International Forum on Shipping, Ports and Airports (IFSPA 2022)
Industry Session

Date: 19 May 2022 (Thursday)
Time: 6:00pm - 7:45pm HKT
Venue: Online platform

Closing Plenary Forum
- *Emerging extended reality and innovative technologies for smart transport and logistics*

Highlights
The rapid adoption of extended reality (ER) in the worldwide logistics and transport sector has created an urgent need for technological advancement and research development to provide the solutions and support required in daily operations. All real-and-virtual combined environments and human-machine interactions generated by immersive technologies like Virtual Reality (VR), Augmented Reality (AR) and Mixed Reality (MR) are getting higher attention. Recently, the recent shift from operations sites to working from home due to the pandemic, strike incidents and security and safety precautions have accelerated the need to develop VR technologies in industrial operations. Examples of development includes low cognitive approach to the remote operation of unmanned surface vessels via VR, AR integrating with automatic identification system for visualising critical data for vessel navigation, and digital twin systems with VR and AR-based services for optimising intra-terminal operations. There are also increasing research on adopting MR technologies as a tool for enhancing professional competency of sea and air transport professionals. How can leaders drive emerging innovative immersive technologies for smart transport and logistics operations in their companies? What are the latest trend and development in this aspect?

Plenary Speakers
- Dr. Michael GRIEVES, Chief Scientist, Executive Director, Digital Twin Institute
  Topic: Innovations on Digital Twins: IoT, AI, ML, VR, AR

- Prof. Andrew NEE, Professor Emeritus; Director, Augmented Reality Laboratory, National University of Singapore
  Topic: Augmented reality (AR) and digital twin applications in engineering

- Dr. Chung NG, Senior Vice President, Technology Strategy and Development, Hong Kong Telecom
  Topic: Augmented Reality-based Metaverse and 5G for intelligent service operations

- Mr. Jimmy PANG, President, Supply Chain Safety and Security Association
  Topic: Trends of VR on Logistics and Transport in post COVID-19 pandemic

- Mr. Eric POON, Head of Performance Enhancement, HACTL
  Topic: Performance enhancement in aviation logistics through extended reality and innovative technologies

- Dr. Graziano TERENZI, CEO, Inglobe Technologies Srl
  Topic: Virtual reality and augmented reality on Industry 4.0

Session Chair
- Dr. Eugene Wong, Associate Professor, Department of Supply Chain and Information Management; Director, Virtual Reality Centre; Director, Policy Research Institute of Global Supply Chain

Organisers
- The Hang Seng University of Hong Kong
- The Hong Kong Polytechnic University

Co-organisers
- Tsinghua University
- University of Nottingham Ningbo China
- C Y Tung International Centre for Maritime Studies
- Policy Research Institute of Global Supply Chain
- Virtual Reality Centre

Supporting Organisations
- Hong Kong Institute of Engineers - Logistics and Transportation Division
- Hong Kong Logistics Association
- Hong Kong Sea Transport and Logistics Association
- The Chartered Institute of Logistics and Transport in Hong Kong

- 6:00pm: **Opening Remarks**

- 6:05pm: **Plenary Session –** *Technology Industry Outlook*

        Plenary Speakers:
- ❖ Mr. Jimmy PANG, President, Supply Chain Safety and Security Association
Topic: Trends of VR on logistics and transport in post COVID-19 pandemic

- ❖ Mr. Eric POON, Head of Performance Enhancement, HACTL
Topic: Performance enhancement in aviation logistics through extended reality and innovative technologies

- ❖ Prof. Andrew NEE, Professor Emeritus, National University of Singapore
Topic: Augmented reality (AR) and digital twin applications in engineering

        Moderator:
- ❖ *Dr. Eugene WONG, Associate Professor, The Hang Seng University of Hong Kong*

- 6:40pm: **Plenary** *– Innovate. Integrate. Transform.*

        Plenary Speakers:
- ❖ Dr. Michael GRIEVES, Chief Scientist, Executive Director, Digital Twin Institute
Topic: Innovations on Digital Twins: IoT, AI, ML, VR, AR

- ❖ Dr. Chung NG, Senior Vice President, Technology Strategy and Development, Hong Kong Telecom
Topic: AR-based metaverse and 5G for intelligent service operations

- ❖ Dr. Graziano TERENZI, CEO, Inglobe Technologies Srl
Topic: Augmented Reality, Robotics and Human Factors in Logistics

        Modelator:
- ❖ *Dr. Eugene WONG, Associate Professor, The Hang Seng University of Hong Kong*

- 7:15pm: **Plenary Forum Discussion and Round-up**
    - *Plenary Speakers and Moderator*

- 7:30pm: **Live Q&A Session**

- 7:45pm: **End of Closing Plenary Forum**