsibly



D. Keynote Speech 4

Friday, August 28 / 09:00-09:40, Merchant Suite

Presentation Title: "Eight Ways of Looking" to boost Maritime Innovation

Tony Graham

Head of the Royal Corps of Naval Constructors

Fellow of the Royal Academy of Engineering

Abstract: Maritime innovation has never been more needed or more prized. The conditions for innovation are perfect: (1) the dismantling of prescriptive regulation, (2) demand for improved performance in increasingly competitive markets, (3) demand for decarbonisation and greater sustainability, (4) a revolution in digital technology and artificial intelligence, (5) a global skills shortage, and (6) a wealth of eager investors. New ideas are easily generated in such a fertile environment, but such ideas offer no real-world value until they become innovations. An idea is simply the initial mental concept or "spark" of creativity. An idea only becomes an innovation when it solves a specific challenge, satisfies a market need, or improves an operational workflow. Simply put, ideas are the raw materials for innovation but to be innovations they must be drawn out from the cerebral world and made productive and commercialised in the physical world. There are many approaches to innovation, but the speaker has chosen to repurpose the Project Leadership framework of 6-ways of looking into a useful tool for maritime innovators because it encourages holistic thinking and has its origins in real-world delivery.

Speaker Bio: Tony Graham sustained a highly successful track record in engineering and programme /project management inside the Ministry of Defence over a 34-year career. Tony trained as a Naval Constructor and achieved the rank of Constructor Rear Admiral alongside his appointment as Head of the Royal Corps of Naval Constructors. He is well known for his 7-year leadership on the Queen Elizabeth Aircraft Carrier programme. His final role in the UK Ministry of Defence was as Director Ships, procuring and supporting all ships of the Royal Navy. More recent private sector shipbuilding roles have included Cammell Laird (Chief Operating Officer) and OCEA Shipbuilding UK Ltd (currently Chairman). His other portfolio roles include being a Visiting Professor at Liverpool John Moores University, a member of the UK Health and Safety Executive Science Quality Assurance Group and a panellist for REF2029.



E. Keynote Speech 5

Friday, August 28 / 09:40-10:20, Merchant Suite

Presentation Title: Safety and Reliability of Intelligent and Autonomous Systems – some challenges and research issues

Min Xie, PhD, Professor

Chair Professor of Industrial Engineering, City University of Hong Kong
Fellow of the European Academy of Sciences and Arts

Abstract: Maritime transportation systems are becoming increasingly intelligent. That brings many new challenges—particularly from a safety and reliability point of view. Beyond traditional safety engineering and system-reliability issues, we must also address maritime-specific issues such as sensor degradation in harsh sea environments, data-quality problems from intermittent communications, and the operational performance of learning algorithms under varying weather, traffic and cargo conditions. Explainability, scalability, and robust adaptation of AI models are also critical for decision making related to autonomous ships, smart ports, etc. For AI-assisted systems, socio-technical factors and human–AI interaction are also important. Regulatory further complicate system modelling, verification and certification. This talk will examine these challenges and discuss some possible solutions and directions for future research issues.

Speaker Bio: Min Xie has been a Chair Professor of Industrial Engineering at City University of Hong Kong since 2011. He entered USTC in China in 1978, and went to Sweden in 1979 to complete his undergraduate studies at the Royal Institute of Technology. He later earned his PhD in Quality Technology from Linköping University in 1987. He was with the National University of Singapore from 1991 until 2011. Professor Xie has conducted extensive research in reliability and safety engineering focusing on general complex systems, and completed many projects, including a large scale maritime transportation safety research project funded under Singapore-Poland collaboration scheme. Prof Xie has published over 400 journal papers and 10 books, is also a Clarivate Highly Cited Researchers 2025. He has mentored about 80 PhD students who now excel in industry and academia across continents. Prof Xie is a fellow of IEEE, elected to the European Academy of Sciences and Arts and currently also chairs the Fellow Evaluation Committee of IEEE Systems Council.

F. Concluding Keynote Address



Friday, August 28 / 10:20-11:00, Merchant Suite

Presentation Title: Holistic Risk-based Design and Operation of Large Maritime Engineering Systems in the Era of Decarbonisation and Digitalisation

Jin Wang, PhD, Professor

Director of Liverpool Logistics, Offshore and Marine Research
Institute at Liverpool John Moores University
Fellow of the European Academy of Sciences and Arts
Fellow of the European Academy of Sciences

Abstract: The maritime sector is undergoing a profound transformation driven by the twin imperatives of decarbonisation and digitalisation. Large maritime engineering systems including ships, ports, offshore infrastructures, and integrated logistics networks are becoming increasingly complex as they adopt low-carbon technologies, alternative fuels, green energy generation and data-driven operational frameworks. These developments introduce new forms of uncertainty and risk that challenge traditional engineering design and operational practices. This presentation explores how holistic risk-based design and operation can support the safe, reliable, and efficient transition of large maritime systems in this evolving landscape. The talk will present a systems-oriented perspective that integrates engineering design, operational decision-making, and lifecycle management under a unified risk framework. Particular attention will be given to emerging risks associated with decarbonisation technologies as well as the opportunities and challenges introduced by digitalisation. The presentation will demonstrate how probabilistic risk assessment and decision-making technologies can enhance resilience, safety and sustainability while supporting innovation.

Speaker Bio: Prof. Jin Wang has been Director of Liverpool Logistics, Offshore and Marine (LOOM) Research Institute at Liverpool John Moores University (LJMU) since 2003 and was Associate Dean (Research) in the Faculty of Engineering and Technology at LJMU from 2015 to 2025. His research interests are in design and operation of large maritime engineering systems such as ships and offshore wind, oil and gas installations. He has published extensively in this area, making him among the top 60 in Civil Engineering (including maritime engineering and naval architecture) in terms of publications and citations in the World Ranking of Scientists worldwide annually since 2021. He has led a number of research projects funded by sources such as UK research councils and EU. He has won several awards for his research work including the Outstanding Contribution Award 2025 from the IMarEST and the 2017 RINA - Lloyd's Register Maritime Safety Award for Lifetime Achievement. Prof. Wang has been a sub-panel member (Engineering) in the UK's Research Excellence Framework (REF) 2014, 2021 and 2029, for assessing the quality of research in UK higher education institutions. He was elected to the European Academy of Sciences in 2023 and the European Academy of Sciences and Arts in 2022. He was Chair of the UK-Malaysia University Consortium (UK-MUC) of 16 UK and 20 public Malaysian Universities from 2022 to 2024 and has been a co-chair since 2025.

V

Plenary Speakers





Wessam Abouarghoub

Alfaisal University

Presentation Title:

Geopolitical Conflict and Shipping Freight Signals in Energy Supply Chains

Short bio: Dr. Wessam Abouarghoub is an academic and maritime economics specialist with over 15 years of teaching, research, and industry experience. He previously served for 12 years at Cardiff Business School, Cardiff University, and earlier taught at Bristol Business School, University of the West of England. He holds a master's degree in Shipping, Trade and Finance from Bayes Business School and a PhD in Economics from Bristol Business School. His expertise spans maritime economics, shipping management and finance, international transport, operations management, business analytics, and operations analysis. He has published in high-quality academic outlets including Human Resource Management Journal, International Journal of Production Economics, and the Transportation Research journals, including Parts A, D, and E. He has held academic and examining roles with several international institutions and is the contributing editor for the 2023 Institute of Chartered Shipbrokers textbook "Economics of Sea Transport and International Trade".



Xiwen Bai

Tsinghua University

Presentation Title:

How carbon pricing reallocates emissions in global shipping

Short bio: Xiwen Bai is currently an Associate Professor with the Department of Industrial Engineering, Tsinghua University. She received her Ph.D. degree from Nanyang Technological University. Her main research interests include maritime economics and digital shipping. Her research has been published in leading international journals including Transportation Science and Transportation Research Part series. She serves as the associate editor of MPM.



Mario Brito

University of Southampton

Presentation Title:

From Autonomous Ships to Net-Zero Ports: Managing Risk in the Intelligent Maritime Ecosystem

Short bio: Professor Mario Brito is Chair of Risk Analysis and Risk Management at the University of Southampton, where he has been an academic since 2015. He holds a PhD in Safety-Critical Systems Assurance from the University of Bristol, where he developed decision-support systems for compliance with the IEC 61508-3 software safety standard. Working with colleagues, he developed the Subjective Statistical Survival Estimator, a methodology for assessing the risk of autonomous underwater vehicles (AUVs) operating in extreme environments beneath Antarctic and Arctic ice. This framework supported decision-making for the 2009 Autosub-3 mission beneath the Pine Island Glacier, the longest recorded AUV mission under the Antarctic ice shelf, and the ISE Explorer mission beneath Arctic ice, which covered over 10,000 km. Professor Brito has published extensively in leading international journals and was General Chair of the 33rd European Safety and Reliability Conference (ESREL 2023). He is also Guest Editor of a special issue of Risk Analysis on Human-AI Teaming and Artificial Intelligence in Risk Analysis.



Tsan-Ming Choi (Jason)

University of Liverpool

Presentation Title:

Blockchain Technology for Logistics Operations

Short bio: Professor Jason Choi is currently Chair in Operations and Supply Chain Management, and Director of Centre for Supply Chain Research at University of Liverpool Management School (ULMS). He is serving the profession as the Editor-in-Chief of IEEE Transactions on Engineering Management, Senior Editor of Production and Operations Management, and Advisory Editor (past EIC) of Transportation Research Part E. He is a highly cited researcher by Clarivate (Web of Science). Before joining ULMS a few years ago, he taught at The Chinese University of Hong Kong (CUHK), The Hong Kong Polytechnic University (PolyU) and National Taiwan University (NTU), altogether for over two decades. In particular, he is honoured as a distinguished alumnus of CUHK's Faculty of Engineering, a President's Award Winning Professor at PolyU, and a Yushan Fellow Professor at NTU.



