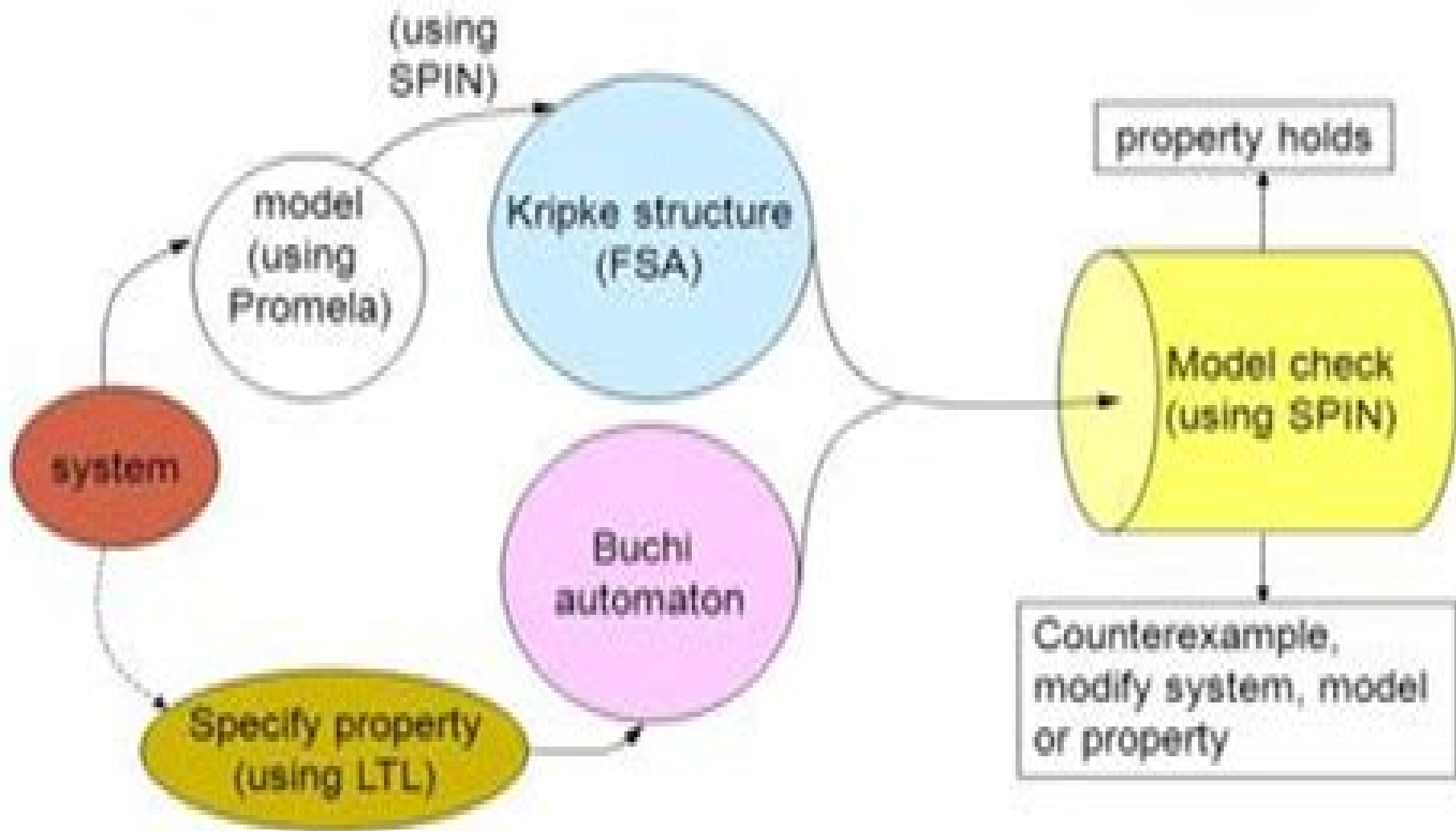


# Model Checking



# Model Checking

**Edmund M. Clarke, Orna  
Grumberg, Doron Peled, Doron A. Peled**



## Model Checking:

**Handbook of Model Checking** Edmund M. Clarke, Thomas A. Henzinger, Helmut Veith, Roderick Bloem, 2018-05-18 Model checking is a computer assisted method for the analysis of dynamical systems that can be modeled by state transition systems Drawing from research traditions in mathematical logic programming languages hardware design and theoretical computer science model checking is now widely used for the verification of hardware and software in industry The editors and authors of this handbook are among the world s leading researchers in this domain and the 32 contributed chapters present a thorough view of the origin theory and application of model checking In particular the editors classify the advances in this domain and the chapters of the handbook in terms of two recurrent themes that have driven much of the research agenda the algorithmic challenge that is designing model checking algorithms that scale to real life problems and the modeling challenge that is extending the formalism beyond Kripke structures and temporal logic The book will be valuable for researchers and graduate students engaged with the development of formal methods and verification tools

*Model Checking, second edition* Edmund M. Clarke, Jr., Orna Grumberg, Daniel Kroening, Doron Peled, Helmut Veith, 2018-12-04 An expanded and updated edition of a comprehensive presentation of the theory and practice of model checking a technology that automates the analysis of complex systems 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 If the specification is not satisfied the method identifies a counterexample execution that shows the source of the problem Today many major hardware and software companies use model checking in practice for verification of VLSI circuits communication protocols software device drivers real time embedded systems and security algorithms This book offers a comprehensive presentation of the theory and practice of model checking covering the foundations of the key algorithms in depth The field of model checking has grown dramatically since the publication of the first edition in 1999 and this second edition reflects the advances in the field Reorganized expanded and updated the new edition retains the focus on the foundations of temporal logic model while offering new chapters that cover topics that did not exist in 1999 propositional satisfiability SAT based model checking counterexample guided abstraction refinement and software model checking The book serves as an introduction to the field suitable for classroom use and as an essential guide for researchers

*Model Checking* Edmund M. Clarke, Orna Grumberg, Doron Peled, Doron A. Peled, 1999 This presentation of the theory and practice of model checking includes basic as well as state of the art techniques algorithms and tools and can be used as an introduction to the subject or a reference for researchers

