

Digital Transition and Cybersecurity Awareness in Shipping

5 - 6 April 2023

10.00 - 13.00 EEST

WEBINAR

This highly contemporary webinar provides a practical introduction to the digital transition in shipping, presenting emerging technologies and an overview of the relevant legislation as well as the new cyber-threats to shipping and the way a managing company may build its defenses by enhancing cybersecurity

Addressed to crew officers (deck)
and office personnel of HELMEPA
Member companies

Day 1

10.00 – 10.50	Digital Transition, Sustainability and Technology Trends in Shipping — Microsoft Corp
10.50 – 11.00	Break
11.00 – 11.50	Emerging Technologies, Progression Autonomy, and the Law of the Sea — World Maritime University
11.50 – 12.00	Break
12.00 – 12.50	Changing the Mindset to Embrace Emerging Technologies — Oriani Hellas
12.50 – 13.00	Q&As / Wrap-up / Closure

Day 2

10.00 – 10.50	Cybersecurity awareness (part I): tools and best practices to minimize cyber threats — Oriani Hellas
10.50 – 11.00	Break
11.00 – 11.50	Cybersecurity awareness (part II): effective SMS policies to address cyber risks ashore and on board per ISM Code — Danaos Shipping Co. Ltd.
11.50 – 12.00	Break
12.00 – 12.50	AI and Big Data applications in Shipping — METIS Cyberspace Technology
12.50 – 13.00	Q&As / Wrap-up / Closure

2023

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Myladie STOUMBOU

Regional Director for Partner Business Development
Microsoft Corp.

Myladie is Regional Director for Partner Business Development in Microsoft Corp. She leads a diverse multi-national team responsible for driving the strategic transformation of Microsoft ISV, Innovation and Scale-Up partner ecosystem across 33 countries of Central and Eastern Europe. She studied Computer Engineering and Informatics in the Polytechnic School of the University of Patras in Greece, and she holds a post-graduate title in Economics and Management from Athens Information Technology. She joined Microsoft in 2011 and since then she has been in various leadership positions in Germany and Central & Eastern Europe markets. Before Microsoft, she worked in senior sales and business development positions in Greek and multinational companies covering SEE region. She is deeply interested in innovation and digital entrepreneurship and she supports young entrepreneurs as a mentor in MIT Enterprise Forum Greece and The People's Trust. She is the Chair of the Women in Business Committee of the American-Hellenic Chamber of Commerce, and a mentor in Women Leadership Programme for European Innovation Council. She is an international keynote speaker addressing topics like leadership, digital entrepreneurship, artificial intelligence, future of work, and diversity and inclusion. She has 3 TEDx talks on these subjects and also writes articles in renown sites (Huffpost, LinkedIn, etc.).



Dr. Tafsir JOHANSSON

Assistant Professor
World Maritime University

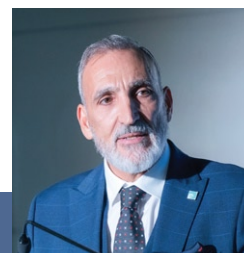
Tafsir is an Associate Research Officer at the World Maritime University-Sasakawa Global Ocean Institute (GOI). His duties include ocean governance and ocean policy research (including those that have been funded by Transport Canada) and teaching, and developing innovative statistical and mathematical models to better assess drivers and indicators relevant to ocean research agenda. He is currently acting as Co-PI (on behalf of the GOI) on a European Union Horizon 2020 Funded Project (under grant agreement No. 871260) titled BUGWRIGHT2: Autonomous Robotic Inspection and Maintenance on Ship Hulls.



Dr. Aspasia PASTRA

Associate Research Officer
World Maritime University

Aspasia has been appointed as a Post-Doc Fellow and Maritime Policy Analyst at the World Maritime University in Malmö, Sweden. To date, Dr. Pastra has been involved in a number of State-of-the-Art Regulatory Projects in maritime policy, environmental protection, ocean technology and port governance, including those that have been funded by the government of Canada. Dr. Pastra has published extensively in the field of Corporate Social Responsibility, Maritime Robotics and techno-regulatory advancements, trustworthy Remote Techniques and global environmental change (GEC).



Philip Uhrskov NIELSEN

Co-founder
Oriani

Philip is a multilingual and multicultural European, born in Denmark and educated in England. For the last 15 years he is working in the Maritime sector. Until recently he was the European General Manager of one of the hottest AI maritime start-ups regarding Collision avoidance using AI. He is also a Co-founder of Oriani, a Greek company that specializes in the field of Maritime Digital Transformation.



George KARISTINOS

Director
Oriani

George is a qualified professional with a Master's degree in Shipping Management. He is passionate about leveraging digital solutions to transform the maritime industry and is committed to serving as a trusted partner to shipping companies. George is forward-thinking and dedicated to bridging the gap between the present and the future and is a Director at Oriani since 2020.



Alex STATHOPOULOS

IT Manager
Hellas Confidence Shipmanagement S.A.

Alex joined the ICT Shipping industry in 2005. Currently with 17 years of experience, as an IT Manager with Hellas Confidence Shipmanagement S.A., he is responsible for the daily support of the fleet in IT/OT matters along with the management of enhancement or regulation-driven IT projects and the IT infrastructure of the company's premises. Holds an MSc from the University of Piraeus in the field of network-centric systems along with CCNA and CEH certifications.