Shiqi Fan

Wuhan University of Technology

Presentation Title:

Human-centred safety for maritime autonomy:
from human reliability to human-AI collaboration

Short bio: Dr Shiqi Fan, a Professor at the School of Transportation and Logistics, Wuhan University of Technology, specialises in maritime human factors and safety. She is one of World's Top 2% Scientists list in 2025, deputy editor of Ocean Engineering journal, and recipient of the 2026 Hubei Youth May Fourth Medal. 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 has led work packages under the European Research Council funded TRUST project and Marie Skłodowska-Curie actions ENHANCE, focusing on decision-making and human performance in maritime operations through the use of EEG and fNIRS technologies. Dr Fan is a Chartered Engineer (CEng), Chartered Marine Engineer (CMarEng) and member of the Institute of Marine Engineering, Science and Technology (MIMarEST).



Floris Goerlandt

Dalhousie University

Presentation Title:

Area-Based Management for Search and Rescue in the Canadian Arctic

Short bio: Dr. Floris Goerlandt is an Associate Professor in the Department of Industrial Engineering at Dalhousie University and holds the Canada Research Chair in Risk Management and Resource Optimization for Marine Industries. His research focuses on waterway risk management, area-based management of shipping risks, emergency management, and collaborative risk governance. Recent work addresses maritime and aeronautical Search and Rescue, the safety implications of digitalization and autonomy in pilotage operations, and inter-organizational port risk management. He received Dalhousie University's President's Research Excellence Award for Emerging Investigators (2020) and for Research Impact (2024), as well as several best paper awards, many with students under his supervision. He has published about 100 journal articles, 50 conference papers and book chapters, co-edited two books, serves on the board of the Canadian Maritime Shipping Risk Forum, and is an expert member of the Risk Management Working Group of the International Association of Marine Aids to Navigation.



Minho Ha

Incheon National University

Presentation Title:

Do Port Incentives Work? Empirical Evidence from Incheon Port, Korea (2006-2024)

Short bio: Minho Ha is Associate Professor and Vice-Dean of the Graduate School of Northeast Asia Logistics at Incheon National University, Republic of Korea. He holds a PhD in Maritime Logistics from Liverpool John Moores University (UK), an MSc in Maritime Transport from the University of Antwerp (Belgium), an MSc in Shipping Management and a BSc in Shipping Management from Korea Maritime University. His research interests span port performance measurement, port competitiveness, shipping and port economics, and maritime logistics policy. He has published extensively in leading SSCI journals, including Transportation Research Parts A and E, Transport Policy, and Marine Policy. He serves as a reviewer for multiple top-tier journals and as an advisory committee member for Korea's Ministry of Oceans and Fisheries, Incheon Port Authority, and Busan Port Authority. He has participated in over 20 research projects funded by the Korean government, Port Authorities and private industry.



Shenping Hu

Shanghai Maritime University

Presentation Title:

From System Evolution to Intelligent Governance: Progress and Trends of Maritime Traffic Safety Research

Short bio: Dr. Shenping Hu is a Professor and Doctoral Supervisor at Shanghai Maritime University. He currently serves as Executive Director of the China Navigation Education Research Branch, Vice Chairman and Secretary-General of the China Maritime Simulator Teaching Research Association, and Executive Committee Member of the International Maritime Simulator Teachers Association. His main research interests focus on navigation technology, transportation engineering, vehicle operation engineering, and safety science & engineering, with prominent achievements in maritime traffic safety control and risk assessment. He has presided over key projects such as national key R&D program sub-projects and National Natural Science Foundation of China general projects. He has published monographs including Maritime Traffic Risk Assessment Technologies and Methods and Ship Bridge Resource Management, and numerous academic papers. He is a recipient of the Ministry of Transport's "Science and Technology Elite" title and multiple scientific and technological progress awards from national industry associations.



Cagatay Iris

University of Liverpool

Presentation Title:

Maritime and port decarbonisation and data analytics: Insights from academic and industrial projects

Short bio: Dr. Cagatay Iris has been an Associate Professor (Senior Lecturer) in Operations and Supply Chain Management at the University of Liverpool Management School (ULMS), joined the school in August 2019. Prior to joining ULMS, Iris was a postdoctoral researcher in Singapore and Denmark. Dr Iris has research interests in transportation, logistics, energy, shared economy and alternative fuels, particularly focusing on freight transportation, next-generation ports, shipping, hinterlands, urban logistics, ride-hailing, bike-sharing, crowd-shipping, charging, electrification, district heat networks and microgrids. He mostly uses mathematical optimisation and data analytics methods to improve performance of these systems. He has more than 40 journal articles and these papers are published in top-tier journals such as European Journal of Operational Research, Transportation Research Part B, OMEGA, Transportation Research Part E, International Journal of Production Economics, International Journal of Production Research, Transportation Research Part D, Annals of Operations Research, Renewable and Sustainable Energy Reviews, etc. Dr. Iris is a senior editorial board member of Transportation Research Part E: Logistics and Transportation Review with Associate Editor duties, European Journal of Industrial Engineering (EJIE) and Multimodal Transportation. He has participated in projects funded by Innovate UK, EPSRC, ESRC and the Innovation Launchpad Network+.



Pisit Jarumaneeroj

Chulalongkorn University

Presentation Title:

The Container Shipping Network: Connectivity, Evolution, and Sustainability

Short bio: Dr. Pisit Jarumaneeroj is an Associate Professor at the Department of Industrial Engineering and the Secretary of Regional Centre for Manufacturing Systems Engineering (RCMSE), Chulalongkorn University, Thailand. Dr. Jarumaneeroj received his Ph.D. in Supply Chain Engineering from Georgia Institute of Technology in 2014. His areas of expertise include not only the applications of optimization in Logistics and Supply Chain Management but also the analysis of complicated transportation networks, such as the container shipping ones.



Christos Kontovas

Liverpool John Moores University

Presentation Title:

Air Emissions from Shipping: Navigating the Trade-Off Between Climate Change Mitigation and Air Quality Improvement, and the future towards Decarbonisation

Short bio: Christos Kontovas is Reader in Sustainable Maritime Transportation and Logistics at the School of Engineering, Liverpool John Moores University (LJMU). Dr. Kontovas holds a Diploma (2005) in Naval Architecture and Marine Engineering and a Ph.D. (2011) in the area of maritime safety and environmental protection, both from the National Technical University of Athens, Greece. His research focuses on quantitative methods, including cost-benefit, decision and risk analysis, related to health, safety and environmental protection (mainly on ship air emissions). Christos holds an extensive experience from participation in several large-scale EU projects as well from being a member of various delegations to the International Maritime Organization (IMO).



Tomaž Kramberger

University of Maribor

Presentation Title:

The Strategic Evolution of Logistics: Navigating Global Interdependence, Geopolitical Risks, and Digital Transformation

Short bio: Prof. Dr. Tomaž Kramberger is a distinguished Slovenian expert and Full Professor of Quantitative Modeling in Logistics. He earned his PhD in Computer Science from the University of Maribor, and his research successfully integrates operational research, graph theory, and the optimization of transport and supply chains. He gained his international experience as a visiting researcher in the past at prestigious institutions such as the National University of Singapore and George Mason University in Washington (USA), and is currently actively participating in research at Ningbo University (NBU) in China. He remains active in leading professional associations, including the Slovenian Logistics Association (SLZ). His academic journey reached a milestone in April 2025, when he assumed a four-year mandate as the Dean of the Faculty of Logistics at the University of Maribor, based in Celje. As Dean, he champions digitalization, sustainable development, closer cooperation with the economy, and the establishment of a modern logistics center of excellence. Through his global research and leadership, Professor Kramberger significantly shapes the future of the logistics profession.



Huanhuan Li

University of Southampton

Presentation Title:

AI-Enabled Knowledge Discovery and Situational Awareness: Towards Intelligent and Autonomous Maritime Navigation

Short bio: Dr Huanhuan Li is an Assistant Professor at the University of Southampton, UK. She received her PhD degrees from Wuhan University of Technology, China, and Liverpool John Moores University, UK. Her research focuses on AI-enabled intelligent transportation and autonomous systems, with particular interests in maritime situational awareness, autonomous ship navigation, maritime risk assessment, maritime safety, and green shipping. Dr Li has contributed to several prestigious international and UK-funded research projects supported by organisations including the European Research Council (ERC), the Royal Society, and Innovate UK. She has published nearly 80 SCI/SSCI-indexed journal papers, including seven ESI Highly Cited Papers, in leading journals in maritime engineering, transportation, and artificial intelligence. She received the Vice-Chancellor's Research Award for Rising Star at Liverpool John Moores University and the Dean's Award at the University of Southampton. She has also been recognised among Stanford University's World's Top 2% Scientists. Dr Li serves as Deputy Editor of Ocean Engineering and Associate Editor of the International Journal of Shipping and Transport Logistics. She has also organised and chaired numerous international conferences, workshops, and seminars, promoting interdisciplinary collaboration in maritime autonomy, intelligent transportation, and AI-driven engineering systems.



Kezhong Liu

Wuhan University of Technology

Presentation Title:

Multi-Scale collision risk evaluation and control for maritime traffic in complex waters

Short bio: Kezhong Liu is currently a Professor with the School of Navigation at WUT. His research focuses on intelligent ship navigation, data mining for maritime traffic, and integrated information perception technologies. He has led and participated in multiple national and provincial research projects, including key projects of the National Natural Science Foundation of China. He has published over 80 papers in high-impact journals, authored two academic monographs, and holds more than 40 national invention patents. His work has contributed to several industry standards, and he has received multiple provincial and ministerial-level science and technology awards. He was also listed among the world's top 2% scientists by Stanford University.



