

İTÜ



FACULTY OF  
MARITIME



*International Maritime  
Lecturers Association*



THE  
**29<sup>th</sup>**  
INTERNATIONAL  
**MARITIME LECTURERS ASSOCIATION  
(IMLA)**  
CONFERENCE

**September 25-28, 2024**

ITU Maritime Faculty & Piri Reis University

*Istanbul*

Venue: Green Park Hotel and Convention Center

**SCIENTIFIC PROGRAM**

**UZMAR<sup>®</sup>**



# WEDNESDAY, SEPTEMBER 25

08:00 – 09:15 REGISTRATION | 

09:15 – 09:25 WELCOME SPEECH – CONFERENCE CHAIRS | MAIN HALL

**Prof. Dr. Özcan Arslan**, Dean, Istanbul Technical University, Maritime Faculty  
**Prof. Dr. Nafiz Arica**, Rector, Piri Reis University

09:30 – 10:00 OPENING CEREMONY | MAIN HALL

IMLA Honorary Chair **Prof. Dr. Alison Noble**  
Honorary Secretary **Prof. Xin Shi**  
Chamber of Shipping  
Istanbul Technical University Rector **Prof. Dr. Hasan Mandal**

10:00 – 10:40 KEYNOTE SPEAKERS | MAIN HALL

**Prof. Dr. Jin Yongxing**  
Challenges and opportunities of maritime education and training in the context of maritime digitalization and decarbonization

---

**Prof. Dr. Hercules Haralambides**  
Maritime Corridors: A New Definition of Distance in Seaborne Trade

10:40 – 11:00 COFFEE BREAK | 

11:00 – 12:00 KEYNOTE SPEAKERS | MAIN HALL

**Dr. Özkan Poyraz**  
In maritime education, the only constant is change itself

---

**Dr. Christos Kontovas**  
GHG Emissions from Shipping: Where We Are and Where We're Going

---

**Prof. Dr. Dong Wook Song**  
Maritime Lecturers as Researchers

12:00 – 12:10 GROUP PHOTO | 

12:10 – 13:30 LUNCH | 

CHAIR: Prof. Dr. Xin Shi

**DECARBONIZATION & ENERGY MANAGEMENT in MARITIME**Effects of Limitations on Decarbonization in Maritime Industry: A Review Study in Terms of Energy Efficiency – **Aslı Öztoprak, Tanzer Satır**Assessment of Emission pollution from container ships for The Traditional International Route – **M. Ziya Sogut, Funda Yercan**Decarbonizing Philippines' domestic shipping: Rapid assessment and roadmap development towards zero carbon in 2050 – **Mao Tze Bayotas**Engine exhaust heat-driven cooling system in a maritime education campus: A case study of Piri Reis University – **Cüneyt Ezgi**Application of Operational Energy Efficiency Techniques for Reducing CO2 Emissions and an Investigation of the Economic Impact for Tanker Vessels – **Atıl Talay, Anthony Nigro**

CHAIR: Dr. Takeshi Nakazawa

**ENGINE ROOM SIMULATOR**How next generation can develop skills to meet the green shift – **Tormod Nordeng**An Optimized Ship Engine Room Simulator Configuration for an Effective Engine Room Resource Management Training – **Ismail Cicek, Burak Cavusoglu**Methodology For Assessing Exercises On A Ship'S Engine Room Simulator in The Education Process At The Faculty of Marine Engineering of The Maritime University of Szczecin, Poland – **Jan Drzewieniecki, Przemysław Kowalak, Jarosław Myskow**A Study on the Design of a Multi-purpose, Effective Ship Engine Room Simulator – **Tolunay Kayaarasi**Simulators and the Human Element – **Quentin Cox**

