



2019

Annual **INCOSE**
international workshop

Torrance, CA, USA

January 26 - 29, 2019

Human-Systems Integration

www.incose.org/iw2019

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CHAIR

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MEMBERS

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INCOSE CONNECT ADDRESS



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

INCOSE WEB PAGE

Charter Summary



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WG PURPOSE/MISSION

Human Systems Integration: interdisciplinary technical and management processes for integrating human considerations within and across all system elements; an essential enabler to systems engineering practice. Systems are considered as representations of technology, organizations and people. Systems have structures and functions. They can be cognitive and/or physical.

Our mission is to facilitate embedding Human Systems Integration (HSI) within Systems Engineering (SE), and conversely SE within HSI, promoting the benefit of placing the proper focus on the role of people in the development and operations of systems. Our vision is to see HSI embedded in SE practices, leading to the efficient delivery of safe and effective systems.

WG GOAL(S)

Our goals are multiple:

1. Write up a new HSI section to replace the existing within INCOSE SE Handbook and integrate content with other working groups such as Systems Safety, Systems of Systems, Agile Development, Complexity Analysis, Modeling and Simulation (target 2020).
2. Organize meetings, teleconferences and workshops dealing with HSI.
3. Organize the first HSI conference on September 11-13, 2019 in Biarritz, France. This conference will be recurrent biannually.
4. Organize a workshop/sessions on HSI at IS2020 in South Africa.

WG SCOPE

HSI WG scope covers the shift from 20th century engineering leading to the concept of user interfaces to 21st century HSI where technology, organizations and people are concurrently considered during the whole life cycle of systems.

IW Outcomes



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IW Outcomes

We had two sessions of 3 hours each during IW2019. Outcomes were multiple: (1) preparation of HSI2019 conference; (2) review latest work in progress in HSI; (3) elicit ideas and concepts useful for writing HSI part of INCOSE SE Handbook (target 2020). Still work in progress but very dense knowledge gathering and production; (4) plan a workshop/sessions for IS2020; (5) keep developing INCOSE HSI community.

Planned Work past IW



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PLANNED ACTIVITIES

Planned activities are the following:

1. organize HSI2019 conference (submissions review, logistics, panels and keynotes);
2. cross-WG collaboration with Systems Safety WG;
3. produce a first draft of HSI SE Handbook part by September 2019, and a follow-up contribution by IW2020.

PLANNED WORK PRODUCTS

Planned Work Products are:

1. HSI2019 conference;
2. common understanding with Systems Safety WG;
3. HSI SE Handbook contribution by IW2020.