

XXIV INTERNATIONAL CONFERENCE ON
"MATERIAL HANDLING, CONSTRUCTIONS AND LOGISTICS"
MHCL 2022

...organizers...organizers...

**MARITIME AND PORT LOGISTICS
BAR CONFERENCE**

14th - 16th December, 2022

HOTEL PRINCESS - BAR MONTENEGRO

← Registration desk and conference room →

**MARL
CEN**
maritime
logistics
center

MedAMPL
Mediterranean
Association for
Maritime and
Port Logistics

**Port of Bar
Luka Bar**
...co-organizers...
...supporters...
AD MARINA BAR



Agentplus

PROGRAM

MARITIME AND PORT LOGISTICS BAR CONFERENCE

14th - 16th December 2022
Bar, Montenegro

**MHCL 2022 Conference, XXIV International Conference
on Material Handling, Constructions and Logistics**

PROGRAM OVERVIEW (SCHEDULE AND VENUES)

The participants are recommended to make registration on time.

All Sessions will be organized in **Hotel Princess Conference Room - HPCR**.

Day 1 (13th December 2022)

Time	Event	Venue
16:30 – 18:30	1 st Bar Conference School in MPL	Hotel Princess (HPCR)

Day 2 (14th December 2022)

Time	Event	Venue
15:30 – 16:15	1 st Round Table	Agent plus
16:30 – 18:30	1 st Bar Conference School in MPL	Hotel Princess (HPCR)
19:00 – 21:00	Welcome Reception	Restaurant Aria

Day 3 (15th December 2022)

Time	Event	Venue
08:30 – 09:00	Registration	Hotel Princess Lobby
09:00 – 09:30	Opening Ceremony	Hotel Princess Conference Room (HPCR)
09:30 – 10:00	Session 1	
10:00 – 11:30	Session 2	
11:30 – 12:00	Coffee break	Hotel Princess Lobby
12:00 – 13:30	Session 3	HPCR
13:30 – 14:30	Lunch	Hotel Princess Restaurant
14:30 – 16:00	Session 4	HPCR
16:00 – 16:30	Coffee break	Hotel Princess Lobby
16:30 – 18:30	Session 5	HPCR
19:00 – 21:00	Dinner	Restaurant Aria

Day 4 (16th December 2022)

Time	Event	Venue
08:30 – 09:00	Registration	Hotel Princess Lobby
09:00 – 11:00	Session 6	HPCR
11:00 – 11:30	Coffee break	Hotel Princess Lobby
11:30 – 13:30	Session 7	HPCR
13:30 – 14:15	Lunch	Hotel Princess Restaurant
14:15 – 15:30	Session 8	HPCR
15:30 – 16:00	Closing Ceremony	HPCR
19:00 – 22:00	Gala Dinner	Restaurant Marina

Day 5 (17th December 2022)

Time	Event	Venue
10:00 – 12:00	- Bus tour across Marina Bar - Bus tour across Port of Bar - Short visit to Old town of Bar	AD Marina Bar Port of Bar Old town of Bar

Opening Ceremony Program (15th December 2022, 09:00 – 09:30)

Opening Ceremony

Hotel Princess Conference Room

Topic: Opening Ceremony

Chairs: Prof. Dr. Branislav Dragović and Prof. Dr. Nikitas Nikitakos

- Short speeches by Prof. Dr. Branislav Dragović
- Short speech by Prof. Dr. Nikitas Nikitakos, Aegean University
- Short speech titled “What is Green Shipping? How realistic is it?” by Prof. Dr. Dimitris Lyridis, NTUA
- Short speech by representative of Major of the Bar town Municipality
- Short speech by Mr. Ilija Pješčić, CEO of the Port of Bar
- Short speech by Mr. Goran Đurović, Minister of the Ministry of Economic Development and Tourism in the Montenegrin Government

Session 1 Program (15th December 2022, 09:30 – 10:00)

