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**When**

Wednesday December 19<sup>th</sup> 2018 from 11am-12pm EST  
(4pm – 5pm UTC)

**Topic**

Agile MBSE with OPM ISO 19450 Using OPCloud

**Speaker**

Professor Dov Dori



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## Abstract

Industry 4.0 and the emergence of the IoT era have underscored the growing need for a modeling language that will be simple, intuitive, yet semantically powerful and formal so it can serve as a basis for agile product and system lifecycle support and emerging standards as mass customization. OPM ISO 19450 has been developed with this in mind. Based on a universal minimal ontology of objects as things that exist and processes as things that transform them, OPM has just one kind of diagram and is enhanced with natural language text as a complementary modality that caters to humans' dual channel processing. In the talk, I will briefly present the principles and foundations of OPM and present OPCloud - a collaborative Cloud-based OPM modeling environment, which integrates conceptual modeling with computational aspects, which will be integrated into the new version of the ISO 19450 standard.

## Biography

Professor Dov Dori is Fellow of IEEE, INCOSE, and IAPR, and member of Omega Alpha Association - International Honor Society for Systems Engineering. He is Head of the Enterprise Systems Modeling Laboratory at Technion and has intermittently been Visiting Professor at MIT, where he holds an adjunct position with the Systems Design and Management Program. Since 1993, when Dr. Dori invented Object-Process Methodology (OPM), he has been central to the field of Model-Based Systems Engineering. OPM is the first conceptual modeling language and methodology recognized as the industry standard ISO 19450:2015. Prof. Dori has authored over 300 highly cited publications. He has supervised over 50 graduate students in Israel and USA, of whom 13 are faculty members in several countries. Prof. Dori has chaired nine international conferences. He was Associate Editor of IEEE T-PAMI and Systems Engineering, and Co-Chair of the IEEE Society on SMC, TC on Model-based Systems Engineering. His 2002 book on OPM has been cited over 530 times, and he authored another book on Model-Based Systems Engineering with OPM and SysML (2016). He has received various research and innovation awards. His research is funded by public and industrial sponsors, including the EU, Whirlpool, and Airbus

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<https://www.incose.org/systems-engineering-certification/certification-faqs>

Regards,

Andy Pickard  
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