



SVEUČILIŠTE U DUBROVNIKU  
UNIVERSITY OF DUBROVNIK



University of Rijeka  
Faculty of Maritime studies

# International Conference of Maritime Science & Technology NAŠE MORE 2019

Dubrovnik, Croatia,  
17 – 18 October 2019

Maritime Department, Ćira Carića 4, Dubrovnik

[www.nasemore.com/conference/](http://www.nasemore.com/conference/)

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## CONFERENCE PROGRAMME

### Day 1

Thursday, 17<sup>th</sup> October 2019

08.15 - 09.00	Registration
09.00 - 09.45	Opening ceremony, opening remarks - <b>room A</b>
09.45 - 11.00	Keynote speakers – room A
11.00 - 11.30	Coffee break
11.30 - 12.30	<b>SESSION 1 – room A, B, C, D</b>
12.30 - 13.30	Lunch at the University building
13.30 - 14.30	<b>SESSION 2 – room A, B, C, D</b>
14.30	Closing remarks – free time
20.00	<b>Gala dinner</b> – Kantenari Restaurant and lounge, Sunset beach Dubrovnik ( <i>Address: Šetalište kralja Zvonimira 17</i> )

### Day 2

Friday, 18<sup>th</sup> October 2019

09.00 - 10.00	<b>SESSION 3 – room A, B, C, D</b>
10.00 - 10.30	Coffee break
10.30	Closing ceremony
10.45	<b>City tour</b> ( <i>bus transfer to Pile gate, meeting point Petrol station INA Orsan</i> )

## SOCIAL EVENTS

### Day 1

Thursday, 17<sup>th</sup> October 2019

20.00

**Gala dinner** – Kantenari Restaurant and lounge,  
Sunset beach Dubrovnik (*Address: Šetalište kralja  
Zvonimira 17*)

With a perfect setting in Uvala Lapad bay, featuring the largest beach in Dubrovnik, modern and newly built beach resort Sunset Beach Dubrovnik is among the most appealing places in Dubrovnik.

Kantenari Restaurant & Lounge sits right on the water and offers the the most stunning view of Uvala bay and the best sunset in all of Dubrovnik.

### Day 2

Friday, 18<sup>th</sup> October 2019

10.45

**City tour** (*bus transfer to Pile gate,  
meeting point Petrol station INA Orsan*)

**Guided tour of Dubrovnik's city walls** and Old Town with Maritime museum and Aquarium

<b>Day 1</b> <b>Keynote speakers</b> <b>Room A</b> <b>09,45-11,00</b>	<b>Prof. Kevin Cullinane, PhD</b>  <b>University of Gothenburg</b>	<b>Andrzej Montwiłł, PhD</b>  <b>Maritime University of Szczecin</b>	<b>Marek Vochozka, PhD</b>  <b>Institute of Technology and Business – Ceske Budejovice</b>	<b>Juraj Bukša, PhD</b>  <b>Adriatic Croatia International – ACI d.d, Croatia</b>
	<b>Room A</b>	<b>Room B</b>	<b>Room C</b>	<b>Room D</b>
	Navigation, Safety, Stability, Maritime Science, Navy & Defence	Marine & Electrical engineering, Naval Construction, Automatization, Information systems	Marine Ecology, Management, Marine Systems	Marine Finance, Logistic, Transportation, Maritime Law, Maritime Education
<b>Day 1</b> <b>Session 1</b> <b>11,30-12,30</b>	Chair: <b>David Brčić, PhD</b>  1 (3) Bogdan Žak Andrzej Žak Józef Małecki THE METHOD OF OPTIMAL CONTROL OF THE SHIP IN A COLLISION SITUATION  2(5) Darijo Mišković Renato Ivče Žarko Koboević Maro Car IMPACT OF MARITIME REGULATORY COMPLIANCE ON MARITIME SAFETY  3(6) Đani Mohović Mate Barić Robert Mohović Renato Ivče A NEW E-PLATFORM FOR SUCCESSFUL LEARNING OF COLREGs  4(28) Marek Zellma Agata Załęska-Fornal DESCRIPTION OF THE CHARACTERISTIC OF THE DYNAMIC	Chair: <b>Maro Ćorak, PhD</b>  1 (1) Predrag Kralj Dragan Martinović Mato Tudor MARINE FRESH WATER GENERATOR PROCESS OPTIMIZATION  2(10) Anamarija Falkoni Nikša Koboević Žarko Koboević Goran Krajačić OPPORTUNITIES FOR ALL-ELECTRIC SHIPS IN SMART ENERGY SYSTEMS  3(7) Ladislav Stazić Karlo Bratić Vice Mihanović Jure Matjašić MAINTENANCE PROCESS ADJUSTMENT BASED ON COMPUTERIZED PMS DATA  4(11) Joško Dvornik Srđan Dvornik Ivan Radan ANALYSIS OF THE	Chair: <b>Darko Glujić, PhD</b>  1(12) Ariefjewe Igor GRAPH-ANALYTICAL METHOD FOR ASSESSING THE STATE OF THE OBJECT BEING DIAGNOSED  2(9) Miroslav Vukičević Miloš Bogdanović Draško Kovač Srđan Vujičić PROSPECTIVE JOBS FOR MONTENEGRIN SEAFARERS IN THE EPICONTINENTAL AREA OF MONTENEGRO  3(23) Tadeusz Bodnar Tomasz Praczyk USING ARTIFICIAL INTELLIGENCE METHODS TO DETECT THE HORIZON LINE IN MARINE IMAGES  4(29) Vu Quoc Sang Yun Chul Jung Phung Hung Nguyen SETTING UP IMPIT DATA OF MODEL FOR ASSESSING LEVEL OF A	Chair: <b>Ivona Milić Beran, PhD</b>  1(33) Anna Mingaleva Irina Shorohova PROSPECTS FOR THE DEVELOPMENT OF THE INFRASTRUCTURE OF SEAPORTS OF THE NORTHERN SEA ROUTE  2(8) Ante Vuković Željko Mišić THE MAXIMUM DURATION OF A CONCESSION FOR MARINAS IN CROATIAN AND COMPARATIVE LAWS  3(14) Tatjana Stanivuk Marko Šundov Rino Bošnjak Nena Tomović MODEL OF RATIONALIZATION OF TRANSPORT COSTS FOR THE CONSTRUCTION OF A SHIP HULL - CASE