*Principles of Model Checking* Christel Baier, Joost-Pieter Katoen, 2008-04-25 A comprehensive introduction to the foundations of model checking a fully automated technique for finding flaws in hardware and software with extensive examples and both practical and theoretical exercises 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 One such technique that has emerged in the last twenty years is model checking which systematically and automatically checks whether a model of a given system satisfies a desired property such as deadlock freedom invariants and request response properties This automated technique for verification and debugging has developed into a mature and widely used approach with many applications 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 It introduces the temporal logics LTL and CTL compares them and covers algorithms for verifying these logics discussing real time systems as well as systems subject to random phenomena Separate chapters treat such efficiency improving techniques as abstraction and symbolic manipulation The book includes an extensive set of examples most of which run through several chapters and a complete set of basic results accompanied by detailed proofs Each chapter concludes with a summary bibliographic notes and an extensive list of exercises of both practical and theoretical nature

*Model Checking, second edition* Edmund M. Clarke, Jr., Orna Grumberg, Daniel Kroening, Doron Peled, Helmut Veith, 2018-12-04 An expanded and updated edition of a comprehensive presentation of the theory and practice of model checking a technology that automates the analysis of complex systems 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 If the specification is not satisfied the method identifies a counterexample execution that shows the source of the problem Today many major hardware and software companies use model checking in practice for verification of VLSI circuits communication protocols software device drivers real time embedded systems and security algorithms This book offers a comprehensive presentation of the theory and practice of model checking covering the foundations of the key algorithms in depth The field of model checking has grown dramatically since the publication of the first edition in 1999 and this second edition reflects the advances in the field Reorganized expanded and updated the new edition retains the focus on the foundations of temporal logic model while offering new chapters that cover topics that did not exist in 1999 propositional satisfiability SAT based model checking counterexample guided abstraction refinement and software model checking The book serves as an introduction to the field suitable for classroom use and as an essential guide for researchers

**Model Checking Software** Klaus Havelund, Rupak Majumdar, 2008-07-25 This book constitutes the refereed proceedings of the 15th International SPIN workshop on Model Checking Software SPIN 2008 held in Los Angeles CA USA in August 2008 The 17 revised full papers presented together with 1 tool paper and 4 invited talks were carefully reviewed and selected from 41 submissions The main focus of the

workshop series is software systems including models and programs The papers cover theoretical and algorithmic foundations as well as tools for software model checking and foster interactions and exchanges of ideas with related areas in software engineering such as static analysis dynamic analysis and testing