Yiliu Liu

Norwegian University of Science and Technology

Presentation Title:

Resilience enhancer: Conceptualization and evaluation

Short bio: Yiliu Liu is a Professor at the Department of Mechanical and Industrial Engineering, Norwegian University of Science and Technology (NTNU). His main research interests include system reliability and resilience, safety-critical system and safety barrier analysis, and risk-informed decision-making etc. The applications of his research are mainly within the energy and transportation sectors. He has published more than 200 papers on international journals and conferences. Currently, Prof. Liu is a member of Norwegian Academy of Technical Science (NTVA), the co-chair of Sweden-Norway joint section of IEEE Reliability Society, the editor-in-chief for International Journal of Reliability and Safety, the leader of NTNU NATECH (natural-hazard triggered technical accident) thematic research group, and the director of International RAMS (reliability, availability, maintainability, and safety) master program at NTNU.



Wengang Mao

Chalmers University of Technology

Presentation Title:

GraphRAG-Enhanced LLM Framework for Navigation Risk Assessment of Alternative-Fuel Ships under Complex Maritime Operating Conditions

Short bio: Wengang Mao is Professor of Maritime Digitalization and AI at Chalmers University of Technology, Sweden. He holds an MSc in Naval Architecture and a PhD in Mathematical Statistics, providing a strong interdisciplinary foundation across physical modeling, data analytics, and uncertainty quantification. His research focuses on maritime decarbonization through reliable ship performance assessment and data driven operational decision support. He integrates hydrodynamic modeling, machine learning, and full scale onboard and environmental data to enable fuel and emissions reduction, regulatory compliance, and condition based maintenance. He collaborates closely with industry and maritime authorities to translate research into deployable solutions. He serves as Deputy and Associate Editor for leading maritime journals and is Chair of the Offshore Renewable Energy Committee of the ISSC.



Adolf K.Y. NG

Beijing Normal-Hong Kong Baptist University

Presentation Title:

A Study on Disaster-Related Resilience Strategies along the Container Transportation Journey

Short bio: Prof. Adolf NG received DPhil from University of Oxford, UK. He had teaching experience in Canada, Hong Kong, and the Netherlands. He excels in the research and teaching of transport economics, climate change adaptation planning, infrastructure planning and management, institutional and organizational change, supply chain resilience, and intelligent supply chain analytics. His works are highly influential, for instance, with a recent scholarly study identifying him as one of the world's Top-5 scholars in maritime research, and has been on Elsevier's List of Top 2% Scientists worldwide. He has served as a Council Member of the International Association of Maritime Economists (IAME), as well as an Editor of leading academic journals in transport and maritime research, namely Transportation Research Part D: Transport and Environment, Maritime Policy & Management and The Asian Journal of Shipping and Logistics. He is the Founding Director of International Centre for Resilient Supply Chains in Beijing Normal-Hong Kong Baptist University.



Tahsin Tezdogan

University of Southampton

Presentation Title:

High-Fidelity CFD for Wind-Assisted Ships:
Digital Tools for Maritime Decarbonisation

Short bio: Prof. Tahsin Tezdogan is Professor of Marine Hydrodynamics in the Department of Civil, Maritime and Environmental Engineering at the University of Southampton, where he also serves as Director of MSc Admissions and Strategy in the School of Engineering. His research focuses on advanced CFD simulations of ship hydrodynamics, vessel efficiency, and sustainable maritime technologies. He is Co-Editor-in-Chief of Ocean Engineering (Elsevier) and a Fellow of the Institute of Marine Engineering, Science & Technology (IMarEST). He has contributed to major international committees including International Towing Tank Conference (ITTC) and the UK Shipbuilding Skills Taskforce (UKSST).



Nikola Vladimir

University of Zagreb

Presentation Title:

Can e-fuels realistically decarbonize the shipping sector?
Lessons from system-level assessment and vessel case studies

Short bio: Dr. Nikola Vladimir is a Full Professor and Head of the Chair of Marine Engineering at the Faculty of Mechanical Engineering and Naval Architecture, University of Zagreb (UNIZAG FSB), Croatia. His research focuses on energy efficiency, environmental sustainability and decarbonisation of ships and other floating structures, ship power systems, and the design and operation of specialised vessels such as fishing vessels and inland waterway vessels. His work also includes life cycle assessment and costing (LCA/LCCA), aquaculture technologies, fluid-structure interaction, and structural analyses of marine structures. He has extensive experience in international and national competitive research projects funded through programmes such as EU FP7, Horizon Europe, Interreg (ADRION, Euro-MED, Danube), the European Maritime and Fisheries Fund (EMFF), the European Regional Development Fund (ERDF), the European Social Fund (ESF), the Croatian Science Foundation, and bilateral Croatian-Chinese cooperation programmes. He has authored or co-authored more than 300 scientific publications in international journals and conference proceedings.



Chengpeng Wan

Wuhan University of Technology

Presentation Title:

Data-driven assessment of maritime traffic complexity in narrow channels: A dynamic multi-scale framework

Short bio: Chengpeng Wan is Professor with the Wuhan University of Technology, and Deputy Director of the International Science and Technology Cooperation Base for Smart Shipping and Maritime Safety (SSMS), China. He holds two PhD degrees, with one in Transport Engineering from Wuhan University of Technology (China), and another in Maritime Technology from Liverpool John Moores University (UK). His major research interests include Waterway Traffic Safety Management and Control, Applications of Big Data Analytics in the Shipping Industry, and Resilience Management of Maritime Systems. He has authored 4 book chapters and over 70 refereed journal papers, and held about twenty Chinese patents. He is funded by the Young Talents Support Project of China Association for Science and Technology. He serves as Secretary of the Safety and Emergency Management Division of The 3rd WTC Academic Sub-Committee.



Xinjian Wang

Dalian Maritime University

Presentation Title:

Enhance the safety of human evacuation from passenger ships

Short bio: Dr. Xinjian Wang is an Associate Professor at the Navigation College of Dalian Maritime University. His primary research focuses on human evacuation from passenger ships and ship navigation risk assessment. Dr. Wang has secured and led two projects funded by the National Natural Science Foundation of China. He has authored or co-authored more than 60 research papers, with 36 of these as first author or corresponding author, published in leading SCI/SSCI-indexed journals and prominent Chinese academic publications, such as Reliability Engineering & System Safety, Transportation Research Part A/C/E, Safety Science, Ocean Engineering. Among these, 7 papers are recognized as ESI Highly Cited Papers and 2 as ESI Hot Papers. Dr. Wang serves as an editorial board member for the Journal of Marine Engineering and Technology (JCR Q1) and as a youth editorial board member for the Journal of Jimei University (Natural Science Edition) and Maritime Education Research.



Yuhong Wang

Ningbo University

Presentation Title:

Unlocking Hidden Capacity in Intermodal Rail:
Integrating Loaded and Empty Container Flows

Short bio: Dr Yuhong Wang is a Professor in Maritime Transport at the Faculty of Maritime and Transportation, Ningbo University. He obtained his doctoral degree from the University of Newcastle and previously worked at Edinburgh Napier University for seven years before joining Ningbo University in 2017. His research focuses on maritime transport and economics, with particular interests in liner shipping and container supply chains. Dr Wang also serves as the Representative of the Institute of Marine Engineering, Science and Technology (IMarEST) in China.



Zhongzhen Yang

Ningbo University

Presentation Title:

Joint optimization of fleet composition and catch pick-up scheduling in distance-water fisheries under catch uncertainty: a two-stage risk-averse model

Short bio: YANG Zhongzhen, Professor and Doctoral Supervisor, Ningbo University. A member of the Sixth and Seventh Discipline Review Group of the State Council of China, a member of the Steering Committee for Teaching of Transportation Engineering of China's Ministry of Education, an associate editor of Transport Policy, and an editorial board member of Maritime Economics & Logistics. He is one of the top 2% lifetime influential scientists in the world, and an external director of Zhejiang Port Group. He is mainly engaged in the research of port and shipping logistics management and engineering, integrated transport system optimization, regional logistics network design, urban logistics, land use and traffic modeling. He has presided over six National Natural Science Foundation of China projects (two key programs, four general programs), two doctoral projects of China's Ministry of Education, and one humanities and social science project of China's Ministry of Education.



Kum Fai Yuen

Nanyang Technological University

Presentation Title:

Safety 4.0: Advancing AI-Driven Ship Safety Management through Behavioural and Data-Driven Approaches

Short bio: Kum Fai Yuen is an Associate Professor at the School of Civil and Environmental Engineering, Nanyang Technological University, Singapore. He is also Co-Director of the Maritime Energy and Sustainable Development Centre of Excellence. His research lies at the intersection of maritime economics, behavioural science, and artificial intelligence. He has published extensively in leading journals and is recognised among the world's top 2% scientists by Stanford University. He serves as Associate Editor for Maritime Economics & Logistics and Maritime Policy & Management, widely regarded as two flagship journals in the maritime field. He currently leads several funded research projects, including the Safety 4.0 initiative, which develops AI-driven solutions for ship safety management.



Xinyu Zhang

Dalian Maritime University

Presentation Title:

Promoting Green Shipping Transformation: Innovative Models for Waterborne Transport Organization and Operations

Short bio: Zhang Xinyu is a Professor and Doctoral Supervisor at Dalian Maritime University. He graduated from Jilin University, completed postdoctoral research in Hydraulic Engineering at Dalian University of Technology, and was a visiting scholar at University College London (UCL), UK. He is recognized as a Leading Talent by the Ministry of Transport of China, a Fellow of the China Institute of Navigation, a contracted researcher of the China Shipping 50 Forum, and a specially appointed researcher of the China Maritime Think Tank.

