

FORMAL METHODS IN COMPUTING



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Formal Methods In Computing

**Benjamin Weyers, Judy Bowen, Alan
Dix, Philippe Palanque**



Formal Methods In Computing:

Formal Methods in Computer Science Jiacun Wang, 2019-06-21 This textbook gives students a comprehensive introduction to formal methods and their application in software and hardware specification and verification. It has three parts. The first part introduces some fundamentals in formal methods including set theory, functions, finite state machines, and regular expressions. The second part focuses on logic. Concise Guide to Formal Methods Gerard O'Regan, 2017-08-08 This invaluable textbook reference provides an easy-to-read guide to the fundamentals of formal methods, highlighting the rich applications of formal methods across a diverse range of areas of computing. Topics and features introduced include the key concepts in software engineering, software reliability and dependability, formal methods and discrete mathematics, presents a short history of logic from Aristotle's syllogistic logic and the logic of the Stoics through Boole's symbolic logic to Frege's work on predicate logic, covers propositional and predicate logic as well as more advanced topics such as fuzzy logic, temporal logic, intuitionistic logic, undefined values, and the applications of logic to AI. Examines the Z specification language, the Vienna Development Method (VDM) and Irish School of VDM, and the unified modelling language (UML). Discusses Dijkstra's calculus of weakest preconditions, Hoare's axiomatic semantics of programming languages, and the classical approach of Parnas and his tabular expressions. Provides coverage of automata theory, probability and statistics, model checking, and the nature of proof and theorem proving. Reviews a selection of tools available to support the formal methodist and considers the transfer of formal methods to industry. Includes review questions and highlights key topics in every chapter and supplies a helpful glossary at the end of the book. This stimulating guide provides a broad and accessible overview of formal methods for students of computer science and mathematics curious as to how formal methods are applied to the field of computing.

Formal Methods in Computing Miklós Ferenczi, András Pataricza, Lajos Rónyai, 2005 This collection of tutorials has been written by the members of the Working Group on Formal Methods at the Regional Centre of the Hungarian Academy of Sciences Veszprém VEAB. The group was composed of mathematicians and engineers, all of them with strong interest in computation. The group's focus was that the ever-growing complexity of systems in information technology makes design and implementation process uncontrollable by traditional, mostly intuitive engineering methods. This collection of tutorials provides the reader with concise summaries on some selected fields of mathematics and computer science which have significance from the practical perspectives of information engineering.

Formal Methods and Software Engineering Karin Breitman, Ana Cavalcanti, 2009-11-18 Formal methods for development of computer systems have been extensively studied over the years. A range of semantic theories, specification languages, design techniques, and verification methods and tools have been developed and applied to the construction of programs used in critical applications. The challenge now is to scale up formal methods and integrate them into engineering development processes for the correct and efficient construction and maintenance of computer systems in general. This requires us to improve the state of the art on approaches and

techniques for integration of formal methods into industrial engineering practice including new and emerging practice The now long established series of International Conferences on Formal Engineering Methods brings together those interested in the application of formal engineering methods to computer systems Researchers and practitioners from industry academia and government are encouraged to attend and to help advance the state of the art This volume contains the papers presented at ICFEM 2009 the 11th International Conference on Formal Engineering Methods held during December 9-11 in Rio de Janeiro Brazil

Formal Methods for Real-Time Computing Constance Heitmeyer, Dino Mandrioli, 1996-06-04 Focusing on formal methods this book offers a complete coverage of new developments with emphasis on practical application Starting with a survey of formal methods for real time systems topics include program specification formal methods analyzing and design of real time systems The book is essential reading for developers of safety critical systems and researchers in the field

Applications of Formal Methods Michael Gerard Hinchey, Jonathan Peter Bowen, 1995 This collection of case studies contains contributions illustrating the application of formal methods to real life problems with industrial relevance

Formal Methods for Mobile Computing Marco Bernardo, Alessandro Bogliolo, 2005-04-13 This book presents 8 tutorial survey papers by leading researchers who lectured at the 5th International School on Formal Methods for the Design of Computer Communication and Software Systems SFM 2005 held in Bertinoro Italy in April 2005 SFM 2005 was devoted to formal methods and tools for the design of mobile systems and mobile communication infrastructures The 8 lectures are organized into topical sections on models and languages scalability and performance dynamic power management and middleware support

Theory And Formal Methods Of Computing 94: Proceedings Of The Second Imperial College Workshop Chris Hankin, Ian Mackie, Rajagopal Nagarajan, 1995-10-17 The focus of this workshop was the development of mathematically based techniques of formal specification of system behaviour and the systematic development of implementations The aim is to produce correct efficient implementations in a reliable fashion Topics covered at the workshop include category theory logic domain theory semantics concurrency specification and verification The papers published here range from the purely theoretical to practical applications

