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Bernhard R. Aichernig
Tom Maibaum (Eds.)

Formal Methods at the Crossroads

From Panacea to Foundational Support

UNU / IST 10th Anniversary Colloquium



Springer

Formal Methods At The Crobbroads From Panacea To Foundational Support

Karen Yorav



Formal Methods At The Crossroads From Panacea To Foundational Support:

Formal Methods at the Crossroads. From Panacea to Foundational Support Bernhard K. Aichernig, Tom Maibaum, 2011-03-29 This volume is devoted to the 10th Anniversary Colloquium of UNU IIST the International Institute for Software Technology of the United Nations University as well as to the memory of Armando Haeberer who passed away while he was working on the preparation of this book in February 2003 The volume starts with a special paper by Tom Maibaum recollecting Armando Haeberer's life and work The second part presents work done by members of UNU IIST as well as a paper on the history of the institute The subsequent topical sections present key contributions by leading researchers and thus assess the state of the art in software engineering and its engineering and scientific principles from models to software real time systems and verification All in all the book is a unique survey of the power and potential of formal methods in software engineering

Formal Methods in Software and Systems Modeling Hans-Jörg Kreowski, Ugo Montanari, Fernando Orejas, Grzegorz Rozenberg, Gabriele Taentzer, 2005-02-04 By presenting state of the art research results on various aspects of formal and visual modeling of software and systems this book commemorates the 60th birthday of Hartmut Ehrig The 24 invited reviewed papers are written by students and collaborators of Hartmut Ehrig who are established researchers in their fields Reflecting the scientific interest and work of Hartmut Ehrig the papers fall into three main parts on graph transformation algebraic specification and logic and formal and visual modeling

FME 2003: Formal Methods Keijiro Araki, Stefania Gnesi, Dion Mandrioli, 2003-10-02 This volume contains the proceedings of FM2003 the 12th International Formal Methods Europe Symposium which was held in Pisa Italy on September 8-14 2003 Formal Methods Europe FME www.fmeurope.org is an independent association which aims to stimulate the use of and research on formal methods for system development FME conferences began with a VDM Europe symposium in 1987 Since then the meetings have grown and have been held about once every 18 months Throughout the years the symposia have been notably successful in bringing together researchers tool developers vendors and users both from academia and from industry Unlike previous symposia in the series FM 2003 was not given a specific theme Rather its main goal could be synthesized as widening the scope Indeed the organizers aimed at enlarging the audience and impact of the symposium along several directions Dropping the suffix E from the title of the conference reflects the wish to welcome participation and contribution from every country also contributions from outside the traditional Formal Methods community were solicited The recent innovation of including an Industrial Day as an important part of the symposium shows the strong commitment to involve industrial people more and more within the Formal Methods community Even the traditional and rather fuzzy borderline between software engineering formal methods and methods and formalisms exploited in different fields of engineering was so what challenged

FM 2008: Formal Methods Jorge Cuellar, Tom Maibaum, 2008-05-08 This book presents the refereed proceedings of the 15th International Symposium on Formal Methods FM 2008 held in Turku Finland in May 2008 The 23 revised full papers