His research primarily focuses on AI-driven vessel traffic organization optimization, autonomous ship navigation decision-making, and maritime big data-enabled decision support. He has led or participated in more than 10 national-level projects, including key special programs of the Ministry of Science and Technology and National Natural Science Foundation projects, and has led over 60 provincial/ministerial projects and industry-commissioned projects from shipping enterprises and institutions. He has published over 100 academic papers, including 8 ESI Highly Cited Papers, and 54 papers in JCR Q1 Top journals such as TRE, ESWA, EAAI, and OE. He holds more than 40 authorized invention patents and over 30 software copyrights. To date, he has supervised more than 70 master's and doctoral students. He was named to the World's Top 2% Scientists list.

VI

Programme Information



A. Conference Topics

- AI and machine learning for maritime operations
- Digital twins for ports, vessels, and logistics chains
- Big data analytics for shipping and logistics organisation
- Maritime Internet of Things (IoT) and edge computing applications
- Maritime Autonomous Surface Ships (MASS): design, testing, and validation
- Remote Operation Centres (ROC) and human-machine teaming
- Maritime Safety, Risk, and Resilience
- Maritime accident analysis and human reliability
- Climate-related risks, adaptation, and resilience of maritime infrastructures
- Decarbonisation pathways and clean propulsion technologies
- Green port operations and sustainable logistics corridors
- Alternative fuels (hydrogen, ammonia, methanol, etc.)

1st ICMTI 2026 & 4th TSCRDT Conference	
Associated Event on Supply Chain Resilience and Sustainability	
Date:	26th August 2026 (Wednesday)
Venue:	BNBU London Center
Address:	7 Storey's Gate, London, SW1P 3AT, UK
Time	Activity
9:00	Registration
9:30	Welcome Remarks Professor Adolf K.Y. NG, Co-Chair of the Conference Committee, Director of the BNBU London Center, Beijing Normal-Hong Kong Baptist University, China
9:45	Presentation 1 Topic: Capturing Dynamic Spillover Effects between Green Economy and Dry Bulk Shipping Market Speaker: Professor Ying-En (Ethan) GE, Chang'an University, Xi'an, China
10:00	Presentation 2 Topic: Emerging Arctic Shipping Routes, Arctic Geopolitics, and the Transformation of Chinese Port Connectivity Speaker: Dr. Mark POO, Liverpool Hope University, UK
10:15	Break
10:30	Presentation 3 Topic: Container Supply Chain Resilience to Disasters: Evidence from a Systematic Review Speaker: Professor Naima SAEED, The University of Agder, Norway
10:45	Presentation 4 Topic: Navigating the AI Wave in Maritime Transport and Innovation: a systematic review Speaker: Professor Kevin X. LI, Zhejiang University, China
11:00	Presentation 5 Topic: Publishing in Transportation Research Part D's "Disasters and Resilience" Section Speaker: Professor Adolf K.Y. NG, Beijing Normal-Hong Kong Baptist University, China
11:15	Presentation 6 Topic: Supply Chain Resilience and Sustainability Speaker: Mr. Nigel QUINN, Chief Executive Officer, Bibby Marine Limited, UK
11:30	Round-Table Discussion Topic: Setting up an Agenda on the Future Research of Maritime and Supply Chain Resilience Discussants: - Professor Adolf K.Y. NG - Professor Ying-En (Ethan) GE - Dr. Mark POO - Professor Naima SAEED - Professor Kevin X. LI - Mr. Nigel QUINN
12:15	End of the Workshop
12:30	Networking Lunch

B. Schedule at a Glance

Registration 18:00 - 21:00, 26th August 2026
Thursday, 27 August 2026
Registration (07:30 - 09:00) | Venue: Delta Hotel Liverpool L1 1RH

Opening session (09:00-09:20) Room: Merchant Suite

Chair: Min Xie

Keynote Speech 1: Xiping Yan (09:20 - 10:00)

Development of Next-Generation Shipping Systems and Reflections
on Future Innovation Directions

Keynote Speech 2: Carlos Guedes Soares (10:00-10:40)

Evolution towards green and intelligent ships

Keynote Speech 3: Danielle Lane (10:40 – 11:20)

The Offshore Wind Paradox: Success Has Made It Harder work?

Coffee Break & Group Photo (11:20-11:50)

11:50 – 13:00

Merchant Suite	Hornby Suite	Lever Suite	Walker Suite
Special Session 1.1 CDT Session	Special Session 2.1 Maritime Safety Management	Special Session 3.1 MaLaMi	Session 4.1

Lunch (13:00 - 14:00)

14:00 – 15:30

Merchant Suite	Hornby Suite	Lever Suite	Walker Suite	Tate Suite
Special Session 1.2 CDT Session	Special Session 2.2 Maritime Safety Management	Session 3.2	Session 4.2	Session 5.2

Coffee break (15:30 – 16:00)

16:00 – 17:30

Merchant Suite	Hornby Suite	Lever Suite	Walker Suite	Tate Suite
Special Session 1.3 CDT Session	Session 2.3	Session 3.3	Special Session 4.3 LOOM Alumni Reunion	Session 5.3

Gala dinner (18:30 - 21:30) The Liner Hotel, address: Lord Nelson St, Liverpool L3 5QB



Friday, 28 August 2026
Venue: Delta Hotel Liverpool L1 1RH

Chair: Carlos Guedes Soares | Room: Merchant Suite

Keynote Speech 4: Tony Graham (09:00 - 09:40)

“Eight Ways of Looking” to boost Maritime Innovation

Keynote Speech 5: Min Xie (09:40 - 10:20)

Safety and Reliability of Intelligent and Autonomous Systems –
some challenges and research issues

Concluding Keynote Address: Jin Wang (10:20 – 11:00)

Holistic Risk-based Design and Operation of Large Maritime Engineering
Systems in the Era of Decarbonisation and Digitalisation

Coffee break (11:00-11:30)

11:30 – 13:00

Merchant Suite	Hornby Suite	Lever Suite	Walker Suite	Tate Suite
Session 1.4	Special Session 2.4 Maritime Safety Management	Session 3.4	Session 4.4	Session 5.4

Lunch (13:00 - 14:00)

14:00 – 15:10

Merchant Suite	Hornby Suite	Lever Suite	Walker Suite	Tate Suite
Session 1.5	Session 2.5	Session 3.5	Session 4.5	Session 5.5

Coffee break (15:10 – 15:30)

15:30 – 16:40

Merchant Suite	Hornby Suite	Lever Suite	Walker Suite	Tate Suite
Session 1.6	Session 2.6	Session 3.6	Session 4.6	Session 5.6

Closing Ceremony (16:40 – 17:00) | Chair: Jin Wang

C. Detailed Timetable

Thursday, 27/08/2026	Friday, 28/08/2026
11:50-13:00	11:30-13:00
NOMES CDT Annual Conference Special Session 1.1, Room: Merchant Suite	Maritime Network Analytics and Navigation Systems Session 1.4, Room: Merchant Suite
Maritime Safety Management Special Session 2.1, Room: Hornby Suite	Maritime Safety Management Special Session 2.4, Room: Hornby Suite
MaLaMi Special Session 3.1, Room: Lever Suite	AI for Maritime Traffic Analytics Session 3.4, Room: Lever Suite
Shipping network resilience Session 4.1, Room: Walker Suite	Advances in Maritime Safety and Risk Management Session 4.4, Room: Walker Suite
	Emerging Technologies for Sustainable Maritime Systems Session 5.4, Room: Tate Suite
14:00-15:30	14:00-15:10
NOMES CDT Annual Conference Special Session 1.2, Room: Merchant Suite	Energy Transition for Maritime Decarbonisation Session 1.5, Room: Merchant Suite
Maritime Safety Management Special Session 2.2, Room: Hornby Suite	Maritime Safety Management Special Session 2.5, Room: Hornby Suite
Digital Technology for Smart Port Session 3.2, Room: Lever Suite	Intermodal and Container Logistics Operations Session 3.5, Room: Lever Suite
Maritime Policy, Operations and Decision-making Session 4.2, Room: Walker Suite	Alternative Fuel Session 4.5, Room: Walker Suite
Risk, Resilience and Decision Intelligence in Complex Systems Session 5.2, Room: Tate Suite	Logistics Strategy, Geopolitical Risk Session 5.5, Room: Tate Suite
16:00-17:30	15:30-16:40
NOMES CDT Annual Conference Special Session 1.3, Room: Merchant Suite	Risk in the Intelligent Maritime Ecosystem Session 1.6, Room: Merchant Suite
Carbon Pricing and Decarbonisation Shipping Session 2.3, Room: Hornby Suite	Intelligent Maritime Operations and Autonomous Systems Session 2.6, Room: Hornby Suite
Resilient Container Shipping and Port Operations Session 3.3, Room: Lever Suite	Reliable Autonomous Maritime Operations Session 3.6, Room: Lever Suite
LOOM Alumni Reunion Special Session 4.3, Room: Walker Suite	Human-centred safety for maritime autonomy Session 4.6, Room: Walker Suite
Green Shipping Session 5.3, Room: Tate Suite	Passenger Ship Safety and Emergency Response Session 5.6, Room: Tate Suite



ICMTI 2026 Conference Programme

THURSDAY 27/08/2026

11:50 – 13:00 | Merchant Suite

Special Session 1.1: N0MES CDT Annual Conference

Chair: John Bridgeman

Ahmed Balata - Towards Net-Zero Shipbuilding: Quantification of GHG Emissions from Construction and Maintenance Phases

