

# MHCL 2024

<http://www.mhcl.info>

## XXV International Conference on Material Handling, Constructions and Logistics July 1<sup>st</sup> – 3<sup>rd</sup> & September 18<sup>th</sup> – 20<sup>th</sup>, 2024

Institute for Engineering Design and Logistics Engineering Vienna University of Technology  
(TU Wien), Austria together with Department of Material Handling, Constructions and Logistics,  
Faculty of Mechanical Engineering, University of Belgrade, Serbia

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### CALL FOR PAPERS – Special Session MARITIME AND PORT LOGISTICS – Bar Conference and Wien Conference

**Time:** July 1<sup>st</sup> – 3<sup>rd</sup>, 2024, Bar (Montenegro), **Hybrid Conference**  
September 18<sup>th</sup> – 20<sup>th</sup>, 2024, Wien (Austria), **Physical attending**

**Theme:** **Sustainable and Smart Maritime and Port Logistics**

MHCL 2024 is organized by the Engineering Design and Logistics Engineering, Vienna University of Technology (TU Wien), Austria together with the Department of Material Handling, Constructions and Logistics, Faculty of Mechanical Engineering, University of Belgrade, Serbia. It will be held in Wien (Austria) from 18<sup>th</sup> to 20<sup>th</sup> September 2024. For further information, please visit the conference website <http://www.mhcl.info>

The area of MHCL is gaining new momentum at the beginning of 21<sup>st</sup> century. Modern handling and logistics systems and machinery employ today advanced technologies that require deep interdisciplinary expertise for successful implementation. The conference will host a variety of contributed and invited plenary papers. Since 2009, MHCL Conference has been organizing a **Special Session E: Maritime and Port Logistics (MPL)**, which plays a vital role in the global transportation systems.

This year the Maritime and Port Logistics special session, with the theme of **Sustainable and Smart Maritime and Port Logistics**, will be organized as two parts again:

1. Bar Conference (Montenegro) from 1<sup>st</sup> to 3<sup>rd</sup> July 2024, **The First Part - Hybrid Conference**, and
2. Wien Conference (Austria) from 18<sup>th</sup> to 20<sup>th</sup> September 2024, **The Second Part - Physical attending**.

### Call for Papers for the Bar Conference

On behalf of the Organizing Committee of the MHCL 2024, we are happy to invite you to send us a paper for the **First Part** of the MPL Special Session.

**1) Papers from the First Part of the MPL (1<sup>st</sup> to 3<sup>rd</sup> July 2024, Bar Conference) will be printed in separate Proceedings of MHCL 2024 as hard copy and on CD-ROM in electronic form. Selected papers duly presented during Conference (about 10 papers, requirement for extended version of the papers), will be further screened and after peer review, will be published in issues of the following international journals:**

- **FME Transactions (indexed by SCOPUS)**  
<http://www.mas.bg.ac.rs/istrazivanje/fme/start>  
<http://www.scimagojr.com/journalsearch.php?q=21100199778&tip=sid&exact=no>
- **Journal of Applied Engineering Science (indexed by SCOPUS)**  
<https://www.engineering-science.rs/>  
<http://www.scimagojr.com/journalsearch.php?q=4100151613&tip=sid>

### Call for Papers for the Wien Conference

On behalf of the Organizing Committee of the MHCL 2024, we are happy to invite you to send us a paper for the **Second Part** of the MPL Special Session.

**2) Papers from the Second Part of the MPL (18<sup>th</sup> to 20<sup>th</sup> September 2024, Wien, Austria) will be printed as integral part of the Proceedings of MHCL 2024 as hard copy and on CD-ROM in electronic form.**

Selected papers duly presented during First and Second Parts of the MPL (about 15 papers, requirement for extended version of the papers), will be further screened and after peer review, will be published in Special issues of the following international journals:

- **FME Transactions (indexed by SCOPUS)**  
<http://www.mas.bg.ac.rs/istrazivanje/fme/start>  
<http://www.scimagojr.com/journalsearch.php?q=21100199778&tip=sid&exact=no>
- **Journal of Applied Engineering Science (indexed by SCOPUS)**  
<https://www.engineeringscience.rs/>  
<http://www.scimagojr.com/journalsearch.php?q=4100151613&tip=sid>

**Papers must be submitted in the English language only.** The final paper must be camera-ready format in Word according to the *Conference Paper Template*.

We are looking forward to receiving your contributions covering any theoretical or practical aspect of **Maritime and Port Logistics**, and looking forward to seeing you the first time in **Belgrade (Serbia)** and the second time in **Bar (Montenegro)** this year!