Session 1

Hotel Princess Conference Room

Topic: New Trends in Maritime and Port Logistics

Chair: Prof. Dr. Nikola Momčilović

- **Panellists** - Prof Dr. **Harilaos Psaraffis**, Technical University of Denmark; Prof Dr. **Jasmine Lam**, Nanyang Technological University, Singapore; Prof. Dr. **Wei Yim Yap**, Singapore University of Social Sciences and Prof. Dr. **Nikitas Nikitakos**, University of Aegean.
- **Discussions, comments and questions**

Session 2 Program (15th December 2022, 10:00 – 11:30)

Session 2

Hotel Princess Conference Room

Topic: Keynote presentations by Keynote Speakers

Chair: Prof. Dr. Nikitas Nikitakos

1. A keynote presentation I: **SHIPPING DECARBONIZATION: THE MBM AGENDA**, Prof Dr. **Harilaos Psaraffis**, Technical University of Denmark, Denmark.
 2. A keynote presentation II: **RESOURCE SHARING AT CONTAINER PORTS**, Prof. Dr. **Kap-Hwan Kim**, Zhejiang University, China.
 3. A keynote presentation III: **BIOFUEL ADOPTION PATHWAYS IN SHIPPING**, Prof. Dr. **Jasmine Lam**, Nanyang Technological University, Singapore.
- **Discussions, comments and questions**

Session 3 Program (15th December 2022, 12:00 – 13:30)

Session 3

Hotel Princess Conference Room

Topic: Presentations by Invited Lecturers

Chair: Assis. Prof. Dr. Thalys Zis

1. Invite Lecture I: **DATA ANALYTICS FOR SHIPPING CONNECTIVITY RESEARCH**, Prof. Dr. **Wei Yim Yap**, Singapore University of Social Sciences.
2. Invite Lecture II: **MARKOV MODELLING OF THE AVAILABILITY FOR THE INTEGRATED AUTOMATION SYSTEM SENSORS**, Prof. Dr. **Nikitas Nikitakos**,

Department of Shipping Trade and Transport, University of Aegean, Greece, (Authors of the paper: Ioannis K. Dagkinis, Panagiotis M. Psomas, Agapios N. Platis, Nikitas V. Nikitakos).

3. Invite Lecture III: **BERTH ALLOCATION AT PASSENGER TERMINALS USING AUCTIONS**, **Prof. Dr. Mihalis Golias**, **Dept. of Civil Engineering at the University of Memphis, USA**, (Authors of the paper: Dimitrios K. Giampouranis, Sotirios Theofanis, Maria Boile, Mihalis Golias).

- **Discussions, comments and questions**

Session 4 Program (15th December 2020, 14:30 – 16:00)

Session 4

Hotel Princess Conference Room

Topic: Keynote presentations by Keynote Speakers under 45-year

Chair: **Prof. Dr. Nenad Zrnčić**

1. **DISRUPTIONS IN SHIPPING AND EFFECTS ON IMPORTANT PASSAGEWAYS AND ROUTE CHOICE** by **Assis. Prof. Dr. Thalys Zis**, **Cyprus University of Technology Department of Shipping, Cyprus** - **Keynote presentation I by a Keynote Speaker under 45-year old.**
2. **IMO GHG REGULATIONS AND THEIR OUTCOMES FOR CARGO SHIPS** by **Prof. Dr. Nikola Momčilović**, **Faculty of Mechanical Engineering of the University of Belgrade** - **Keynote presentation II by a Keynote Speaker under 45-year old.**
3. **TRANSFER BRIDGE FOR CRUSHED GYPSUM AND ASH** by **Assis. Prof. Dr. Nebojša Gnjatović**, **Faculty of Mechanical Engineering of the University of Belgrade** - **Keynote presentation III by a Keynote Speaker under 45-year old.**