	<p>FLOATING OBJECTS BY MEANS OF THE SMOOTHING SPLINES OF THIRD ORDER</p> <p>5(40) Joanna Sznajder Leszek Flis Pawel Piskur Marek Gąsiorowski</p> <p>MODELLING AND EXPERIMENT OF A FIN FOR BIOMIMETIC UNDERWATER VEHICLE</p>	<p>EFFECTS OF LOW-SULFUR FUELS ON THE CYLINDER LINER LUBRICATION IN THE MARINE LOW-SPEED TWO-STROKE DIESEL ENGINE</p> <p>5(13) Agnieszka Czapiewska Ryszard Studański Andrzej Żak Bogdan Żak</p> <p>ECHOES REDUCTION IN DIGITAL DATA TRANSMISSION IN HYDROACOUSTIC CHANNEL – LABORATORY EXPERIMENT</p>	<p>COUNTRY'S ACCEPTANCE OF PARTICIPATION IN THE INTERNATIONAL COMPENSATION REGIMES FOR OIL POLLUTION</p> <p>5(30) Vasile Rata Liliana Rusu</p> <p>ASSESS THE RISK OF SHIPPING ACCIDENTS IN THE BLACK SEA THAT MAY BE BASED ON STRUCTURAL FATIGUE</p>	<p>STUDY FOR THE BRODOTROGIR</p> <p>4(22) Irena Jurdana Biserka Rukavina Sandra Tominac Coslovich</p> <p>SUSTAINABLE DEVELOPMENT OF SUBMARINE OPTICAL CABLE INFRASTRUCTURE: TECHNICAL AND LEGAL ASPECTS</p> <p>5(4) Dražen Žgaljić Alen Jugović Donald Sciozzi Renato Oblak</p> <p>MULTI-CRITERIA ANALYSIS OF CROATIAN PORT SYSTEM FOR IMPLEMENTATION OF SUSTAINABLE MOTORWAYS OF THE SEA SERVICES</p> <p>6(60) Alena Khaslavskaya, Violeta Roso Ivan Sanchez-Diaz</p> <p>SWEDISH DRY PORTS' SERVICES</p>
	<b>Room A</b>	<b>Room B</b>	<b>Room C</b>	<b>Room D</b>
	<b>Navigation, Safety, Stability, Maritime Science, Navy &amp; Defence</b>	<b>Marine &amp; Electrical engineering, Naval Construction, Automatization, Information systems</b>	<b>Marine Ecology, Management, Marine Systems</b>	<b>Marine Finance, Logistic, Transportation, Maritime Law, Maritime Education</b>
<b>Day 1 Session 2 13,30-14,30</b>	<p>Chair: <b>Darijo Mišković, PhD</b></p> <p>1(26) Ninna Roos MARITIME AUTOMATION – THE</p>	<p>Chairs: <b>Dragan Martinović, PhD</b></p> <p>1(2) Kimberly Tam Kevin Jones</p>	<p>Chair: <b>Predrag Kralj, PhD</b></p> <p>1(18) Marko Katalinić Maro Ćorak Joško Parunov</p>	<p>Chair: <b>Irena Jurdana, PhD</b></p> <p>1(15) Tatjana Stanivuk Marko Šundov Rino Bošnjak</p>