Capt. Nikolaos POLYMERIS

Deputy Training Manager
HR & Training Department
Danaos Shipping Co. Ltd.

Nikolaos started working at Sea in 1998, Helmepe Member since 2004, 2 years experience as a Master on Containerships (Danaos Shipping Co), 5 years a SQE/Marine Superintendent in (Eastern Mediterranean Maritime), 4 Years a Deputy Training Manager in (Danaos Shipping Co), PgD in Executive Maritime Management at WMU. He is the current President of the HELMEPA Training Committee.



Yannis STRATAKOS

Head of Cloud & Data
METIS Cyberspace Technology

Yannis is the Head of Cloud & Data at METIS Cyberspace Technology, where he is responsible for designing data-driven cloud-based solutions for the maritime industry. During his tenure at METIS, he has delivered various projects focusing on Voyage Optimization, Vessel Performance and Modelling, Vessel Monitoring and Advanced Analytics based on Big Data. Prior to METIS he worked in a multi-national software company, as well as a consulting firm, focusing on the domain of Digital Advertising by implementing solutions around audience segmentation, data management platforms, and auction price optimization. He has a broad technical background spanning 10 years of professional experience and technical expertise in the areas of Data Engineering, Machine Learning, Software Engineering, and designing & building data intensive applications. He holds a diploma in Electrical & Computer Engineering from National Technical University Athens and a MSc in Information Systems from the Technical University of Munich.

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* Lecturers appear in presentation order

Webinar Learning Objectives | Outline

Digital Transition, Sustainability and Technology Trends in Shipping

Even as pressures mount for organizations to demonstrate and report sustainability progress, most organizations are still scrambling for actionable solutions. One of their greatest challenges is understanding how to identify, capture, and use data to figure out where they are and what they need to do. While many different steps are required to achieve sustainable digital transformation, they all rely on having a common foundation that ensures carbon emissions are measured in an accurate, consistent, and reliable manner globally. During this session we will talk about your path forward through today's climate reality—to share how you can transform your business and accelerate your sustainability momentum.

Emerging Technologies, Progression Autonomy, and the Law of the Sea

- Introduction: 4th Industrial Revolution;
- Synthesis: Impacts of Emerging Technologies in the Maritime Domain;
- Redux: Take-aways from “Autonomous Vessels” & Corresponding Regulatory Developments;
- Touch-base: Law of the Sea Nexus
- Silence of the Sentinels: Niche technologies for Vessel Hull Inspection & Maintenance
- Highlights on Critical Developments: Remote Inspection during Pandemic
- Lessons Learned: BUGWRIGHT2 Disruptive Technologies (Trust, Liability & Degrees of Autonomy)
- Conclusions: Unleashing Full Potential for Techno-Regulatory Balance

Learning Objectives

- Participants will be able to evaluate the role of competent international organizations in current regulatory developments;
- Participants will be able to assess emerging technologies with crucial insights from a Triple Helix perspective (academia-industry-government);
- Participants will be able to identify stakeholders, crucial bottlenecks as well as solutions that could optimally pave the best way forward for a good techno-regulatory balance
- Participants will have the opportunity to brainstorm through out-of-the-box polling questions; and
- Based on presentation and self-analysis, participants will be able to interpret the trajectory of emerging technologies in the maritime domain.

Changing the Mindset to Embrace Emerging Technologies

- This seminar will point out some of the key applications of emerging technologies and discuss the benefits they produce.
- It will also touch on the difficulties we humans have in change and give specific examples on how to facilitate the change of mindset in the Maritime Digital Transformation era.

Learning Objectives:

- Increase awareness of Maritime Digital Transformation.
- Give participants some practical guidance of how to become part of this change.

Cybersecurity awareness (part I): tools and best practices to minimize cyber threats

- Identifying and mitigating cyber risks in daily vessel operations
- Emerging cyber threats and technologies in the maritime industry: Attendees will gain insight into the latest cyber threats and trends affecting the maritime industry, such as the use of IoT devices and the increasing prevalence of ransomware attacks, as well as new technologies and strategies for mitigating these risks
- Learning Objectives:
- Participants will learn best practices for securing shipboard systems against cyber attacks and training crew members on cyber security awareness
- Attendees will gain an understanding of the regulatory requirements for maritime cyber security and the potential consequences of non-compliance

Cybersecurity awareness (part II): effective SMS policies to address cyber risks ashore and on board per ISM Code

The main purpose of this presentation is the demonstration of the Cyber Security Resources and practices for a safe operation and Cyber environment.

Learning Objectives:

- Description of Cyber Security Management
- Documentation & Risk Assessment
- Roles, Responsibilities & Cyber Security Awareness
- Asset Management / Access Control
- Physical Access, Operations, Communications Security
- System Acquisition, Development & Maintenance
- Security Incident Management & Compliance

AI and Big Data applications in Shipping

“What is Big Data and what can AI do for you?”. This talk will focus on explaining how data driven solutions work in the maritime industry and justify the positive impact they may have in augmenting decision making, in the areas of forecasting, cost optimization, safety, emissions & regulations.

Learning Objectives

- Define Big Data and highlight why & how it is an enabler for the maritime industry.
- Explain how AI works and introduce common misperceptions that harm the trust in modern data driven solutions.
- Present examples of AI driven solutions around performance optimization, forecasting and safety that aim to improve the decision-making capabilities of ship owners.

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