Industrial Applications of Formal Methods to Model, Design and Analyze Computer Systems Dan Craigen, Susan Gerhart, 2012-12-02 Formal methods are mathematically based techniques often supported by reasoning tools that can offer a rigorous and effective way to model design and analyze computer systems The purpose of this study is to evaluate international industrial experience in using formal methods The cases selected are representative of industrial grade projects and span a variety of application domains The study had three main objectives To better inform deliberations within industry and government on standards and regulations To provide an authoritative record on the practical experience of formal methods to date and To suggest areas where future research and technology development are needed This study was undertaken by three experts in formal methods and software engineering Dan Craigen of ORA Canada Susan Gerhart of Applied Formal Methods and Ted Ralston of Ralston Research Associates

Robin Bloomfield of Adelard was involved with the Darlington Nuclear Generating Station Shutdown System case Support for this study was provided by organizations in Canada and the United States The Atomic Energy Control Board of Canada AECB provided support for Dan Craigen and for the technical editing provided by Karen Summerskill The U S Naval Research Laboratories NRL Washington DC provided support for all three authors The U S National Institute of Standards and Technology NIST provided support for Ted Ralston

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

Formal Methods in Computer-Aided Design Ganesh Gopalakrishnan, Phillip Windley, 2003-07-31 This book constitutes the refereed proceedings of the Second International Conference on Formal Methods in Computer Aided Design FMCAD 98 held in Palo Alto California USA in November 1998 The 27 revised full papers presented were carefully reviewed and selected from a total of 55 submissions Also included are four tools papers and four invited contributions The papers present the state of the art in formal verification methods for digital circuits and systems including processors custom VLSI circuits microcode and reactive software From the methodological point of view binary decision diagrams model checking symbolic reasoning symbolic simulation and abstraction methods are covered

Formal Methods for the Design of Real-Time Systems Marco Bernardo, Flavio Corradini, 2004-12-07 A large class of computing systems can be specified and verified by abstracting away from the temporal aspects of their behavior In real time systems instead time issues become essential Their correctness depends not only on which functions they can perform but also on the action execution time Due to their importance and design challenges real time systems have attracted the attention of a considerable number of computer scientists and engineers from various research areas This volume collects a set of papers accompanying the lectures of the fourth edition of the International School on Formal Methods for the Design of Computer Communication and Software Systems SFM The school addressed the use of formal methods in computer science as a prominent approach to the rigorous design of computer

communication and software systems The main aim of the SFM series is to offer a good spectrum of current research in foundations as well as applications of formal methods which can be of help for graduate students and young researchers who intend to approach the field SFM 04 RT was devoted to real time systems It covered formal models and languages for the specification modeling analysis and verification of the seti critical systems the expressiveness of such models and languages as well as supporting tools and related applications in different domains

The Handbook of Formal Methods in Human-Computer Interaction Benjamin Weyers, Judy Bowen, Alan Dix, Philippe Palanque, 2017-04-24 This book provides a comprehensive collection of methods and approaches for using formal methods within Human Computer Interaction HCI research the use of which is a prerequisite for usability and user experience UX when engineering interactive systems World leading researchers present methods tools and techniques to design and develop reliable interactive systems offering an extensive discussion of the current state of the art with case studies which highlight relevant scenarios and topics in HCI as well as presenting current trends and gaps in research and future opportunities and developments within this emerging field The Handbook of Formal Methods in Human Computer Interaction is intended for HCI researchers and engineers of interactive systems interested in facilitating formal methods into their research or practical work

PROCEEDINGS OF THE 23RD CONFERENCE ON FORMAL METHODS IN COMPUTER-AIDED DESIGN - FMCAD 2023 Alexander Nadel, Kristin Yvonne Rozier, 2023-10-13 The Conference on Formal Methods in Computer Aided Design FMCAD is an annual conference on the theory and applications of formal methods in hardware and system in academia and industry for presenting and discussing groundbreaking methods technologies theoretical results and tools for reasoning formally about computing systems FMCAD covers formal aspects of computer aided system testing

PROCEEDINGS OF THE 22ND CONFERENCE ON FORMAL METHODS IN COMPUTER-AIDED DESIGN - FMCAD 2022 Alberto Griggio, Neha Rungta, Georg Weissenbacher, Warren A. Hunt, Jr., 2022-10-12 The Conference on Formal Methods in Computer Aided Design FMCAD is an annual conference on the theory and applications of formal methods in hardware and system in academia and industry for presenting and discussing groundbreaking methods technologies theoretical results and tools for reasoning formally about computing systems FMCAD covers formal aspects of computer aided system testing

