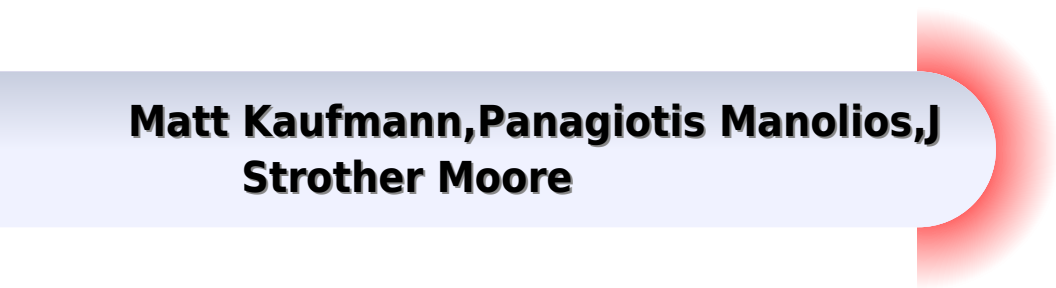


# **Computer-Aided Reasoning ACL2 Case Studies**

edited by  
**Matt Kaufmann**  
**Panagiotis Manolios**  
**J Strother Moore**

# Computer Aided Reasoning Acl2 Case Studies Advances In Formal Methods

**Matt Kaufmann, Panagiotis Manolios, J  
Strother Moore**



## **Computer Aided Reasoning Acl2 Case Studies Advances In Formal Methods:**

**Computer-Aided Reasoning** Matt Kaufmann, Panagiotis Manolios, J Strother Moore, 2013-04-17 Computer Aided Reasoning ACL2 Case Studies illustrates how the computer aided reasoning system ACL2 can be used in productive and innovative ways to design build and maintain hardware and software systems Included here are technical papers written by twenty one contributors that report on self contained case studies some of which are sanitized industrial projects The papers deal with a wide variety of ideas including floating point arithmetic microprocessor simulation model checking symbolic trajectory evaluation compilation proof checking real analysis and several others Computer Aided Reasoning ACL2 Case Studies is meant for two audiences those looking for innovative ways to design build and maintain hardware and software systems faster and more reliably and those wishing to learn how to do this The former audience includes project managers and students in survey oriented courses The latter audience includes students and professionals pursuing rigorous approaches to hardware and software engineering or formal methods Computer Aided Reasoning ACL2 Case Studies can be used in graduate and upper division undergraduate courses on Software Engineering Formal Methods Hardware Design Theory of Computation Artificial Intelligence and Automated Reasoning The book is divided into two parts Part I begins with a discussion of the effort involved in using ACL2 It also contains a brief introduction to the ACL2 logic and its mechanization which is intended to give the reader sufficient background to read the case studies A more thorough textbook introduction to ACL2 may be found in the companion book Computer Aided Reasoning An Approach The heart of the book is Part II where the case studies are presented The case studies contain exercises whose solutions are on the Web In addition the complete ACL2 scripts necessary to formalize the models and prove all the properties discussed are on the Web For example when we say that one of the case studies formalizes a floating point multiplier and proves it correct we mean that not only can you read an English description of the model and how it was proved correct but you can obtain the entire formal content of the project and replay the proofs if you wish with your copy of ACL2 ACL2 may be obtained from its home page The results reported in each case study as ACL2 input scripts as well as exercise solutions for both books are available from this page

**Computer-Aided Reasoning** Matt Kaufmann, Panagiotis Manolios, J Strother Moore, 2000-06-30 Computer Aided Reasoning ACL2 Case Studies illustrates how the computer aided reasoning system ACL2 can be used in productive and innovative ways to design build and maintain hardware and software systems Included here are technical papers written by twenty one contributors that report on self contained case studies some of which are sanitized industrial projects The papers deal with a wide variety of ideas including floating point arithmetic microprocessor simulation model checking symbolic trajectory evaluation compilation proof checking real analysis and several others Computer Aided Reasoning ACL2 Case Studies is meant for two audiences those looking for innovative ways to design build and maintain hardware and software systems faster and more reliably and those wishing to learn how to do this The former audience includes project managers and

students in survey oriented courses The latter audience includes students and professionals pursuing rigorous approaches to hardware and software engineering or formal methods Computer Aided Reasoning ACL2 Case Studies can be used in graduate and upper division undergraduate courses on Software Engineering Formal Methods Hardware Design Theory of Computation Artificial Intelligence and Automated Reasoning The book is divided into two parts Part I begins with a discussion of the effort involved in using ACL2 It also contains a brief introduction to the ACL2 logic and its mechanization which is intended to give the reader sufficient background to read the case studies A more thorough textbook introduction to ACL2 may be found in the companion book Computer Aided Reasoning An Approach The heart of the book is Part II where the case studies are presented The case studies contain exercises whose solutions are on the Web In addition the complete ACL2 scripts necessary to formalize the models and prove all the properties discussed are on the Web For example when we say that one of the case studies formalizes a floating point multiplier and proves it correct we mean that not only can you read an English description of the model and how it was proved correct but you can obtain the entire formal content of the project and replay the proofs if you wish with your copy of ACL2 ACL2 may be obtained from its home page The results reported in each case study as ACL2 input scripts as well as exercise solutions for both books are available from this page

