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Model checking is based on checking models. So, we first start by explaining what models are, and will make clear that so-called labeled transition systems, a model that is akin to automata, are suitable for modeling sequential, as well as multi-threading programs.

Introduction to Model Checking | Informatik 2

Model Checking Basic Concepts: • Systems are modeled by finite state machines • Properties are written in propositional temporal logic • Verification procedure is an exhaustive search of the state space of the design • Diagnostic counterexamples. 4. What we have learned so far (2)

Formal Verification by Model Checking

In computer science, model checking or property checking is a method for checking whether a finite-state model of a system meets a given specification. This is typically associated with hardware or software systems, where the specification contains liveness requirements as well as safety requirements. In order to solve such a problem algorithmically, both the model of the system and its specification are formulated in some precise mathematical language. To this end, the problem is formulated as

Model checking - Wikipedia

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We survey principles of model checking techniques for the automatic analysis of reactive systems. The use of model checking is exemplified by an analysis of the Needham-Schroeder public key protocol. We then formally define transition systems, temporal logic, ω -automata, and their relationship.

Model Checking: A Tutorial Overview

Informal description Model checking is an automated technique that, given a finite-state model of a system and a formal property, systematically checks whether this property holds for (a given state in) that model. Prof. Joost-Pieter Katoen Introduction to Model Checking Software Errors Software Correctness Model Checking Course Details

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Principles of Model Checking offers a comprehensive introduction to model checking that is not only a text suitable for classroom use but also a valuable reference for researchers and practitioners in the field.

Principles of Model Checking by Christel Baier

Model checking is a verification technology that provides an algorithmic means of determining whether an abstract model—representing, for example, a hardware or software design—satisfies a formal specification expressed as a temporal logic formula.

Model Checking, Second Edition | The MIT Press

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