	<p>ROLE OF THE HUMANS IN THE FUTURE</p> <p>2(27) Alin Hobjila Liliana Rusu</p> <p>STUDY OF ADDED MASSES AND DAMPING FACTORS FOR A TYPICAL CARGO SHIP FROM BLACK SEA</p> <p>3(41) Peter Ivar Sandell</p> <p>AUTONOMOUS AND REMOTE CONTROLLED VESSELS – HOW WILL THE RISK BE ASSESSED BY THE HULL UNDERWRITERS?</p> <p>4(46) Nermin Hasanspahić Srđan Vujičić Leo Čampara Niko Hrdalo</p> <p>ANALYSIS OF CARGO SHIPS ACCIDENTS IN THE PAST DECADE</p> <p>5(57) Clara Borén Loïc Falevitch Marcella Castells-Sanabra Manel Grifoll Colls</p> <p>ADDED RESISTANCE PARAMETRIZATIONS DUE TO WAVES IN A WEATHER SHIP ROUTING SYSTEM</p>	<p>A CYBER-SECURITY REVIEW OF EMERGING TECHNOLOGY IN THE MARITIME INDUSTRY</p> <p>2(17) Antonija Mišura Tatjana Stanivuk Katarina Balić Maja Račić</p> <p>INTRODUCING ELECTRIC SHIPS IN THE COASTAL MARITIME TRAFFIC SYSTEM OF THE REPUBLIC OF CROATIA</p> <p>3(19) Andrzej Grządziela Marcin Kluczyk</p> <p>MARINE DIESEL ENGINES INJECTION PUMPS VIBRATION DIAGNOSTICS SUPPORTED BY MODELLING</p> <p>4(21) Krzystof Naus Mariusz Waz</p> <p>THE METHODS OF ACQUISITION AND EXTRACTION OF SMALL AMPLITUDE SIGNAL RADAR ECHOES</p> <p>5(25) Nguyen Quang Vinh Le Van Vang Bui Hong Duong</p> <p>RESEACHING ADJUSTMENT OF NOZZLE VANES OF TURBOCHARGER TO IMPROVE THE POWER OUTPUT OF MARINE DIESEL GENERATOR ENGINE</p>	<p>OPTIMIZATION OF WAVE SPECTRUM PARAMETERS FOR THE ADRIATIC SEA</p> <p>2(48) Silvija Batoš</p> <p>CONTROVERSIES IN THE S/S STEFANO MULTIDISCIPLINARY RESEARCH</p> <p>3(51) Stanisław Hożyń Tomasz Praczyk Piotr Szymak</p> <p>MEASUREMENT AND CONTROL SYSTEM FOR A DIVER’S ROBOTIC LEG</p> <p>4(52) Vivien Lorenčić Elen Twrdy</p> <p>FORECASTING OF CRUISE PASSENGER DEMAND IN THE MEDITERRANEAN CRUISE PORTS</p> <p>5(56) Nikola Marvučić Enis Kočan</p> <p>OVERVIEW OF COMMUNICATION SOLUTIONS FOR INTERNET OF THINGS IN MARITIME INDUSTRY</p>	<p>Tomislav Skračić</p> <p>IMPACTS OF TRANSPORT ON THE EFFICIENCY OF THE SHIPBUILDING SUPPLY CHAIN</p> <p>2(24) Juraj Bukša Alen Jugović Donald Schiozzi Renato Oblak</p> <p>THE COMPROMISE MODEL AS A METHOD OF OPTIMIZING THE OPERATION OF NAUTICAL TOURISM PORTS</p> <p>3(35) Livia Maglič Adrijana Agatić Lovro Maglič Marko Gulić</p> <p>INTELLIGENT TRANSPORTATION SYSTEMS IN CROATIAN SMART CITIES</p> <p>4(36) Srećko Krile Nikolai Maiorov Vladimir Fetisov</p> <p>RESEARCH OF PROCESSES OF THE SYSTEM «MARINE PASSENGER TERMINAL- FERRY LINE» BASED ON SIMULATION</p> <p>5(37) Zhanna Mingaleva Vladimir Postnikov Mariia Kamenskikh</p> <p>RESEARCH OF CARGO SEAPORTS DEVELOPMENT IN THE RUSSIAN</p>
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				FEDERATION IN THE CONTEXT OF PORT BASINS  6(39) Hrvoje Baričević Tanja Poletan-Jugović Siniša Vilke INTEGRAL TRAFIC MODEL OF THE DUBROVNIK-NERETVA COUNTY
	<b>Room A</b>	<b>Room B</b>	<b>Room C</b>	<b>Room D</b>
	<b>Navigation, Safety, Stability, Maritime Science, Navy &amp; Defence</b>	<b>Marine &amp; Electrical engineering, Naval Construction, Automatization, Information systems</b>	<b>Marine Ecology, Management, Marine Systems</b>	<b>Marine Finance, Logistic, Transportation, Maritime Law, Maritime Education</b>
<b>Day 2 Session 3 09,00-10,00</b>	Chair: <b>Vlado Frančić, PhD</b>  1(38) Ivona Milić Beran Romana Capor Hrošik Dario Stjepović CORRELATION ANALYSIS OF MARITIME TRAFFIC  2(16) Maro Car Srđan Vujičić Srđan Žuškin David Brčić HUMAN MACHINE INTERFACE: INTERACTION OF OOW'S WITH ECDIS SYSTEM  3(42) Tomasz Jałowiec Dariusz Grała Katarzyna Pietrzyk-Wiszowaty USE OF MARITIME TRANSPORT BY THE POLISH ARMED FORCES	Chair: <b>Josip Orović, PhD</b>  1(32) Darko Glujić Dean Bernečić THE INFLUENCE OF SLOW SPEED DIESEL ENGINES CYLINDER LINER TEMPERATURE ON SPECIFIC FUEL CONSUMPTION  2(45) Josip Orović Vedran Mrzljak Igor Poljak ANALYSIS OF AUXILIARY EXERGY FLOW STREAM DURING THE CHANGE IN MARINE STEAM PROPULSION SYSTEM LOAD  3(53) Vukičević Miroslav Račić Nikola Vukašinović Denis WAYS OF REDUCING THE CONTENT OF	Chair: <b>Goran Vukelić, PhD</b>  1(58) Irina Makarova Aleksey Boyko Larisa Gubacheva Aleksandr Barinov PROSPECTS FOR THE NORTHERN SEA ROUTE DEVELOPMENT: ECONOMIC AND ENVIRONMENTAL ASPECTS  2(62) Špiro Ivošević Rebeka Rudolf Draško Kovač THE OVERVIEW OF THE VARIED INFLUENCES OF THE SEAWATER AND ATMOSPHERE TO CORROSIVE PROCESSES ON SHAPE-MEMORY MATERIALS  3(34) Józef Małeck Stanisław Hożyń Bogdan Żak	Chair: <b>Siniša Vilke, PhD</b>  1(43) Luka Vukić Zvonimir Lušić Danijel Pušić Silvija Galić TRENDS AND PERSPECTIVES OF CARGO TRAFFIC ACTIVITIES IN THE PORT OF SPLIT  2(44) Lia Dragojević Branka Milošević-Pujo EIGHT MARITIME LEGAL TERMS ACCORDING TO CARRIAGE OF GOODS BY SEA ACT; RESEARCH INTO ENGLISH LANGUAGE AND CROATIAN TRANSLATION EQUIVALENTS  3(47) Tomislav Krljan