Arslan Amin - AI-Based Detection and Attribution of Urban Air Pollution Sources in Port Cities

Boyuan Zhang - A Two-Stage Ship Route Extraction Method for Structured Waterways

Danah Albuhairi - Impact of flood hazard uncertainty on civil infrastructure vulnerability

Dat Nguyen - Optimising the Annual Delivery Program for Liquefied Natural Gas with Fair Customer Satisfaction

Hruthik Vandanapu - Binder Jet Printed 316L for Porous Transport Layer Applications in Seawater Electrolysis

11:50 – 13:00 | Hornby Suite

Special Session 2.1: Application of Advanced Technologies in Maritime Safety Management

Chair: Tahsin Tezdogan, Lei Yang

High-Fidelity CFD for Wind-Assisted Ships: Digital Tools for Maritime Decarbonisation

Plenary Speaker: Tahsin Tezdogan, University of Southampton

Development Status and Future Trends of Large Language Model-Driven Fault Diagnosis Methods for Mechanical Equipment

Authors: Wenfeng Gong; Jitao Lyu; Meiling Zhang; Chenxing Sheng; Yi Gu; Shuai Sun (Paper ID - 11)

Green Shipping Corridors Development for Maritime Decarbonisation: A Systematic Literature Review

Authors: Xinyuan Li, Qing Liu, Ruikai Sun, Zaili Yang (Paper ID - 71)

11:50 – 13:00 | Lever Suite

Special Session 3.1: Maritime and Last Mile Net Zero Accelerator - MaLaMi

Chair: Andy King

11:50-11:55 Welcome and introduction to MaLaMi

11:55-12:35 Part 1: MaLaMi Awardee Project Showcase and Experience Sharing

12:35-12:55 Part 2: Expert Panel Discussion – Delivering Net Zero in the Liverpool City Region

12:55-13:00 Closing reflections and next step

11:50 – 13:00 | Walker Suite

Session 4.1: Shipping network resilience

Chair: Yiliu Liu

Resilience enhancer: Conceptualization and evaluation

Plenary Speaker: Yiliu Liu, Norwegian University of Science and Technology

Evaluating the Resilience of Liner Shipping Networks from a Port Redundancy Perspective

Authors: Jiale Tao; Di Zhang; Chen Chen; Chengpeng Wan (Paper ID - 35)

Modelling Correlated Failures and Maintenance Actions in Offshore Wind Farms: A Two-Stage Predictive Framework

Authors: Hongxu Ye; Huanhuan Li; Alan J Murphy; Jin Wang (Paper ID - 89)

14:00 – 15:30 | Merchant Suite

Special Session 1.2: N0MES CDT Annual Conference

Chair: John Bridgeman

Jiale - Structuring Remote Human Intervention in Autonomous Ship Operation - An Event Sequence Diagram Approach

Nazmus - Multi-Step Maritime Trajectory Prediction in Port and Congested Waters Using AIS Data and Deep Sequence Learning

Sai - Making the invisible visible: a Study on Indoor Air Quality in Wirral

Stevie - A Semi-Empirical Framework for Rapid Climate Risk Prioritisation of Coastal Railways

Tegan - Analysis of drowned gravel barriers on the English Channel seabed to assess the vulnerability of coastal energy infrastructure to sea-level rise

Yanchi - A Two-Phase ISPH Model for Simulating Cohesive Sediment Flocculation under Wave Action: Towards Offshore Wind Decommissioning Applications

Yuchen - Investigating the Drivers and Mechanisms of Historical Multi-Hazards in Northeast England Using Observational Data

14:00 – 15:30 | Hornby Suite

Special Session 2.2: Application of Advanced Technologies in Maritime Safety Management

Chair: Kum Fai Yuen, Abdul Khaliq

Safety 4.0: Advancing AI-Driven Ship Safety Management through Behavioural and Data-Driven Approaches

Plenary Speaker: Kum Fai Yuen, Nanyang Technological University

Remote Lookout: Screen-Based Watchkeeping, Situational Awareness, and Workload in Remote Operation Centre Operators

Authors: Abdul Khaliq; Alan Bury; Chia-Hsun Chang (Paper ID - 50)

Digital Maritime Reporting Systems: Risk and Resilience Implications of the NEMO System

Authors: Miiko Laine (Paper ID - 32)

Integration of a System Identification-Based Ship Manoeuvring Model with Autonomous Path-Following Control

Authors: Cihad Celik; Huanhuan Li; Lu Zou; Musa Bashir; Zaili Yang (Paper ID - 74)

14:00 – 15:30 | Lever Suite

Session 3.2: Digital Technology for Smart Port

Chair: Tsan-Ming Choi, Cagatay Iris

Blockchain Technology for Logistics Operations

Plenary Speaker: Tsan-Ming Choi, University of Liverpool

Assessing Cybersecurity Resilience in Digital Ports: A Bayesian Network–FAIR Integrated Framework

Authors: Xibing Liu; Kum Fai Yuen; Yusheng Zhou (Paper ID - 7)

Unlocking Maritime Data Value Through Trust: Lessons Learned from a Maritime Use Case

Authors: Shuai Wang; Nikita Karandikar; Knut Erik Knutsen (Paper ID - 21)

Digital Twin Applications in Port Energy Management: A Systematic Review and Bibliometric Analysis

Authors: Shuo Dang; Cagatay Iris; Dongping Song (Paper ID - 82)

14:00 – 15:30 | Walker Suite

Session 4.2: Maritime Policy, Operations and Decision-Making

Chair: Minh Ha, Gokhan Camliyurt

Do Port Incentives Work? Empirical Evidence from Incheon Port, Korea (2006–2024)

Plenary Speaker: Minh Ha, Incheon National University

Model of maritime traffic flow in the approaching waterways

Authors: Vlado Frančić; Marko Strabić; Igor Rudan (Paper ID - 31)

Initial-Action Envelope for Pilot Man-Overboard Response: Stern-Clearance Time and Heading Change

Authors: Gokhan Camliyurt (Paper ID - 72)

The Role of Maritime Economics and Maritime Law in Data-Driven Leadership: A Comparative Analysis of Traditional and Autonomous Shipping Companies

Authors: Peter Sandell (Paper ID - 48)

14:00 – 15:30 | Tate Suite

Session 5.2: Risk, Resilience and Decision Intelligence in Complex Systems

Chair: Massoud Mohsendokhtamlashi, Mark Ching-Pong Poo

Multi-Scale collision risk evaluation and control for maritime traffic in complex waters

Plenary Speaker: Kezhong Liu, Wuhan University of Technology

Assessing Railway Infrastructure Resilience to Extreme Weather Events Using a Fuzzy Rule-Based Bayesian Network

Authors: Leila Kamalian; Mark Ching-Pong Poo; Zaili Yang (Paper ID - 83)

Quantifying Food Supply Chain Resilience of Import-dependent National Using Bayesian Networks: Insights from Singapore

Authors: Nanxi Wang (Paper ID - 46)

COLREG Decision Complexity Metrics for Autonomous Navigation

Authors: Luman Zhao; Tom Arne Pedersen; Fan Wu; Minos Hemrich; Andreas Hafver (Paper ID - 56)

16:00 – 17:30 | Merchant Suite

Special Session 1.3: N0MES CDT Annual Conference

Chair: John Bridgeman

Poster Presentation Panel (via PowerPoint) Hosted by AP

Cohort 2 researchers x 14 (x 3 mins each, 2 mins for questions)

16:00 – 17:30 | Hornby Suite

Session 2.3: Carbon Pricing and Decarbonisation Shipping

Chair: Xiwen Bai, Xingjian Wang

How carbon pricing reallocates emissions in global shipping

Plenary Speaker: Xiwen Bai, Tsinghua University

The Impact of Different Market-Based Measures on Shipping Firms' Emission Reduction Decisions

Authors: Ziyu Liu; Yi Xiao; Adolf Ng (Paper ID - 15)

Challenges In Identifying Biofouling-Induced Ship Performance Loss from Real Operational Data

Authors: Yuhao Chen; Refik Özyurt; Gang Chen (Paper ID - 49)

Estimating CO2 and CO2-equivalent Emissions from Cruise Ships at Berth: The Case of Galataport Istanbul

Authors: Selma Ergin, Maria Acanfora, Luigia Mocerino and Gülmira Pinar Temren (Paper ID - 63)

16:00 – 17:30 | Lever Suite

Session 3.3: Resilient Container Shipping and Port Operations

Chair: Adolf Ng, Lei Cai

A Study on Disaster-Related Resilience Strategies along the Container Transportation Journey

Plenary Speaker: Adolf Ng, Beijing Normal-Hong Kong Baptist University

Port Service Route Recovery in the Global Container Shipping Network

Authors: Yuhao Cao; Zaili Yang (Paper ID - 75)

A resilience-based multi-objective decision-making framework for opportunistic maintenance in container terminals

Authors: Jinglin Zhang; Xuri Xin; Zaili Yang (Paper ID – 73)

Resilience-based Port Integrated Scheduling Incorporating Uncertain Equipment Failure, Operations and Maintenance Time

Authors: Lei Cai; Wenfeng Li; Huanhuan Li; Bo Zhou; Zaili Yang (Paper ID - 5)

16:00 – 17:30 | Walker Suite

Special Session 4.3: LOOM alumni - Maritime safety and risk management

Chair: Christos Kontovas, Siming Fang

Air Emissions from Shipping: Navigating the Trade-Off Between Climate Change Mitigation and Air Quality Improvement, and the future towards Decarbonisation

Plenary Speaker: Christos Kontovas, Liverpool John Moores University

So it's all about making money: A Critical Review of Higher Level Authorities and Their Perceptions on the Reporting Culture within the Realms of Maritime industry

