

Thomas Kropf

Introduction to Formal Hardware Verification



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Introduction To Formal Hardware Verification Methods And Tools For Designing Correct Circuits And Systems

**Orna Grumberg, Tobias
Nipkow, Christian Pfaller**



Introduction To Formal Hardware Verification Methods And Tools For Designing Correct Circuits And Systems:

Introduction to Formal Hardware Verification Thomas Kropf, 2013-03-09 Hardware verification is a hot topic in circuit and system design due to rising circuit complexity This advanced textbook presents an almost complete overview of techniques for hardware verification It covers all approaches used in existing tools such as binary and word level decision diagrams symbolic methods for equivalence checking and temporal logic model checking and introduces the use of higher order logic theorem proving for verifying circuit correctness It enables the reader to understand the advantages and limitations of each technique Each chapter contains an introduction and a summary as well as a section for the advanced reader Thus a broad audience is addressed from beginners in system design to experts *Advanced Techniques for Assertion-Based Verification in Hardware Designs Using Data Mining Algorithms* Mohammad Reza Heidari Iman, 2025-08-02 This book introduces leading edge techniques for verifying the complex electronic systems used in industries such as aerospace automotive and medical devices and ensuring the safety and security of these systems By focusing on advanced verification and security verification methods the author addresses the critical need to detect and prevent potential bugs errors and vulnerabilities such as Hardware Trojans in embedded systems With an emphasis on innovative approaches to assertion based verification this book provides valuable insights for engineers researchers and professionals dedicated to enhancing the functional verification security and trustworthiness of critical technological systems The methods described in this book address key shortcomings in current automatic assertion miners used for assertion based verification such as long execution times excessive and redundant assertion generation and inconsistency among generated assertions The author discusses several innovative methods tools and techniques such as ARTmine IMMizer and Dominance which enhance functional verification and facilitate the automatic generation evaluation and minimization of assertions Additionally novel techniques are introduced for security verification including a security based assertion miner for RISC V processors and ADAssure for debugging and bug localization in autonomous driving control algorithms of autonomous vehicles **System Level Design with .Net Technology** El Mostapha Aboulhamid, Frederic Rousseau, 2018-10-03 The first book to harness the power of NET for system design System Level Design with NET Technology constitutes a software based approach to design modeling verification and simulation World class developers who have been at the forefront of system design for decades explain how to tap into the power of this dynamic programming environment for more effective and efficient management of metadata and introspection and interoperability between tools Using readily available technology the text details how to capture constraints and requirements at high levels and describes how to percolate them during the refinement process Departing from proprietary environments built around System Verilog and VHDL this cutting edge reference includes an open source environment ESys NET that readers can use to experiment with new ideas algorithms and design methods and to expand the capabilities of their current tools It also covers Modeling and simulation including requirements specification

IP reuse and applications of design patterns to hardware software systems Simulation and validation including transaction based models accurate simulation at cycle and transaction levels cosimulation and acceleration technique as well as timing specification and validation Practical use of the ESys NET environment Worked examples end of chapter references and the ESys NET implementation test bed make this the ideal resource for system engineers and students looking to maximize their embedded system designs *Correct Hardware Design and Verification Methods* George J. Milne, Laurence

Pierre, 1993-05-12 These proceedings contain the papers presented at the Advanced Research Working Conference on Correct Hardware Design Methodologies held in Arles France in May 1993 and organized by the ESPRIT Working Group 6018 CHARME 2 and the Universit de Provence Marseille in cooperation with IFIP Working Group 10 2 Formal verification is emerging as a plausible alternative to exhaustive simulation for establishing correct digital hardware designs The validation of functional and timing behavior is a major bottleneck in current VLSI design systems slowing the arrival of products in the marketplace with its associated increase in cost From being a predominantly academic area of study until a few years ago formal design and verification techniques are now beginning to migrate into industrial use As we are now witnessing an increase in activity in this area in both academia and industry the aim of this working conference was to bring together researchers and users from both communities **Design of Reconfigurable Logic Controllers** Andrei

Karatkevich, Arkadiusz Bukowiec, Michał Doligalski, Jacek Tkacz, 2015-12-23 This book presents the original concepts and modern techniques for specification synthesis optimisation and implementation of parallel logical control devices It deals with essential problems of reconfigurable control systems like dependability modularity and portability Reconfigurable systems require a wider variety of design and verification options than the application specific integrated circuits The book presents a comprehensive selection of possible design techniques The diversity of the modelling approaches covers Petri nets state machines and activity diagrams The preferences of the presented optimization and synthesis methods are not limited to increasing of the efficiency of resource use One of the biggest advantages of the presented methods is the platform independence the FPGA devices and single board computers are some of the examples of possible platforms These issues and problems are illustrated with practical cases of complete control systems If you expect a new look at the reconfigurable systems designing process or need ideas for improving the quality of the project this book is a good choice g process or need ideas for improving the quality of the project this book is a good choice Formal Methods for Discrete-Time Dynamical

