

15th Baška GNSS Conference: Technologies, Techniques and Applications Across PNT
and
The 2nd Workshop on Smart, Blue and Green Maritime Technologies

8 – 13 May 2022
Baška, the Island of Krk, Croatia



CONFERENCE AND WORKSHOP PROGRAMME

8 May 2022 (Sunday)

19:00 - 21:00	Conference welcome gathering / Ice-breaking dinner (Conference package)	Restaurant Corinthia Hotel
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9 May 2022 (Monday)

08:30 - 09:00	Registration	Conference Hall Corinthia Hotel ~ Hybrid/Online
09:00 - 10:00	<p>Welcome speeches</p> <p>Mr. Toni Juranić Mayor of Baška, Baška, Krk Island, Croatia</p> <p>Capt. Zlatan Marunić Administrative Department for Maritime Domain, Transport and Communications, Primorje-Gorski Kotar County, Rijeka, Croatia</p> <p>Prof. Jasna Prpić-Oršić, PhD Head of the Section of Ship Dynamics, Department of Naval Architecture and Ocean Engineering, University of Rijeka, Faculty of Engineering, Rijeka, Croatia</p> <p>Assoc. prof. Ana Perić Hadžić, PhD Vice Dean for Business Relations University of Rijeka, Faculty of Maritime Studies, Rijeka, Croatia</p> <p>Assoc. prof. Goran Vukelić, PhD Vice Dean for Scientific Research University of Rijeka, Faculty of Maritime Studies, Rijeka, Croatia</p> <p>Opening</p> <p>Mr. John R. Pottle, BSc MBA, FRIN, Director The Royal Institute of Navigation, London, UK</p>	Conference Hall Corinthia Hotel ~ Hybrid/Online

Plenary session I: Technologies, Techniques and Applications across PNT

Prof. Serđo Kos, PhD, FRIN

University of Rijeka, Faculty of Maritime Studies, Rijeka, Croatia

Prof. Hrvoje Gold, PhD

University of Zagreb, Faculty of Transportation and Traffic Sciences, Zagreb, Croatia

10:00 - 10:40	<p>Mr. Tom Southall, FRIN International Association of Marine Aids to Navigation and Lighthouse Authorities</p> <p><i>Keynote lecture</i></p> <p>Fostering Safe, Economic and Efficient Movement of Vessels Through Harmonised Marine Aids to Navigation</p>	<p>Conference Hall Corinthia Hotel</p> <p>~</p> <p><i>Hybrid/Online</i></p>
10:40 - 11:20	<p>Assist. prof. Danijel Šugar, PhD Institute of Geomatics, University of Zagreb, Faculty of Geodesy, Zagreb, Croatia</p> <p><i>Keynote lecture</i></p> <p>Kinematic effects and permanent displacement caused by December 2020 Petrinja earthquakes – assessed by CROPOS GNSS network</p>	<p>Conference Hall Corinthia Hotel</p> <p>~</p> <p><i>Hybrid/Online</i></p>
11:20 - 12:00	<p>Mr. John R. Pottle, BSc, MBA, FRIN The Royal Institute of Navigation, London, UK</p> <p><i>Keynote lecture</i></p> <p>Structured approach towards resilient PNT</p>	<p>Conference Hall Corinthia Hotel</p> <p>~</p> <p><i>Hybrid/Online</i></p>
12:00 - 12:15	Hybrid gathering with plenary session speakers (Q&A)	<i>Hybrid/Online</i>
12:15 - 12:45	<p>Coffee break</p> <p><i>(Sponsored by Royal Institute of Navigation, London, UK)</i></p>	<p>Conference Hall Corinthia Hotel</p>
13:00 - 14:30	<p>Lunch</p> <p><i>(Conference package)</i></p>	<p>Restaurant Corinthia Hotel</p>
14:00 - 15:00	<p>Meeting of the IAIN Officers</p> <p><i>(closed session)</i></p>	<p>Conference Hall Corinthia Hotel</p>

GNSS session I: GNSS Augmentation Systems

Chairs:

Assist. prof. Danijel Šugar, PhD

Institute of Geomatics, University of Zagreb, Faculty of Geodesy, Zagreb, Croatia

Assist. prof. Franc Dimc, PhD

University of Ljubljana, Faculty of Maritime Studies and Transport, Portorož, Slovenia

