The International Maritime Transport & Logistics Conference

MARLOG 10

Digitalization in Ports & Maritime Industry

Program

13 – 15 June 2021

The International Maritime Transport & Logistics Conference
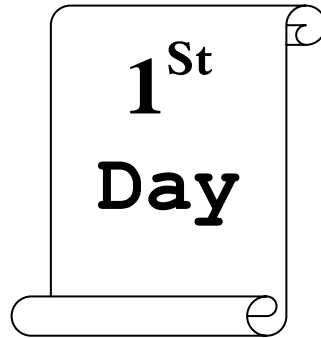
MARLOG 10

Digitalization in Ports & Maritime Industry

1^{St}
Day

Sunday, 13th June 2021

Opening Session

09:00   **Opening Address**

❧ **Prof. Akram Soliman Elselmy**
Head of the Conference Organizing Committee

❧ **Prof. Ismail Abdel Ghafar Ismail Farag**
Conference Chairman

❧ **Dr. Dina Al-Dhaher**
Head of Transport & Tourism, the League of Arab States

❧ **H. E. Admiral Osama Rabie**
Chairman and Managing Director, Suez Canal Authority

❧ **Major-general Mohamed Taher Elsherief**
Alexandria Governor

❧ **H.E. Lieutenant General Kamel Al-Wazir**
Minister of Transport

09:45   ➤ Recognition of Instrumental Figures

10:00   ➤ Signing a memorandum of understanding between Arab Academy for Science, Technology and Maritime Transport and the Tug Training & consultancy B.V

10:30   ➤ Opening of the International Maritime Exhibition

11:00   ➤ Tea Break

Session 1

"Digital Transformation in Port Services"

Session Chair

Prof. Yousry El Gamal

Chairman of IT Committee, National Council of Education, Culture, and Science (UNESCO, ISESCO, ALECSO)

Former Minister of Education, Former Chairman, Board of Trustee, Egypt-Japan University of Science and Technology, Egypt

12:00   Digitalization of Ports: The Role of Infrastructure

Mr. Francisco Esteban Lefler

President, World Association For Waterborne Transport Infrastructure (PIANC), Brussels, Belgium

12:20   Mediterranean Ports at the Heart of Digital Transformation

Dr. Philippe Guillaumet

Secretary General of the Medports Association, France

12:40   A Systematic Literature of the Maritime Transport Industry 4.00 Applications

Dr. Khaled El Sakty and Miss. Mona Awad

Dean, College of International Transport and Logistics, Cairo, AASTMT, Egypt.

13:00   Linking Digitalization to Sustainable Development: the Case of the Port of Gothenburg

Dr. Anastasia Christodoulou, Dr. Dimitrios Dalaklis, Dr. Aykut Ölcer and Dr. Fabio Ballini

Research Associate, World Maritime University in Malmö, Sweden

13:20   **Session Discussion**
13:30   **Break**

Session 2

"Digitalization of Supply Chain: Implications for Future"

Session Chair

Prof. Roberto Reviteria

Professor of Mechanical and Industrial Engineering, University of Genoa, Italy

Session Co-Chair
Prof. Dr. Ayman Adel Abdel Hamid

Dean, College of Computing and Information Technology
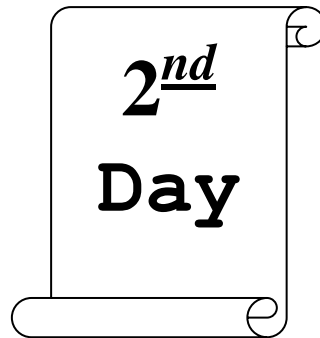Arab Academy for Science, Technology & Maritime Transport

13:40 Integrated Route. One Destination
Rear Admiral Mohamed M. AbdelAziz
Advisor - Port Affairs, General Authority of the Suez Canal Economic Zone (SCZone), Egypt

14:00 Smart Port of the Future – Digital Transformation of the Port Community
Mr Nico Suys

Head, Business Development for Port of Antwerp International for the Region North Africa, Antwerp, Belgium.

14:20 Digitalization: The Future of Maritime

Dr. Mohamed Mahmoud

President Assistant for Technology Development,
Arab Academy for Science, Technology and Maritime Transport, Egypt

14:40 New Maritime Scenarios in the Mediterranean through the Use of Geo-maps
Mr. Alessandro Panaro
Head of Maritime Department
Italian Research Center for Economic Studies (SRM), Italy

15:00 The Concept, Statue Quo and Prospects of Shipping Digital Transformation
Dr. Xu Kai

Chief Information Officer, PhD, Senior Engineer, Master's Supervisor,

Shanghai International Shipping Institute (SISI), China.

