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

10:00 **Opening Address**

    Prof. Akram Soliman Elselmy
Head of the Conference Organizing Committee

    Prof. Ismail Abdel Ghafar Ismail Farag
Conference Chairman

    Dr. Dina El-Dhaher
Head of Transport & Tourism, the League of Arab States

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

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

10:45 ➢ Recognition of Instrumental Figures

11:00 ➢ Signing a memorandum of understanding between Arab Academy for Science, Technology and Maritime Transport and the Tug Training & consultancy B.V

11:15 ➢ Opening of the International Maritime Exhibition

11:45 ➢ Tea Break

Session 1

"Digital Transformation in Port Services"

Chairman

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 Mrs. 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"

Chairman

Prof. Roberto Reviteria

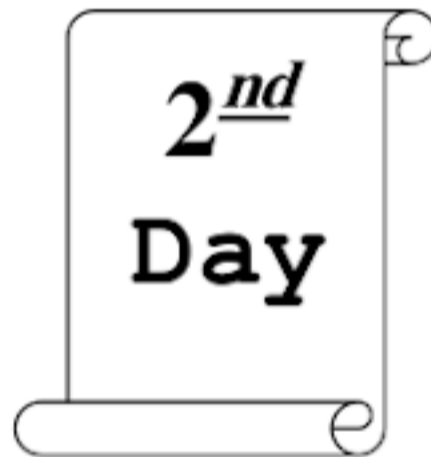### Professor of Mechanical and Industrial Engineering, University of Genoa, Italy

13:40 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.

14:00 Digitalization: The Future of Maritime

Dr. Mohamed Mahmoud

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

14:20 Integrated Route. One Destination.

Rear Admiral Mohamed M. AbdelAziz

Advisor - Port Affairs, General Authority of the Suez Canal Economic Zone (SCZone), 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"

Chairman

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
Mrs. 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"

Chairman

Dr. Babak Banijamali

Vice-Chairman of Maritime Navigation Commission (MarCom)

World Association for Waterborne Transport Infrastructure, PIANC

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   **Session Discussion**

12:10   **Tea Break**

Session 5

"The Role of Digital Transformation in Container Terminal Development"

Chairman

Mohammadreza Allahyar

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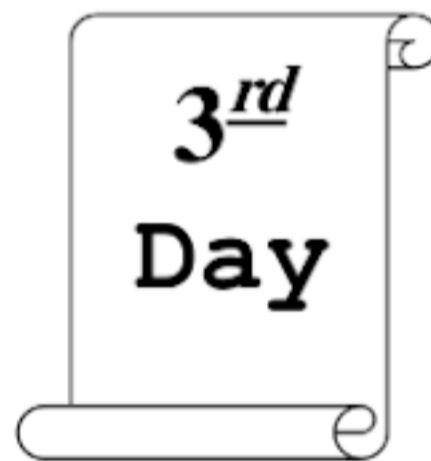Ports and Maritime Organization of Iran

12:40   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

13:00   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

13:20   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

13:40   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

14:00   **Session Discussion**
14:10   **Lunch**

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MARLOG 10

Digitalization in Ports & Maritime Industry

3rd Day

Tuesday, 15 June 2021

Session 6

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

Prof. Yasser Elsonbaty

Dean, College of Computing and Information Technology, AASTMT

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 Mr. 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
Prof. 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"

Chairman

Capt. Anwar Buftain
Team Leader, Fleet Personnel, Kuwait Oil Tanker Company, Kuwait

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
         Mr. 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"

Chairman

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), the Arab Academy for Science, Technology and Maritime Transport (AASTMT) – Alexandria, 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**