

Uml Model Inconsistencies

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Uml Model Inconsistencies

Examples of Inconsistency

Inconsistencies within UML models or between UML models and requirements, standards, or other design artifacts may result directly in software defects IV&V capability for systematic UML model consistency checking can help prevent these defects Audit and evaluation of inconsistencies may also

A NEW TAXONOMY OF INCONSISTENCIES IN UML MODELS ...

well-known classifications of inconsistencies in UML models Section 3 describes a new taxonomy to classify UML model inconsistencies based on two kinds of classifications called respectively terminological and typological Section 4 gives some representative examples to illustrate the various combinations of inconsistencies Section 5 presents the

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Fixing Inconsistencies in UML Design Models

focus of this paper is on UML design models, where unintentional side effects lead to inconsistencies We demonstrate that a tool can assist the designer in discovering unintentional side effects, locating choices for fixing inconsistencies, and then in changing the design model...

RULE-BASED DETECTION OF INCONSISTENCY IN UML MODELS

on hold until the modification is complete, or new inconsistencies will be introduced to the model An example of such is to convert a design represented in UML to one in an architectural description language, eg, Rapide [16] 3 Inconsistency Identification In section 2, a number of classes of generally occurring design inconsistencies are pre-

Checking Inconsistencies in UML Design

In this paper model faults concerned with cross-diagram inconsistencies are considered First, we present a simple method for detecting the cross-diagram inconsistencies in a UML design and its Java implementation Then the general model of UML design for verification and refining purposes is introduced and discussed

A Model Driven Framework for Automatic Detection and ...

attributes of the software The consequences of model inconsistencies will have ripple effect in three areas such as cost, development time and delivery Though UML provides unified and common notations across the globe, the developers may use the models inappropriately leading to model inconsistencies...

Extensible Real Time Software Design Inconsistency Checker ...

inconsistencies in model-driven software development has been challenging However, there is an encouraging fact that the emergence of Unified Modelling Language (UML) brought uniform notations to be used across the globe Many UML based design consistency checkers came into existence

Generating and Evaluating Choices for Fixing ...

operations We must look at the actual UML model, to understand what this instruction means The bottom of Figure 4 depicts the portion of the UML model that is accessed by Inconsistency 1 There we see that messagereceiver is the object st, receiverbase is the ...

Visual Modelling: past, present and future

alone UML diagrams), because its defined in terms of the same MOF foundation as UML, MOF model-manipulation tools can be used with SBVR-defined models to bring the benefits of precise, model-based reasoning to the task of representing how any businesses operates Another important business modelling specification in OMG's modelling stable is the

Supporting the Evolution of UML Models

System model - A system model is the conceptual model that describes and represents the different aspects of a system, including both the structural and the behavioral aspects UML comprises a comprehensive set of diagrams that are used to express the system model

Description Logics for Consistency Checking of ...

The standard for UML 2.0 is defined by its metamodel This specification does not require that UML CASE tools implement consistency control neither between model diagrams nor among individual model elements The main reason why this is so is because temporal model inconsistencies ...

Building Consistent UML Models for Better Model Driven ...

Using constraints to check UML model inconsistencies has widely been used in many consistency checking methods (for instance [23], [24], [25] and [26]) The main idea behind this technique is to define formal constraints at the meta-level of UML in order to be applied to the UML artifacts This technique follows a consistency by

Inconsistency Management in Model-Driven Engineering

To be able to define the occurrence of UML model inconsistencies precisely and unambiguously, there is first of all a need to formalise the UML's abstract syntax and concepts

IEC 61850 SCL Validation Using UML Model in Modern Digital ...

model [8] The UML model supports XML Metadata Interchange (XMI) for the interchange of UML metadata between systems In this paper, we propose a technique for verifying standard data compliance for arbitrary IEC 61850 based devices using UML and XMI Current SCL validators

require manual update of the

DISSERTATION A SCENARIO-BASED TECHNIQUE TO ANALYZE ...

inconsistencies between UML design class models and scenarios The Unified Modeling Language (UML) is the de-facto standard object-oriented modeling language [UML] UML class models are often used by developers to describe object-oriented A UML design class model can be used to describe two aspects of a software design:

Generating and Evaluating Choices for Fixing ...

operations We must look at the actual UML model, to understand what this instruction means The bottom of Figure 4 depicts the portion of the UML model that is accessed by Inconsistency 1 There we see that messagereceiver is the object st, receiverbase is the class Streamer, and baseoperations are the methods {connect(), stream(), wait

1. [PDF]

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cobwebcsugaedu/~kochut/teaching/x050/UML-25pdf

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