15:30 - 16:10	Mr. Jeff Auerbach Office of Space and Advanced Technology, US Department of State, USA <i>Keynote lecture</i> GPS Status	Conference Hall Corinthia Hotel ~ <i>Hybrid/Online</i>
16:10 - 16:30	Lahouaria Tabti ^{1,*} , Salem Kahlouche ¹ , Belkacem Benadda ² ¹ Department of Space Geodesy, Centre of Space Techniques, Algeria Space Agency, Algeria ² Telecommunications Laboratory, University of Tlemcen, Algeria <i>Presentation</i> Current and Future EGNOS Performance Status in Algeria	Conference Hall Corinthia Hotel ~ <i>Hybrid/Online</i>
16:30 - 16:50	Beldjilali Bilal Department of Space Geodesy, Center of Space Techniques, Algerian Space Agency, Algeria <i>Presentation</i> Enhancement of EGNOS Services in North Africa Using New RIMS Stations	Conference Hall Corinthia Hotel ~ <i>Hybrid/Online</i>
16:50 - 17:10	Derras Chahrazed*, Beldjilali Bilal Department of Space Geodesy, Center of Space Techniques, Algerian Space Agency, Algeria <i>Presentation</i> EGNOS Accuracy Assessment for Maritime Application in the Algerian Coast	Conference Hall Corinthia Hotel ~ <i>Hybrid/Online</i>
17:10 - 17:30	Rodrigo González ^{1,*} , Elisabet Lacarra ² , Manuel López-Martínez ³ , Kaisu Heikonen ⁴ ^{1,2} Receiver, Standardisation and Evolution Department, EGNOS Satellite Services Provider, Spain; ³ Waterborne and Emergency Response Applications Department, EU Agency for the Space Programme, Czech Republic; ⁴ Maritime Traffic Network Department, Finnish Transport Infrastructure Agency, Finland <i>Presentation</i> Three Months of EGNOS Performance in the Baltic Sea on an Oil Tanker	Conference Hall Corinthia Hotel ~ <i>Hybrid/Online</i>
17:30 - 17:45	GNSS session I: Q&A	Conference Hall Corinthia Hotel ~ <i>Hybrid/Online</i>
17:45 - 18:45	Coffee break (Sponsored by Royal Institute of Navigation, London, UK)	Conference Hall Corinthia Hotel
19:00 - 21:00	Regular dinner (Conference package)	Restaurant Corinthia Hotel

* Presenting author (the same applies throughout the document)

10 May 2022 (Tuesday)

09:30 - 10:00	Registration	Conference Hall Corinthia Hotel ~ <i>Hybrid/Online</i>
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GNSS session II: GNSS PNT applications

Chairs:

Prof. Tomislav Kos, PhD

University of Zagreb, Faculty of Electrical Engineering and Computing, Zagreb, Croatia

Assoc. prof. David Brčić, PhD

University of Rijeka, Faculty of Maritime Studies, Rijeka, Croatia

10:00 - 10:20	Ralf Ziebold*, Xiangdong An, Christoph Lass German Aerospace Centre, Institute of Communications and Navigation, Nautical Systems Department, Germany <i>Presentation</i> Using Precise Point Positioning for an Automated Passing of Inland Waterway Locks	Conference Hall Corinthia Hotel ~ <i>Hybrid/Online</i>
10:20 - 10:40	Jaime Alvarez IALA, France <i>Presentation</i> GNSS and PNT related work within IALA	Conference Hall Corinthia Hotel ~ <i>Hybrid/Online</i>
10:40 - 11:00	Božidar Ivanković*, Nenad Sikirica, Robert Spudić University of Applied Sciences, Hrvatsko zagorje Krapina, Croatia <i>Presentation</i> Integrating a Navigation System Based on Visual Navigation	Conference Hall Corinthia Hotel ~ <i>Hybrid/Online</i>
11:00 - 11:20	Hao Wang, Shuguo Pan* School of Instrument Science and Engineering, Southeast University, Nanjing, China <i>Presentation</i> An Improved Robust CKF Filtering Algorithm for GNSS/INS Integrated Navigation	Conference Hall Corinthia Hotel ~ <i>Hybrid/Online</i>
11:20 - 11:30	GNSS session II: Q&A	Conference Hall Corinthia Hotel ~ <i>Hybrid/Online</i>
11:30 - 12:00	Coffee break (Sponsored by Royal Institute of Navigation, London, UK)	Conference Hall Corinthia Hotel

