

IMSC 2025 - International Maritime Science Conference

THURSDAY, May 8th 2025

Registration / Welcome coffee

OPENING CEREMONY (ROOM CONTARINI)
KEYNOTE SPEECH: Mr. Lukša Čičovački (EMSA) & Dr. Dong Wook Song (World Maritime University)
STUDENT VIDEO PRESENTATION: Laura Vajnović & Ivo Martić

Coffee break / POSTER SESSION

11:00-13:00	ROOM CONTARINI Navigation & Marine Engineering & Marine Defense		ROOM PRIULI Energy Efficiency and Green Shipping		ROOM WINE BAR Maritime Safety and Security & Maritime Digitalization	
	Chair: Tina Perić & Rino Bošnjak		Chair: Arkadiusz Adamczyk & Marina Zanne		Chair: Peter Vidmar & Zaloa Sanchez Varela	
(15 min per ppt)	Liane Roldo, Nenad Vulić and Toni Bilokapić	Influence of Different Heat Treatments on the Mechanical Properties of 42CrMo4 Steel for the Manufacture of Intermediate Shafts	Tomislav Peša, Maja Krčum, Grgo Kero and Joško Šoda	A Model for Selecting the Most Suitable Renewable Source of Energy on Vessels Using Bayesian Networks	Paško Ivančić and Zaloa Sanchez Varela	Review of the decision-making process for the use of monitored systems on board
	Vice Milin, Ivica Skoko, Zaloa Sanchez Varela and Zlatko Boko	Identifying the risk of offshore wind farm installation on the safety of navigation – an overview of the current state	Marija Boban and Ivan Peronja	Maritime Cyber Risk Management and cyber security in maritime industry – regulatory framework and cyber security requirements	Luka Čulić, Nediljko Kaštelan, Marko Zubčić and Ivan Pavić	Induction motor multiple fault analysis using stray flux signals: A Review
ONLINE	Josip Dorigatti, Tina Perić and Gorana Jelić Mrčelić	Cruise ships navigational practices in the central and southern part of the Adriatic east coast – Biševo island region	Lidija Runko Luttenberger, Ivica Ančić and Axel Luttenberger	Mediterranean Sea Emission Control Area implementation challenges	Vishakha Lall and Yisi Liu	AI Meets Maritime Training: Precision Competence Assessment for Enhanced Safety and Performance
	Ante Čalić, Nenad Vulić, Igor Pavlović and Marko Katalinić	Propeller performance characteristics calculation and optimization tool	Marina Zanne, Jan Pačič and Milutin Lakićević	Trade-offs in meeting the MARPOL Annex VI requirements with the focus on costs	Mario Miličević, Igor Vujović, Ana Kuzmanić Skelin and Miro Petković	Augmented Reality as a Tool to Maritime Traffic Safety
ONLINE	Špiro Ivošević, Nataša Kovač and Nikola Momčilović	Development of Corrosion Wastage Assessment Methodology for Water Ballast Tanks: An Aging Bulk Carrier	Attila Akac	Adopting Bio-Methanol and Green Methanol in the Maritime Commercial Industry - The case of Greece and Italy	Tomas Tronstad	AI in Shipping - what's happening?
	Ivona Balić Dorić, Luka Mihanović, Ante Sršen and Serdo Kos	The Mediterranean Sea as a Security Challenge Today	Hrvoje Nenad Musulin, Ivica Skoko and Mario Musulin	Decarbonization and Energy Efficiency Through Smart Shipping	Nikola Krstinić, Dario Medić, Igor Jelaska and Mario Bakota	Reliability and Validity of the Questionnaire for Examining the Integration of Ergonomic Practice Among Seafarers
ONLINE	Luka Matijašević, Mihael Dedo, Mario Musulin, Tomislav Sunko and Tino Sumić	Analysis of Fish Fund Exploitation in the European Union, Case Study of the Republic of Croatia, and the Eastern Coast of the Adriatic Sea	Victoria Gribkovskaia	Maritime transportation system and future infrastructure for offshore storage of CO2 from onboard CCS	Karmen Perković, Ivica Skoko, Vice Milin and Mario Musulin	The influence of piracy on security of ships
	Francisko Lukša, Marin Marović and Đorđe Dobrota	Motion control in hydraulic cylinder subjected to negative load in the tender crane lifting system			Šime Vučetić, Ljiljana Peričin, Luka Grbić and Mate Barić	Analysis of security checks in the cruise port area - Case study of the Republic of Croatia
