



2020

Annual **INCOSE**
international workshop

Torrance, CA, USA

January 25 - 28, 2020

Complex Systems

www.incose.org/IW2020

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MEMBERS

20 Active and 40 in WG
Community

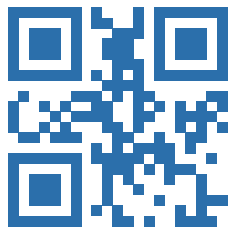
CO-CHAIRS

Michael Watson (michael.d.watson@nasa.gov)

Ali Raz (akraz@purdue.edu)

Michael Do (michael.do@comcast.net)

INCOSE CONNECT ADDRESS



NA

INCOSE WEB PAGE



NA

Charter Summary



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WG PURPOSE/MISSION

We operate at enlarging the intersection of Complex Systems Science and Systems Engineering, focusing on knowledge that is not addressed in current systems engineering documentation such as standards, handbooks, and textbooks. Applicable sciences include chaos, complexity, complex adaptive systems, nonlinear static and dynamics, networks, social science, neuroscience, evolution, power laws, ecology, and others.

WG GOAL(S)

Although complex analysis is important, our goal is to make a difference in synthesis (creation of new systems). Therefore, we want to develop useful products that will help INCOSE members and their organizations.

WG SCOPE

CSWG intends to collaborate with other working groups (i.e. System of Systems, System Science, Natural Science, etc.) in order to understand the nature of complex systems from the perspective of the various working groups and it's applications across different industry domains.

IW Outcomes



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IW Outcomes

- Joint sessions to enhance collaboration with System of Systems, Systems Science, Natural Systems, and Sociology of SE
- Primer updates (Complex System Definition)
- Inputs to SE Handbook, Rev 5
- Artificial Intelligence SE Primer
- Radar Chart to consider complex systems characteristics
- Complexity Management
- Complexity Levels
- Modeling Tools for Complexity

Planned Work past IW



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PLANNED ACTIVITIES

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- Artificial Intelligence SE Primer
- Radar Chart to consider complex systems characteristics
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- Complexity Levels
- Modeling Tools for Complexity

PLANNED WORK PRODUCTS

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