GNSS session III: UAVs/USVs

Chairs:

Assoc. prof. Mario Muštra, PhD

University of Zagreb, Faculty of Transportation and Traffic Sciences, Zagreb, Croatia

Josip Vuković, PhD

University of Zagreb, Faculty of Electrical Engineering and Computing, Zagreb, Croatia

12:00 - 12:20	<p>Oktawia Lewicka^{1,*}, Mariusz Specht², Andrzej Stateczny³, Cezary Specht¹, Czesław Dyrzcz⁴, Paweł Dąbrowski¹, Bartosz Szostak³, Armin Halicki², Marcin Stateczny², Szymon Widźgowski²</p> <p>¹Department of Geodesy and Oceanography, Gdynia Maritime University, Gdynia, Poland; ²Marine Technology Ltd., Gdynia, Poland; ³Department of Geodesy, Gdańsk University of Technology, Gdańsk, Poland; ⁴Department of Navigation and Hydrography, Polish Naval Academy, Gdynia, Poland</p> <p><i>Presentation</i></p> <p>Analysis of Transformation Methods of Hydroacoustic and Optoelectronic Data Obtained Using GNSS RTK, TLS, UAV and USV Based on the Tomboło Measurement Campaign in Sopot</p>	Conference Hall Corinthia Hotel ~ Hybrid/Online
12:20 - 12:40	<p>Mariusz Specht^{1,*}, Andrzej Stateczny², Cezary Specht³, David Brčić⁴, Oktawia Lewicka³, Bartosz Szostak², Armin Halicki¹, Marcin Stateczny¹, Szymon Widźgowski¹</p> <p>¹Marine Technology Ltd., Gdynia, Poland; ²Department of Geodesy, Gdańsk University of Technology, Gdańsk, Poland; ³Department of Geodesy and Oceanography, Gdynia Maritime University, Gdynia, Poland; ⁴Faculty of Maritime Studies, University of Rijeka, Rijeka, Croatia</p> <p><i>Presentation</i></p> <p>Integration Data Model of the Bathymetric Monitoring System for Shallow Waterbodies Using UAV and USV Platforms</p>	Conference Hall Corinthia Hotel ~ Hybrid/Online
12:40 - 13:00	<p>Mario Muštra^{1,*}, Tomislav Radišić¹, Dario Petrec²</p> <p>¹University of Zagreb, Faculty of Transport and Traffic Sciences, Zagreb, Croatia ²Operations & E2E QA Department, Croatian Telecom Inc., Croatia</p> <p><i>Presentation</i></p> <p>Advantages of RTK for Precise Video Capture Using UAV</p>	Conference Hall Corinthia Hotel ~ Hybrid/Online
13:00 - 13:20	<p>Bartosz Szostak^{1,*}, Mariusz Specht², Paweł Burdziakowski¹, Andrzej Stateczny¹, Cezary Specht³, Oktawia Lewicka³, Magdalena Grucza³, Armin Halicki², Marcin Stateczny², Szymon Widźgowski²</p> <p>¹Department of Geodesy, Gdańsk University of Technology, Gdańsk, Poland; ²Marine Technology Ltd., Gdynia, Poland; ³Department of Geodesy and Oceanography, Gdynia Maritime University, Gdynia, Poland</p> <p><i>Presentation</i></p> <p>Methodology for Performing Bathymetric Measurements of Shallow Waterbodies Obtained Using UAVs and Their Processing Based on the SVR Algorithm</p>	Conference Hall Corinthia Hotel ~ Hybrid/Online
13:20 - 13:30	GNSS session III: Q&A	Conference Hall ~ Hybrid/Online
13:30 - 14:30	Lunch (Conference package)	Restaurant Corinthia Hotel

GNSS session IV: Near-Earth, Geospace and Solar-Terrestrial Environment

Chairs:

Prof. Hrvoje Gold, PhD

University of Zagreb, Faculty of Transportation and Traffic Sciences, Zagreb, Croatia

Prof. Hesham M. Helal, PhD, Capt.