Authors: Eskil Kjemperud; Leif-Inge Magnussen; Bikram Singh Bhatia (Paper ID - 25)

Multi-objective dynamic route planning and speed optimisation for ships under typhoon conditions

Authors: Siming Fang; Zunyuan Wang; Guoquan Chen; (Paper ID - 45)

From Prediction to Interpretation: An Ensemble Learning Method for Ship Fuel Consumption Analysis

Authors: Xinjian Wang; Feizhuoqi Gao; Wenbo Liu; Wenjie Cao; Zhongyuan Liu (Paper ID - 54)

16:00 – 17:30 | Tate Suite

Session 5.3: Green Shipping Corridors for Sustainable Maritime Transport

Chair: Xinyu Zhang, Hanwen Fan

Promoting Green Shipping Transformation: Innovative Models for Waterborne Transport Organization and Operations

Plenary Speaker: Xinyu Zhang, Dalian Maritime University

Ship target detection based on remote sensing images: advancing maritime transportation monitoring through multimodal data fusion

Authors: Miao Xu, Kaige Zhu, Zaili Yang and Yaqing Shu (Paper ID - 91)

Maritime decarbonisation and resilience: A research agenda for green shipping corridors

Authors: Ching Pong Poo; Yui-Yip Lau; Tianni Wang (Paper ID - 3)

Feasibility assessment of green shipping corridors: An evidential reasoning-based framework

Authors: Hanwen Fan; Zaili Yang (Paper ID - 79)

FRIDAY 28/08/2026

11:30-13:00 | Merchant Suite

Session 1.4: Maritime Network Analytics and Navigation Systems

Chair: Pisit Jarumaneeroj, Shanshan Fu

The Container Shipping Network: Connectivity, Evolution, and Sustainability

Plenary Speaker: Pisit Jarumaneeroj, Chulalongkorn University

Multi-Dimensional Port Risk Assessment in an Emerging Economy: Evidence from a National Survey of the Brazilian Port System

Authors: Cassia Galvao; Tadeu Gomes Teixeira; Sergio Cutrim; Leo Tadeu Robles; Felipe Scarpelli; Carlos Albuquerque; Darliane Ribeiro Cunha; Susanne Ferreira Cutrim (Paper ID - 81)

A Spatio-temporal analysis framework for ice navigation using AIS and Metocean data: a case study of Arctic LNG transportation

Authors: Ningji Wu; Shanshan Fu (Paper ID - 40)

A Lightweight Construction Method for Maritime Route Grids Based on an Improved Adaptive SOM Model

Authors: Min Wang; Hao Rong; Ruikai Sun; Zaili Yang (Paper ID - 78)

11:30-13:00 | Hornby Suite

Special Session 2.4: Application of Advanced Technologies in Maritime Safety Management

Chair: Cagatay Iris, Mateusz Gil

Maritime and port decarbonisation and data analytics: Insights from academic and industrial projects

Plenary Speaker: Cagatay Iris, University of Liverpool

A three-layer approach to strategic risk assessment in maritime transportation

Authors: Mateusz Gil; Przemysław Krata; Olga Kazimierska; Jacek Pietraszkiewicz; Yigit Can Altan; Jakub Montewka (Paper ID - 53)

Rapid prediction of ship fire scenarios using a GAN-based data-driven model

Authors: Yiquan Yuan; Bing Li; Ziyu Song; Xinjian Wang (Paper ID - 58)

Evacuation time prediction of passenger ships based on feature selection

Authors: Huanxin Wang; Tianyi Li; Yantong Jiang; Xinjian Wang (Paper ID - 64)

11:30-13:00 | Lever Suite

Session 3.4: AI for Maritime Traffic Analytics

Chair: Huanhuan Li, Jiaxuan Yang

AI-Enabled Knowledge Discovery and Situational Awareness: Towards Intelligent and Autonomous Maritime Navigation

Plenary Speaker: Huanhuan Li, University of Southampton

Type-Aware Predictive Normality Learning for AIS Trajectory Anomaly Detection

Authors: Wensen Yuan; Yukuan Wang; Xiaoran Pan; Jingxian Liu (Paper ID - 8)

Conditional Diffusion for Maritime Multi-Vessel Encounter Scenario Generation

Authors: Yanting Tong; Kezhong Liu; Xuri Xin; Xiaolie Wu; Jingyao Wang (Paper ID - 19)

Analysing Port Congestion Based on Vessel Stay Behaviour Recognition

Authors: Jingxuan Wei; Jiaxuan Yang and Yuhao Qi (Paper ID - 26)

11:30-13:00 | Walker Suite

Session 4.4: Advances in Maritime Safety and Risk Management

Chair: Shenping Hu, Rafi Ullah Khan

From System Evolution to Intelligent Governance: Progress and Trends of Maritime Traffic Safety Research

Plenary Speaker: Shenping Hu, Shanghai Maritime University

Simulation Study on Ship Collision Risk at the Crossing Waterway of Port

Authors: Maowen Liu; Tao Liu; Yunlu Hu; Mei Sha; Mingyang Pan; Xingju Li; Zhuang Shao (Paper ID - 37)

Fatigue-Induced Cognitive Drift in Bridge Watchkeepers: A Workload-Window Analysis of Decision Latency in Near-Miss Reports

Authors: Rafi Ullah Khan; Jingbo Yin; Zaili Yang (Paper ID - 57)

A scenario-driven sensor performance modelling framework for reliable autonomous maritime operations

Authors: Kazi Khaled Mahmud and Zaili Yang (Paper ID - 85)

11:30-13:00 | Tate Suite

Session 5.4: Emerging Technologies for Sustainable Maritime Systems

Chair: Nurul Haqimin Mohd Salleh, Ruoxuan Li

Data-driven assessment of maritime traffic complexity in narrow channels: A dynamic multi-scale framework

Plenary Speaker: Chengpeng Wan, Wuhan University of Technology

Training for Wind-Assisted Ship Propulsion (T-WASP): A Competency Framework and STCW Gap Analysis

Authors: Mehdi Belabyad; Abdul Khaliq; Kamil Kaminski; Benyamin Abdollahzadeh; Martin Harrop (Paper ID - 47)

Numerical Investigation of Crushing-Bending Failure Mode Transition of Ice Wedges with Varying Thickness under Fluid-Structure Interaction

Authors: Ruoxuan Li; Mengyao Xing; Fujian Li; Zhi-Xin Xiong (Paper ID - 16)

Balancing Conflicts between Growth & Development and Protection of Environment in Ship Building and Ship Repair Industry

Authors: Nurul Haqimin Mohd Salleh; Mohamad Danial Farhan Zainuddin; Amira Husna Md Daud; Jagan Jeevan (Paper ID - 52)

14:00-15:10 | Merchant Suite

Session 1.5: Energy Transition Pathways for Maritime Decarbonisation

Chair: Nikola Vladimir, Massoud Mohsendokht

Can e-fuels realistically decarbonize the shipping sector? Lessons from system-level assessment and vessel case studies

Plenary Speaker: Nikola Vladimir, University of Zagreb

Life-Cycle Economic Viability and Carbon Reduction Pathways of Alternative Fuels for Inland Waterway Vessels

Authors: Yulin Wang, Haiyan Wang and Yuhao Song (Paper ID - 34)

Noise Emission from Vibrating Marine Vehicles in a Shallow Water Environment

Authors: Ahmet Ergin, Burak Üstündağ, Bahadır Uğurlu and Sertaç Bulut (Paper ID - 67)

14:00-15:10 | Hornby Suite

Special Session 2.5: Application of Advanced Technologies in Maritime Safety Management

Chair: Wessam Abouarghoub, Ruikai Sun

Geopolitical Conflict and Shipping Freight Signals in Energy Supply Chains

Plenary Speaker: Wessam Abouarghoub, Alfaisal University

A dynamic ship domain-based method for quantifying the traffic flow saturation in restricted waters

Authors: Jiaju Huang; Desheng Cao; Lei Yang; Min Chen; Chengpeng Wan (Paper ID - 30)

Human–Autonomy Teaming in Maritime Unmanned Vehicles: A Socio-Technical Framework for Safe and Resilient Operations

Authors: Nurul Haqimin Mohd Salleh; Jagan Jeevan; Izyan Munirah Mohd Zaideen; Rudiah Md Hanafiah; Amira Husna Md Daud; Abdul Hafaz Ngah (Paper ID - 66)

14:00-15:10 | Lever Suite

Session 3.5: Intermodal and Container Logistics Operations

Chair: Yuhong Wang, Liang Tang

Unlocking Hidden Capacity in Intermodal Rail: Integrating Loaded and Empty Container Flows

Plenary Speaker: Yuhong Wang, Ningbo University

A Two-Stage Ship Route Extraction Method for Structured Waterways

Authors: Boyuan Zhang, Hao Rong and Zaili Yang (Paper ID - 77)

Behaviour-Aware Distributionally Robust Quota Optimisation for Truck Appointment Systems under Uncertain Demand

Authors: Liang Tang; Changhao Wan (Paper ID - 87)

14:00-15:10 | Walker Suite

Session 4.5: Alternative Fuel and Safety in Maritime Systems

Chair: Wengang Mao, Zifei Xu

GraphRAG-Enhanced LLM Framework for Navigation Risk Assessment of Alternative-Fuel Ships under Complex Maritime Operating Conditions

Plenary Speaker: Wengang Mao, Chalmers University of Technology

Digital Fuel Passport: Addressing the Trust Gap in Green Maritime Fuels

Authors: Nikita Karandikar; Fasil Ayelegn Tassew; Shuai Wang; Manuel Guillermo Reta Palacios; Knut Erik Knutsen (Paper ID - 51)