### Topics

Potential topics include, but are not limited to:

- Sustainable Maritime and Port Logistics
- Smart Maritime and Port Logistics
- Intelligent Maritime and Port Logistics Systems
- Scheduling in Maritime and Port Logistics
- Maritime and Port Logistics 4.0 and 5.0
- Optimization Modeling and Simulation of Ships' Routeing
- Optimization Modeling and Simulation of Ships Time in Port
- Maritime and Port Logistics Informatics and Analytics
- Artificial Intelligence Solution for Maritime and Port Logistics
- Use Big Data in Maritime and Port Logistics
- Maritime and Port Logistics Modelling and Simulation
- Technologies and Research in the Container Terminals
- Digitalization in Maritime and Port Logistics
- IoT/IIoT System/Software for Maritime and Port Logistics
- Data Science and IT-technologies in Maritime and Port Logistics
- Cloud Systems in Maritime and Port Logistics
- Business Processes Innovation in Maritime and Port Logistics
- Blockchain Technology for Maritime and Port Logistics Capability
- Digital Twins for Maritime and Port Logistics
- Automation and robotics in Maritime and Port Logistics

### Key dates for the First Part of the MPL in Bar, Montenegro on 1<sup>st</sup> – 3<sup>rd</sup> July 2024

**June, 1<sup>st</sup> 2024** Submission of camera ready papers according to attached Template **directly on the following email address** [branod1809@gmail.com](mailto:branod1809@gmail.com)

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**June, 10<sup>th</sup> 2024** Notification of full paper acceptance (an email message will be sent to authors)

### Key dates for the Second Part of the MPL in Wien, Austria on 18<sup>th</sup> - 20<sup>th</sup> September 2024

**August 10<sup>th</sup> 2024** Submission of camera ready papers according to attached Template **directly on the following email address** [branod1809@gmail.com](mailto:branod1809@gmail.com)

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**August 20<sup>th</sup> 2024** Notification of full paper acceptance (an email message will be sent to authors)

### Special Session organizers

**Prof. Dr. Branislav Dragović**, Maritime Faculty Kotor, University of Montenegro (Email: [branod1809@gmail.com](mailto:branod1809@gmail.com))

**Prof. Dr. Gang Chen**, World Maritime University, Shanghai Maritime University, China (E-mail: [gc@wmu.se](mailto:gc@wmu.se))

**Prof. Dr. Stratos Papadimitriou**, Department of Maritime Studies, University of Piraeus (Email: [stratos@unipi.gr](mailto:stratos@unipi.gr))

### Some Relevant Information:

- Please contact us directly when you need an invitation letter for a visa application.
- We will also organize some local tours for you and your family, please find below some photos of beautiful Montenegro.
- The four aforementioned special issues will be open for selected papers (about 15 papers, required for extended version). We invite you to submit papers to this session. The papers should be submitted to the email address [branod1809@gmail.com](mailto:branod1809@gmail.com). We look forward to seeing you in Bar and Belgrade!

### About Montenegro

Montenegro is a country in Southeastern Europe on the Adriatic Sea. It borders Bosnia and Herzegovina to the north; Serbia to the east, Albania to the south and Croatia to the west. Montenegro has an area of 13,812 square kilometers and a population of 678,901. Its capital Podgorica is one of the twenty-three municipalities in the country. Cetinje is designated as the Old Royal Capital.

The country's name derives from Venetian and translates to "Black Mountain", deriving from the appearance of Mount Lovćen when covered in dense evergreen forests. The native name Crna Gora came to denote the majority of contemporary Montenegro only in the 15th century.



Skadar Lake close to Bar



Venue of Second Day of the Bar Conference on the Skadar Lake Side



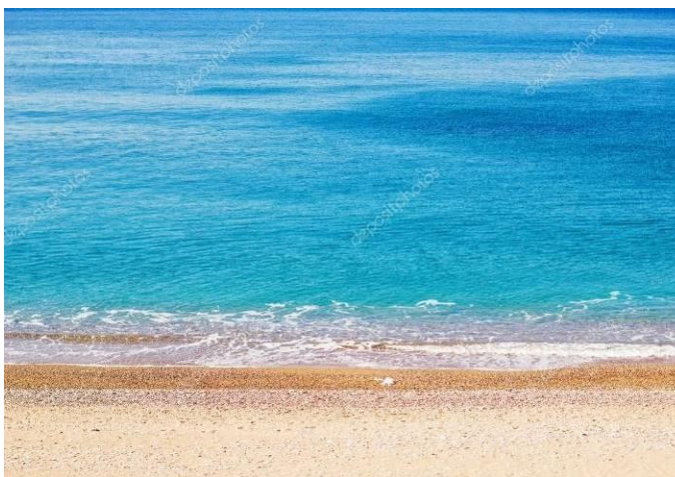
**Oldest Olive Tree in Europe**



**Old City of Bar, very near to downtown**



**The City of Bar (View from the Sea)**



**Some of the beautiful natural sandy beaches in Bar and surrounding Bar  
(Summer season since 1st May to 1st October)**



**Orthodox Church of Saint Jovan Vladimir in Bar, Montenegro**



**Catholic Church of St. Peter the Apostle, Bar, Montenegro**



**Mosque in Bar, Montenegro**



**The Bay of Boka Kotorska with shore side around 100 km long - 50 km away from Bar**



**The City of Ulcinj – Tourist Resort (20 km away from Bar - south)**



**The City of Budva – Leading Tourist Resort (20 km away from Bar - north)**