



2021
Annual **INCOSE**
international workshop
Virtual Event
January 29 - 31, 2021

Human Systems Integration

www.incose.org/IW2021

CHAIR

Guy Andre Boy (CentraleSupélec & ESTIA)

INCOSE WEB PAGE



<https://connect.incose.org/WorkingGroups/HSI/Pages/Home.aspx>

INCOSE CONNECT ADDRESS



<https://www.incose.org/incose-member-resources/working-groups/analytic/human-systems-integration>

Charter Summary



2021
Annual **INCOSE**
international workshop
Virtual Event
January 29 - 31, 2021

WG PURPOSE/MISSION

Human Systems Integration (HSI) is the interdisciplinary technical and management process used to ensure that the human elements of a system are appropriately addressed and integrated throughout the wider systems engineering lifecycle and management approach to a project.

Integrate Technology, Organizations & People in Systems Engineering Practice

WG GOAL(S)

HSI is a vital part of the Systems engineering effort, i.e., we need to move HSI from a ?side effort? to a central part of systems engineering and development.

Integrate Systems Engineering and Human-Centered Design during the whole Life Cycle of a Human-Machine System

Charter Summary



2021
Annual **INCOSE**
international workshop
Virtual Event
January 29 - 31, 2021

WG SCOPE

Address practices in **Design and Engineering**
Certification and Legal Issues
Product Usages and Maintenance

OUTCOMES (PRODUCTS/SERVICES)

The signing of the MOU between INCOSE and IEA (International Ergonomics Association) in November 2020 is a historical milestone.

In 2020, The HSI WG organized three workshops (January in California; April in Germany (virtual); and October by INCOSE Israel and ESTIA Institute of Technology, France)

2020 Workshop was very well attended (350 participants and 24 countries)

Write-up of the first draft of the HSI Chapter for the 5th edition of the SE Handbook (delivered early 2021)

Work in progress on an HSI guideline document

Active participation at IW2021 (3 sessions of 3 hours each)

IW Outcomes



2021
Annual **INCOSE**
international workshop
Virtual Event
January 29 - 31, 2021

IW OUTCOMES

INCOSE HSI for the next two years?

Consolidate cooperation with IEA, ACM and IEEE

Set-up a recurring webinar on HSI

Have HSI Session(s) at IS2020

Organize HSI2021

HSI workshops Fall 2020 (done and success)

HSI chapter for SE Handbook (first draft done)

Maintain HSI webpage?

PLANNED ACTIVITIES AFTER IW

Three sessions on HSI in our growing digital world

Speakers: Ami Harel (INCOSE Israel); Holly Handley (IEEE HSI TC Chair); Cynthia Null (NASA head of HSI); Michelle Robertson (IEA Representative of the COSE-IEA MOU); Gopal Jani (INCOSE India); Peter Moertl (Graz University, Austria); Jean-Jacques Speyer (Free University of Brussels); Grace Kennedy (INCOSE Australia); Avigdor Zonnenshain (Technion, Israel)

PLANNED WORK PRODUCTS AFTER IW

HSI Chapter for the SEH5E

HSI WG Guidelines

HSI2021 Conference