	<p>- EXPERIENCE AND FUTURE</p> <p>4(61) Waldemar Mironiuk</p> <p>INFLUENCE OF FLOODING BOAT DECK COMPARTMENT ON THE SHIP'S SAFETY</p>	<p>CATALYTIC FINES IN MARINE HEAVY FUEL OIL</p> <p>4(55) Igor Nesteruk Srećko Krile Žarko Koboević</p> <p>COMFORTABLE ELECTRICAL YACHTS WITH SPECIAL SHAPED UNDERWATER HULLS</p> <p>5(20) Sergey German-Galkin Dariusz Tarnapowicz</p> <p>OPTIMAL CONTROL OF GENERATOR SET WITH PERMANENT MAGNET SYNCHRONOUS MACHINE</p>	<p>PRECISE CONTROL OF THE UNMANNED SURFACE SHIP - SELECTED PROBLEMS</p> <p>4(63) Senka Šekularac – Ivošević Dragana Milošević</p> <p>INNOVATION THROUGH COLLABORATION: THE APPLICATION IN MARITIME INDUSTRY</p>	<p>Siniša Vilke</p> <p>SIMULATION OF THE PORT OF RIJEKA CONTAINER TERMINAL ACCESS ROAD LOADS CAUSED BY HEAVY-DUTY VEHICLE TRAFFIC FLOWS</p> <p>4(50) Andrzej Montwiłł</p> <p>SEAPORT AS A STIMULATOR OF THE DEVELOPMENT OF INTEGRATED LAND-SEA TRANSPORT CORRIDORS. CASE STUDIES</p> <p>5(59) Irina Makarova Larisa Gubacheva Aleksey Boyko Polina Buyvol Ksenia Shubenkova</p> <p>INTERNATIONAL TRANSPORT CORRIDORS AS A WAY TO IMPROVE LOGISTIC PROCESSES IN MODERN CONDITIONS</p>
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# LOCATION

