

# IMSC 2023 - International Maritime Science Conference

MONDAY, May 8th 2023

Registration / Welcome drink

OPENING (ROOM A)

Coffee break / POSTER SESSION

ROOM A Transportation and Modes of Transport & Intelligent Transport System		ROOM B Marine engineering & Marine defense		ROOM C Navigation & Safety and security	
Chair: Mihaela Bukljaš & Tatjana Dlabac		Chair: Špiro Ivošević & Ante Čalić		Chair: Tanja Brcko & Rino Bošnjak	
Violeta Roso, Ceren Altuntas-Vural, Simon Hagelin, Albin Knutsson, Sara Rogerson and Vendela Santén		David Boullousa-Falces, Zaloa Sanchez-Varela, Egoitz Urtaran Lavín, David Sanz Sanchez, Sergio García and Miguel Angel Gomez-Solaetxe		Bikram Singh Bhatia, Maria Carrera and Raphael Baumler	
Xavier Martínez de Osés and Marilyn López Millán		Paulo Juric, Gojmir Radica, Nikola Racic and Zdeslav Juric		Sunil Kumar Panda and Sanjeet Kanungo	
ONLINE	Iryna Savelieva, Inna Lapkina, Mykola Malaksiano and Yevgen Savchenko	Igor Pavlović, Karlo Bratić, Nenad Vulić and Liane Roldo	Principles of Torque Measurement in the PFST Instrumented Sliding Bearings Test Rig	Raphael Baumler and Maria Carrera	Safety Learning Culture in Shipping Takes Two: Data Quality and Trust
Matej Kutle, Jure Bočina, Filip Rogošić and Luka Vukić		Liane Roldo and Dario Medić	Using Drones to Monitor Illegal Dumping Sites: A Contribution to Marine Engineers Education	Luka Mihanović, Renato Žarković, Ivona Balić Dorić and Ante Sršen	Ability of Coast Guard to Respond to Marine Pollution Incidents in the Exclusive Economic Zone Due to Increased Maritime Traffic
ONLINE	Zdravko Paladin, Nexhat Kapidani and Žarko Lukšić	Goran Rilje, Marko Katalinić, Nikola Račić and Đorđe Dobrota	Energy Efficiency Analysis of Variable Frequency Driven Centrifugal Pump in Merchant Vessel Cooling System	Ivan Karin, Ivana Golub Medvešek, Petar Matić and Stipe Jurčević	Raising the Level of Navigation Safety Using the AIS System
Josko Dvornik and Srđan Dvornik		Ante Gelo, Hrvoje Karna and Tomislav Kovačević	Developing Cyber Resilience in Naval Domain	Ivan Mišlov, Mate Barić, Vinko Pavić and Luka Grbić	Neglect of Sailboat Day Shape – Theory and Practice
ONLINE	Dmitry Gladkov	Marina Aljinović, Željko Jakus and Ana Karaman	Optimization of the Application of Autonomous Underwater Vehicles in Underwater Protection	Marijan Zujic, Ivica Skoko, Zlatko Boko and Toma Kuzmić	Anchoring Semisubmersible Platforms
Ana Macura, Ante Bubić and Roko Glavinović		Darija Jurko, Luka Mihanović, Milan Blažević and Dario Javorčić	Combat System on the Croatian Navy Fast Attack Craft "Kralj Petar Krešimir IV"	Ivica Skoko, Marijan Zuić and Zlatko Boko	Analysis of Operational Time and Costs of Offshore Vessels and Correlation with the Crude Oil Price
13:00-14:00 LUNCH					
ROOM A Education in transport & Human resources in transport		ROOM B Up-To-Date Technologies & Marine information system & Hydrography & Marine Automation and Electronics		ROOM C Marine Environment and Ecology	
Chair: Xavier Martínez de Osés & Roko Glavinović		Chair: Ivan Pavić & Nediljko Kaštelan		Chair: Gorana Jelić Mrčelić & Tina Perić	
Zaloa Sanchez-Varela, Marina Laušić, Tony Pinčetić and Ivan Pavić		Ivica Kuzmanić, Igor Vujović, Miro Petković and Zlatan Kulenović		Valter Suban, Marko Perković, Jure Demšar, Fabrizio Gianni and Urban Pegan	
Anita Gudelj		Dimitar Dimitrov		Özgül Taşpınar, Onur Y. Özcan, Volkan Uslan and Ali Kilinç	
ONLINE	Matthew Rooks	Nenad Leder and Tea Duplančić Leder	Application of Satellite Derived Bathymetry in Hydrographic Activity of the Republic of Croatia	Lućjan Gućma, Bartosz Muczyński, Mateusz Bilewski, Maciej Gućma and Marco Nisi	Mixed Reality and Autonomous Technology in Port Environmental Monitoring Based on PASSport project
Andrea Russo, Slavka Kraljević, Roko Glavinović, Katarina Matić, Srđan Gjurković and Rosanda Mulić		Gojmir Radica, Tomislav Mrakovčić, Tino Vidović, Tino Sumić, Nikola Račić, Maro Jelic, Branko Lalić, Vladimir Pelić and Karlo Bratić		Lidija Runko Luttenberger, Axel Luttenberger, Ivana Kosovac and Ivica Ančić	
Kristina Radnjić and Milena Dževerdanović Pejović		Busra Osmā, Ebubekir Akarsu, Kaan Bilge, Şebnem Helvacioğlu and İsmail Hakki Helvacioğlu		Luka Vukić, Lada Jurišić Vukorepa, Jerko Grenc and Jakša Grenc	
ONLINE	Jasem Albanai	Marko Zubčić, Nediljko Kaštelan, Miro Petković and Maja Krčum	Estimation of CO2 Reduction Due to Flettner Technology Based on Online Calculator for Panamax and Capesize Bulk Carriers	Murat Koray	
Vera Kapetanovic, Maja Krcum, Igor Petrovic, Igor Stanovic and Tatijana Dlabac		Mariah Kurtinaitis Joukes, Roland Ortt and Mark de Bruijne		Zlatko Boko, Zaloa Sanchez-Varela, Ivica Skoko and Merica Slišković	
ONLINE	Mihir Chandra and R S P Singh	Ergun Demirel	Career Development for Seafaring Officers to Meet the Requirements of the Maritime Industry	Josip Dorigatti, Tina Perić, Mihaela Bukljaš and Gorana Jelić Mrčelić	Particularly Sensitive Sea Areas and the Eastern Adriatic Sea
19:30 - ... DINNER - Restaurant Adriatic (ex. Grašo) - Sustipanski put 2, Split					