Experimental Study on Bottom-Vented Combustion Behaviour of Ternary Lithium-ion Batteries in Ro-Ro Ship

Authors: Yang Yu; Jinfen Zhang; Zaili Yang; Wendong Su (Paper ID - 61)

14:00-15:10 | Tate Suite

Session 5.5: Logistics Strategy, Geopolitical Risk

Chair: Tomaž Kramberger, Jinglin Zhang

The Strategic Evolution of Logistics: Navigating Global Interdependence, Geopolitical Risks, and Digital Transformation

Plenary Speaker: Tomaž Kramberger, University of Maribor

How Do Markets, Ships, and Prices Co-Evolve? A Data-calibrated Oil Market-vessel Equilibrium Simulation Framework for Global Crude-Oil Shipping

Authors: Sirui Ding; Liangqi Cheng; Xiwen Bai (Paper ID - 60)

Port contracting and capacity reservation for liner carriers under geopolitical disruptions

Authors: Haoyu Zhang; Na Li (Paper ID - 33)

15:30 - 16:40 | Merchant Suite

Session 1.6: Risk in the Intelligent Maritime Ecosystem

Chair: Mario Brito, Alireza Eslami Majd

From Autonomous Ships to Net-Zero Ports: Managing Risk in the Intelligent Maritime Ecosystem

Plenary Speaker: Mario Brito, University of Southampton

Error Propagation and Correction in MASS Team Tasks: A Task Interdependence Analysis Based on the SIR Model

Authors: Juncheng Tao; Zhengjiang Liu; Chia-Hsun Chang; Ying Zhou (Paper ID - 9)

Safety Assurance of Shore-to-Ship Remote Takeover: STPA-BN-Based Risk Modelling for Autonomous Shipping

Authors: Haoran Xu; Min Tu; Jiaqi Yang (Paper ID - 17)

15:30 - 16:40 | Hornby Suite

Session 2.6: Intelligent Maritime Operations and Autonomous Systems

Chair: Zhongzhen Yang, Gokhan Camliyurt

Joint optimization of fleet composition and catch pick-up scheduling in distance-water fisheries under catch uncertainty: a two-stage risk-averse model

Plenary Speaker: Zhongzhen Yang, Ningbo University

Structuring Remote Human Intervention in Autonomous Ship Operation - An Event Sequence Diagram Approach

Authors: Jiale Xiang, Eddie Blanco-Davis, Xuri Xin and Zaili Yang (Paper ID - 69)

Neural Network-Based CLF-CBF-QP Safe Cooperative Control for Unmanned Surface Vehicle

Authors: Mingkai Liu; Xin Wang (Paper ID - 62)

15:30 - 16:40 | Lever Suite

Session 3.6: Reliable Autonomous Maritime Operations

Chair: Floris Goerlandt, Ruikai Sun

Area-Based Management for Search and Rescue in the Canadian Arctic

Plenary Speaker: Floris Goerlandt, Dalhousie University

A Data-Driven Estimation of Ship Engine Specific Fuel Consumption for Tanker Fleet Emission Assessment

Authors: Ruikai Sun; Wessam Abouarghoub; Huanhuan Li (Paper ID - 80)

Trajectory Planning of Multiple Unmanned Surface Vehicles for Oil Spill Containment and Recovery

Authors: Yingjie Tang; Linying Chen; Yihan Fu; Junmin Mou; Hao Rong; Pengfei Chen; Yamin Huang; Zaili Yang (Paper ID - 86)

15:30 - 16:40 | Walker Suite

Session 4.6: Human-centred safety for maritime autonomy

Chair: Shiqi Fan, Shaoyong Xuan

Human-centred safety for maritime autonomy: from human reliability to human-AI collaboration

Plenary Speaker: Shiqi Fan, Wuhan University of Technology

A Systematic Framework for Causation Correlation Analysis of Multiple Types of Maritime Traffic Accidents via Semantic context Mining

Authors: Yanli Pei; Yan Zhang; Shenping Hu; Jie Gu; Yan Chen (Paper ID - 23)

Enhancing Maritime Safety: A ST-VAE-GAN Framework for Ship Collision Accident Scenario Generation and Risk Analysis

Authors: Xiaoxing Gong; Mingze Wu; Hanwen Fan; Qiuping Yang (Paper ID - 29)

15:30 - 16:40 | Tate Suite

Session 5.6: Passenger Ship Safety and Emergency Response

Chair: Xinjian Wang, Siming Fang

Enhance the safety of human evacuation from passenger ships

Plenary Speaker: Xinjian Wang, Dalian Maritime University

Spatiotemporal patterns and predictive risk analysis of maritime accidents in UK waters

Authors: Jizhou Tang; Yuhao Cao; Arnab Majumdar; Xiaowei Gao; Yun Ye; Tao Cheng (Paper ID - 20)

Effects of Panic Propagation on Human Evacuation from Passenger Ships: An Agent-Based Simulation Study

Authors: Zhiwei Zhang; Song Wang; Xinjian Wang; Zhengjiang Liu (Paper ID - 59)

Each plenary presentation is allocated a total of 30 minutes, consisting of a 25-minute presentation followed by 5 minutes for questions and discussion.

Each regular oral presentation is allocated a total of 20 minutes, consisting of a 15-minute presentation followed by 5 minutes for questions and discussion.

Best Paper Awards



Committee Chair

Dr. Jin Wang

Liverpool John Moores University



Committee Member

Dr. Wessam Abouarghoub

Alfaisal University



Committee Member

Dr. Xiwen Bai

Tsinghua University



Committee Member

Dr. Mario Brito

University of Southampton



Committee Member

Dr. Yiliu Liu

Norwegian University of
Science and Technology

Award Selection and Evaluation Criteria

The following awards will be presented:

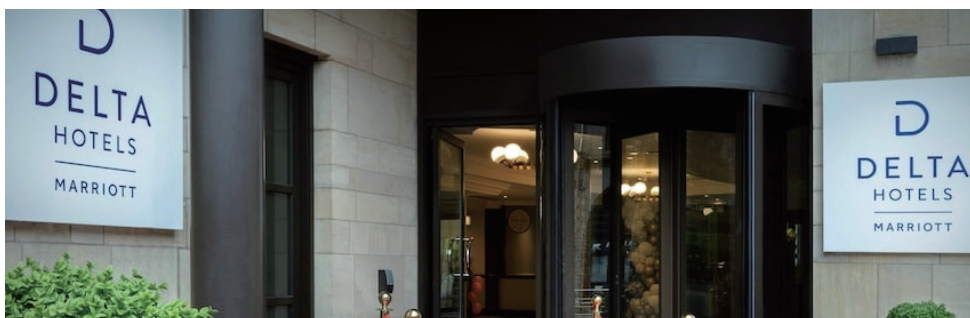
- Best Paper Award
- First Runner-Up
- Second Runner-Up

The Best Paper Award recognises outstanding contributions presented at the conference. Eligible papers will be evaluated based on their originality and innovation, methodological rigour, significance of research findings, relevance to the conference themes, and potential theoretical or practical impact. The final award recipients will be determined through an overall assessment and collective decision of the Award Evaluation Committee. To ensure fairness and transparency, any committee member with a conflict of interest must abstain from evaluating the relevant paper.

Conference Venue Guide

Arrival, registration, and the main conference area

Start at the registration desk in the Merchant Foyer on the 1st floor. Keep these pages with the programme timetable for quick reference.



Delta Hotels by Marriott Liverpool City Centre - main entrance

Venue at a glance

Venue: Delta Hotels by Marriott Liverpool City Centre

Address: One Queen Square, Liverpool, L1 1RH

Registration: Merchant Foyer, outside the Merchant Suite, 1st floor

Main room: Merchant Suite

Breaks and lunch: Merchant Suite & Oliver's Restaurant

When you arrive

1 Go to the 1st floor.

Use the stairs or lifts beside the Merchant Bar.

2 Register.

The desk is immediately outside the Merchant Suite.

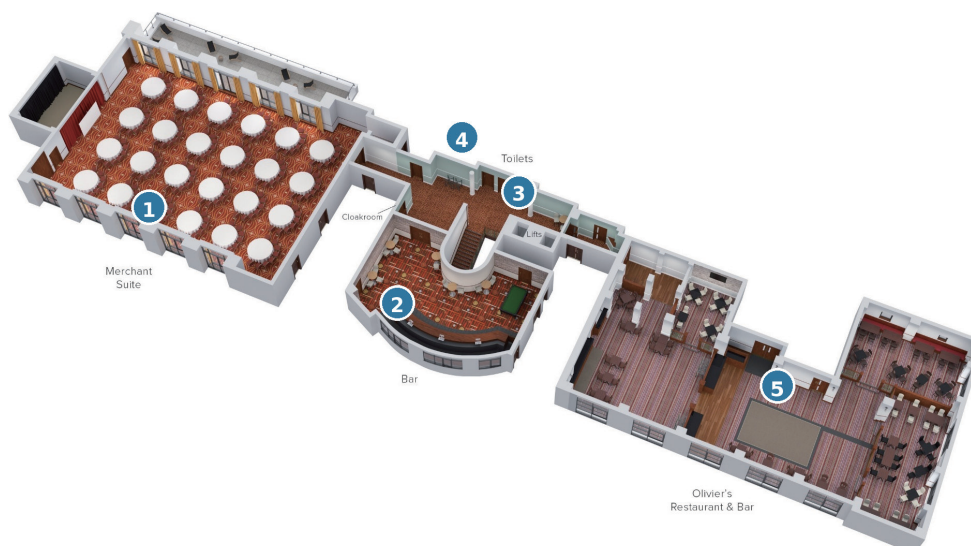
3 Enter the main room.

Keynotes, plenaries and main activities take place in the Merchant Suite.

