

A Trend of Digital Twin and Data Platform in Maritime Industry

Date: 10th December 2018. 9 : 00~18 : 00 (Banquet starts from 18 : 20)

Venue : KAIUN CLUB, <http://kaiunclub.org/access.html>

Hosted by: The Japan Society of Naval Architects and Ocean Engineers, Principal Sponsor : ClassNK



Objective:

The recent development of sensor, communication, and data processing technologies makes the utilization of the big data possible. How to make use of these technologies is becoming a crucial issue in the maritime industry. This forum tries to obtain a better outlook on the trend of digital twin and data platform by introducing the recent trends and case studies. The keywords also include digitalization and autonomous vehicle.

Registration: Visit the following website

<https://www.jasnaoe.or.jp/en/conference/symp/wnf2018.html>

Registration fee (inc. banquet):

Early bird 10,000yen (thr. 19th November)
General 12,000yen Student 3,000yen

Language: English

Program

9:00-9:40 Keynote Speech

Recent Policy on Maritime Digitalization
Digitalization in Shipping and Shipbuilding

Mr. Yoshifumi Miyatake (Maritime Bureau, MLIT)
Dr. Hiroyuki Yamato (Professor Emeritus, The University of Tokyo)

9:40-13:20 Session 1 Digital Twin (inc. 20mins Coffee break)

Digital Twins and enabling autonomous operations
GE's approach on Digital Industrial Transformation
Towards accurate performance evaluation of ships in actual seas
Technological issues on the digital twin
Digitalization in ship hull form and propeller design process
MOL Challenge on Next Generation Smart Ship
Research projects on digitalization in National Maritime Research Institute (NMRI)
Digitalization in shipbuilding

Dr. Christian Møller (Kongsberg Digital)
Mr. Mayoran Rajendra (GE Digital)
Dr. Masaru Tsujimoto (NMRI)
Dr. Hideaki Murayama (The University of Tokyo)
Dr. Yasuhiko Inukai (Japan Marine United Corporation)
Mr. Tetsuro Ashida (Mitsui O.S.K. Lines, Ltd.)
Dr. Takahiro Majima (NMRI)

Dr. Taiga Mitsuyuki (Yokohama National University)

14:50-16:30 Session 2 Data Platform

Veracity – Leveraging the true opportunities of your data
IoT Open Platform LANDLOG for Innovation of Construction Production
SPEEDS (Smart Platform of Enhanced Engineering Data for Shipping and Shipbuilding) to Realize the Innovative Use of Ship 3D Data
ClassNK Digital Transformation Strategy and ShipDC IoT Open Platform

Mr. Magnus Lande (DNV GL- Digital Solutions)
Mr. Kousaku Igawa (LANDLOG Ltd.)
Dr. Kunihiko Hamada (Hiroshima University)

Dr. Toshiro Arima (ClassNK)

16:50-18:00 Discussion Session: Issues on the Digital Twin and Data Platform

Facilitator : Dr. Hideyuki Ando (MTI Co., Ltd.), Panelists : Speakers from Session 1 and 2

18:20-20:00 ClassNK Banquet