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Verification Of Reactive Systems Formal

This book is devoted to the foundation of the most popular formal methods for the specification and verification of reactive systems. In particular, the μ -calculus, omega-automata, and temporal logics are covered in full detail; their relationship and state-of-the-art verification procedures based on these formal approaches are presented. Furthermore, the advantages and disadvantages of the formalisms from particular points of view are analyzed.

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This book is a solid foundation of the most important formalisms used for specification and verification of reactive systems. In particular, the text presents all important results on m-calculus, w-automata, and temporal logics, shows the relationships between these formalisms and describes state-of-the-art verification procedures for them.

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The research into the verification of reactive systems, in particular, into model checking, is one of the most impressive successes of theoretical computer science. Two decades after the publication of the basic papers on the formal foundation, the methods became mature enough for industrial usage.

Verification of Reactive Systems: Formal Methods and ...

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Verification of Reactive Systems: Formal Methods and ...

To meet these needs, early design phases nowadays include verification of given specifications against system descriptions to find, potential design errors as early as possible. This book is devoted to the foundation of the most popular formal methods for the specification and verification of reactive systems.

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This book is devoted to the foundation of the most important formalisms used for specification and verification of reactive systems. In particular, the text presents all important results on m-calculus, w-automata, and temporal logics, shows the relationships between these formalisms and describes state-of-the-art verification procedures for them.

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Tomás E. Uribe, Abstraction-based Deductive-Algorithmic Verification of Reactive Systems, PhD Thesis, Computer Science Department, Stanford University, December 1998. Abstract. Michael A. Colón and Tomás E. Uribe. Generating Finite-State Abstractions of Reactive Systems Using Decision Procedures.

CS357: Formal verification of reactive systems. Topics covered

In the paper a novel formal verification method for a state-based control part of a CPS is proposed. The control part is expressed by means of UML state machine diagrams, and the model checking technique (with the nuXmv tool [33]) is used to validate it.

Sensors | Free Full-Text | Formal Verification of Control ...

CS 256 (Spring 2008) Formal methods for reactive and concurrent systems. This course covers specification and verification of reactive systems, that is, systems that maintain an ongoing interaction with their environment. Verification methods are presented for proving that such reactive systems meet their specifications, expressed in temporal logic.

Zohar Manna's home page

INTRODUCTION After having worked through the material in this book, you will be able to describe non-trivial reactive systems and their specifications using the aforementioned models, and verify the correctness of a model of a system with respect to given specifications either manually or by using automatic verification tools like the Edinburgh Concurrency Workbench (Cleaveland et al., 1993) and the model checker for real-time systems UPPAAL(Behrmann et al., 2004).

Reactive Systems: Modelling, Specification and Verification

This book is about the verification of reactive systems. A reactive system is a system that maintains an ongoing interaction with its environment, as opposed to computing some final value on...

Temporal Verification of Reactive Systems: Safety - Zohar ...

“Formal methods is a term used to describe the specification and verification of software systems and software using mathematical logic. There are many books that look at particular methodologies for such systems, for example, this book offers a more balanced introduction for graduate students that describes the various approaches, their strengths and weaknesses, and when they are best used.

Reactive Systems: Modelling, Specification and Verification

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This book is about the verification of reactive systems. A reactive system is a system that maintains an ongoing interaction with its environment, as opposed to computing some final value on termination.

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The mission of the center for verification is to advance and promote the state of the art of formal verification of reactive systems until it is transformed from an academic discipline with a few success stories into a working practice that will take its right place within industrial processes as a standard stage in the development life-cycle of reactive systems.

The Minerva Center for Formal Verification of Reactive Systems

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The SPARK Pro verification environment, a toolset providing full formal verification oriented toward high-assurance systems with stringent security requirements. The QGen model-based development tool suite for safety-critical control systems, providing a qualifiable and customizable code generator and static verifier for a safe subset of ...

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