Topic: Crane Design

Chairs: **Prof. Dr. Nenad Zrnčić**

4. **DESIGN THE BOOM FOR VERY BIG CRAWLER CRANE USING ALUMINIUM ALLOY** by **Prof. Dr. Luigi Solazzi**, **University of Brescia (IT) Department of Mechanical and Industrial Engineering, Italy**

- **Discussions, comments and questions after each presentation**

Session 5 Program (15th December 2020, 16:30 – 18:30)

Session 5

Hotel Princess Conference Room left side of the main entrance

Topic: Maritime Industry Session with the **2nd Round Table of THE SOUTH ADRIATIC PORTS ASSOCIATION (SAPA) DEVELOPMENT INITIATIVES**

Chairs: **Prof. Dr. Nikitas Nikitakos** and **Prof. Dr. Branislav Dragović**

1. **PORT OF THE BAR PRESENTATION** by **Dr. Deda Djelović**, **Port of Bar, Montenegro.**
2. **AD MARINA BAR PRESENTATION** by **Mr. Željko Stojović**, **Director and MSc Tomislav Markolović**, **AD Marina Bar, Montenegro.**
3. **CEROVO COMPANY PRESENTATION** by **Emin Durakovic**, **Executive Manager, Montenegro.**

4. **AGENTPLUS PRESENTATION** by **Kenan Perazić, Executive Director, Montenegro.**
5. **AMSPM PARTICIPATION IN EU HORIZON AND IPA PROJECTS: RESPONDA HORIZON 2020 PROJECT** by **MSc Nedžad Kapidani, Deputy Director (ADMINISTRATION FOR MARITIME SAFETY AND PORT MANAGEMENT - AMSPM).**
6. **TEHNOMAX MONTENEGRO PRESENTATION** by **Slobodan Franeta (TEHNOMAX representative), Montenegro.**
7. **SEA PIONEER MONTENEGRO PRESENTATION** by **Nataša Krivokapić, Montenegro.**
8. **LIMIT PLUS PRESENTATION** by **Thomas Gozdecky, Director, Slovenia**
9. **INNOVATION CENTRE (FACULTY OF MECHANICAL ENGINEERING, BELGRADE UNIVERSITY) PRESENTATION** by **Prof. Dr. Nenad Zrnić, Director, Faculty of Mechanical Engineering of the University of Belgrade Serbia.**

Session 6 Program (16th December 2020, 9:00 – 11:00)

Session 6

Hotel Princess Conference Room left side of the main entrance

Topic: Maritime and Port Logistics I

Chair: **Dr. Deda Delović**

1. **CONTAINER GROUP SIZE ANALYSIS ON YARD PLANNING WITH EXTERNAL TRUCK ARRIVAL** by **Prof. Dr. Etsuko Nishimura, Faculty of Maritime Sciences, Kobe University** (Authors of the paper: Etsuko Nishimura, Yilong Su).
2. **TOWARDS A SUSTAINABLE PORT DIGITAL AGE: DATA-DRIVEN GLOBAL CONTAINER PORTS TURNOVER RATE ASSESSMENT** by **Prof. Dr. Dong Yang, Hong Kong Polytechnic University Department of Logistics and Maritime Studies - Keynote presentation IV by a Keynote Speaker under 45-year old.**
3. **MODELLING THE CONTAINER YARD AS AN OPERATIONAL SYSTEM IN A PORT: A METHODOLOGICAL APPROACH** by **Prof. Dr. Romeo Meštrović, Maritime Faculty of the University of Montenegro** (Authors of the paper: Romeo Meštrović, Branislav Dragović, Nenad Zrnić, Andro Dragović, Kenan Perazić).
4. **MODELLING THE CONTAINER YARD AS AN OPERATIONAL SYSTEM IN A PORT: THE CASE STUDIES** by **Prof. Dr. Branislav Dragović, Maritime Faculty of the University of Montenegro** (Authors of the paper: Romeo Meštrović, Branislav Dragović, Nenad Zrnić, Andro Dragović, Kenan Perazić).
5. **MARINA CAPACITY ANALYSIS: A PRACTICAL METHOD FOR INVESTMENT** by **MSc Tomislav Markolović, AD Marina Bar,** (Authors of the paper: Branislav Dragović, Željko Stojović, Tomislav Markolović, Mirjana Stanović, Aco Ćorić).
6. **GEOPOLITICAL RISK AND SEABORNE TRADE: A QUANTITATIVE ANALYSIS** by **Dimitris Georgoulas, Dept. of Maritime Studies of the University of Piraeus, Greece,** (Authors of the paper: Dimitris Georgoulas, Vangelis Tsioumas, Peter J. Stavroulakis Stratos Papadimitriou).
7. **ANALYZING PAPERS OF PORT RELATED SHIP EMISSIONS IN TRD** by **Prof. Dr. Branislav Dragović,** (Authors of the paper: Ernestos Tsannatos, Branislav Dragović, Andro Dragović, Nataša Krivokapić)

