

ModelWriter: Text & Model-Synchronized Document Engineering Platform

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Abstract

The ModelWriter platform provides a generic framework for automated traceability analysis. In this presentation, we demonstrate how this framework can be used to trace the consistency and completeness of technical documents that consist of a set of System Installation Design Principles used by Airbus to ensure the correctness of aircraft system installation. We show in particular, how the platform allows the integration of two types of reasoning: reasoning about the meaning of text using semantic parsing and description logic theorem proving; and reasoning about document structure using first-order relational logic and finite model finding for traceability analysis.