

From Academy to Practice: iStar Models to Orchestrating Complex Information Systems Lifecycle

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Abstract. Modern enterprises rely on Information Systems required both to support their operation and provide information required to endorse strategic decisions. Because of their increasing complexity, such systems are usually constructed by integrating software components of different nature and origins, e.g., commercial off-the-shelf components (COTS), free and open source software (FOSS), web services and micro-services and also bespoke software and legacy systems, into complex hybrid systems. To support their design, implementation and evolution, non-traditional, non-sequential “random lifecycles” are required. In such lifecycles, traditional system engineering activities such as requirements elicitation, architectural design and system integration are randomly intertwined, on-demand, with more contemporary activities such as components evaluation and selection, integration with legacy systems, transition among legacy and newly acquired or developed components, among others. In this talk we invite the audience to explore creative ways in which i* models can be used, both in academy and practice, to support activities in complex random lifecycles applied over Information Systems.