

Architecture Design in Software-Intensive Systems Engineering

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Abstract: System engineering is a holistic approach that adopts a systems thinking approach considering the analysis and synthesis of concerns of multiple different disciplines such as software engineering, electrical engineering, mechanical engineering, and control engineering. The architecture design is a key activity in the systems engineering lifecycle to ensure the realization of various stakeholder concerns. For designing the system architecture, architecture frameworks are adopted that define a coherent set of viewpoints for representing the different concerns. This talk will discuss the current state and role of architecture frameworks in the systems engineering life cycle process and elaborate on the obstacles and challenges in architecting software-intensive systems.