

INCOSE Webinar 85 – Object-Process Methodology – the new ISO 19450 Standard: Principles and MBSE Applications

Presenter: Professor Dov Dori

Wednesday 16 December 2015, 11:00am EST

You're Invited.

Abstract:

On December 15, 2015, Object-Process Methodology (OPM) is scheduled to become ISO 19450 Publically Available Specification (PAS), making it freely downloadable for the world. This will mark the end of a 6-year effort of dedicated people working under ISO TC184/SC5 to create the first ISO standard of a conceptual modeling language and methodology. In this talk I will outline the foundations of OPM, including its minimal ontology and the object-process theorem, which states that stateful objects, processes that transform them, and relation among these things constitute a necessary and sufficient set of building blocks for modeling systems in any domain. Moreover, using OPM's built-in refinement mechanisms of in-zooming and unfolding, there is no limit to the level of complexity of the resulting system models, which nevertheless remain humanly comprehensible.

Unique features of OPM include its single diagram kind and its real-time translation to simple English sentences, making it amenable to joint customer modeling of requirements as a first system lifecycle stage. This model evolves to include alternative concept solutions, detailed design, testing, and implementation, without the need to switch to another language or methodology. Finally, I will provide diverse applications of OPM ranging from cyber-physical systems to molecular biology ones.

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