presented together with 4 invited contributions and extended abstracts of 5 invited industrial presentations were carefully reviewed and selected from 106 submissions. The papers are organized in topical sections on programming language analysis, verification, real time and concurrency, grand challenge problems, fm practice, runtime monitoring and analysis, communication, constraint analysis and design. Handbook of Satisfiability Armin Biere, 2009. Satisfiability SAT related topics have attracted researchers from various disciplines, logic applied areas such as planning, scheduling, operations research and combinatorial optimization, but also theoretical issues on the theme of complexity and much more; they all are connected through SAT. My personal interest in SAT stems from actual solving. The increase in power of modern SAT solvers over the past 15 years has been phenomenal. It has become the key enabling technology in automated verification of both computer hardware and software. Bounded Model Checking (BMC) of computer hardware is now probably the most widely used model checking technique. The counterexamples that it finds are just satisfying instances of a Boolean formula obtained by unwinding to some fixed depth a sequential circuit and its specification in linear temporal logic. Extending model checking to software verification is a much more difficult problem on the frontier of current research. One promising approach for languages like C with finite word length integers is to use the same idea as in BMC but with a decision procedure for the theory of bit vectors instead of SAT. All decision procedures for bit vectors that I am familiar with ultimately make use of a fast SAT solver to handle complex formulas. Decision procedures for more complicated theories like linear real and integer arithmetic are also used in program verification. Most of them use powerful SAT solvers in an essential way. Clearly, efficient SAT solving is a key technology for 21st century computer science. I expect this collection of papers on all theoretical and practical aspects of SAT solving will be extremely useful to both students and researchers and will lead to many further advances in the field. Edmund Clarke, FORE Systems, University Professor of Computer Science and Professor of Electrical and Computer Engineering at Carnegie Mellon University, winner of the 2007 A.M. Turing Award. Formal Methods and Hybrid Real-Time Systems Cliff B. Jones, Zhiming Liu, Jim Woodcock, 2007-09-04. This Festschrift volume is published to honour both Dines Bjørner and Zhou Chaochen on the occasion of their 70th birthdays. The volume includes 25 refereed papers by leading researchers, current and former colleagues who congregated at a celebratory symposium held in Macao, China, in the course of the International Colloquium on Theoretical Aspects of Computing (ICTAC 2007). The papers cover a broad spectrum of subjects. *Formal Methods for Components and Objects*, 2007. *Formal Methods for Components and Objects* Frank S. de Boer, Marcello M. Bonsangue, Susanne Graf, Willem-Paul de Roever, 2006-09-30. This book presents 19 revised invited keynote lectures and revised tutorial lectures given at the 4th International Symposium on Formal Methods for Components and Objects (FMCO 2005), Amsterdam, November 2005. The book provides a unique combination of ideas on software engineering and formal methods that reflect the current interest in the application or development of formal methods for large scale software systems such as component based systems and object systems. *Domain Science and*

Engineering Dines Bjørner,2021-11-08 In this book the author explains domain engineering and the underlying science and he then shows how we can derive requirements prescriptions for computing systems from domain descriptions A further motivation is to present domain descriptions requirements prescriptions and software design specifications as mathematical quantities The author's maxim is that before software can be designed we must understand its requirements and before requirements can be prescribed we must analyse and describe the domain for which the software is intended He does this by focusing on what it takes to analyse and describe domains By a domain we understand a rationally describable discrete dynamics segment of human activity of natural and man made artefacts examples include road rail and air transport container terminal ports manufacturing trade healthcare and urban planning The book addresses issues of seemingly large systems not small algorithms and it emphasizes descriptions as formal mathematical quantities This is the first thorough monograph treatment of the new software engineering phase of software development one that precedes requirements engineering It emphasizes a methodological approach by treating in depth analysis and description principles techniques and tools It does this by basing its domain modeling on fundamental philosophical principles a view that is new for a computer science monograph The book will be of value to computer scientists engaged with formal specifications of software The author reveals this as a field of interesting problems most chapters include pointers to further study and exercises drawn from practical engineering and science challenges The text is supported by a primer to the formal specification language RSL and extensive indexes

Software Engineering 1 Dines Bjørner,2007-06-01 The art craft discipline logic practice and science of developing large scale software products needs a believable professional base The textbooks in this three volume set combine informally engineeringly sound practice with the rigour of formal mathematics based approaches Volume 1 covers the basic principles and techniques of formal methods abstraction and modelling First this book provides a sound but simple basis of insight into discrete mathematics numbers sets Cartesian types functions the Lambda Calculus algebras and mathematical logic Then it trains its readers in basic property and model oriented specification principles and techniques The model oriented concepts that are common to such specification languages as B VDM SL and Z are explained here using the RAISE specification language RSL This book then covers the basic principles of applicative functional imperative and concurrent parallel specification programming Finally the volume contains a comprehensive glossary of software engineering and extensive indexes and references These volumes are suitable for self study by practicing software engineers and for use in university undergraduate and graduate courses on software engineering Lecturers will be supported with a comprehensive guide to designing modules based on the textbooks with solutions to many of the exercises presented and with a complete set of lecture slides