Systems Calin Belta, Boyan Yordanov, Ebru Aydin Gol, 2017-03-08 This book bridges fundamental gaps between control theory and formal methods Although it focuses on discrete time linear and piecewise affine systems it also provides general frameworks for abstraction analysis and control of more general models The book is self contained and while some mathematical knowledge is necessary readers are not expected to have a background in formal methods or control theory It rigorously defines concepts from formal methods such as transition systems temporal logics model checking and synthesis It

then links these to the infinite state dynamical systems through abstractions that are intuitive and only require basic convex analysis and control theory terminology which is provided in the appendix Several examples and illustrations help readers understand and visualize the concepts introduced throughout the book

Prototyping of Concurrent Control Systems Implemented in FPGA Devices Remigiusz Wiśniewski, 2016-09-30 This book focuses on prototyping aspects of concurrent control systems and their further implementation and partial reconfiguration in programmable devices Further it lays out a full prototyping flow for concurrent control systems Based on a given primary specification a system is described with an interpreted Petri net which naturally reflects the concurrent and sequential relationships of the design The book shows that apart from the traditional option of static configuration of the entire system the latest programmable devices especially FPGAs offer far more sophistication Partial reconfiguration allows selected parts of the system to be replaced without having to reprogram the entire structure of the device Approaches to dynamic and static partial reconfiguration of concurrent control systems are presented and described in detail p The theoretical work is illustrated by examples drawn from various applications with a milling machine and a traffic light controller highlighted as representative interpreted Petri nets Given the ubiquity of concurrent control systems in a huge variety of technological areas including transportation medicine artificial intelligence manufacturing security and safety and planetary exploration the innovative software and hardware design methods described here will be of considerable interest to control engineers and systems and circuits researchers in many areas of industry and academia

Correct Hardware Design and Verification Methods Laurence Pierre, Thomas Kropf, 2003-07-31 CHARME 99 is the tenth in a series of working conferences devoted to the development and use of leading edge formal techniques and tools for the design and verification of hardware and systems Previous conferences have been held in Darmstadt 1984 Edinburgh 1985 Grenoble 1986 Glasgow 1988 Leuven 1989 Torino 1991 Arles 1993 Frankfurt 1995 and Montreal 1997 This workshop and conference series has been organized in cooperation with IFIP WG 10.5 It is now the biannual counterpart of FMCAD which takes place every even numbered year in the USA The 1999 event took place in Bad Herrenalb a resort village located in the Black Forest close to the city of Karlsruhe The validation of functional and timing behavior is a major bottleneck in current VLSI design systems A predominantly academic area of study until a few years ago formal design and verification techniques are now migrating into industrial use The aim of CHARME 99 is to bring together researchers and users from academia and industry working in this active area of research Two invited talks illustrate major current trends the presentation by Gerard Berry Ecole des Mines de Paris Sophia Antipolis France is concerned with the use of synchronous languages in circuit design and the talk given by Peter Jansen BMW Munich Germany demonstrates an application of formal methods in an industrial environment The program also includes 20 regular presentations and 12 short presentations poster exhibitions that have been selected from the 48 submitted papers

Correct Hardware Design and Verification Methods Tiziana Margaria, Tiziana Margaria-Steffen, Tom F. Melham, 2001-08-27 This book constitutes the

refereed proceedings of the 11th IFIP WG 10.5 Advanced Research Working Conference on Correct Hardware Design and Verification Methods CHARME 2001 held in Livingston Scotland UK in September 2001 The 28 revised full papers and eight short papers presented together with two invited papers and one special paper were carefully reviewed and selected from 56 submissions The book offers topical sections on model checking clocking issues theorem proving with higher order logics hardware compilation tools component verification case studies algorithm verification and duration calculus

Formal Logical Methods for System Security and Correctness Orna Grumberg, Tobias Nipkow, Christian Pfaller, 2008 Offers information in the field of proof technology in connection with secure and correct software This title shows that methods of correct by construction program and process synthesis allow a high level programming method more amenable to security and reliability analysis and guarantees

Designing Correct Circuits Geraint Jones, Mary Sheeran, 2013-12-14 These proceedings contain the papers presented at a workshop on Designing Correct Circuits jointly organised by the Universities of Oxford and Glasgow and held in Oxford on 26-28 September 1990 There is a growing interest in the application to hardware design of the techniques of software engineering As the complexity of hardware systems grows and as the cost both in money and time of making design errors becomes more apparent so there is an eagerness to build on the success of mathematical techniques in program development The harsher constraints on hardware designers mean both that there is a greater need for good abstractions and rigorous assurances of the trustworthiness of designs and also that there is greater reason to expect that these benefits can be realised The papers presented at this workshop consider the application of mathematics to hardware design at several different levels of abstraction At the lowest level of this spectrum Zhou and Hoare show how to describe and reason about synchronous switching circuits using UNILY a formalism that was developed for reasoning about parallel programs Aagaard and Leaser use standard mathematical techniques to prove correct their implementation of an algorithm for Boolean simplification The circuits generated by their formal synthesis system are thus correct by construction Thuau and Pilaud show how the declarative language LUSTRE which was designed for programming real time systems can be used to specify synchronous circuits