13:00-14:00	LUNCH					
14:00-16:00	ROOM CONTARINI Maritime Healthcare & Maritime Education and Training		ROOM PRIULI Transportation and Logistics		ROOM WINE BAR Marine Ecology and Blue Economy & Nautical and Cruising Tourism & Port Economics Management and Policy	
	Chair: Nermin Hasanspahić & Andrea Russo		Chair: Zvonimir Rezo & Paulo Cesar Ribas		Chair: Senka Šekularac Ivošević & Gorana Jelić Mrčelić	
(15 min per ppt)	Andrea Russo, Marko Galić, Jose Luis Cueto Ancela, Mohammedreza Bachari-Lafte, Ana Slišković, Leon Šić and Slavka Kraljević	Future seafarers' personal values: Cross cultural study among maritime universities' students	Matej Soldo Jocić, Zvonimir Rezo and Sanja Steiner	Vertical Flight (in)Efficiency: A Systematic Review of Benefits, Challenges, and Implementation Considerations	Veerasingam Subramanian, Sankaran Rajendran, Jassim Al-Khayat, Ponnunomony Vethamony and Fadhil Sadooni	Integrating Hyperspectral Imaging and Spectral Angle Mapper algorithm for Sustainable Biofouling Management along the Qatar coast
	Filip Mihailović, Dragana Milošević, Boris Čorić and Senka Šekularac Ivošević	Challenges and Strategies for Improving Seafarers' Well-being: A Systematic Literature Review	Klaas Büsen, Gerrit Tuschling and Sönke Reise	Challenges for Port Infrastructure and the Future Hinterland Distribution of Green Ammonia in Germany	Ranka Jeknić	Sustainable development in Croatian maritime journals – literature review and thematic analysis
	Yusuke Mori	The perceived issues and challenges in onboard training implementation	Tomo Bagarić, Zvonimir Rezo and Sanja Steiner	ADS-B technology as support to the Air Traffic Management system	Rikako Itatsu and Hiroyasu Kifune	A research on direct connection of shore power for domestic vessels
ONLINE	Azizur Rahman, Col.Dr.G. Thiruvassagam and Dr. T. Sasilatha	A Comprehensive Study on Challenges and Opportunities in Maritime Education and Training in India	Zvonimir Rezo, Sanja Steiner, Matej Stipeljković and Matija Sučić	Diversifying aerodrome' non-aeronautical revenues through renewable energy investments	Eli Marušić, Katija Kovačić, Helena Ukić Boljat and Katarina Kokan	The Socio-Economic and Environmental Effects of the Marina Industry and Nautical Tourism on Local Communities
	Michael Baldauf, Elif Bal Besikci and Xiaoning Shi	Simulating Growing Complexity in Maritime Traffic	Bálint Csonka, Patrik Hegyi, Dávid Földes and Csaba Csiszár	Climate Resilience Assessment Framework for Intermodal Ports	Mira Pavlinović, Mila Nadrijsanski and Nikolina Čavar	Comparison of Port Community Systems in Maritime Ports - Case study
ONLINE	Samuel Montesdeoca and Beatriz Tovar	Shore excursions: perception and determinants of cruise passenger choice	Igor Girão Peres Vianna, Paulo Cesar Ribas, Virgilio José Martins Ferreira Filho and Irina Gribkovskaia	Analysis of fleet management policies for offshore platform supply vessels: The Brazilian case	Marin Donadić, Alen Jugović, Miljen Sirotić and Ivan Peronja	Logistics Services as a Relevant Factor in the Development of Ports of Nautical Tourism
	Tomislav Skračić	Proposal for a floating syllabus in Maritime English for seafaring marine engineers	Ronan Kerbirou	1 year of crisis in the Red Sea: what impact for the Adriatic ports?	Athanasia Maria Moustaka, Vassilios Kappatos, Afroditi Anagnostopoulou, Attila Akac and Evangelos Bekiaris	Optimal Locations for Biomethanol Production Through Electrified Steam Methane Reforming: A Case Study Across Southern Europe
			Elen Twrdy, Marina Zanne, Maja Stojaković, Stefano Ricci, Cristiano Marinacci, Elena Cocozza and Matteo Ignaccolo	Gaining Competitive Advantage through Green Port Technologies – case of selected Adriatic and Ionian ports	Marina Brodarić Ivačić, Luka Vukić, Josip Marić and Jelena Žanić Mikuličić	Analysis of the optimization of managing the tug fleet