Computer-Aided Reasoning Matt Kaufmann, Panagiotis Manolios, J Strother Moore, 2012-12-06 Computer Aided Reasoning An Approach is a textbook introduction to computer aided reasoning It can be used in graduate and upper division undergraduate courses on software engineering or formal methods It is also suitable in conjunction with other books in courses on hardware design discrete mathematics or theory especially courses stressing formalism rigor or mechanized support It is also appropriate for courses on artificial intelligence or automated reasoning and as a reference for business and industry Current hardware and software systems are often very complex and the trend is towards increased complexity Many of these systems are of critical importance therefore making sure that they behave as expected is also of critical importance By modeling computing systems mathematically we obtain models that we can prove behave correctly The complexity of computing systems makes such proofs very long complicated and error prone To further increase confidence in our reasoning we can use a computer program to check our proofs and even to automate some of their construction In this book we present A practical functional programming language closely related to Common Lisp which is used to define functions which can model computing systems and to make assertions about defined functions A formal logic in which defined functions correspond to axioms the logic is first order includes induction and allows us to prove theorems about the functions The computer aided reasoning system ACL2 which includes the programming language the logic and mechanical support for the proof process The ACL2 system has been successfully applied to projects of commercial interest including microprocessor modeling hardware verification microcode verification and software verification This book gives a methodology for modeling computing systems formally and for reasoning about those models with mechanized assistance The practicality of computer

aided reasoning is further demonstrated in the companion book *Computer Aided Reasoning ACL2 Case Studies*. Approximately 140 exercises are distributed throughout the book. Additional material is freely available from the ACL2 home page on the Web including solutions to the exercises, additional exercises, case studies from the companion book, research papers, and the ACL2 system with detailed documentation.

*Formal Methods in Computer-Aided Design* Warren A. Jr. Hunt, Steven D. Johnson, 2007-11-29. The biannual Formal Methods in Computer Aided Design conference FMCAD 2000 is the third in a series of conferences under that title devoted to the use of discrete mathematical methods for the analysis of computer hardware and software. The work reported in this book describes the use of modeling languages and their associated automated analysis tools to specify and verify computing systems. Functional verification has become one of the principal costs in a modern computer design effort. In addition, verification of circuit models, timing, power, etc., requires even more effort. FMCAD provides a venue for academic and industrial researchers and practitioners to share their ideas and experiences of using discrete mathematical modeling and verification. It is noted with interest by the conference chairmen how this area has grown from just a few people 15 years ago to a vibrant area of research, development, and deployment. It is clear that these methods are helping reduce the cost of designing computing systems. As an example of this potential cost reduction, we have invited David Russino of Advanced Micro Devices Inc. to describe his verification of floating point algorithms being used in AMD microprocessors. The program includes 30 regular presentations selected from 63 submitted papers.

Automated Reasoning Ulrich Furbach, Natarajan Shankar, 2006-10-06. Here are the proceedings of the Third International Joint Conference on Automated Reasoning IJCAR 2006 held in Seattle, Washington, USA, August 2006. The book presents 41 revised full research papers and 8 revised system descriptions, with 3 invited papers and a summary of a systems competition. The papers are organized in topical sections on proofs, search, higher order logic, proof theory, proof checking, combination, decision procedures, CASC, J3, rewriting, and description logic.

**Proceedings of the Sixth International Workshop on the ACL2 Theorem Prover and its Applications**, 2006

**Formal Methods for Hardware Verification** Marco Bernardo, Alessandro Cimatti, 2006-05-15. This book presents 8 papers accompanying the lectures of leading researchers given at the 6th edition of the International School on Formal Methods for the Design of Computer Communication and Software Systems SFM 2006. SFM 2006 was devoted to formal techniques for hardware verification and covers several aspects of the hardware design process, including hardware design languages and simulation, property specification, formalisms, automatic test pattern generation, symbolic trajectory evaluation, and more.

*Formal Methods and Software Engineering* Jin Song Dong, Jim Woodcock, 2003-10-27. This book constitutes the refereed proceedings of the 5th International Conference on Formal Engineering Methods ICFEM 2003 held in Singapore in November 2003. The 34 revised full papers presented together with 3 invited contributions were carefully reviewed and selected from 91 submissions. The papers are organized in topical sections on testing and validation, state diagrams, PVS, HOL, refinement, hybrid systems, Z, Object Z, Petri

nets timed automata system modelling and checking and semantics and synthesis      **Automated Deduction -- CADE-24**  
Maria Paola Bonacina, 2013-06-04 This book constitutes the proceedings of the 24th International Conference on Automated Deduction CADE 24 held in Lake Placid NY USA in June 2013 The 31 revised full papers presented together with 2 invited papers were carefully reviewed and selected from 71 initial submissions CADE is the major forum for the presentation of research in all aspects of automated deduction ranging from theoretical and methodological issues to the presentation of new theorem provers solvers and systems      **Computer Aided Verification** Rajeev Alur, Doron A. Peled, 2004-07-30 This book constitutes the refereed proceedings of the 16th International Conference on Computer Aided Verification CAV 2004 held in Boston MA USA in July 2004 The 32 revised full research papers and 16 tool papers were carefully reviewed and selected from 144 submissions The papers cover all current issues in computer aided verification and model checking ranging from foundational and methodological issues to the evaluation of major tools and systems

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