INSTITUTE OF MARINE
Engineering, Science & Technology

iSCSS

INTERNATIONAL SHIP CONTROL SYSTEMS SYMPOSIUM **2024**

Sustainable, human centric and resilient control

5 – 7 November 2024 / **THE SPINE, PADDINGTON VILLAGE, LIVERPOOL, UK**

iSCSS KEY POINTS

- State of art research and development from Academia and Industry
- Excellent facilities at the The Spine, Royal College of Physicians, Liverpool, UK
- International audience from 25 countries across three continents
- CPD-approved by the IMarEST
- Awards for best entry from those 35 years old or younger

iSCSS 2024 is THE event to debate the human role in ship control with decision makers, industry and researchers

**Cdr (E) dr. ir.
Rinze Geertsma**

Image: © L3Harris

SUMMARY

Global society is currently challenged with the digital and green transitions at the same time. Ship control plays an important role in both. The green transition leads to increasingly complex ship power systems that can be optimised in design and operation using advanced controls. The digital transition leads to opportunities to support crews with new technologies such as AI driven decision support and virtual and extended reality. This can ultimately lead to autonomous crewless operations at sea. As complexity advances and computing power does not come for free, development should be focused on the ship's crew or operators, on board or ashore. We are therefore very thrilled to announce our theme for the international Ship Control Systems Symposium (iSCSS) 2024: Sustainable, human centric and resilient control.

We are very excited to return to the United Kingdom and organise our next edition in Liverpool, with its extensive maritime heritage. We are aiming for a diverse attendance from naval and commercial industry, academia, research institutes and government. Moreover, we are specifically looking for original and inspiring contribution form young professionals to compete for the Sir Donald Gosling award. With this diverse attendance, we can attack the societal challenges for future shipping from all angles and provide unique opportunities to foster new collaborations.

SUBMIT YOUR ABSTRACT ON EASYCHAIR: inec-2024

THEMES AND SUB THEMES

SUSTAINABLE

- DC microgrids
- Hybrid power systems
- Energy storage
- Energy management
- Alternative fuels
- Novel power sources
- Energy efficiency
- Data exploration
- Cost reduction
- Transient loads

HUMAN CENTRIC

- Extended reality
- Digital training
- Decision support
- Levels of autonomy
- Explainable AI
- FAIR data
- Cooperative systems
- Human machine balance
- Autonomous navigation

RESILIENT

- Network Complexity
- Reliability and Availability
- Cyber security
- Connectivity
- Continuity of power
- Obsolescence
- Fault protection
- Predictable interaction
- Data fusion
- Fault tolerance
- Power quality
- Pulsed power loads

Image: © L3Harris

FOR FURTHER INFORMATION ON iSCSS AND INEC: www.imarest.org/inec

SUBMISSION PROCESS

The Technical Advisory Committee encourages synopses from all areas of industry, academia, and government. Prospective authors are invited to submit titles, keywords, and synopses of between 250 and 500 words, with text only to the INEC & iSCSS 2024 Technical Advisory Committee. The synopsis should introduce the topic and its relevance, the proposed method or approach to be discussed in the paper and the expected results and (direction of the) conclusions. Successful authors will be asked to develop their abstract and submit a full technical paper of up to 4000 words. All papers will be reviewed based on technical quality, relevance, and their potential for generating interest and discussion and published in the Scopus indexed conference proceedings. Authors may be invited to publish an extended article to the naval engineering and ship control special editions of the Journal of Marine Engineering and Technology after the Conference.

SPONSORSHIP AND EXHIBITION

With typically over 300 international attendees from across the naval and maritime enterprise, INEC and iSCSS provide a compelling platform to promote your company and products. The exhibition is at the heart of the conference throughout the 3 days with plenty of opportunity to network with potential decision makers from government and business contacts. The conference also attracts a wider audience through the website, promotional material, and online content posted during the event. Please contact: **TOLA ONASANYA** *Think Publishing* Phone: **+44 (0)20 3771 7187** Email: **tola.onasanya@thinkpublishing.co.uk**

AWARDS

By kind permission of the Sir Donald Gosling Foundation, the INEC and iSCSS 24 Technical Advisory Committees are delighted to announce the continuation of the Sir Donald Gosling Award for authors under the age of 35 at the time of the conference. All named authors on the paper, must be under 35 to qualify. To enter, authors must submit proof of date of birth, such as a passport copy, during synopses submission. The first prize is £5,000, the second prize is £2,500, and the third is £1,500. Awards will be shared between named joint authors and all will receive a certificate. There is also a special Patron's Award for merit from the broader conference papers and presentations.

How to submit your abstract on EasyChair

Dear Author(s),

Please follow these steps to update and submit your abstract by the deadline of **22 JANUARY 2024**

If you need any assistance with this, please contact *events@imarest.org*

1. **Create an EasyChair account and log in at www.easychair.org**

To submit you're abstract, you need an EasyChair account. If you do not have an EasyChair account, you should create one. *This help article* explains how to create an account.

If you already have an EasyChair account, ignore this step. You do not need a separate account for each conference to which you submit.

2. **Enter the conference(s) as an "author"**

Then click on "make a new submission".

KEY DATES

Abstract submission **22 January 2024**

Notification to successful authors **7 March 2024**

Receipt of full technical paper **13 May 2024**

VENUE
THE SPINE, LIVERPOOL, UK