4 Take breaks nearby.

Refreshments and lunch are in the Merchant Suite and Oliver's restaurant

Main conference area - 1st floor



1 Merchant Suite	2 Merchant Bar	3 Stairs and lift	4 Toilets	5 Oliver's Restaurant & Bar
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Parallel Session Rooms

On the ground floor, Find the Hornby, Lever, Walker and Tate suites

Check the room name printed beside your session in the programme. The four rooms used for parallel sessions are shown below.

Main conference area - ground floor



1 Walker Suite	2 Hornby Suite	3 Lever Suite	4 Tate Suite	5 Toilets
Room orientation Walker: Second door at the right of the corridor. Hornby: large center-middle room. Lever: large center-right room. Tate: At the end of the corridor.			Moving between sessions • Use the room name in the programme • Allow a few minutes for room changes • Keep the corridor and doorways clear during changeovers. • Return to the Merchant Suite for plenaries, breaks and lunch. • Ask at registration or hotel reception if you need assistance.	

PARKING Discounted parking is available at the adjacent Q-Park (postcode L1 1RH): £8 for 12 hours or £16 for 24 hours. Retain your ticket and have it validated and charged at hotel reception when departing.

Wifi information

Username: LJMU

Password: august2026

Travel Information

Conference Venue

Delta Hotels by Marriott Liverpool City Centre, One Queen Square, Liverpool L1 1RH, United Kingdom. The venue is in Liverpool city centre, close to Liverpool Lime Street Station and key public transport links.

Travelling from London

Delegates travelling from London are advised to take a direct train from London Euston to Liverpool Lime Street. The journey usually takes approximately 2 hours 15 minutes to 2 hours 30 minutes, depending on the service. Liverpool Lime Street Station is within walking distance of the conference hotel.

From London Heathrow Airport, delegates can travel to central London and London Euston before taking the train to Liverpool. From London Gatwick Airport, delegates can take Thameslink to London St Pancras International and then transfer to London Euston for Liverpool Lime Street.

Travelling from Manchester

Manchester Airport is one of the most convenient airports for travelling to Liverpool. Delegates can travel from Manchester Airport to Liverpool Lime Street by train, with direct services available on some routes and other services requiring one change. The journey usually takes approximately 1 hour 5 minutes to 1 hour 20 minutes.

Coach services are also available from Manchester Airport to Liverpool ONE Bus Station. A taxi or private hire car from Manchester Airport to the conference hotel usually takes approximately 45-70 minutes, depending on traffic.

Local Arrival and Quick Route Summary

Starting point	Typical route	Notes / approximate time
London	London Euston -> Liverpool Lime Street	Direct train recommended; approx. 2 h 15 min to 2 h 30 min
London Heathrow Airport	Heathrow -> central London / London Euston -> Liverpool Lime Street	Allow additional time for airport transfer to Euston
London Gatwick Airport	Gatwick -> St Pancras -> London Euston -> Liverpool Lime Street	Euston is approx. 10-15 minutes on foot from St Pancras
Manchester Airport	Manchester Airport -> Liverpool Lime Street or Liverpool ONE Bus Station	Train or coach options available; train usually approx. 1 h 5 min to 1 h 20 min
Liverpool Lime Street Station	Walk or short taxi to Delta Hotels by Marriott Liverpool City Centre	Approx. 5 minutes on foot; 3-5 minutes by taxi
Liverpool ONE Bus Station	Walk through the city centre or take a short taxi/private hire car	Approx. 15-20 minutes on foot; 5-10 minutes by taxi

Travel note: Delegates are advised to check train, coach, and local transport times before travelling, especially during weekends, public holidays, or late evening periods.

LIVERPOOL CITY TOUR

Discover the culture, heritage and sporting passion of Liverpool

Two iconic experiences • One memorable city

Enhance your conference experience with a group visit to two of Liverpool's best-known attractions. The tour combines music heritage at the Royal Albert Dock with the energy of English football, offering delegates an enjoyable opportunity to explore the city and connect informally with fellow participants.

1. The Beatles Story | Albert Dock



Step into the world of The Beatles and follow the journey of Liverpool's most famous band, from their early days in the city to global recognition.

Opening time: Sun–Fri 9:00–17:30; Sat 9:00–18:30

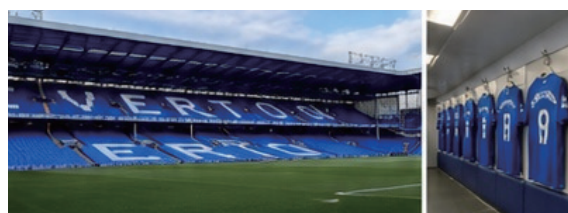
Address: Britannia Vaults, Royal Albert Dock,
Liverpool L3 4AD

Duration: 60 minutes

Group size: 35 people

Planned visit time: 10:30–11:30

2. Everton Hill Dickinson Stadium Tour



Go behind the scenes of Everton Football Club and explore the stadium, changing rooms, players' tunnel, pitchside areas and club heritage.

Opening time: 10:30–15:30

Address: Regent Rd, Liverpool L3 0BW

Duration: 60 minutes

Group size: 50 people

Planned visit time: 10:00–11:00

Why join the city tour?

Rich heritage

Explore Liverpool's musical legacy and waterfront culture.

Memorable moments

Enjoy photo opportunities at iconic locations around the city.

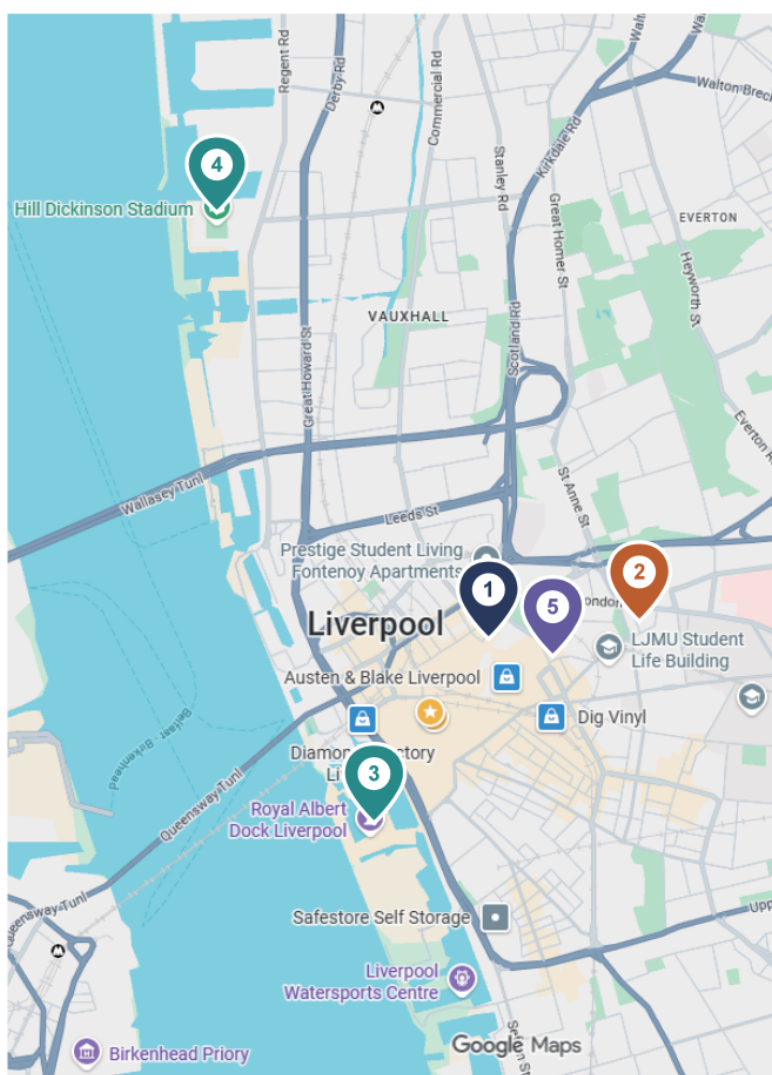
Networking

Spend time with fellow delegates in a relaxed and friendly setting.

LIVERPOOL CONFERENCE & CITY GUIDE

The 1st ICMTI & the 4th TSCRDT · 26-29 August 2026

Conference locations



Addresses & essential information

- 1 **Delta Hotels by Marriott**
MAIN CONFERENCE VENUE
One Queen Square, Liverpool, L1 1RH
Merchant Suite · 27-28 Aug
Registration from 08:00 on 27 Aug

- 2 **The Liner Hotel**
GALA DINNER
Lord Nelson Street, Liverpool, L3 5QB
Thursday 27 Aug
18:30 – 21:30

- 3 **The Beatles Story**
CITY TOUR-MUSIC HERITAGE
Britannia Vaults, Royal Albert,
Liverpool, L3 4AD
Planned visit duration: 60 minutes

- 4 **Hill Dickinson Stadium**
CITY TOUR-STADIUM TOUR
Regent Road, Liverpool, L3 0BW
Planned visit duration: 90 minutes

- 5 **Liverpool Lime Street**
MAIN RAIL STATION
Lime Street, Liverpool, L1 1JD
Approx. 5 minutes on foot to venue



26-29 August
Liverpool & London, UK

Organisers : Liverpool John Moores University, University of Liverpool, Beijing Normal - Hong Kong Baptist University
International Centre for Resilient Supply Chains, Global Centre for Maritime Innovation
Net Zero Maritime Energy Solutions Centre for Doctoral Training

Sponsors : European Research Council (ERC), UK Research and Innovation (UKRI), Maritime Research and Innovation UK (MarRI-UK)
International Ocean Society, Maritime and Last Mile Net Zero (MaLaMi)