16:00-17:00		ROOM PRIULI COST Panel discussion		
		Chair: Maja Krčum		
ON-SITE & ONLINE		COST CA23159 Decarbonising Waterborne Transportation (DeWaTra) Decarbonization, regulation and industrialization	Damir Roje (Croatian Register of Shipping) Peter Vidmar (University of Ljubljana, Faculty of Maritime Studies and Transport) Rino Bošnjak (University of Split, Faculty of Maritime Studies)	
19:30 - ...	DINNER - Restaurant Adriatic (ex. Grašo) - Sustupanski put 2, Split			

FRIDAY, May 9th 2025					
09:00-09:30	Welcome coffee / POSTER SESSSION				
09:30-10:00	ROOM CONTARINI: KEYNOTE SPEECH: Ms. Tatjana Krilić (IMO) & COMMERCIAL-TECHNICAL PRESENTATIONS: Mr. Josip Rukavina (Vectrino) & Nenad Radović (MEP)				
10:00-12:00 (15min per ppt)	ROOM CONTARINI Panel discussion	ROOM PRIULI Maritime Law & Maritime Transport & Student session		ROOM WINE BAR Student session	
	Chair: Luka Vukić	Chair: Tony Vuković & Roko Glavinović		Chair: Ivana Golub Medvešek & Filip Bojić	
ONLINE	<p>The Competitiveness of the Split Maritime Cluster in a Changing Environment: Opportunities and Challenges</p> <p>(IN CROATIAN)</p> <p>Goran Puž (Hrvatske Ceste)</p> <p>Filip Rogošić (Luka Split d.d.)</p> <p>Ivan Karin (Plovput d.o.o.)</p> <p>Vice Mihanović (Port Authority Split)</p> <p>Miro Juras (Brodospas d.d.)</p>	Božena Bulum and Marija Pijaca	Current European Union Tax Incentives Arising from Application of Greenhouse Gas Emissions Trading System - Challenges for Croatian Shipping Industry	Toni Martinović	Blue economy - Impact of the port on the environment and the community (on the example of the port of Šibenik d.d.)
		Željka Primorac	Safety and Insurance Aspects of the Enforcement of Search and Rescue Operations at (the Mediterranean) Sea from the Perspective of Protection of Public Health	Duje Rudić, Mateo Jakus, Ivan Budimir	Water quality assessment using Sentinel-3 – Case study on the Cetina River estuary
		Adriana Vincenca Padovan	Rethinking Compulsory Liability Insurance for Boaters in Croatian Waters	Nina Lenkić and Duje Delić	Analysis of the Impact of Natural Disasters on the Competitiveness of the Port of Ploče: Challenges and Solutions in the Rail System
		Nikola Mandić and Tonko Radojković	Concession Agreement in Sports Ports	Ivan Budimir, Domagoj Žarković, Bartul Domazet and Stipe Marjanović	Detection of Oil Spills Using Image Classification Models on Sentinel-1 SAR Imagery
		Ana Perić Hadžić, Matej Plenča and Mladen Jardas	Development of Occupational Standards and Qualification Standards in Maritime Education	Tanja Maras	Analysis of energy savings on ships through the integration of solar power and resonant energy transfer
		Ivo Martić and Laura Vejnović	Analysis of the Impact of the Cruise Industry on the Socio-Economic Development of the City of Split	Borna Todorčić and Lucija Tadić	Application of intelligent engines on ships
ONLINE		Tejas Tomar and Nandakrishnan Sasi Leyju	Optimizing Airfoil Spoilers for Enhanced Boat Performance and Stability	Luka Tolić and Marko Delić	A new entrance into Split via the Vučevica tunnel: opportunities and challenges
	Tejka Franković, Aljoša Mihelj and Ivan Nađ	Modern approach to storage optimization	Matea Rapić and Ane Zrilić	The Impact of Ferry Routes on the Development of Zadar County Islands	
	Aljoša Mihelj, Tejka Franković and Ivan Nađ	Automated hinterland terminal and port connectivity	John Odgie	Development of Procedures for Upgrading the GMDSS Communication Systems	
12:00-12:30	Coffee break / POSTER SESSSION				
12:30	CLOSING (ROOM CONTARINI)				