**Model Checking Software** Jaco van der Pol, Michael Weber, 2010-09-21 Annotation This book constitutes the refereed proceedings of the 17th International SPIN workshop on Model Checking Software SPIN 2010 held at the University of Twente in Enschede The Netherlands in September 2010 The 13 revised full papers presented together with 2 tool papers and 3 invited talks were carefully reviewed and selected from 33 submissions The papers are organized in topical sections on satisfiability modulo theories for model checking model checking in context simulation testing UML implementation and performance of model checking LTL and Bchi automata extensions to infinite state systems and concurrent software

Model Checking Software Antti Valmari, 2006-03-29 This book constitutes the refereed proceedings of the 13th International SPIN workshop on Model Checking Software SPIN 2006 held in Vienna Austria in March April 2006 as satellite event of ETAPS 2006 The 16 revised full papers presented together with three tool presentation papers were carefully reviewed and selected from 44 submissions The papers are organized in topical sections

**Model Checking Software** Dragan Bosnacki, Stefan Edelkamp, 2007-08-30 This book presents the proceedings of the 14th International SPIN workshop on Model Checking Software held in Berlin Germany Fourteen full papers are presented together with four tool presentation papers and the abstracts of two invited talks The papers are organized into topical sections covering directed model checking partial order reduction program analysis exploration advances modeling and case studies and tool demonstrations

Model Checking Software Alfons Laarman, Ana Sokolova, 2021-08-02 This book constitutes the refereed proceedings of the 27th International Symposium on Model Checking Software SPIN 2021 held virtually in July 2021 The 3 full papers 4 tool papers and 1 case study presented together with 2 invited talks were carefully reviewed and selected from 20 submissions Topics covered include formal verification techniques for automated analysis of software formal analysis for modeling languages such as UML state charts formal specification languages temporal logic design by contract model checking automated theorem proving including SAT and SMT verifying compilers abstraction and symbolic execution techniques and much more

**Model Checking Software** Alastair Donaldson, David Parker, 2012-07-18 This book constitutes the thoroughly refereed proceedings of the 19th International SPIN workshop on Model Checking Software SPIN 2012 held in Oxford UK in July 2012 The 11 revised full papers presented together with 5 tool papers and 4 invited talks were carefully reviewed and selected from 30 submissions The papers are grouped in topical sections on model checking techniques parallel model checking case studies model checking for concurrency and tool demonstrations

*Model Checking Software* Matthew Dwyer, 2003-06-29 This book constitutes the refereed proceedings of the 8th International SPIN Workshop held in Toronto Canada in May 2001 The SPIN model checker is one of the most powerful and popular systems for the analysis and verification of distributed and concurrent

systems The 13 revised full papers presented together with one invited survey paper and three invited industrial experience reports were carefully reviewed and selected from 26 submissions Besides foundational issues of program analysis and formal verification the papers focus on tools for model checking and practical applications in a variety of fields **Model**

**Checking Software** Corina S. Pasareanu, 2009-06-19 This book constitutes the refereed proceedings of the 16th International SPIN workshop on Model Checking Software SPIN 2009 held in Grenoble France in June 2009 The 15 revised full papers presented together with 3 tool papers and 4 invited talks were carefully reviewed and selected from 41 submissions The papers cover theoretical and algorithmic foundations as well as tools for software model checking by addressing theoretical advances and empirical evaluations related to state space and path exploration techniques as implemented in software verification tools *Model Checking Software* Fabrizio Biondi, Thomas Given-Wilson, Axel

Legay, 2019-10-02 This book constitutes the refereed proceedings of the 26th International Symposium on Model Checking Software SPIN 2019 held in Beijing China in July 2019 The 11 full papers presented and 2 demo tool papers were carefully reviewed and selected from 29 submissions Topics covered include formal verification techniques for automated analysis of software formal analysis for modeling languages such as UML state charts formal specification languages temporal logic design by contract model checking automated theorem proving including SAT and SMT verifying compilers abstraction and symbolic execution techniques and much more **Model Checking Quantum Systems** Mingsheng Ying, Yuan