Theorem Provers in Circuit Design Ramayya Kumar, Thomas Kropf, 1995-03-06 This two volume set contains papers presented at the International Conference on Computational Engineering Science ICES 95 held in Mauna Lani Hawaii from 30 July to 3 August 1995 The contributions capture the state of the science in computational modeling and simulation in a variety of engineering disciplines civil mechanical aerospace materials and electronics engineering

2nd Workshop on Libraries, Component Modeling and Quality Assurance Eugenio Villar Bonet, 1997 Compendio de los trabajos presentados en Toledo durante el 2nd Workshop on Libraries component modeling and quality assurance

Introduction to Formal Hardware Verification Thomas Kropf, 1999-10-16 This advanced textbook presents an almost complete overview of techniques for hardware verification It covers all approaches used in existing tools such as binary and word level decision diagrams symbolic methods for

equivalence and temporal logic model checking and introduces the use of higher order logic theorem proving for verifying circuit correctness Each chapter contains an introduction and a summary as well as a section for the advanced reader aiding an understanding of the advantages and limitations of each technique Backed by many examples and illustrations this text will appeal to a broad audience from beginners in system design to experts XXXXXXXX Neuer Text This is a complete overview of existing techniques for hardware verification It covers all approaches used in existing verification tools such as symbolic methods for equivalence checking temporal logic model checking and higher order logic theorem proving for verifying circuit correctness The book helps readers to understand the advantages and limitations of each technique Each chapter contains a summary as well as a section for the advanced reader **Formal Methods in Circuit Design** Victoria

Stavridou,1993-07-22 Graduate level account of hardware verification and algebraic specification Encyclopedia of Microcomputers Allen Kent,James G. Williams,1997-05-21 Visual Fidelity Designing Multimedia Interfaces for Active Learning to Xerox Corporation Quality-Driven SystemC Design Daniel Große,Rolf Drechsler,2009-12-02 A quality driven design and verification flow for digital systems is developed and presented in Quality Driven SystemC Design Two major enhancements characterize the new flow First dedicated verification techniques are integrated which target the different levels of abstraction Second each verification technique is complemented by an approach to measure the achieved verification quality The new flow distinguishes three levels of abstraction namely system level top level and block level and can be incorporated in existing approaches After reviewing the preliminary concepts in the following chapters the three levels for modeling and verification are considered in detail At each level the verification quality is measured In summary following the new design and verification flow a high overall quality results Design of Hardware/Software Embedded Systems Eugenio Villar Bonet,2001 Este libro presenta los desaf os planteados por las nuevas y sumamente poderosas tecnolog as de integraci n de sistemas electr nicos que est n en la base de los cambios sociales hacia lo que llaman la Sociedad de la Informaci n en la que los dispositivos electr nicos se har n una parte incorporada de la vida diaria encajados en casi cada producto Es necesario un conocimiento cuidadoso de los desaf os para aprovechar la amplia gama de ocasiones ofrecidas por tales capacidades de integraci n y las correspondientes posibilidades de dise o de sistemas electr nicos

VHDL Designer's Reference Jean-Michel Bergé,Alain Fonkoua,Serge Maginot,Jacques Rouillard,2012-12-06 too vast too complex too grand for description John Wesley Powell 1870 discovering the Grand Canyon VHDL is a big world A beginner can be easily disappointed by the generality of this language This generality is explained by the large number of domains covered from specifications to logical simulation or synthesis To the very beginner VHDL appears as a kit He is quickly aware that his problem may be solved with VHDL but does not know how He does not even know how to start In this state of mind all the constraints that can be set to his modeling job by using a subset of the language or a given design methodology may be seen as a life preserver The success of the introduction of VHDL in a company depends on solutions to many questions

that should be answered months before the first line of code is written Why choose VHDL Which VHDL tools should be chosen Which modeling methodology should be adopted How should the VHDL environment be customized What are the tricks Where are the traps What are the differences between VHDL and other competing HDLs Answers to these questions are organized according to different concerns buying the tools organizing the environment and designing Decisions taken in each of these areas may have many consequences on the way to the acceptance and efficient use of VHDL in a company

Advanced Computer Systems Jerzy Soldek, Khalid Saeed, Jerzy Pejas, 2012-11-05 Advanced Computer Systems is a collection of forty selected papers presented to the Eighth International Conference on Computer Systems October 2001 in Mielno Poland These papers provide a comprehensive summary of practice and research progress in information technologies Recognition Security and Safety concentrates on the widely known problems of information systems security Methods of Artificial Intelligence presents methods and algorithms which are the basics for the applications of artificial intelligence environments Intelligent Agents and Distributed Activities includes laboratory research on multiagent intelligent systems as well as upon their applications in searching information negotiating and supporting decision Distributed Productions Networks and Modeling Complex Systems present production processes in distributed shared virtual environment virtual solution of integer optimization problems and a queuing approach to performance optimization in the distributed production network

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