



HSI2022

Human Systems Integration
Workshop

Torrance, CA, USA

November 16 – 18, 2022

Registration is open



The Venue

Torrance Marriott Redondo Beach

3635 Fashion Way
Torrance, California 90503 – USA

Dates

Wednesday 16 –
Friday 18 November, 2022

WELCOME

The INCOSE Human Systems Integration (HSI) Workshop 2022 will be held from Wednesday, November 16 to Friday, November 18 at the Torrance Marriott Redondo Beach in Torrance, CA.

Building on the success of the digital HSI Workshop organized in 2020 with INCOSE Israel Chapter and ESTIA Institute of Technology, the INCOSE Human Systems Integration working group decided to have a more interactive workshop in 2022 and to include contributions and experience of renowned speakers. There will be three lecturers on contemporary HSI topics, such as situational awareness, human-machine teaming, organizational automation, levels of autonomy, and others. In addition, there will also be presentations and discussions on the status of INCOSE HSI Primer (volume I, II and III). Our current partnership and activities with the International Ergonomics Association (IEA) will be discussed with representatives from INCOSE and IEA. Several laboratory activities will be presented by various representative research centers from around the world. Finally, other INCOSE working groups will participate to foster collaboration on HSI in systems engineering.

The HSI Workshop 2022 will be a hybrid event. Sessions will be limited to 90 minutes to maintain a good level of attention for both participants attending in person and virtually. Our goal is to maintain a high level of interaction between participants. See you in Torrance!

Guy Andre Boy

Chair of the INCOSE Human Systems Integration working group

Registration is open

	In person participation	Virtual participation
Full Member	\$250	\$150
Full non member	\$300	\$195
One day	\$100	N/A
Student	\$85	\$50
Tutorial only (Nov 15)	\$50	\$50

Hotel reservation information

A limited number of guestrooms will be available for INCOSE International Workshop participants at the special group room rate of \$199 per night.

Make your reservation by Monday, October 24.

Contact us

registration@incose.net

More information www.incose.org/hsiws2022

Program

Tuesday 15 November

10:00—17:00 Tutorial: HSI Engineering: Theory and Framework for STS Integration

Wednesday 16 November

08:30—09:30 Welcome & Invited talk: HSI State of the Art at INCOSE & Human-Machine Teaming

09:30—10:30 Workshop 1: INCOSE HSI Primer - Volumes 1 & 2 (HSI 101)
10:30—11:00 Break

Parallel sessions

11:00—12:30 Where Are we Wrong? -Integration of Human-System Considerations in Ventures

11:30—12:30 Panel: Agnostic Characteristics of MB-HSI

12:30—13:30 Lunch

Parallel sessions

13:30—15:00 Before everything: the need of strategic vision to improve architecting from the HSI perspective

HSI in SE Technical Leadership with INCOSE TLI

13:30—15:00 Break

Parallel sessions

15:30—17:00 Implementation and Changing Trends in Requirements with INCOSE Requirements WG

15:30—17:00 Lab Talk

15:30—17:00 Training-centred Design

18:00—19:30 Welcome reception

Thursday 17 November

08:30—09:30 Invited Talk: HSI at the NASA JPL

Parallel sessions

09:30—10:30 Workshop 2: INCOSE HSI Primer - Vol 3+

10:30—11:00 Break

11:00—12:30 Panel: HSI and Readiness Levels: Defining a shared language and approaches - INCOSE HSI WG / IEA / IEEE / ACM SIG-CHI

12:30—13:30 Lunch

Parallel sessions

13:30—14:00 Lab Talk: Human-Robot AI

13:30—15:00 Panel: Human Contribution to Safety - It's Not Just About Error

13:30—15:00 Intersections of Human Systems, Social Systems and Social Justice (with INCOSE Social Systems WG)

15:00—15:30 Break

Parallel sessions

15:30—17:00 Lab Talk: Flextech Modelling & Simulation

15:30—17:00 Modelling & Simulation Specifics (case studies)

Friday 18 November

08:00—09:00 Invited Talk: Beyond socio-technical systems: Designing and using AI in networks of accountability

09:00—10:00 WORKSHOP 3: INCOSE HSI Website

10:00—10:30 Break

Parallel sessions

10:30—11:30 Digital Twins

10:30—11:30 Lab Talk: Autonomous Vehicles & Human Operators Lab

Parallel sessions

11:30—12:30 Human-centred AI with INCOSE AI WG

11:30—12:30 Lab Talks:

1. HSI Education and Research Directions at the Air Force Institute of Technology

2. SAFEMODE : exploring synergies between Aviation and Maritine for Human Informed Risk Design

12:30—13:00 Wrap up & Conclusions

13:00—14:00 Lunch