CHAIR: Prof. Dr. Özcan Arslan

**MARITIME EDUCATION & TRAINING (MET)**The Importance of Interdisciplinary Education in the Design of Floating Structures: Naval Architecture and Marine Engineering and Architecture Cooperation – **Yasemin Arıkan Özden, İbrahim Başak Dağgülü**Challenges and opportunities of maritime education and training (MET) in the context of maritime digitalization and decarbonization – **Yongxing Jin, Yuli Chen, Yang Sun**Implementation of Mechatronic Systems Teaching in Undergraduate (Bachelor) and Master's Degree Programs – **Maia Tugushi, Mikheil Lezhava, Zaza Shubladze, Tamila Mikeladze**Charting a Course for Comprehensive Education of Future Seafarers through Enhanced Academic Proficiency – **Anca Sirbu, Simona Elena Dinu, Sabina Zagan, Irina Stanciu, Florenta Memet, Vlad Augustin Vulcu**

CHAIR: Prof. Dr. Funda Yercan

**MARITIME HUMAN RESOURCES**The innovation culture as a factor for sustainable development of the maritime sector – **Kameliya Narleva, Yana Gancheva**Employee Responses to Organizational Commitment, Job Satisfaction, and Work Involvement in Ship Agency Companies – **Retno Sawitri Wulandari, Vidya Selasdini**The Global Maritime Citizenship Program: Integration of the GCED Framework to the BoK-STCW-TRB Learning Outcome Matrix for BS Marine Engineering Program – **Mao Tze Bayotas**Challenges of Maritime Eco Port and its Human Resources in Indonesia: Overview of Current and Future Action – **Vidya Selasdini, A A Priadi, Retno Sawitri Wulandari**

16:15–17:15 • PARALLEL SESSION | A HALL

CHAIR: Prof. Dr. Jin Yongxing

**MARITIME ENGLISH & COMMUNICATION**

Sometimes Chat GPT is as confused as I am: a preliminary examination of the role of AI in Maritime English education – **Alison Noble, Pieter Decanq**

Exploring cadet's engagement and cadet's response in using marlins synchronous model in an Indonesian Maritime higher education – **Sunarla Limbong**

Evaluation of English Maritime Document Translation Accuracy into Japanese by ChatGPT, Google Translate and DeepL – **Naoyuki Takagi, Kimihiko Kimura**

Soft Skills for Maritime English Students: Possibility versus Necessity – **Valentyna Kudryavtseva, Svitlana Barsuk, Olena Frolova**

16:15–17:15 • PARALLEL SESSION | B HALL

CHAIR: Alain Brillault

**MARITIME EDUCATION & TRAINING (MET)**

Learner Viewpoint on Maritime A.I. and Autonomous Ships – **Herbert Angeles, Edlyne Fabian-Perona**

Users' Evaluation On The Effectiveness of The Innovative Learning Resource Online Platform In A Developing Country – **Abcede Bangalisan II**

Reshaping Maritime Education and Training with a Circular Economy Perspective – **Pinar Özdemir, Taner Albayrak**

Maritime Education: A critical approach to build capacity for maritime decarbonization – **Xin Shi, Yingming Wang, Jian Zheng**

17:30–18:45 • PARALLEL SESSION | A HALL

CHAIR: Prof. Dr. Alison Noble

**MARITIME EDUCATION & TRAINING (MET)**

Technical Progress in the Maritime Industry and the Challenges of the Vocational Education – **Maia Tugushi, Gocha Gogitidze, Firuza Varshanidze, Svetlana Rodinadze, Luiza Sikharulidze**

Developing Marine Engineering Technology Curriculum to Meet Future Workforce Needs – **Alok Verma, Vanicha McQueen, Paul Potier, Irfan Khan, Andrew Moore**

Integrating 21st Century skills into STCW competences: Implications for Maritime Education and Training – **Anne Pazaver, Momoko Kitada**

A Study on Sustainable Maritime Education and Training Infrastructure – **Tolunay Kayaarasi**

Web-based route planning training practices – **Haiyan Yu, Lennart Cederberg, Qinyou Hu**

