

Fellow INCOSE members,

Please join me on February 17th from 11am-12pm EST for the next INCOSE webinar. As described in the flyers on the INCOSE Connect website, Yaniv Mordecai will give a presentation on "Minding the Cyber-Physical Gap: Modeling Reality vs. its Perception by Systems with OPM"

Instructions for viewing the webinar are later in this email. You will also find a copy of the joining instructions on the new INCOSE Connect website, at

<https://connect.incose.org/Library/Webinars/Pages/INCOSE-Webinars.aspx>

Note that the webinar is a combination of PowerPoint slides + audio. You need to set your browser to the url listed below to see the slides and also dial into the phone number below to hear the audio. We are using Webex for this webinar. Please note that you can now access the webinar using mobile devices. There are 300 virtual seats available for the webinar. Right now they are available on a first-come, first-served basis.

If you miss the webinar on 17th February, you will be able to see a recording of it on INCOSE Connect at

<https://connect.incose.org/Library/Webinars/Pages/INCOSE-Webinars.aspx> where you will also be able to view the previous eighty-six INCOSE webinars.

Please note that you can now receive a PDU in support of certification renewal by attending an INCOSE technical webinar. Here is the link to details about certification renewal, including information on PDUs.

<http://www.incose.org/certification/CertFAQs>

Regards,

Andy Pickard

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INCOSE Webinar 87 - Minding the Cyber-Physical Gap: Modeling Reality vs. its Perception by Systems with OPM

Presenter: Yaniv Mordecai

Wednesday 17 February 2016, 11:00am EST

You're Invited.

Abstract:

The cyber-physical gap (CPG) is the conceptual gap between reality and its representation by systems that must react to it. Affecting lives of humans around the globe, CPG is a critical consideration in modern systems engineering and operation. As the model-based systems engineering (MBSE) paradigm is gaining traction, conceptual modeling frameworks still focus on the nominal system model, hardly accommodating disruptive impacts, such as risk and CPG, and their potential adverse effects. Focus on nominal scenarios requires costly maintenance, coordination, and integration of such extraneous satellite models with the "main" nominal model. This results in loss of information, inconsistency, and contradiction. To solve this problem, we propose an Object – Process Methodology (OPM) - based modeling pattern that captures CPG. Detecting CPG, this pattern enables modeling agent-conceived anomalies and mitigation paths to prevent or minimize adverse impacts of wrong system decisions and actions on the system and its environment. This approach significantly increases the reliability and utility of the model and the robustness of the resulting system. We present the value of this approach by its application to several cases, including the Three Miles Island 2 nuclear accident, airport operations, and ballistic missile defense (*joint work with Professor Dov Dori*).

Event address for attendees:

<https://incoseevents.webex.com/incoseevents/onstage/g.php?d=595621711&t=a>

Event number: 595 621 711

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