

ISASD 2024 Workshop Proposal Form

The workshops will be held from July 8th to July 11th, 2023. Please provide the following information, which will be reviewed by the ISASD 2024 committee.

1. Workshop Title:

S-Smart Shipping and Supply Chain Management

2. Workshop Chairs:

Name	Sheng-Long Kao	Chien-Chang Chou
Affiliation	National Taiwan Ocean University	National Kaohsiung University of Science and Technology
E-mail	slkao@mail.ntou.edu.tw	ccchou@nkust.edu.tw ; chienchl@ms58.hinet.net

3. Workshop Chair's Introduction (please provide a 150-word introduction):

Sheng-Long Kao currently serves at National Taiwan Ocean University in Taiwan and holds the position of Director of the *Intelligent Maritime Research Center* in Smart Shipping research and education. His main research areas include Smart Navigation, Mobile Communication, Underwater survey, MGIS and Fuzzy SPASS.

CHIEN-CHANG CHOU is currently a full-time Professor of the Department of Shipping Technology, National Kaohsiung University of Science and Technology, Taiwan. He received his Ph.D. degree from the Department of Shipping Transportation Management, National Taiwan Ocean University, Keelung, Taiwan. He has published several academic articles in international journals, including *Maritime Economic and Logistics*, *IEEE ACCESS*, *Applied Soft Computing*, *Applied Mathematics and Computation*, *Computers and Mathematics with Applications*, *Mathematical and Computer Modelling*, *Tourism Management*, *Marine Pollution Bulletin*, and *Ocean Engineering*. His research interests include AIS, VTS, navigation, shipping logistics, transportation management, maritime engineering, fuzzy mathematics, and decision-making science.

4. Statement of Objectives (200-500 words):

The double S-Smart Shipping and Supply Chain Management (SSS) issue has been a critical topic in global marine shipping navigation. Three phases have been selected for the S-smart shipping: Smart Harbor, Smart Ship, and Smart Logistic, now, many

discussions and research have been published and announcements by scholars and experts. Also, there are already many related international departments and organizations that have been developed and are undergoing. Therefore, these issues of SS are necessary to be discussed for this workshop. The AIS, Vessels' Big Data, Wind farms safety, AI vessel behavior, Marine meta verse, AI IOTs Navigational Safety, and Marine environmental protection around the SSS relative research and education all are included. All of these technologies are privately innovative opportunities for learning and implementation activities in SSS education. This workshop is themed around 'Future AI SSS development and new education', with the deepest hope and possible future developments of SSS education.

Workshop Topics

1. Review and explore the possible future developments based on the current state of SSS education.
2. Future teaching strategies and curriculum design in SSS education.
3. Future student learning and assessment methods in SSS education.
4. Future teaching materials and aids in SSS education.
5. Key competencies and literacies in future SSS education.
6. Changes in the field and potential benefits of future SSS education.
7. Professional development of teachers in future SSS education.
8. In-service teachers' perspectives on future SSS education.
9. Imagination and impact of technology (such as AI, IOTs, 5G, Meta verse, VR, XR, etc.) on SSS education.
10. Data collection and analysis in SSS education.
11. Other imaginings about SSS education."

5. Target Article Quantity and Expected Number of Participants:

Target Article Quantity:8

Expected Number of Participants: 30

6. Expected Technical Program Committee Members:

Ming-Miin Yu, National Taiwan Ocean University, Taiwan

Ming-Feng Yang, , National Taiwan Ocean University, Taiwan

Chien-Chang Chou, National Kaohsiung University of Science and Technology, Taiwan

Sheng-Long Kao, National Taiwan Ocean University, Taiwan

Mengru Tu, National Taiwan Ocean University, Taiwan

Sin-Der Lee, National Taiwan Ocean University, Taiwan