17:30–18:45 • PARALLEL SESSION | B HALL

CHAIR: Prof. Dr. Alison Noble

**MARITIME POLICY & STRATEGY**

System Dynamics Modeling for Addressing Port Congestion in Global Trade – **Umud Taç, Pelin Bolat, Funda Yercan**

Risk Assessment of the Turkish Straits for Service Providers Using the FCM – **Arda Akyüz, Muhittin Orhan, Furkan Gümüş, Özcan Arslan**

Ecological Monitoring of Ajara Coastline Using Drone – **Mzia Diasamidze, Ana Shotadze**

Considerations on the United Nations Convention on the International Effects of Judicial Sales of Ships – **Oana Adascalitei**

A Systematic Literature Review on Technological Trends in the Maritime Industry – **Muhammed Fatih Gülen, Özcan Arslan**



**29<sup>th</sup> IMLA**  
CONFERENCE

*Istanbul*  
SEP. 2024



# THURSDAY, SEPTEMBER 26

**09:00 – 10:30 WORKSHOP: MARITIME INDUSTRY MEETING | MAIN HALL**

MODERATOR: **İbrahim Kontaytekin**, Turkish Shipowners' Association Deputy Chair, ARKAS Shipping Deputy Chair

- **Takeshi Nakazawa**, IMLA Committee Member
- **İsmail Şahin**, Ship Brokers Association Chair
- **Özgür Alemdağ**, Maritime Trainer
- **Altan Yavaş**, SimBT
- **Emre Ersoy**, ErsoyBilgehan Lawyers & Consultants
- **Tunç Taner**, Havelsan

**10:30 – 10:50 COFFEE BREAK** ☕

**10:50–11:50 • PARALLEL SESSION | A HALL**

CHAIR: Prof. Dr. Michael Baldauf

## NAVIGATION SIMULATORS

Determining the Basic Procedures to Benefit from Simulators in Training the Watchkeeping officer Candidates on COLREG Rules – **Murat Saka**

New generation navigation simulator – **Nikolay Bedzhev**

Research on the operation simulator for wind turbine installation vessel and its training scheme – **Jinbiao Chen, Xin Ran, Shijun Ying, Keping Guan**

Simulating mixed traffic scenarios for training of operators in shore-based ROC and VTS – **Michael Baldauf, Daniel Rostek, Gianiti Claresta**

**10:50–11:50 • PARALLEL SESSION | B HALL**

CHAIR: Dr. Christos Kontovas

## MARITIME EDUCATION & TRAINING (MET)

MAAP MET Digital Green Transition: The Green Skills Academy – **Michael Amon, Eduardo Ma. Santos, Gerardo Ramon Galang, Jeppe Carstensen, Mikkel Hansen**

Solving the Difficulties Encountered in Finding a Ship for Sea Training – **Ergün Demirel**

AutoMareEduNet Project and pedagogical choices for MET relating to autonomous shipping – **Peter Sandell**

MARLSD Project: Incorporating Learning Station Design for Maritime Education and Training – **Emre Düzenli, Gizem Kayisoglu, Pelin Bolat, Ozcan Arslan, Teona**

**10:50–11:50 • PARALLEL SESSION | C HALL**

Assoc. Prof. Alcino Ferreira  
**WORKSHOP**

Threat on board! A maritime Escape Game for learning – **Assoc. Prof. Alcino Ferreira**

**11:50 – 13:00 LUNCH** 🍴

**13:00–14:00 • PARALLEL SESSION | A HALL**

CHAIR: Quentin Cox

## NAVIGATION SIMULATORS



**13:00–14:00 • PARALLEL SESSION | B HALL**

CHAIR: Prof. Dr. Naoyuki Takagi

## MARITIME ENGLISH & COMMUNICATION



**13:00–14:00 • PARALLEL SESSION | C HALL**

CHAIR: Prof. Alok Verma

## MARITIME EDUCATION & TRAINING (MET)



A Novel Energy Efficiency Management Simulator: Development And Application – **Xiangming Zeng, Xin Shi, Chunchang Zhang, Liu Yang, Xian Wang**