POSTER SESSION	
AUTHORS	POSTER TITLE
Miho Kristić, Nermin Hasanspahić and Tonči Biočić	Reporting Hazardous Occurrences At Sea From The Aspect Of Maritime Professionals
Mislav Maljković, Srđan Vukša, Pero Vidan and Ivica Pavić	Handling Large Tankers In Narrow Channels: Situational Awareness And Lessons Learned From A Case Study Of Collision And Grounding Off Port Limits (Singapore)
Krešimir Malarić	Use Of Satellites For Observing Carbon Dioxide Air-Sea Flux
Maciej Gućma and Przemysław Jabłoński	Dynamic Risk Assessment For New Types Of Ro-Pax Ferries
Dajana Bartulović, Danijel Bartulović, Jelena Pivac and Pero Vidan	Footprint Of Maritime Transport Carbon Dioxide Emissions: An Environmental Impact Assessment
Jakša Mišković, Ivica Pavić, Lea Vojković and Toni Meštrović	Impact Of The IHO Resolutions And Standards For Encs On The Use Of ECDIS
Mirela Petrić, Željka Trumbić, Tena Čurko, Svjetlana Krstulović Šifner, Vedrana Nerlović, Josip Gugić and Vedran Poljak	Promoting ESG Principles And Healthy Nutritional Habits To Increase Competitiveness, Market Diversification And Effective Communication For Consumers In Adriatic-Ionian Aquaculture And Fishery Sectors
Antea Pavić and Maja Krželj	The Impact Of Shellfish Farming On Meiofaunal Composition
Toni Stojanović, Srđan Vujičić and Nermin Hasanspahić	Probabilistic Risk Assessment Perspective In Polar Region
Vesna Skorupan Wolff	Comparative Analysis Of Presumptions For The Application Of Certain Systems Of Liability For Loss Of Life And Personal Injury To Swimmers And Other Persons In The Sea With Special Reference To The System Of Liability For Damage Caused By Waterborne Craft
Nikola Mandić and Tonko Radojković	Concession Agreement In Sports Ports
Biserka Rukavina, Agata Dajčić and Tanja Poletan Jugović	Responsibilities Of Maritime Transport Stakeholders For The Accuracy Of Verified Container Gross Mass Data
Iva Dvornik and Joško Dvornik	Analysis Of The Application Of Digitalization In Nautical Tourism
Vera Kapetanović, Maja Krčum, Marina Brodarić Ivačić and Jelena Žanić Mikuličić	Integration Of Individual Systems In Maritime Industry - Standardization
Gorana Jelić Mrčelić, Eli Marušić, Maja Račić and Antonija Mišura	Cruise Tourism In Split-Dalmatia County From 2021 To 2024
Roko Glavinović, Matko Maleš, Hrvoje Livaja and Luka Androja	Traffic Dynamics Of Key Ferry Routes In Croatia
Theo Notteboom, Małgorzata Bielenia, Eli Marušić, Katija Kovačić	Building The Circular Value Chain In The Port Industry For The Sustainable Blue Economy: Learning From The Circular Seaport Strategies
Mario Miličević, Rino Bošnjak, Igor Vujović and Tomislav Perić	Sensor Technology And Its Applications In Augmented Reality
Arkadiusz Adamczyk	Advancing Renewable Energy Solutions For Unmanned Marine Systems: Integrating Material Science And Computational Modeling
Ivan Karin, Ivana Golub Medvešek, Joško Šoda and Oleksiy Melnyk	Communication Technologies For Remote Monitoring Of Maritime Signaling Facilities: A Systematic Review Using PRISMA 2020