Maritime Postgraduate Studies Institute; Arab Academy for Science, Technology & Maritime Transport,
Cairo, Egypt

15:30 - 15:50	<p>Leon Makaj*, Serdjo Kos, David Brčić, Sanjin Valčić University of Rijeka, Faculty of Maritime Studies, Rijeka, Croatia</p> <p><i>Presentation</i></p> <p>Analysis of the Saastamoinen Tropospheric Delay Model and its Contribution to GPS Positioning Performance: A Tropical Cyclone Case Study</p>	Conference Hall Corinthia Hotel ~ <i>Hybrid/Online</i>	
15:50 - 16:10	<p>Mario Bakota^{1,*}, Serdjo Kos², David Brčić² ¹University of Split, Faculty of Maritime Studies Split, Split, Croatia ²University of Rijeka, Faculty of Maritime Studies, Rijeka, Croatia</p> <p><i>Presentation</i></p> <p>Position-time correlation of Saastamoinen tropospheric delay correction of Galileo satellite navigation signals along x, y, and z axes: The partial analysis</p>	Conference Hall Corinthia Hotel ~ <i>Hybrid/Online</i>	
16:10 - 16:30	<p>Luka Kramarić^{1,*}, Mateja Dumbović², Krešimir Malarić¹ ¹Faculty of Electrical Engineering and Computing, University of Zagreb, Zagreb, Croatia ²Hvar Observatory, Faculty of Geodesy, University of Zagreb, Zagreb, Croatia</p> <p><i>Presentation</i></p> <p>Interaction of Solar Storms with Galactic Cosmic Rays: Consequences for Satellite Operations</p>	Conference Hall Corinthia Hotel ~ <i>Hybrid/Online</i>	
16:30 - 16:50	<p>Ivan Toman^{1,*}, David Brčić², Serdo Kos² ¹University of Zadar, Maritime Department, Zadar, Croatia ²University of Rijeka, Faculty of Maritime Studies, Rijeka, Croatia</p> <p><i>Presentation</i></p> <p>Temporal Correlation of Proton Density and Earthquake Magnitude Within the Theory of Solar-Induced Earthquakes: Croatian December 2020 M=6.4 Case Study</p>	Conference Hall Corinthia Hotel ~ <i>Hybrid/Online</i>	
16:50 - 17:10	<p>Josip Vuković*, Tomislav Kos University of Zagreb, Faculty of Electrical Engineering and Computing, Zagreb, Croatia</p> <p><i>Presentation</i></p> <p>Signal Path Geometries for Ionospheric Corrections in Single-Frequency Space-Borne GNSS Receivers</p>	Conference Hall Corinthia Hotel ~ <i>Hybrid/Online</i>	
17:10 - 17:20	GNSS session IV: Q&A		Conference Hall Corinthia Hotel ~ <i>Hybrid/Online</i>
17:20 - 17:45	Coffee break <i>(Sponsored by Royal Institute of Navigation, London, UK)</i>		Conference Hall Corinthia Hotel

17:30 - 18:30	Meeting of the International Programme and Organising Committee <i>(closed session)</i>	Corinthia Hotel
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19:00 - 19:30	Cocktail gathering <i>(Conference package)</i>	Restaurant / Terrace Hotel Zvonimir
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19:30 - 24:00	Gala dinner <i>(Conference package)</i>	Restaurant Hotel Zvonimir
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11 May 2022 (Wednesday)