Ship Communication With Bridge Simulator: A Maritime English Integrated Skills Approach – **Ahmad Fauzi**

Remote Operations Simulation: The ROC Simulator and the Future of Simulator Training in Maritime Education and Training – **Gerardo Ramon Galang**

Complex maritime traffic, complex maritime simulation – Connecting full-mission Ship-handling and full mission VTS-Simulation – **Michael Baldauf, Xiaoning Shi, Elif Bal Besikci**

Intercultural Awareness and Intercultural Development of Cadets – **Müjgan Özenir, Maria Kristina B. Javellana**

Research Topics and Development of Green Shipping Based on LDA Topic Model – **Xian Wang, Xiangming Zen, Yuli Chen**

Qualitative Case Study of Lecturer's Adaptive Skills towards Future Maritime Specialists – **Zofia Edelman-Łubian, Aleksandra Mańkowska**

Empowering EFL Learners through digital Storytelling (based on the BSMA experimental study) – **Natia Vasadze, Tamari Dolidze, Sopiko Dumbadze**

Development and Assessment of the Soft Skills in Maritime Education and Training – **Ergün Demirel**

Gender Equality Promotion For Effective Global Maritime Education Concept – **Zurab Bezhanovi, Tamila Mikeladze, Svetlana Rodinadze, Kristine Zarbadoia, Medea Abashidze, Kristine Iakobadze**

Preparing Maritime Cadets for Applying Artificial Intelligence in Maritime Education – **Qi Chen**

Implementation of a Lightboard Studio in MET – A case study at Jade University of Applied Sciences – **Laurentiu Chitoroiu, Georgios Athanassiou, Jan Wegener, Lina van Elten**

**14:00 – 14:20 COFFEE BREAK** ☕

**14:20-15.20 • PARALLEL SESSION | A HALL**

CHAIR: Michael Amon

### **MARITIME ENGLISH & COMMUNICATION**

The Wording of IMO Model Courses – Similarities and Differences – **Zorica Đurović**

Deliberate pragmatic omissions in maritime VHF communications – **Jana Kegalj**

Exploring the Role of English in Constructing Professional Identity of Indonesian Seafarers on Multicultural Ships: Challenges and Strategies – **Purnama NF Lumban Batu, Wida Cahyaningrum, Peter Björkroth**

DigiMar Project Presentation: Compiling Authentic Routine VHF Maritime Communication Database – **Sandra Tominac Coslovich, Jana Kegalj**

**14:20-15.20 • PARALLEL SESSION | B HALL**

CHAIR: Anna Pavazer

### **MARITIME ENGLISH & COMMUNICATION**

Characteristics of Filipino Cadets' English: The Inter-language variation among Filipino languages – **Kimihiko Kimura**

Immersing Culturally and Embracing Diversity for a Better Me: The Intercultural Experiences of Selected Maritime Cadets – **Caroline Dacwag-Balila**

Teaching Maritime English (ESP) as an interdisciplinary principle: are instructors actually becoming learners before they effectively teach their learners? – **Sofia Koutsogianni**

Software Development For Vocabulary Training in The Esp Course: Telegram Chat-Bot For Maritime English – **Viacheslav Lanin, Svetlana Strinyuk**

**14:20-15.20 • PARALLEL SESSION | C HALL**

### **CHAIR : Assoc. Prof. Dr. George Gabedava MARITIME EDUCATION & TRAINING (MET)**

Philippine Maritime Education and Training Standards on Examination and Assessment – **Rodolfo Paiso, Shermiruz Paiso**

Ship Electronics Training and Design of Automatic Ship Control Systems with Python: Changing Trends and Future Perspectives – **Zuhaf Er**

Are You Simulator Literate? A Study of Maritime Communication Competence In The Full Mission Bridge Simulator – **Trude Amundsen, Alison Noble**

