

7th Annual INCOSE Great Lakes Regional Conference

Leadership Through Systems Engineering

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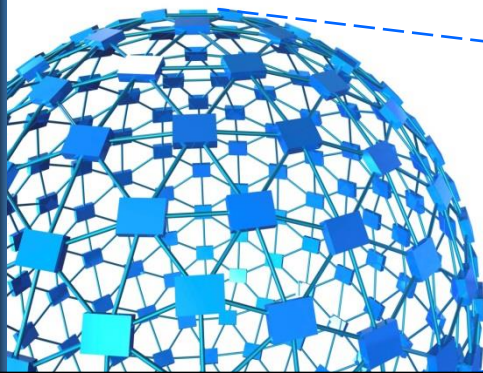
Raymond Jorgensen, *Abstracting Views of System Architecture: Exploring Perspectives of Software Intensive System Design*

Objective: To encourage effective visualization of system architecture, considering multiple perspectives of component relationships for complex, software intensive system architectures.

Summary: Most systems engineering projects capture "system architecture" with a block diagram, on which "boxes" represent mechanical components and lines represent cabling or electrical signal flows. However, in software intensive systems, how do you represent the software components of the architecture? What happens when the underlying "hardware" is "simple", but the software system architecture is very complex? In this session, we'll explore the necessity and concepts for depicting the software systems architecture, depicting the relationships between software elements of a complex system using the views and perspectives of an Integrated Modular Solution Architecture (IMSA) approach to systems architecting. What are the possible relationships between software elements of a complex system?

Author:

Abstract



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