



Arab Academy

for Science Technology & Maritime Transport

The International Maritime
Transport and Logistics Conference
"Marlog 10"

Digitalization in Ports & Maritime Industry

Under The Auspices of

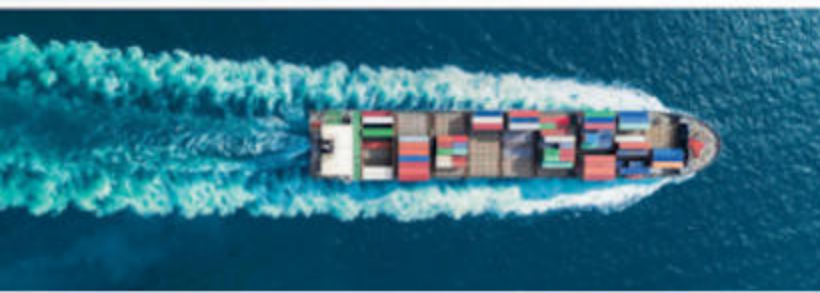
H.E. Mr. Ahmed Aboul Gheit
Secretary General of the League of the Arab States

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

Conference Program



13 - 15 June, 2021
Hilton Green Plaza Hotel





The International Maritime Transport & Logistics Conference

MARLOG 10

Digitalization in Ports & Maritime Industry

Program

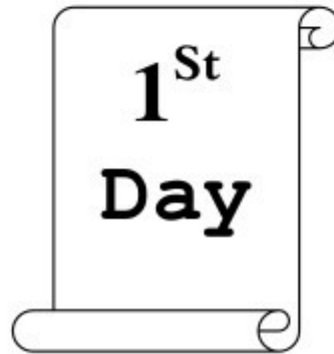
13 – 15 June 2021



The International Maritime Transport & Logistics Conference

MARLOG 10

Digitalization in Ports & Maritime Industry



Sunday, 13th June 2021



*All timings mentioned in the agenda are in GMT+2 – Cairo time

Opening Session

09:00 Opening Address

- **Prof. Akram Soliman Elsemy**
Head of the Conference Organizing Committee
- **Prof. Ismail Abdel Ghafar Ismail Farag**
Conference Chairman
- **Dr. Dina Al-Dhaheer**
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

- 09:45 > Recognition of Instrumental Figures
- > Signing a memorandum of understanding between Arab Academy for Science, Technology and Maritime Transport and the Tug Training & consultancy B.V
- 10:00
- 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 Ms. 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

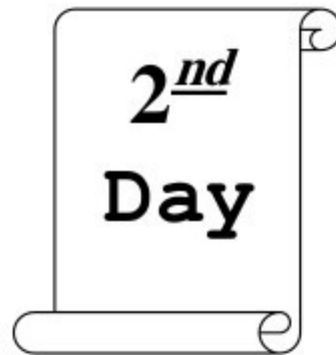
- 13:40** Integrated Route. One Destination
Rear Admiral Mohamed M. AbdelAziz
Advisor - Port Affairs, General Authority of the Suez Canal Economic Zone (SCZone), Egypt
- 14:00** Smart Port of the Future – Digital Transformation of the Port Community
Mr Nico Suys
Head, Business Development for Port of 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**



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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
Ms. Afra Guo
Deputy General Manager of the Business Process and System at COSCO SHIPPING 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

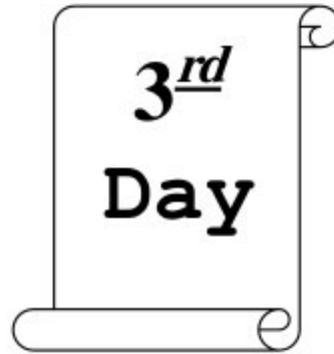
- 13:00** The Development of Smart Ports in China
Dr. Luo Bencheng
Senior Researcher and Chief Engineer,
Logistics Research Center of China Waterborne Transport Research Institute, China
- 13:20** The impact of Applying Smart Ports Requirements on the Competitiveness of Aden Container Terminal
Capt. 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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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**



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