Maritime Psychology – an integrated training approach – **Postolache Octavian**

29<sup>th</sup> IMLA  
CONFERENCE

*Istanbul*  
SEP. 2024





15.20 – 16.15 **IMLA AGA MEETING** | MAIN HALL

16:15 – 19:00 **BUS TRANSPORTATION TO YACHT DINNER** | 

19:00 **YACHT DINNER** |   
Media Competition Awards

## FRIDAY, SEPTEMBER 27

08:30–09:00 **BUS TRANSPORTATION FROM HOTEL TO UNIVERSITIES** | 

09:00–10:30 **ITU MARITIME FACULTY**

10:30–12:20 **PIRİ REİS UNIVERSITY**

12:20–12:40 **BUS TRANSPORTATION FROM UNIVERSITIES TO HOTEL** | 

12:40 – 13:40 **LUNCH** | 

13:40–14:40 • **PARALLEL SESSION** | A HALL

CHAIR: Dr. Yuli Chen

### MARITIME RULES & REGULATIONS

Comparative Analysis of International and Turkish National Regulations on Marine Pollution Incident Response and Cooperation – **Cihat Aşan**

The Impact of Carbon Emission Reduction Regulations on Shipping in Maritime Trade Contracts – **Hakan Muran**

Evaluation of Seafarers' Annual Paid Leave Rights Within The Scope of Maritime Labour Law No. 854 And Maritime Labour Convention (MLC-2006) – **Ugur Tulu**

Quantitative Analysis of Oil Record Book Deficiencies: Insights from the Paris MOU Database via the Analytic Hierarchy Process – **Umüt Taç, Pelin Bolat, Firat Bolat**

13:40–14:40 • **PARALLEL SESSION** | B HALL

CHAIR: Prof. Dr. Levent Kirval

### MARITIME STUDIES: SAFETY & SECURITY

Jurisdiction of Coastal States in Marine Accidents/Incidents Occurring in International Maritime Areas – **Burak Yolyapan, Levent Kirval**

Navigating Clear Waters: Understanding Language Challenges and Improving Maritime Safety through Linguistic Insights – **George Gabedava, Yanming Hu**

A Comparative Evaluation of AIS-Data Driven Seq2Seq LSTM with Luong Attentions for Ship Trajectory Prediction – **Fusun Er, Yildiray Yalman**

Modelling cavitation in a Venturi nozzle of different sizes: A Study in the Context of Ship Ballast Water Treatment – **Cvetelina Velkova, Radoslav Momchilov, Ilian Kurtev**

Ship Collision Avoidance Using AI Approaches – **Prasheet Mishra, Sunil Kumar Mohapatra, Vik Patra, Pritam Pattanaik, Funda Yercan**

13:40–14:40 • **PARALLEL SESSION** | C HALL

CHAIR: Prof. Dr. Pinar Özdemir

### MARITIME POLICY & STRATEGY

Formation of Human Resources within the Framework of the Gender Policy of the Maritime Industry – **Olena Sienko, Maryna Chesnokova, Maryna Chesnokova**

Turkey's Maritime Policies: Horn of Africa (Somalia) Example – **Muhsin Kadioglu**

Time budget for watch handover – preliminary results of senior officers' survey – **Kamil Formela, Krzysztof Wróbel, Paweł Kolakowski, Mateusz Gil**

The Current Crucial Maritime Conflicts and Their Impacts on The Maritime Areas – **Begum Muftuoglu**

System Dynamics Modelling of Maritime Ghg Emission Measures Impact Assessment – **Selen Uygur, Pelin Bolat**

14:40 – 15:00 COFFEE BREAK ☕

15:00–16:15 • PARALLEL SESSION | A HALL

CHAIR: Prof. Dr. Mehmet Ziya Söğüt  
**DECARBONIZATION & ENERGY  
MANAGEMENT in MARITIME**