Verified Software: Theories, Tools, Experiments Gary T. Leavens,Peter O'Hearn,Sriram K Rajamani,2010-08-12 This volume contains the proceedings of the third working conference on Verified Software Theories Tools and Experiments VSTTE 2010 held in Edinburgh UK in August 2010 The 11 papers presented together with 3 invited

talks were carefully revised and selected for inclusion in the book This third conference is part of the Verified Software Initiative VSI which is a 15 year international project that focuses on the scientific and technical challenges of producing verified software The goal of VSTTE 2010 was to advance the state of the art in the science and technology of software verification through the interaction of theory development tool evolution and experimental validation The accepted papers represent work on verification techniques specification languages formal calculi verification tools solutions to challenge problems software design methods reusable components refinement methodologies and requirements modeling

Hardware and Software: Verification and Testing Karen Yorav, 2008-02-02 This book constitutes the thoroughly refereed post workshop proceedings of the Third International Haifa Verification Conference HVC 2007 held in Haifa Israel in October 2007 The 15 revised full papers presented together with 4 invited lectures were carefully reviewed and selected from 32 submissions The papers are organized in topical tracks on hardware verification model checking dynamic hardware verification merging formal and testing formal verification for software and software testing Theories of Programming Cliff B. Jones, Jayadev Misra, 2021-09-26 Sir Tony Hoare has had an enormous influence on computer science from the Quicksort algorithm to the science of software development concurrency and program verification His contributions have been widely recognised He was awarded the ACM s Turing Award in 1980 the Kyoto Prize from the Inamori Foundation in 2000 and was knighted for services to education and computer science by Queen Elizabeth II of England in 2000 This book presents the essence of his various works the quest for effective abstractions both in his own words as well as chapters written by leading experts in the field including many of his research collaborators In addition this volume contains biographical material his Turing award lecture the transcript of an interview and some of his seminal papers Hoare s foundational paper An Axiomatic Basis for Computer Programming presented his approach commonly known as Hoare Logic for proving the correctness of programs by using logical assertions Hoare Logic and subsequent developments have formed the basis of a wide variety of software verification efforts Hoare was instrumental in proposing the Verified Software Initiative a cooperative international project directed at the scientific challenges of large scale software verification encompassing theories tools and experiments Tony Hoare s contributions to the theory and practice of concurrent software systems are equally impressive The process algebra called Communicating Sequential Processes CSP has been one of the fundamental paradigms both as a mathematical theory to reason about concurrent computation as well as the basis for the programming language occam CSP served as a framework for exploring several ideas in denotational semantics such as powerdomains as well as notions of abstraction and refinement It is the basis for a series of industrial strength tools which have been employed in a wide range of applications This book also presents Hoare s work in the last few decades These works include a rigorous approach to specifications in software engineering practice including procedural and data abstractions data refinement and a modular theory of designs More recently he has worked with collaborators to develop