Tomasz Praczyk	Data-Driven Black-Box Model Of An Underwater Vehicle
Danijel Bartulović, Dajana Bartulović, Jelena Pivac and Pero Vidan	Implementation Of Artificial Intelligence Solutions In Maritime Transport: An Overview
Jakub Stalica	Estimation Of Underwater Vehicle Speed Using Neural Networks
Maciej Szymkowiak	Application Of Artificial Neural Network For Steering Swarm Of Underwater Autonomous Vehicles
Stanisław Hożyń	Diver Detection For Underwater Human-Robot Interaction
Maksymilian Wrzesień	Sonar-Based Tracking System In AUV Swarms
Srđan Vujičić, Nermin Hasanspahić, Miho Klaić and Sanja Tomšić	A Bibliometric Analysis Of The Underwater Hull Inspection Using ROV
Vlatko Knežević, Zoran Pavin, Nina Kostović and Ivan Mišlov	Different Methods For Measuring Exhaust Gas Emissions From Marine Engines
Jelena Čulin and Toni Bielić	Feeding Two Birds With One Stone: The Application Of Maritime Incident Case Studies In Developing Leadership And Managerial, And Green Competencies
Joško Dvornik and Srđan Dvornik	Analysis Of The Operation Of The MEGI Two-Stroke Slow-Speed Diesel Engine In The LNG Tanker
Marcin Kamil Kluczyk and Andrzej Grządziela	Laser Doppler Technique In The Diagnosis Of The Fuel Injection Installation Of Marine Diesel Engines
Ivan Mraković, Igor Petrović, Igor Stanovčić and Rino Bošnjak	How Artificial Intelligence Can Enhance Maritime Education And Training: Challenges And Opportunities
Seiya Kondo and Hiroyasu Kifune	A Method For Estimating The Fuel Consumption Characteristics Of Small Boats Sailing In Medium To High-Speed Range
Enes Soner, Kerem Faik Tosun and Mehmet Doymus	Achieving Environmentally Sustainable Development Goals (Sdgs) In The Maritime Industry
Eli Marušić, Małgorzata Bielenia, Katija Kovačić, Veljko Plazibat, Helena Ukić Boljat	Strategic Climate Action In The Port Industry: Resilience, Adaptation, And Mitigation Practices

Jelena Žanić Mikuličić and Ana Penjak	Navigating The Future Of Maritime Education: The Role Of Comprehensive English Training
Ivko Billić, Srđan Vujičić, Nermin Hasanspahić and Tonči Biočić	Analysing The Usage Of The Leadership And Managerial Skills On Board Ships
Mate Jurjević, Ladislav Stazić and Draško Kovač	The Role Of Logistics In The Maintenance Of Ship Systems
Milutin Lakićević and Marina Zanne	Measures For Port Emission Reduction: A Comprehensive Study
Nemanja Pudar, Ivana Radonjić Mitić, Milutin Petronijević and Tatijana Dlabač	Utilization Of Various PV Panels Technologies In The Maritime Sector
Iris Jerončić Tomić, Zlatko Kljajić, Andrea Russo, Luka Androja, Sandra Bijelić Tadić and Rosanda Mulić	The Influence Of The Education Of The Course Medicine For Seafarers On The Attitudes And Knowledge Of Students Of Nautical Studies At The Faculty Of Maritime Studies, University Of Split
Przemysław Karski	Few-Shot Learning For Optical Navigation Near Shorelines