15:20 **Session Discussion**
15:30 **Lunch**

The International Maritime Transport & Logistics Conference

MARLOG 10

Digitalization in Ports & Maritime Industry

2nd
Day

Monday, 14th June 2021

Session 3

"Artificial Intelligence and Blockchain Technology Applications in Ports"

Session Chair

Mr Nico Suys

Head, Business Development for Port of Antwerp International
for the Region North Africa, Antwerp, Belgium

09:00   Artificial Intelligence for Supporting Maritime Terminal Management, Safety and Security
Prof. Roberto Revetria
Head, Student Orientation Committee, University of Genoa, Italy

09:20   Digital Twins and their Applications in Ports
Eng. Marco Politi
Vice President of Sales, DBA GROUP, Italy

09:40   Block Chain Technology Application at Container Transportation Industry
Miss. Afra Guo
Deputy General Manager of the Business Process and System at COSCOSHIPPING lines, China

10:00   Blockchain Adoption from the Shipping Industry
Dr. George Vaggelas, Dr. George Kapnissis, Dr. Apostolis Panos, Dr. Helen Leligou and Dr. Maria Doumi
Partner at "Ports and Shipping Advisory"
Associate Professor, Department of Shipping, Trade & Transport, University of the Aegean, Greece

10:20   **Session Discussion**
10:40   **Break**

Session 4

"Smart Ports Entrepreneurial Ecosystem Development"

Session Chair

Dr. Babak Banijamali
Vice-Chairman of Maritime Navigation Commission (MarCom)
World Association for Waterborne Transport Infrastructure, PIANC

Session Co-Chair

Dr. Mohammed Dawood

Vice President for Maritime Affairs

Arab Academy for Science, Technology & Maritime Transport

11:00 Digitalization Tools towards a Zero Net Emissions Port: Green C Ports and Valenciaport
Mr. Raul Cascajo Jimenez
Head, Environmental Policies, Port Authority of Valencia, Spain.

11:20 Towards Smarter, Cleaner and more Energy Efficient Ports through Digitalization and Automation
Eng. Francesc Carbonell.
Head Of Sector, Transport And Urban Development, Union For The Mediterranean, Spain

11:40 A Proposed Framework for a Port-area Vessel Speed Reduction System (VSR)
Capt. Mohamed Rowihil
Head of Maritime Cooperation Unit, Agreements & International Cooperation Center
Arab Academy for Science, Technology and Maritime Transport, Egypt

12:00 SCZone Digitalization Strategy
Eng. Mohamed Khamis
IT General Manager, Northern Sector, Suez Canal Economic Zone (SCZone), Egypt

12:20 **Session Discussion**
12:30 **Tea Break**

Session 5

"The Role of Digital Transformation in Container Terminal Development"

Session Chair

Dr. Mohammadreza Allahyar

Co-chair of Cooperation commission of PIANC/Member of Board and Deputy of Engineering and Port Development Infrastructures

Ports and Maritime Organization of Iran

Session Co-Chair

Dr. Aly Aly Fahmy

Dean of the Artificial Intelligence College

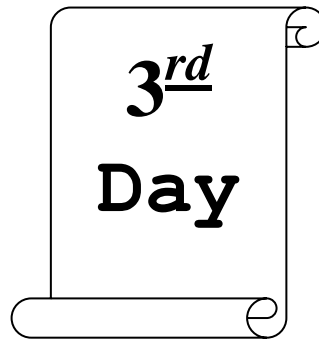Arab Academy for Science and Technology and Maritime Transport

13:00	The Development of Smart Ports in China
	Dr. Luo Bencheng
	Senior Researcher and Chief Engineer,
	Logistics Research Center of China Waterborne Transport Research Institute, China
13:20	The impact of Applying Smart Ports Requirements on the Competitiveness of Aden Container Terminal
	Capt. Mohamed Elhussiny, **Mr. Mohamed Amzarba and Dr. Ahmed Ismail**
	Lecturer, Nautical Basic Studies Department, College of Maritime Transport & Technology,
	Arab Academy for Science, Technology & Maritime Transport, Egypt
13:40	A Simulation Model for Analyzing and Optimizing Container-Terminal Operations
	Dr. Mohamed Faragalla
	Computer Operator, Port Said Container & Cargo Handling Co. (PSCCHC), Port Said, Egypt
14:00	Container Market Concentration in the Era of Digitalization: Evidence from North African Sea Ports
	Dr. Ahmed Ismail, Capt. Abdulla Wanis and Dr. Arbia Hlali
	PhD Candidate, Arab Academy for Science, Technology & Maritime Transport, Libya
14:20	**Session Discussion**
14:30	**Lunch**

