

XXIII INTERNATIONAL CONFERENCE ON
"MATERIAL HANDLING, CONSTRUCTIONS AND LOGISTICS"

MHCL 2019



SHANGHAI
MARITIME
UNIVERSITY

...organizers...organizers...

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MARITIME AND PORT LOGISTICS BAR CONFERENCE

1st - 2nd July, 2019

HOTEL PRINCESS - BAR MONTENEGRO

← Registration desk and conference room →

**MARL
CEN**
maritime
logistics
center

MedAMPL
Mediterranean
Association for
Maritime and
Port Logistics



Montenegro Ministry of Science

...co-organizers...

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AD MARINA BAR



PROGRAM

MARITIME AND PORT LOGISTICS BAR CONFERENCE

1st – 2nd July 2019
Bar, Montenegro

MHCL 2019 Conference, XXIII 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.

Day 1 (30th June 2019)

Time	Event	Venue
19:00 – 20:30	Registration	Hotel Princess Lobby
20:30 – 22:30	Welcome Reception	Hotel Princess Restaurant

Day 2 (1st July 2019)

Time	Event	Venue
09:00 – 10:00	Registration	Hotel Princess Lobby
10:00 – 10:30	Opening Ceremony	Hotel Princess Conference Room (HPCR)
10:30 – 11:00	Session 1	
11:00 – 11:50	Session 2	
11:50 – 12:20	Coffee break	Hotel Princess Lobby
12:20 – 13:20	Session 3	HPCR
13:20 – 14:30	Lunch	Hotel Princess Restaurant
14:30 – 16:30	Session 4	HPCR
16:30 – 17:00	Coffee break	Hotel Princess Lobby
17:00 – 19:15	Session 5	HPCR
20:00 – 22:00	Dinner	Hotel Princess Restaurant

Day 3 (2nd July 2019)

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 – 14:30	Lunch	Hotel Princess Restaurant
14:30 – 16:00	Session 8	HPCR
16:00 – 16:30	Coffee break	Hotel Princess Lobby
16:30 – 17:45	Session 9	HPCR
17:45 – 18:45	Closing Ceremony	HPCR
20:30 – 23:30	Gala Dinner	Hotel Princess Restaurant

Day 4 (3rd July 2017)

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 (1st July 2019, 10:00 – 10:30)

Opening Ceremony

Hotel Princess Conference Room

Topic: Opening Ceremony

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

- Short speech by Prof. Dr. Branislav Dragović
- Short speech by Prof. Dr. Nenad Zrnić, Vice Rector of the University of Belgrade
- Short speech by Prof. Dr. Gang Chen, China and Denmark
- Short speech by representative of the Montenegrin Ministry of Science
- Short speech by Major of the Bar town Municipality

Session 1 Program (1st July 2019, 10:30 – 11:00)

Session 1

Hotel Princess Conference Room

Topic: New Trends in Maritime and Port Logistics

Chairs: Prof. Dr. Nenad Zrnić and Prof. Dr. Branislav Dragović

- **Panellists** - Prof Dr. **Harilaos Psaraftis**, Technical University of Denmark; Prof. Dr. **Kap-Hwan Kim**, Pusan National University; Prof. Dr. **Zhongzhen YANG**, Ningbo University and Prof. Dr. **Meifeng Luo**, The Hong Kong Polytechnic University.
- **Discussions, comments and questions**

Session 2 Program (1st July 2019, 11:00 – 11:50)

Session 2

Hotel Princess Conference Room

Topic: Keynote presentations by Keynote Speakers

Chair: Prof. Dr. Gang Chen

1. A keynote presentation I: **SUSTAINABLE SHIPPING**, Prof Dr. **Harilaos Psaraftis**, Technical University of Denmark, Denmark
 2. A keynote presentation II: **IMPROVING HINTERLAND OPERATION AT CONTAINER TERMINALS BY UTILIZING VARIOUS INFORMATION ON ARRIVALS OF TRUCKS**, Prof. Dr. **Kap-Hwan Kim**, Pusan National University
- **Discussions, comments and questions**

Session 3 Program (1st July 2019, 12:20 – 13:20)