11:00 - 11:30	Registration	Conference Hall Corinthia Hotel ~ <i>Hybrid/Online</i>
11:30 - 11:45	<p style="text-align: center;"><i>Opening of the 2nd Workshop on Smart, Blue and Green Maritime Technologies</i></p> <p style="text-align: center;">Prof. Jasna Prpić-Oršić, PhD Chair of Smart, Blue and Green Maritime Technology Workshop University of Rijeka, Faculty of Engineering, Rijeka, Croatia</p> <p style="text-align: center;">Mr. John R. Pottle, BSc, MBA, FRIN The Royal Institute of Navigation, London, UK</p>	Conference Hall Corinthia Hotel ~ <i>Hybrid/Online</i>
<p style="text-align: center;">Plenary session II: Smart and Green Maritime Research Initiatives</p> <p style="text-align: center;">Chairs:</p> <p style="text-align: center;">Prof. Jasna Prpić-Oršić, PhD University of Rijeka, Faculty of Engineering, Rijeka, Croatia</p> <p style="text-align: center;">Mr. John R. Pottle, BSc, MBA, FRIN The Royal Institute of Navigation, London, UK</p>		
11:45 - 12:30	<p style="text-align: center;">Prof. Bettar O. el Moctar, PhD Ship Technology and Transport Systems, University of Duisburg-Essen/Germany</p> <p style="text-align: center;"><i>Keynote lecture</i></p> <p style="text-align: center;">Challenges and Perspectives of Autonomous Ships</p>	Conference Hall Corinthia Hotel ~ <i>Hybrid/Online</i>
12:30 - 13:15	<p style="text-align: center;">Dr. Alan Grant, FRIN Head of Research & Development, General Lighthouse Authorities of the UK and Ireland</p> <p style="text-align: center;"><i>Keynote lecture</i></p> <p style="text-align: center;">Future Maritime Navigation Requirements and Operational Strategy</p>	Conference Hall Corinthia Hotel ~ <i>Hybrid/Online</i>
13:15 - 13:30	Hybrid gathering with plenary session speakers (Q&A)	<i>Hybrid/Online</i>
13:30 - 14:30	Lunch <i>(Conference package)</i>	Restaurant Corinthia Hotel

Workshop session I: Advanced Maritime Systems and Techniques

Chairs:

Prof. Serđo Kos, PhD, FRIN

University of Rijeka, Faculty of Maritime Studies, Rijeka, Croatia

Assoc. prof. Marko Valčić, PhD

University of Zadar, Maritime Department, Zadar, Croatia

15:30 - 15:50	David Brčić*, Srđan Žuškin, Serđo Kos, Sanjin Valčić University of Rijeka, Faculty of Maritime Studies, Rijeka, Croatia <i>Presentation</i> Evolving ECDIS: GNSS PNT-Based Concepts Towards Safe and Automated Maritime Navigation Venture	Conference Hall Corinthia Hotel ~ <i>Hybrid/Online</i>
15:50 - 16:10	Nikola Lopac ^{1,2,*} , Irena Jurdana ¹ , Nobukazu Wakabayashi ³ , Hongze Liu ³ ¹ Faculty of Maritime Studies, University of Rijeka, Rijeka, Croatia; ² Center for Artificial Intelligence and Cybersecurity, University of Rijeka, Croatia; ³ Graduate School of Maritime Sciences, Kobe University, Japan <i>Presentation</i> Application of Advanced Digital Technologies for AIS Data Utilization	Conference Hall Corinthia Hotel ~ <i>Hybrid/Online</i>
16:10 - 16:30	Samuele Utzeri ¹ , Luca Bridotti ^{1,*} , Jasna Prpić-Oršić ² ¹ Department of Engineering and Architecture, University of Trieste, Trieste, Italy ² Faculty of Engineering, University of Rijeka, Croatia <i>Presentation</i> Vertical Motions RMS Prediction for Small Cruises Concept Design	Conference Hall Corinthia Hotel ~ <i>Hybrid/Online</i>
16:30 - 16:50	Ivan Sulovsky ^{1,*} , Jasna Prpić-Oršić ¹ , Kenji Sasa ² , Chen Chen ³ ¹ University of Rijeka, Faculty of Engineering, Rijeka, Croatia; ² Department of Maritime Sciences, Kobe University, Kobe, Japan; ³ School of Navigation, Wuhan University of Technology, Wuhan, China <i>Presentation</i> Uncertainty Analysis of Weather Simulation Modelling During Navigation	Conference Hall Corinthia Hotel ~ <i>Hybrid/Online</i>
16:50 - 17:10	Bart Banning ^{1,*} , Anthony MacKay ² ¹ President, Netherlands Institute of Navigation, The Netherlands ² Director Operational Safety, NavCanada, Canada <i>Presentation</i> Magnetic to True North, Aviation Change by 2030	Conference Hall Corinthia Hotel ~ <i>Hybrid/Online</i>
17:10 - 17:30	Workshop session I Q&A with Coffee break (Sponsored by Royal Institute of Navigation, London, UK)	Conference Hall Corinthia Hotel ~ <i>Hybrid/Online</i>

Workshop session II: Environmentally Friendly Shipping

Chairs:

