

## **Uml Model Inconsistencies**

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**Identification and Check of Inconsistencies between UML ...  
Generating and Evaluating Choices for Fixing Inconsistencies in UML Design Models Alexander Egyed 1,2,  
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**UML models consistency management: Guidelines for software ...  
UML Model Inconsistencies - Kindle edition by Pavan Kumar Thalanki, Vinay Kiran Maddukuri. Download it once and read it on your Kindle device, PC, phones or tablets. Use features like bookmarks, note taking and highlighting while reading UML Model Inconsistencies.**

**Generating and Evaluating Choices for Fixing ...  
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. However an effective automated approach for consistency**

**An Automated Translation of UML Class Diagrams into a ...  
The Unified Modeling Language (UML) is a general-purpose, developmental, modeling language in the field of software engineering that is intended to provide a standard way to visualize the design of a system.. The creation of UML was originally motivated by the desire to standardize the disparate notational systems and approaches to software design.**

**Managing Inconsistencies in UML Models: A Systematic ...  
The 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.**

**Uml Model Inconsistencies  
Inconsistency UML Model Checking Tools UML/Analyzer is an incremental consistency checking tool. The tool locates inconsistencies and presents them in a graphical interface. The interface allows the user to select a specific inconsistency, choose how to fix it, and re-analyze the model see if the fix made anything else inconsistent. This process is repeated until all defects are re-solved. UML/Analyzer includes both UML and OCL model**

**Unified Modeling Language - Wikipedia  
The check-list is used for understanding the internal aspects in the UML RA model. As the result, it is expected that unclear actions and the inconsistencies such as mismatch of pre/post conditions between actions, and inadequate relations between an action and objects are discovered. Table Table1 1 shows all of the check items we propose.**

**Analyzing Inconsistencies in UML/OCL Models | Journal of ...  
Fixing Inconsistencies in UML Design Models Abstract: Changes are inevitable during software development and so are their unintentional side effects. The focus of this paper is on UML design models, where unintentional side effects lead to inconsistencies.**

**Detecting Inconsistencies in Multi view UML Models  
translations into a formal notation to detect UML inconsistencies. Therefore, UML inconsistencies are insidiously injected into any generated implementat ion, when not removed. According to a definition provide d in [7], inconsistency denotes any situation in which a set of**

**Fixing Inconsistencies in UML Design Models  
Intra model (or horizontal) inconsistency: Produced when the consistency is not validated between different models or submodels at the same level of abstraction. It means that they can overlap and sometimes include conflicting specifications. For example, in any UML model, the class diagrams and their associated sequence**

**A NEW TAXONOMY OF INCONSISTENCIES IN UML MODELS WITH THEIR ...**

**Fixing Inconsistencies in UML Design Models. ... Not only is it hard to detect new inconsistencies while the model changes but it also hard to keep track of known inconsistencies.**

**(PDF) Fixing Inconsistencies in UML Design Models**

**inconsistencies in UML models at the meta-level using Epsilon Validation Language (EVL) [28]. The method consists of defining a set of EVL constraints to detect and fix inconsistencies when modeling a software system in an MDA context. The rest of the paper is organized as follows. Section II introduces the whole idea and the key features used in**

**RULE-BASED DETECTION OF INCONSISTENCY IN UML MODELS**

**UML is an industrial standard for designing and developing object-oriented software. It provides a number of notations for modeling different system views, but it still does not have any means of...**

**UML Model Inconsistencies, Pavan Kumar Thalanki, Vinay ...**

**Relationships between Unified Modeling Language (UML) diagrams are complex. The complexity leads to inconsistencies between UML diagrams easily. This paper focus on how to identify and check inconsistencies between UML diagrams. 13 consistency rules are given to identify inconsistencies between the most frequent 6 types of UML dia-**

**Building Consistent UML Models for Better Model Driven ...**

**Horizontal model consistency is also known as the intra-model consistency problem, occurs when consistency is not validated between different UML models that conform to the same meta-model (Hilken, Seiter, Wille, Kühne, & Drechsler, 2014). For example, the class diagrams and their associated state diagram should be consistent.**

**Extensible Real Time Software Design Inconsistency Checker ...**

**inconsistencies of UML models, and (2) provide a tool that execute the inconsistency detection automatically. 4. DIUML TOOL The process of detecting inconsistencies in UML models of DIUML has two premises. The first includes the detection of inconsistencies in multi-view UML models through metrics and algorithms using mathematical logic.**

**Fixing Inconsistencies in UML Design Models - IEEE ...**

**We define a classification scheme of design inconsistencies that occur in the design representation, and develop our production rules based on these classes of inconsistencies. This paper presents part of our classification scheme of design inconsistencies and describes an inconsistency identification mechanism specific to UML design models.**

**Checking Inconsistencies in UML Design**

**In this contribution, we propose an automatic method which efficiently determines reasons explaining the contradiction in an inconsistent UML/OCL model. For this purpose, all constraints causing the contradiction are comprehensibly analyzed. By this, the designer is aided during the debugging of his/her model.**

**Examples of Inconsistency - NASA**

**checking inconsistencies in UML design and the general method of UML design verification using its own model and first order predicate logic to specify relations between components of the design. Unlike various existing methods the proposed ones are focused mostly on cross-diagram inconsistencies and strong adhering to object-oriented principles.**

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