Session 3

Hotel Princess Conference Room

Topic: Keynote presentations by Keynote Speakers

Chair: Prof. Dr. Nenad Zrnić

1. A keynote presentation III: **ANALYZING THE TRADE TRANSPORTATION AND ITS DEMAND ON MULTI-MODE TRANSPORTATION SYSTEM BETWEEN CHINA AND KOREAS**, Prof. Dr. **Zhongzhen YANG**, Ningbo University, China
 2. A keynote presentation IV: **WILL LARGE SHIPS CALL MORE/FEWER PORTS - AN ECONOMIC MODEL ON LINERS' PORT CALL BEHAVIOR**, Prof. Dr. **Meifeng Luo**, The Hong Kong Polytechnic University
- **Discussions, comments and questions**

Session 4 Program (1st July 2019, 14:30 – 16:30)

Session 4

Hotel Princess Conference Room right side of the main entrance

Topic: Maritime Industry Session I with Invited Lectures

Chairs: Assistant Prof. Dr. Dong Yang and Prof. Dr. Qing Liu

1. **COMPETITION OF CONTAINER'S TERMINALS IN THE SOUTHEAST BALKAN REGION** by Prof. Dr. **Osman Metala**, Faculty of Professional Studies "Aleksander Moisiu" University Durrës, Albania
2. **ONSHORE POWER SUPPLY IN PORT, Invited Lecture** by Dr. **Thalis Zis**, Technical University of Denmark, Denmark
3. **PORT OF THE BAR PRESENTATION** by Prof. Dr. **Deda Djelović**
4. **SUPPLY CHAIN DISCOUNTS TO IMPROVE CAPACITY UTILIZATION IN RO-RO SHIPPING** by Dr. **Thalis Zis**, Technical University of Denmark, Denmark
5. **CEROVO COMPANY PRESENTATION** by **Emin Durakovic**, Executive Manager, Montenegro
6. **TAP PROJECT OPERATIONS MANAGEMENT AT THE EASTERN TERMINAL, PORT OF DURRES** by **Shpëtim Pupa**, Faculty of Professional Studies "Aleksander Moisiu" University Durrës, Albania
7. **ECONOMIC AND ECOLOGICAL ASPECTS OF ELECTRONIC TRANSPORTATION MANAGEMENT SYSTEMS IN SEAPORTS, Invited Lecture** by Prof. Dr. **Edvard Tijan**, University of Rijeka Faculty of Maritime Studies

Session 5 Program (1st July 2019, 17:00 – 19:20)

Session 5

Hotel Princess Conference Room right side of the main entrance

Topic: Maritime and Port Logistics I

Chair: Prof. Dr. Zhongzhen Yang

1. **GREEN LOGISTICS - THE CONCEPT OF ZERO EMISSIONS PORT BASED ON PSO** by Prof. Dr. **Nikitas Nikitakos**, University of Aegean, Greece
2. **OPERATION MODE DETECTION FOR OFFSHORE WORKING VESSELS BASED ON DATA-DRIVEN** by Prof. Dr. **Taoying Li**, Dalian Maritime University, China and Aalborg University, Denmark
3. **THE EFFECTS OF THE NAVAL PROFESSION ON THE SEAFARERS' MENTAL HEALTH** by Prof. Dr. **Nikitas Nikitakos**, Greece
4. **INTEGRATED BUNKER HEDGING AND CONSUMPTION OPTIMIZATION IN LINER SHIPPING UNDER MARITIME EMISSION REGULATIONS** by Prof. Dr. **Xiaolin Sun**, Shanghai Maritime University, China
5. **A PROPOSED SURVEILLANCE SYSTEM USING DRONE ON BOARD FOR PIRACY (Mass_DronP)** by Prof. Dr. **Nikitas Nikitakos**, Greece
6. **THE INFLUENCE OF EUROPEAN DIRECTIVES ON PORT MANAGEMENT OPTIONS** by **Panagiota V. Ntente**, PhD Candidate, University of Piraeus, Greece
7. **AN INNOVATIVE TOOL FOR THE FEASIBILITY EVALUATION OF LNG SUPPLY CHAINS WITH THE USE OF SIMULATION TECHNIQUES. CASE STUDY ON SMALL SCALE LNG SUPPLY CHAINS FOR INSULAR REGIONS,** by **Dimitrios Konstantinidis**, National Technical University of Athens, Greece

- Discussions, comments and questions after each presentation

Session 6 Program (2nd July 2019, 9:00 – 11:00)