- Discussions, comments and questions

Session 7 Program (16th December 2022, 11:30 – 13:30)

Session 7

Hotel Princess Conference Room left side of the main entrance

Chairs: Prof. Dr. Nikola Momčilović and Assis. Prof. Dr. Thalīs Zīs

Topic: Keynote presentation by a Keynote Speaker

1. A keynote presentation IV: **QUEUEING NETWORKS AND INTEGRATED DECISION MAKING IN PORT LOGISTICS** by **Prof. Dr. Pasquale Legato**, University of Calabria Department of Informatics, Modeling, Electronics and System Engineering, Italy.

Topic: Maritime and Port Logistics II

2. **LOGISTICS 4.0 IN MARITIME SECTOR: THE AMAZON METHOD** by **Prof. Dr. Nikitas Nikitakos**, Department of Shipping Trade and Transport, University of Aegean, Greece, (Authors of the paper: Theodore Chondrompilas, Ioannis K. Dagkinis, Thodore Lillas, Nikitas V. Nikitakos).
3. **AN ANALYSIS OF DRY BULK CARRIERS TURNAROUND TIME** by **Dr. Deda Đelović, Port of Bar**.
4. **ASSESSING IMPACT OF AMMONIA BUNKERING ON BUNKER SUPPLY CHAIN** by **Mengyao Yang**, Nanyang Technological University, Singapore, (Authors of the paper: Mengyao Yang, Jasmine Siu Lee Lam).
5. **THE ROLE OF SHIPBROKERS IN MARITIME CLUSTERS: PRELIMINARY QUANTITATIVE FINDINGS** by **Assist. Prof. Dr. Peter Stavroulakis**, Dept. of Maritime Studies of the University of Piraeus, Greece, (Authors of the paper: Vangelis Tsioumas, Dionysios Vasilopoulos, Peter J. Stavroulakis, Stratos Papadimitriou).
6. **ASSESSMENT OF ENVIRONMENTAL ASPECTS IN MARINA USING PROBABILISTIC AND COMBINATORIAL APPROACH** by **Milijana Đinović and Prof. Dr. Romeo Meštrović**, Maritime Faculty of the University of Montenegro.

- Discussions, comments and questions after each presentation

Session 8 Program (16th December 2022, 14:15 – 15:30)