Assoc. prof. David Brčić, PhD

University of Rijeka, Faculty of Maritime Studies, Rijeka, Croatia

Assoc. prof. Josip Orović, PhD

University of Zadar, Maritime Department, Zadar, Croatia

17:30 - 17:50	<p style="text-align: center;">Josip Orović*, Marko Valčić, Josip Mijatov, Mladen Čirjak University of Zadar, Maritime Department, Zadar, Croatia</p> <p style="text-align: center;"><i>Presentation</i></p> <p style="text-align: center;">Improving the Ship Propulsion Efficiency by Propeller Modification and Optimization Procedures</p>	<p style="text-align: center;">Conference Hall Corinthia Hotel</p> <p style="text-align: center;">~ <i>Hybrid/Online</i></p>
17:50 - 18:10	<p style="text-align: center;">Frano Barbir^{1,2,*}, Gojmir Radica¹</p> <p style="text-align: center;">¹Faculty of Electrical Engineering, Mechanical Engineering and Naval Architecture, University of Split, Split, Croatia; ²Center of Excellence for Science and Technology – Integration of Mediterranean Region (STIM), University of Split, Split, Croatia</p> <p style="text-align: center;"><i>Presentation</i></p> <p style="text-align: center;">Role of Hydrogen in Decarbonization of Maritime Shipping</p>	<p style="text-align: center;">Conference Hall Corinthia Hotel</p> <p style="text-align: center;">~ <i>Hybrid/Online</i></p>
18:10 - 18:30	<p style="text-align: center;">Vlatko Knežević*, Josip Orović, Marko Valčić, Zoran Pavin University of Zadar, Maritime Department, Zadar, Croatia</p> <p style="text-align: center;"><i>Presentation</i></p> <p style="text-align: center;">Analysis of Simulated Exhaust Gas Emissions and Emissions Measured On-Board Ro-Pax Vessels</p>	<p style="text-align: center;">Conference Hall Corinthia Hotel</p> <p style="text-align: center;">~ <i>Hybrid/Online</i></p>
18:30 - 18:50	<p style="text-align: center;">Đani Šabalja, Marko Đorđević*, Marko Strabić University of Rijeka, Faculty of Maritime Studies, Rijeka, Croatia</p> <p style="text-align: center;"><i>Presentation</i></p> <p style="text-align: center;">Accidental Marine Pollution Preparedness and Response at Sea</p>	<p style="text-align: center;">Conference Hall Corinthia Hotel</p> <p style="text-align: center;">~ <i>Hybrid/Online</i></p>
18:50 - 19:10	<p style="text-align: center;">Nina Kostović*, Mate Barić, Luka Grbić University of Zadar, Maritime Department, Zadar, Croatia</p> <p style="text-align: center;"><i>Presentation</i></p> <p style="text-align: center;">Ballast Water Alternatives</p>	<p style="text-align: center;">Conference Hall Corinthia Hotel</p> <p style="text-align: center;">~ <i>Hybrid/Online</i></p>
19:10 - 19:25	Workshop session II Q&A	<p style="text-align: center;">Conference Hall Corinthia Hotel</p> <p style="text-align: center;">~ <i>Hybrid/Online</i></p>
19:30 - 21:00	<p style="text-align: center;">Dinner</p> <p style="text-align: center;"><i>(Conference package)</i></p>	<p style="text-align: center;">Restaurant Corinthia Hotel</p>
21:00	<i>Friends night beach bar</i>	<i>Beach bar</i>

12 May 2022 (Thursday)

09:00 - 12:00	Boat trip with field research and measurement equipment exhibition <i>(Sponsored by Faculty of Maritime Studies, University of Rijeka, Rijeka, Croatia)</i>	Tourist Boat
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13:00 - 14:30	Lunch <i>(Conference package)</i>	Restaurant Corinthia Hotel
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14:30 - 15:00	Registration	Conference Hall Corinthia Hotel ~ Hybrid/Online
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Workshop Session III: Simulations and Data-driven Modelling in Shipping

Chairs:

Assoc. prof. Srđan Žuškin, PhD
University of Rijeka, Faculty of Maritime Studies, Rijeka, Croatia

Assist. prof. Mate Barić, PhD
University of Zadar, Maritime Department, Zadar, Croatia