TUESDAY, May 9th 2023

09:30-10:15

Welcome coffee / POSTER SESSION

10:15-11:15

ROOM A - PANEL DISCUSSION

Chair: Luka Vukić

Competitiveness and Perspectives of the Transport Network in the Port of Split with a Focus on Cargo Terminals

Filip Rogošić  
(Luka Split)

Jakša Grenc  
(Žitni terminal)

Mario Štefanić  
(Jadroagent)

Branko Mozara  
(CEMEX Croatia)

Milan Brkić  
(Rail Cargo Carrier Croatia)

Darko Barišić  
(HŽ Infrastruktura)

Vice Mihanović  
(Port Authority Split)

10<sup>th</sup> IMSC 2023

May 8<sup>th</sup> & 9<sup>th</sup> 2023 – Solin, Croatia



University of Split,  
Faculty of Maritime Studies  
Split, Croatia

ROOM C - Maritime law & Management of Marine Systems

Chair: Axel Luttenberger & Jelena Nikčević

Božena Bulum, Marija Pijaca and  
Željka Primorac

Public Service Compensation and Prolongation of Public Service Contracts in the Maritime Transport Sector under European Union Law in the Case of COVID-19

Adriana Vincenca Padovan

The Salient Features of the Inchmaree Marine Insurance Clauses

Zeki Yasar

Research on the Basis of Maritime Labour Convention of Defects in Seafarer Changeover by the Effect of the COVID-19 Pandemic

Mira Pavlinović, Maja Račić and  
Antonija Mišura

The Importance of Digitalization for Sustainable Development of Maritime Industry

11:15-11:30

CLOSING (ROOM A)

POSTER SESSION

AUTHORS

POSTER TITLE

Nermin Hasanspahić, Srđan Vujičić and Alan Slišković

Sustainability in Maritime Container Transport Technology

Špiro Ivošević and Nataša Kovač

The Analyses of the Failures of Hull Structure Plating Caused by Corrosion

Marina Brodarić Ivačić, Luka Vukić, Mira Pavlinović and Ivan Peronja

Training of Employees in a Maritime Company Brodospas

Josipa Bukarica, Vice Mihanović and Mihaela Bukljaš

Port Infrastructure Construction Projects for Sustainable Intermodal Passenger Transport in the Port of Split

Jeffrey Taub

United States Marine Highway Program

Marina Brodarć Ivačić, Maja Krčum and Anita Gudelj

Management of Business Processes in a Maritime Company

Ivona Anić Miklec, Nikola Mandić and Ranka Petrinović

Implementation of European Union Law in the New Act on Liner Shipping and Seasonal Coastal Maritime Transport

Ilija Knežević, Ivana Čavor, Vesna Popović-Bugarin and Tatijana Dlabac

Using Machine Learning Techniques for Predicting Electrical Data of PV Panels from RGB Images

Mislav Maljković, Toni Mestrovic, Srđan Vukša and Rosanda Mulic

How Important is Training in Marine Firefighting Equipment - SCABA?

Vesna Skorupan Wolff

The Right of Control in Carriage of Goods by Sea – New Approach of Rotterdam Rules

Dajana Bartulović, Sanja Steiner, Danijel Bartulović and Pero Vidan

Correlations between Aviation and Maritime Safety Management Systems

Jelena Nikčević

Prevention of Maritime Pollution in Montenegro through Legal Solutions

Nemanja Pudar, Lazar Mrdović, Ilija Knežević, Nikola Marvučić, Martin Čalasan and Tatijana Dlabac

Application of Capacitor Banks in the Ship's Power System

Marija Magdalena Zrilić, Ivica Pavić and Jakša Mišković

Analysis of Accidents of non-SOLAS Vessels on the East Coast of the Adriatic Sea

Tanja Brcko, Jakša Mišković, Andrej Androjna and Ivica Pavić

Comparison of the Different Compass Types Used in Navigation

Hrvoje Mihovilović

Use of Automatic Speech Recognition to Increase the Safety of Marine Navigation

Senka Šekularac-Ivošević, Dragana Milošević, Nikola Banović, Zoran Kovačević and Tanja Poletan-Jugović

Yachting Industry in Montenegro: A Panel Discussion on Management, Marketing and Sustainable Development