Feng, 2021-02-04 Model checking is one of the most successful verification techniques and has been widely adopted in traditional computing and communication hardware and software industries This book provides the first systematic introduction to model checking techniques applicable to quantum systems with broad potential applications in the emerging industry of quantum computing and quantum communication as well as quantum physics Suitable for use as a course textbook and for self study graduate and senior undergraduate students will appreciate the step by step explanations and the exercises included Researchers and engineers in the related fields can further develop these techniques in their own work with the final chapter outlining potential future applications **Systems and Software Verification** B. Berard, M. Bidoit, A.

Finkel, F. Laroussinie, A. Petit, L. Petrucci, P. Schnoebelen, 2013-04-17 Model checking is a powerful approach for the formal verification of software When applicable it automatically provides complete proofs of correctness or explains via counter examples why a system is not correct This book provides a basic introduction to this new technique The first part describes in simple terms the theoretical basis of model checking transition systems as a formal model of systems temporal logic as a formal language for behavioral properties and model checking algorithms The second part explains how to write rich and structured temporal logic specifications in practice while the third part surveys some of the major model checkers available

**Model Checking Software** Susanne Graf, Laurent Mounier, 2004-02-27 Since 1995 when the SPIN workshop series was instigated SPIN workshops have been held on an annual basis in Montr eal 1995 New Brunswick 1996 Enschede 1997 Paris

1998 Trento 1999 Toulouse 1999 Stanford 2000 Toronto 2001 Grenoble 2002 and Portland 2003 All but the first SPIN workshop were organized as satellite events of larger conferences in particular of CAV 1996 TACAS 1997 FORTE PSTV 1998 FLOC 1999 the World Congress on Formal Methods 1999 FMOODS 2000 ICSE 2001 2003 and ETAPS 2002 This year again SPIN was held as a satellite event of ETAPS 2004 The co location of SPIN workshops with conferences has proven to be very successful and has helped to disseminate SPIN model checking technology to wider audiences Since 1999 the proceedings of the SPIN workshops have appeared in Springer Verlag's Lecture Notes in Computer Science series The history of successful SPIN workshops is evidence for the maturing of model checking technology not only in the hardware domain but increasingly also in the software area While in earlier years algorithms and tool development around the SPIN model checker were the focus of this workshop series for several years now the scope has been widened to include more general approaches to software model checking techniques and tools as well as applications The SPIN workshop has become a forum for all practitioners and researchers interested in model checking based techniques for the validation and analysis of communication protocols and software systems

**Model Checking Software** Patrick Godefroid, 2005-08-09 This book constitutes the refereed proceedings of the 12th International SPIN workshop on Model Checking Software SPIN 2005 held in San Francisco USA in August 2005 The 15 revised full papers presented were carefully reviewed and selected from 45 submissions in addition there are 4 tool presentation papers selected from 6 submissions The papers are organized in topical sections on state representation and abstraction dealing with concurrency dealing with complex data checking temporal properties and checking security and real time properties

*Model Checking Software* María del Mar Gallardo, Pedro Merino, 2018-06-15 This book constitutes the refereed proceedings of the 25th International Symposium on Model Checking Software SPIN 2018 held in Malaga Spain in June 2018 The 14 papers presented 1 short paper and 1 demo tool paper were carefully reviewed and selected from 28 submissions Topics covered include formal verification techniques for automated analysis of software formal analysis for modeling languages such as UML state charts formal specification languages temporal logic design by contract model checking automated theorem proving including SAT and SMT verifying compilers abstraction and symbolic execution techniques and much more

*Model Checking Software* Bernd Fischer, Jaco Geldenhuys, 2015-08-26 This book constitutes the refereed proceedings of the 22nd International Symposium on Model Checking Software SPIN 2015 held in Stellenbosch South Africa in August 2015 The 18 papers presented 14 regular papers and 4 tool or new idea papers were carefully reviewed and selected from 27 submissions They cover the field between theoretical advances and practical considerations and are organized in topical sections such as abstraction refinement translation Bchi automata and hashing embedded systems heuristics and benchmarks SAT SMT based approaches software validation and verification

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