15:00 - 15:40	<p style="text-align: center;">Prof. Joško Parunov, PhD University of Zagreb, Faculty of Mechanical Engineering and Naval Architecture, Zagreb, Croatia</p> <p style="text-align: center;"><i>Keynote lecture</i></p> <p style="text-align: center;">Progress in CSF Research Project Modelling Uncertainty of Ship Response Prediction in the Adriatic Sea (MODUS)</p>	Conference Hall Corinthia Hotel ~ Hybrid/Online
15:40 - 16:00	<p style="text-align: center;">Dejan Žagar*, Blaž Luin, Franc Dimc University of Ljubljana, Faculty of Maritime Studies and Transport, Portorož, Slovenia</p> <p style="text-align: center;"><i>Presentation</i></p> <p style="text-align: center;">Do Biometric Measurements of Navigators on the Ship's Bridge During a Simulated Port Approach Increase Safety?</p>	Conference Hall Corinthia Hotel ~ Hybrid/Online
16:00 - 16:20	<p style="text-align: center;">Elizabeth C. Ramirez Applied Science, Descartes Labs, USA</p> <p style="text-align: center;"><i>Presentation</i></p> <p style="text-align: center;">Bayesian Approach to Crude Palm Oil Exports Forecasting in Malaysia and Indonesia</p>	Conference Hall Corinthia Hotel ~ Hybrid/Online
16:20 - 16:40	<p style="text-align: center;">Samadhi Medawela Disanayaka^{1*}, Rohini Widyalkankara², Prasanna Sedrick¹, Charith Tharaka¹, Harindra Perera¹, Peshala Medagama¹</p> <p style="text-align: center;">¹Department of Marine Simulation, CINEC Campus (Pvt.) Ltd., Malabe, Sri Lanka ²Department of English, CINEC Campus (Pvt.) Ltd., Malabe, Sri Lanka</p> <p style="text-align: center;"><i>Presentation</i></p> <p style="text-align: center;">Lessons Learnt During Covid-19 Crisis Management in Seafaring: A Sri Lankan Perspective</p>	Conference Hall Corinthia Hotel ~ Hybrid/Online

16:40 -	Zoran Pavin*, Marko Valčić, Josip Orović, Vlatko Knežević University of Zadar, Maritime Department, Zadar, Croatia <i>Presentation</i>	Conference Hall Corinthia Hotel
17:00	Impact of Environmental Loads on Ship Speed Based on Simulated Data	~ <i>Hybrid/Online</i>
17:00 -	Luka Draščić, Aleksandar Cuculić, Ivan Panić*, Jasmin Ćelić University of Rijeka, Faculty of Maritime Studies, Rijeka, Croatia <i>Presentation</i>	Conference Hall Corinthia Hotel
17:20	Wavelet Transform Neural Network Classifier for Electrical Ferry Power Disturbance Classification	~ <i>Hybrid/Online</i>

17:20 -	Workshop session III Q&A with Coffee break (Sponsored by Royal Institute of Navigation, London, UK)	Conference Hall Corinthia Hotel
17:45		~ <i>Hybrid/Online</i>

17:45 -	Dr. Clare Stead, Communications & Events Manager The Royal Institute of Navigation, London, UK Conference and Workshop Summary <hr/> CLOSING CEREMONY Chairs: Mr. John R. Pottle, BSc MBA, FRIN Prof. Serđo Kos, PhD, FRIN Prof. Jasna Prpić-Oršić, PhD <hr/> Invitation for the Call for Papers Assoc. prof. David Brčić, PhD <i>Conference proceedings</i> Proceedings of the 15th Baška GNSS Conference and the 2nd SBGMT Workshop <i>Conference and workshop partner journals</i> Journal of Marine Science and Engineering Promet - Traffic & Transportation Pomorstvo - Scientific Journal of Maritime Research Remote Sensing	Conference Hall Corinthia Hotel ~ <i>Hybrid/Online</i>
18:30		

18:45 - 19:00	Gathering in front of the Corinthia hotel <i>(Minibus arrangement and ride sponsored by University of Applied Sciences, Hrvatsko zagorje Krapina, Croatia)</i>	-
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19:30 - 23:00	Social gathering with prosciutto, cheese and wine tasting @ The national champion in prosciutto competition 2022 <i>(Sponsored by University of Zadar, Maritime Department, Zadar, Croatia)</i>	Vrh, Krk Island
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