Greenport Alliances: Reducing the GHG Emissions  
in Seaports – **Kenan Tata, Tutku Eker İşçioğlu,  
Hüseyin Gençler, M. Taner Albayrak**

Re-emergence of Nuclear Power for Merchant  
Ships and Potential Reflections on Marine  
Engineering Education – **Deniz Ünsalan,  
Volkan Varışlı**

Towards Green Shipping: A Dynamic Approach  
for Operational Efficiency Improvement Using  
Historical AIS Data and Adaptive Particle Swarm  
Optimization – **Ashwarya Kumar,  
Hari Sundar Mahadevan**

A Research on Improving Global Energy  
Consumption with Pure Clean Energy Cycle –  
**Tolunay Kayaarası**

Improving Ecological and Economical Results of  
Marine Transport by Using Different Additives on  
Fuel – **Romanoz Topuria, Zaza Shubladze,  
Gia Purtskhvanidze, Mikheil Lezhava**

15:00–16:15 • PARALLEL SESSION | B HALL

CHAIR: Assoc. Dr. Elif Bal Beşikçi  
**HUMAN ELEMENT**

Classification Analysis of Bullying Expressions in  
Maritime – **Aslı Öztoprak, Seyithan Kaçmaz,  
Leyla Tavacıoğlu, Bayram Barış Kızılsaç**

Navigating the waves: Understanding human  
response aboard marine craft through  
biomechanics – **Pahansen de Alwis, Karl Garne,  
Jens Westergren, Björn Ång**

Analyzing the Effect of Psychological Violence on  
Seafarers' Working Time at Sea – **Gökhan Ayaz,  
Leyla Tavacıoğlu**

Determination of new technologies and future  
skills of seafarers towards smart shipping –  
**Çağlar Karatuğ**

Empowering Maritime Professionals: The  
CrewinEdu Online Training and E-Learning  
Platform – **Süleyman Emre Ayvaci, Onur Sabri  
Durak, Onur Kiliç, Sinan Ayvaci, Oğuzhan  
Korkmaz**

15:00–16:15 • PARALLEL SESSION | C HALL

CHAIR: Asst. Prof. Dr. Umüt Taç  
**MARITIME EDUCATION & TRAINING (MET)**

A Study on Seafarer Education through the  
Experience of both Seafarer and Teacher –  
**Hiroyuki Kimura**

Professional Competence of a Maritime University  
Lecturer: Concept and Structure in Modern  
Conditions – **Svetlana Strinyuk,  
Irina Shcherbakova**

Innovative Approaches to Training and  
Assessment in Emerging Technologies using  
Maritime Simulation Techniques – **Daniel Zhang,  
Engr. Gerardo Ramon S. Galang**

Advancing Maritime Education: The Impact of  
Simulator Training on Cadets at the Italian  
Shipping Academy – **Reza Karimpour,  
Vittorio Sava**

Ensuring Academic Integrity: Best Practices of  
Philippine Universities in Drafting Effective Policies  
– **Ma Celeste Orbe**

16:15 – 16:30 COFFEE BREAK ☕

16:30 – 17:30 CLOSING CEREMONY | MAIN HALL

**BEST PRESENTATION AWARDS**

**WRAP UP – Prof. Dr. Funda Yercan, Vice Rector, Piri Reis University**  
**IMLA 30 CONFERENCE ANNOUNCEMENT**

17:30 – 18:30 CLOSING COCTAIL 🍸

**SATURDAY, SEPTEMBER 28**

09:00 SOCIAL PROGRAM (Optional with Registration)

**29<sup>th</sup> IMLA**  
CONFERENCE

*Istanbul*  
SEP. 2024



# SCIENTIFIC PROGRAM



THE  
**29<sup>th</sup>**  
INTERNATIONAL  
MARITIME  
LECTURERS  
ASSOCIATION  
(IMLA)  
CONFERENCE

## UZMAR<sup>®</sup>



---

[www.imla29.org](http://www.imla29.org)

---