PROCEEDINGS OF THE 24TH CONFERENCE ON FORMAL METHODS IN COMPUTER-AIDED DESIGN - FMCAD 2024 Nina Narodytska, Philipp Rümmer, 2024-10-01 Die Proceedings zur Konferenz Formal Methods in Computer Aided Design 2024 geben aktuelle Einblicke in ein spannendes Forschungsfeld Zum fünften Mal erscheinen die Beiträge der Konferenzreihe Formal Methods in Computer Aided Design FMCAD als Konferenzband bei TU Wien Academic Press Der aktuelle Band der seit 2006 jährlich veranstalteten Konferenzreihe präsentiert in 35 Beiträgen neueste wissenschaftliche Erkenntnisse aus dem Bereich des computergestützten Entwerfens Die Beiträge behandeln formale Aspekte des computergestützten Systemdesigns einschließlich Verifikation Spezifikation Synthese und Test Die FMCAD Konferenz findet im Oktober 2024 in Prag Tschechische Republik

statt Sie gilt als führendes Forum im Bereich des computer aided design und bietet seit ihrer Gründung Forschenden sowohl aus dem akademischen als auch dem industriellen Umfeld die Möglichkeit sich auszutauschen und zu vernetzen

PROCEEDINGS OF THE 21ST CONFERENCE ON FORMAL METHODS IN COMPUTER-AIDED DESIGN -

FMCAD 2021 Michael W. Whalen, Ruzica Piskac, 2021-10-14 Our life is dominated by hardware a USB stick the processor in our laptops or the SIM card in our smart phone But who or what makes sure that these systems work stably safely and securely from the word go The computer with a little help from humans The overall name for this is CAD computer aided design and it's become hard to imagine our modern industrial world without it So how can we be sure that the hardware and computer systems we use are reliable By using formal methods these are techniques and tools to calculate whether a system description is in itself consistent or whether requirements have been developed and implemented correctly Or to put it another way they can be used to check the safety and security of hardware and software Just how this works in real life was also of interest at the annual conference on Formal Methods in Computer Aided Design FMCAD Under the direction of Ruzica Piskac and Michael Whalen the 21st Conference in October 2021 addressed the results of the latest research in the field of formal methods A volume of conference proceedings with over 30 articles covering a wide range of formal methods has now been published for this online conference starting from the verification of hardware parallel and distributed systems as well as neuronal networks right through to machine learning and decision making procedures This volume provides a fascinating insight into revolutionary methods technologies theoretical results and tools for formal logic in computer systems and system developments

PROCEEDINGS OF THE 20TH CONFERENCE ON FORMAL METHODS IN COMPUTER-AIDED DESIGN - FMCAD 2020 Alexander Ivrii, Ofer Strichman, 2020-09-11 Formal Methods in Computer Aided Design FMCAD is a conference series on the theory and applications of formal methods in hardware and system verification FMCAD provides a leading forum to researchers in academia and industry for presenting and discussing ground breaking methods technologies theoretical results and tools for reasoning formally about computing systems FMCAD covers formal aspects of computer aided system design including verification specification synthesis and testing

Formal Methods in Computer-Aided

Design Mark D. Aagaard, John W. O'Leary, 2003-06-30 This volume contains the proceedings of the Fourth Biennial Conference on Formal Methods in Computer Aided Design FMCAD The conference is devoted to the use of mathematical methods for the analysis of digital hardware circuits and systems The work reported in this book describes the use of formal mathematics and associated tools to design and verify digital hardware systems Functional verification has become one of the principal costs in a modern computer design 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 Over the past 20 years this area has grown from just a few academic researchers to a vibrant worldwide community of people from both academia and industry This volume includes 23 papers selected from the 47 submitted papers each of which was reviewed by

at least three program committee members The history of FMCAD dates back to 1984 when the earliest meetings on this topic occurred as part of IFIP WG10.2 Formal Methods in Computer-Aided Design Mandayam Srivas, Albert Camilleri, 1996-10-23 This book constitutes the refereed proceedings of the First International Conference on Formal Methods in Computer Aided Design FMCAD 96 held in Palo Alto California USA in November 1996 The 25 revised full papers presented were selected from a total of 65 submissions also included are three invited survey papers and four tutorial contributions The volume covers all relevant formal aspects of work in computer aided systems design including verification synthesis and testing

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