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3rd Day

Tuesday, 15 June 2021

Session 6

"Cyber-security Risk Management in Maritime and Logistics Industry"

Session Chair

Prof. Alsnosy Balbaa

Vice President of AASTMT for African & Asian Affairs

Professor of Environmental Issues Management in Seaports

09:00 Securely Enabling Maritime Digital Transformation
Mr. Patrick Grillo
Senior Director, Solutions Marketing, Fortinet, USA

09:20 Role of Digitalization and Internet of Things (IoT) in Fostering Ports Security

Dr. Mohamed Abdelfattah and Capt. Ahmed Ibrahim
Vice Dean, Regional Maritime Security Institute (RMSI),
Arab Academy for Science, Technology and Maritime Transport, Egypt

09:40 Port Innovation against Cyber Threats

Mr. Rafael Company

Director of Safety and Security, Valencia Port Foundation, Valencia, Spain

10:00 Innovative Navigation Role of ECDIS in Decision Support System

Capt. Ahmed Khalil Barghash, **Dr. Saleh Mesbah and Dr. Nafea Shaban**

Senior Marine lecturer, Integrated Simulator Complex,

Arab Academy for Science, Technology and Maritime Transport, Alexandria, Egypt

10:20 **Session Discussion**
10:30 **Break**

Session 7

"Reinforcing Capacity Building for Supporting Digitalization in

Ports and Maritime Industry"

Session Chair

Capt. Anwar Buftain

Team Leader, Fleet Personnel, Kuwait Oil Tanker Company, Kuwait

Session Co-Chair

Dr. Gamal Ghalwash

Vice President for Training and Community Service
Arab Academy for Science, Technology & Maritime Transport

10:50   Smart Port Research and Personnel Training Platform Construction
Dr. Qingcheng Zeng
Professor in school of Maritime Economics and Management,
Dalian Maritime University, China

11:10   Digitalization & Implementation in Maritime Training
Capt. Tim Lodder
Entrepreneur in Modern Learning Solutions, Founder & CEO Blue Orange Wave, Netherlands

11:30   The Readiness of the Maritime Education for the Autonomous Shipping Operations
Dr. Karim Aboul-Dahab
Senior Specialist, Maritime Telecom Services,
National Telecom Regulatory Authority (NTRA)

11:50   **Session Discussion**
12:00   **Tea Break**

Session 8

"Digital Tools to Increase Efficiency in Ships' and Ports' Operations"

Session Chair

Prof. Ahmed Amin

Professor, Civil Engineering Department, Suez Canal University

12:20   Digital Method for Refloating a Ship Stranding During Transit Suez Canal Using Its Own Means

Eng. Abd Elfattah Swidan, **Eng. Mohamed Walid Refae, and Prof. Mohamed Kotb**
Salvage Engineer, Egyptian Navy, Alexandria, Egypt.

12:40   Emerging Technologies in East Port-Said Megaproject
Capt. Mamdouh Awad
Marine Lecturer in the Sea Training Institute (STI),
Arab Academy for Science, Technology and Maritime Transport, Egypt

13:00   The Performance Evaluation of Smart Communication System for Ports across Different Seasons

Dr. Mahmoud Beshr, **Dr. Moustafa H. Aly, and Dr. Ivan Andonovic**

Head of Centralized Administration of Secured Certificates and Documents

Assistant Professor and Senior Consultant,

Arab Academy for Science and Technology and Maritime Transport

13:20   **Session Discussion**
13:30   **Break**

Closing Session

Chairman

Prof. Ismail Abdel Ghafar Ismail Farag

Conference Chairman

14:00   **Keynote Speech:**

        Prof. Ismail Abdel Ghafar Ismail Farag

14:15   **Proposed Recommendations**

14:30   **Recognition of Speakers, Keynote Speakers and Sessions' Chairmen**

15:00   **Lunch**