Session 6

Hotel Princess Conference Room right side of the main entrance

Topic: Maritime and Port Logistics II

Chair: Prof. Dr. Kap-Hwan Kim

1. **COMPETITION OR COOPERATION? PORTS' STRATEGIES AND REGULATION IN A SHIPPING ALLIANCE ERA** by Prof. Dr. **Shiyuan Zheng**, Shanghai Maritime University School of Transportation, China
2. **HONG KONG INTERNATIONAL SEAPORT TERMINAL COMPETITION: FROM INTERNAL TO EXTERNAL** by Assistant Prof. Dr. **Dong Yang**, Hong Kong Polytechnic University Department of Logistics and Maritime Studies
3. **CONTAINER TERMINAL PRICING DECISION WITH DEMAND FORECAST UPDATING** by Prof. Dr. **Zui Xu**, Shanghai Maritime University Faculty of Transport and Communications, China
4. **A MATHEMATICAL FRAMEWORK FOR CONTAINER TERMINAL AND LINER SHIPPING COMPANIES COOPERATION AND COMPETITION** by **Karlis Pujats**, University of Memphis, USA
5. **REVISITING COOPERATION MATRIX FOR CLASSIFYING CASES OF PORT COOPERATION – CASE STUDY: NORTH ADRIATIC PORTS** by **Kristijan Stamatović**, University of Ljubljana Faculty of Economics, Slovenia
6. **AN ANALYSIS OF SPECIFIC COST RATIO IN A PORT CONCERNING $M/M/n_b$ QUEUE MODEL** by **Marko Mikijeljević** and Prof. Dr. **Branislav Dragović**
7. **A STUDY OF SHIP TRAFFIC IN PORT USING A QUEUING APPROACH** by **Marko Mikijeljević** and Prof. Dr. **Branislav Dragović**, Montenegro

- Discussions, comments and questions

Session 7 Program (2nd July 2019, 11:30 – 13:30)

Session 7

Hotel Princess Conference Room right side of the main entrance

Topic: Maritime and Port Logistics III

Chair: Prof. Dr. Meifeng Luo

1. **ANALYSIS OF THE POTENTIAL OF SERBIA TO TRANSPORT CONTAINERS ON DANUBE** by Prof. Dr. **Nenad Zrnić**, University of Belgrade, Serbia
2. **A SIMULATION ANALYSIS OF OCEAN CONTAINER FREIGHT RATES USING A SYSTEM DYNAMICS MODEL** Prof. Dr. **Qing Liu** and **Luqi Ke**, University of Hamburg, Germany
3. **A STRATEGIC INNOVATION FRAMEWORK FOR MARITIME CLUSTERS** by **Peter J. Stavroulakis**, University of Piraeus & The American College of Greece
4. **MULTI-CRITERIA ANALYSIS AS DECISION SUPPORT SYSTEM DURING THE DESIGN OF INTERMODAL CONTAINER TERMINALS** by **Julia Garcia de la Santa Ramos** and **Africa Marrero**, CENIT group at CIMNE, Spain
5. **A UNIVERSAL ISLAND-BASED METAHEURISTIC FOR EFFECTIVE BERTH SCHEDULING** by **Masoud Kavooosi**, Assistant Prof. **Maxim A. Dulebenets**, FAMU-FSU College of Engineering, USA and **Marko Mikijeljević**
6. **ON SPECIFIC COST RATIO IN A PORT MODELLED AS $M/G/1$ QUEUE** by **Dražen Dragojević**, MSc and Prof. Dr. **Branislav Dragović**, Montenegro

- Discussions, comments and questions after each presentation

Session 8 Program (2nd July 2019, 14:30 – 16:00)

