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Principles Of Model Checking Solutions

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.The book begins with the basic principles for modeling concurrent and communicating systems, introduces different classes of properties (including safety and liveness), presents the notion of fairness, and provides automata-based algorithms for these properties.

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Principles of model checking. @inproceedings {Baier2008PrinciplesOM, title= [Principles of model checking], author= [Christel Baier and Joost-Pieter Katoen], year= [2008] } Christel Baier, Joost-Pieter Katoen. Published 2008. Computer Science. Our growing dependence on increasingly complex computer and software systems necessitates the development of formalisms, techniques, and tools for assessing functional properties of these systems.

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Gerard J. Holzmann, NASA/JPL Laboratory for Reliable Software " Principles of Model Checking, by two principals of model-checking research, offers an extensive and thorough coverage of the state of art in computer-aided verification.With its coverage of timed and probabilistic systems, the reader gets a textbook exposition of some of the most advanced topics in model-checking research.

Principles of Model Checking - ifmo.ru

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

Subtle errors, for instance due to multi-threading, that remain undiscovered using simulation or peer reviewing can potentially be revealed using model checking. Model checking is thus an effective technique to expose potential design errors and improve software and hardware reliability.

Introduction to Model Checking | Informatik 2

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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Very good book about automated model checking from first principles.A must-read for everybody who wants to know more on the topic. For the more pragmatic engineer who wants to use model checking this may be overkill although a better understanding of the technology will probably lead to better models or less frustration while building and running models.