Session 8

Hotel Princess Conference Room left side of the main entrance

Topic: Maritime Industry Session III

Chair: Prof. Dr. Wei Yim Yap

1. A **DECOMPOSITION-BASED APPROACH FOR INTEGRATED TACTICAL-LEVEL PLANNING IN LINER SHIPPING WITH SHIP FLEET HETEROGENEITY** by **Prof. Dr. Maxim A. Dulebenets**, FAMU-FSU College of Engineering, Department of Civil & Environmental Engineering, Tallahassee, USA - **Keynote presentation V by a Keynote Speaker under 45-year**.
2. **PERFORMANCE EVALUATION OF CONTAINER HANDLING IN A TRANSSHIPMENT HUB** by **Dr. Rina Mary Mazza**, University of Calabria Department of Informatics, Modeling, Electronics and System Engineering, Italy, (Authors of the paper: Pasquale Legato, Rina Mary Mazza).
3. **LIFE CYCLE ASSESSMENT ON NATURAL GAS - LIQUIFIED NATURAL GAS: A POWER SECTOR APPROACH** by **Dimitrios Bissias**, School of Naval

Architecture and Marine Engineering (NA&ME) at the National Technical University of Athens (NTUA), Greece, (Authors of the paper: Dimitrios Bissias, Dimitrios V. Lyridis, Charis Ntakolia).

4. WHICH FORECASTING FRAMEWORK IS MORE ACCURATE?

THE CASE OF CONTAINER TRAFFIC IN THE BOHAI RIM PORT SYSTEM, CHINA by **Dong Huang**, Barcelona Innovation in Transport (BIT), Department of Civil and Environmental Engineering, Universitat Politècnica de Catalunya (UPC-Barcelona Tech), Barcelona, Spain and Faculty of Maritime and Transportation, Ningbo University, Ningbo, China, (Authors of the paper: Dong Huang, Manel Grifoll, Pengjun Zheng Hongxiang Feng).

5. RELIABILITY ANALYSIS OF COMPONENTS OF CONSTRUCTION MACHINES by **Predrag Dašić, Marina Karić and Violeta Đorđević**, Academy of Professional Studies Šumadija, Department in Trstenik, Serbia.

- Discussions, comments and questions after each presentation

Closing Ceremony Program (16th December 2022, 15:30 – 16:00)

Closing Ceremony

Hotel Princess Conference Room

Topic: Closing Ceremony

Chairs: Prof. Dr. Branislav Dragović, Prof. Dr. Nenad Zrnić and Prof. Dr. Gang Chen

- 3rd Roundtable entitled **A WAY AHEAD WITH REGARDS TO MARITIME AND PORT LOGISTICS**

Organizer Prof. Dr. Branislav Dragović and Dr. Deda Đelović

Panellists

- **Prof. Dr. Nenad Zrnić**
- **Prof. Dr. Jasmine Lam**
- **Prof. Dr. Nikitas Nikitakos**
- **Prof. Dr. Wei Yim Yap,**

- **Awarding of certificates for each candidate who attended the 1st Bar Conference School in Maritime and Port Logistics**

- Short speech by Prof. Dr. Branislav Dragović

- Short speech by Prof. Dr. Nenad Zrnić, Serbia

- Short speech by Prof. Dr. Gang Chen, China and Denmark

Presentation Technique

All papers and presentations must be presented in English (**on live or via Zoom platform**).

No simultaneous translation will be provided.

Beamer for electronic presentation (PowerPoint or similar tools) with a connected PC is available in the conference rooms.

We suggest copying your files to our computer in the conference room before the session starts.

Zoom as a conferencing platform will be used for each Bar Conference Session. The links for the Bar Conference Sessions will be available on time via the Bar Conference web site or the links will be distributed by e-mail.



MHCL 2022 Conference, XXIII International Conference
on Material Handling, Constructions and Logistics

MARITIME AND PORT LOGISTICS PROGRAM BAR CONFERENCE

Organizers:



UNIVERSITY OF
BELGRADE
FACULTY OF MECHANICAL
ENGINEERING



TECHNISCHE
UNIVERSITÄT
WIEN
Vienna University of Technology

Co-organizers and Supporters:

**MARL
CEN**
maritime
logistics
center

MedAMPL
Mediterranean
Association for
Maritime and
Port Logistics

 **Port of Bar
Luka Bar**


AD MARINA BAR


Agentplus

www.mplmhcl.com