Session 8

Hotel Princess Conference Room right side of the main entrance

Topic: Maritime Industry Session II with Invited Lectures

Chairs: Prof. Dr. Branislav Dragović and by Prof. Dr. Radovan Orlandić

1. **DIGITALIZATION OF SHIPPING OPERATIONS, Invited Speaker**, Prof. Dr. **Gang Chen**, Shanghai Maritime University and Aalborg University
2. **AGENT PLUS PRESENTATION** by **Kenan Perazić**, General Manager in Bar
3. **IMPORTANCE OF UNIVERSITIES IN TECHNOLOGY TRANSFER PROCESS, Invited Lecture** by **Petra Karanikić**, University of Rijeka, Croatia
4. **SUSTAINABLE MARINA CONCEPT, CASE STUDY: MARINA BAR** by Prof. Dr. **Radovan Orlandić** and **Zdravko Paladin**, MSc, Montenegro
1. **DECREASING THE CARBON FOOTPRINT OF MARITIME TRANSPORT – A CRITICAL ANALYSIS OF MONITORING, REPORTING AND VERIFYING METHODS OF CO2 EMISSIONS FROM SHIPS** by **Michael Boviatsis**, University of Piraeus, Department of Maritime Studies, Greece
5. **SUSTAINABLE DEVELOPMENT IMPROVEMENTS AND ENVIRONMENTAL MANAGEMENT TRENDS WITH REGARDS TO AD MARINA BAR** by Prof. Dr. **Radovan Orlandić** and **Zdravko Paladin**, MSc, Montenegro
6. **ENVIRONMENTAL MANAGEMENT INSTRUMENTS AND IMPROVEMENT OF MARINA PERFORMANCE – CASE STUDY: AD MARINA BAR** by Prof. Dr. **Radovan Orlandić** and **Zdravko Paladin**, MSc, Montenegro
7. **POTENTIALITY AND LIMITS OF ANALYTICAL QUEUEING NETWORKS FOR OPERATIONS MODELING IN PORT LOGISTICS** by Prof. Dr. **Pasquale Legato**, University of Calabria, Italy

- Discussions, comments and questions after each presentation

Session 9 Program (2nd July 2019, 16:30 – 17:45)

Session 9

Hotel Princess Conference Room

Topic: Maritime and Port Logistics IV

Chair: Prof. Dr. Jing Dai

2. **MEASURING THE OPERATIONAL EFFICIENCY OF PORT: SHANDONG VS OTHER REGIONS IN CHINA** by Prof. Dr. **Jingci Xie**, Shandong University, School of Management, China
3. **FLOATING STORAGE REGASIFICATION UNITS – THE CASE OF ALEXANDROUPOLI GREECE** by **Michael Boviatsis**, University of Piraeus, Department of Maritime Studies, Greece
4. **SHORT SEA SHIPPING: AN ANALYSIS OF EUROPEAN PROMOTION PROGRAMMES FROM 2005 TO 2015** by (Presenters **Julia Garcia de la Santa Ramos** and Africa Marrero), CENIT group at CIMNE, Spain
5. **MODELLING OF THE LOADING PROCESS AT SEASIDE LINK IN PORT: CASE STUDY OF SEAPORT AUTOMOBILE TERMINAL** by Prof Dr. **Romeo Meštrović** and Prof. Dr. **Branislav Dragović**, Montenegro
6. **SOME FURTHER CONSIDERATION OF MODELING PROCESS AT THE SEAPORT AUTOMOBILE TERMINALS** by Prof Dr. **Romeo Meštrović** and Prof. Dr. **Branislav Dragović**, Montenegro

7. **PROGRAMME SOLUTION FOR ANALYSING EUROSTAT MARITIME TRANSPORTATION DATA** by Prof. Dr. **Elen Twrdy**, University of Ljubljana, Slovenia
8. **EVALUATION ON TECHNOLOGICAL INNOVATION CAPABILITY OF LISTED ENTERPRISES: A CASE OF TERMINAL OPERATORS IN MAINLAND CHINA** by Prof. Dr. **Xin Zhou**, Shanghai Maritime University, China
9. **TIME ESTIMATION OF CONTAINER HANDLING AND YARD ARRANGEMENT WITH BERTH UTILIZATION EFFICIENCY** by Prof. Dr. **Etsuko NISHIMURA**, Kobe University, Japan

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

Closing Ceremony Program (2nd July 2019, 17:45 – 18:45)

Closing Ceremony

Hotel Princess Conference Room

Topic: Closing Ceremony

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

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

Organizers Prof. Dr. Gang Chen and Assistant Prof. Dong Yang;

Panellists

- **Prof. Dr. Nenad Zrnić**
- **Prof. Dr. Zhongzhen Yang**
- **Prof. Dr. Meifeng Luo**
- **Prof. Dr. Shiyuan Zheng**
- **Prof. Dr. Qing Liu**
- **Prof. Dr. Jing Dai**

- Short speech by Prof. Dr. Branislav Dragović

- Short speech by Prof. Dr. Nenad Zrnić, Vice Rector of the University of Belgrade

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

Presentation Technique

All papers and presentation must be presented in English.

The 15 minutes for presentation and the 5 minutes for discussion.

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.



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on Material Handling, Constructions and Logistics**

MARITIME AND PORT LOGISTICS PROGRAM BAR CONFERENCE

Organizers:



TECHNISCHE
UNIVERSITÄT
WIEN
Vienna University of Technology



UNIVERSITY OF
BELGRADE
FACULTY OF MECHANICAL
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