Unifying Theories of Programming UTP Their goal is to identify the common algebraic theories that lie at the core of sequential concurrent reactive and cyber physical computations *Unifying Theories of Programming* Pedro Ribeiro, Augusto Sampaio, 2019-09-23 This volume contains papers presented at UTP 2019 the 7th International Symposium on Unifying Theories of Programming held in Porto Portugal on the 8th of October 2019 This edition of the UTP symposium is in honor of Sir Tony Hoare on the occasion of his 85th birthday The papers contained in this volume were invited and friendly refereed original contributions sought from the UTP community One of the papers is from the distinguished invited speaker Tony Hoare himself Nine other additional papers compose this volume covering several aspects of Unifying Theories of Programming ZB 2005: Formal Specification and Development in Z and B Helen Treharne, Steve King, Martin Henson, Steve Schneider, 2005-04-07 This book constitutes the refereed proceedings of the 4th International Conference of Z and B users ZB 2005 held in Guildford UK in April 2005 The 25 revised full papers presented together with extended abstracts of 2 invited papers were carefully reviewed and selected for inclusion in the book The papers document the recent advances for the Z formal specification notation and for the B method ranging from foundational theoretical and methodological issues to advanced applications tools and case studies **Verified Software: Theories, Tools, Experiments** Natarajan Shankar, Jim Woodcock, 2008-09-26 This volume contains the proceedings of the second working conference on Verified Software Theories Tools and Experiments VSTTE 2008 held in Toronto Canada in October 2008 The 16 papers presented together with 4 invited talks were carefully revised and selected for inclusion in the book This second conference formally inaugurates the Verified Software Initiative VSI a fifteen year co operative international project directed at the scientific challenges of large scale software verification The scope of the cooperative effort includes the sharing and interoperability of tools the alignment of theory and practice the identification of challenge problems the construction of benchmark suites and the execution of large scale experiments *Engineering Analytics* Luis Rabelo, Edgar Gutierrez-Franco, Alfonso Sarmiento, Christopher Mejía-Argueta, 2021-09-26 Engineering analytics is becoming a necessary skill for every engineer Areas such as Operations Research Simulation and Machine Learning can be totally transformed through massive volumes of data This book is intended to be an introduction to Engineering Analytics that can be used to improve performance tracking customer segmentation for resource optimization patterns and classification strategies and logistics control towers Basic methods in the areas of visual descriptive predictive and prescriptive analytics and Big Data are introduced Industrial case studies and example problem demonstrations are used throughout the book to reinforce the concepts and applications The book goes on to cover visual analytics and its relationships simulation from the respective dimensions and Machine Learning and Artificial Intelligence from different paradigms viewpoints The book is intended for professionals wanting to work on analytical problems for Engineering students Researchers Chief Technology Officers and Directors that work within the areas and fields of Industrial Engineering Computer Science Statistics Electrical Engineering

Operations Research and Big Data **Abstract State Machines, B and Z** Egon Börger, Michael Butler, Jonathan P. Bowen, Paul Boca, 2008-09-22 This book constitutes the refereed proceedings of the First International Conference of Abstract State Machines B and Z ABZ 2008 held in London UK in September 2008 The conference simultaneously incorporated the 15th International ASM Workshop the 17th International Conference of Z Users and the 8th International Conference on the B Method The 44 revised full papers presented together with 4 invited contributions were carefully reviewed and selected from numerous submissions The conference fosters the cross fertilization of three rigorous methods for the design and analysis of hardware and software systems both in academia and industry namely Abstract State Machines B and Z Covering a wide range of research spanning from theoretical and methodological foundations to tool support and practical applications the contributions are organized in topical sections on abstract state machines B papers Z papers ABZ short papers and the papers of the Verified Software Repository Network VSR net workshop **Automated Technology for Verification and Analysis** Sungdeok Cha, Jin-Young Choi, Moonzoo Kim, Mahesh Viswanathan, 2008-10-06
gramatKoreaUniversityandtheDepartmentofComputerScienceatKAISTfor nancialsupport We sincerely hope that the readers nd the proceedings of ATVA 2008 informative and rewarding **Computer Science - Theory and Applications** Anna Frid, Andrei S. Morozov, Andrey Rybalchenko, Klaus W. Wagner, 2009-08-03 This book constitutes the refereed proceedings of the Fourth International Computer Science Symposium in Russia CSR 2009 held in Novosibirsk Russia August 18 23 2009 The 29 revised papers presented together with 4 invited papers were carefully reviewed and selected from 66 submissions All major areas in computer science are addressed The theory track deals with algorithms protocols and data structures complexity and cryptography formal languages automata and their applications to computer science computational models and concepts proof theory and applications of logic to computer science

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