Mathias Soeken · Rolf Drechsler

Formal Specification Level

Concepts, Methods, and Algorithms

Springer

Formal Specification Level Concepts Methods And Algorithms

Paula Herber,Anton Wijs

Formal Specification Level Concepts Methods And Algorithms:

 Formal Specification Level Mathias Soeken,Rolf Drechsler,2014-11-12 This book introduces a new level of abstraction that closes the gap between the textual specification of embedded systems and the executable model at the Electronic System Level ESL Readers will be enabled to operate at this new Formal Specification Level FSL using models which not only allow significant verification tasks in this early stage of the design flow but also can be extracted semi automatically from the textual specification in an interactive manner The authors explain how to use these verification tasks to check conceptual properties e g whether requirements are in conflict as well as dynamic behavior in terms of execution traces

 Formal Methods for Open Object-based Distributed Systems Elie Najm,Jean-Bernard Stefani,2016-02-13 Object based Distributed Computing is being established as the most pertinent basis for the support of large heterogeneous computing and telecommunications systems The advent of Open Object based Distributed Systems OODS brings new challenges and opportunities for the use and development of formal methods Formal Methods for Open Object based Distributed Systems presents the latest research in several related fields and the exchange of ideas and experiences in a number of topics including formal models for object based distributed computing semantics of object based distributed systems and programming languages formal techniques in object based and object oriented specification analysis and design refinement and transformation of specifications multiple viewpoint modeling and consistency between different models formal techniques in distributed systems verification and testing types service types and subtyping specification verification and testing of quality of service constraints and formal methods and the object life cycle It contains the selected proceedings of the International Workshop on Formal Methods for Open Object based Distributed Systems sponsored by the International Federation for Information Processing and based in Paris France in March 1996 **Formal Methods: Foundations and Applications** Jim Davies,Leila Silva,Adenilso Simao,2011-03-17 This book constitutes the thoroughly refereed post conference proceedings of the 13th Brazilian Symposium on Formal Methods SBMF 2010 held in Natal Brazil in November 2010 The 18 revised full papers were carefully reviewed and selected from 55 submissions The papers presented cover a broad range of foundational and methodological issues in formal methods for the design and analysis of software and hardware systems as well as applications in various domains *FM'99 - Formal Methods* Jeannette M. Wing,Jim Woodcook,Jim Davies,2003-07-31 Formal methods are coming of age Mathematical techniques and tools are now regarded as an important part of the development process in a wide range of industrial and governmental organisations A transfer of technology into the mainstream of systems development is slowly but surely taking place FM 99 the First World Congress on Formal Methods in the Development of Computing Systems is a result and a measure of this new found maturity It brings an impressive array of industrial and applications oriented papers that show how formal methods have been used to tackle real problems These proceedings are a record of the technical symposium ofFM 99 alo side the papers

describingapplicationsofformalmethods youwill ndtechnical reports papers andabstracts detailing new advances in formaltechniques from mathematical foundations to practical tools The World Congress is the successor to the four Formal Methods Europe Symposia which in turn succeeded the four VDM Europe Symposia This s cession re ects an increasing openness within the international community of researchers and practitioners papers were submitted covering a wide variety of formal methods and application areas The programmecommittee re ects the Congress s international nature with a membership of 84 leading researchersfrom 38 di erent countries The comm tee was divided into 19 tracks each with its own chair to oversee the reviewing process Our collective task was a di cult one there were 259 high quality s missions from 35 di erent countries **ZUM '95: The Z Formal Specification Notation** Jonathan P. Bowen,1995-08-23 This book presents the proceedings of the 9th International Conference of Z Users ZUM 95 held in Limerick Ireland in September 1995 The book contains 34 carefully selected papers on Z using Z applications of Z proof testing industrial usage object orientation animation of specification method integration and teaching formal methods Of particular interest is the inclusion of an annotated Z bibliography listing 544 entries While focussing on Z by far the most commonly used formal method both in industry and application the volume is of high relevance for the whole formal methods community **Formal Methods for Software Engineering** Markus Roggenbach,Antonio Cerone,Bernd-Holger Schlingloff,Gerardo Schneider,Siraj Ahmed Shaikh,2022-06-22 Software programs are formal entities with precise meanings independent of their programmers so the transition from ideas to programs necessarily involves a formalisation at some point The first part of this graduate level introduction to formal methods develops an understanding of what constitutes formal methods and what their place is in Software Engineering It also introduces logics as languages to describe reasoning and the process algebra CSP as a language to represent behaviours The second part offers specification and testing methods for formal development of software based on the modelling languages CASL and UML The third part takes the reader into the application domains of normative documents human machine interfaces and security Use of notations and formalisms is uniform throughout the book Topics and features Explains foundations and introduces specification verification and testing methods Explores various application domains Presents realistic and practical examples illustrating concepts Brings together contributions from highly experienced educators and researchers Offers modelling and analysis methods for formal development of software Suitable for graduate and undergraduate courses in software engineering this uniquely practical textbook will also be of value to students in informatics as well as to scientists and practical engineers who want to learn about or work more effectively with formal theories and methods Markus Roggenbach is a Professor in the Dept of Computer Science of Swansea University Antonio Cerone is an Associate Professor in the Dept of Computer Science of Nazarbayev University Nur Sultan Bernd Holger Schlingloff is a Professor in the Institut f r Informatik of Humboldt Universit t zu Berlin Gerardo Schneider is a Professor in the Dept of Computer Science and Engineering of University of Gothenburg Siraj Ahmed Shaikh is a Professor in

the Institute for Future Transport and Cities of Coventry University The companion site for the book offers additional resources including further material for selected chapters prepared lab classes a list of errata slides and teaching material and virtual machines with preinstalled tools and resources for hands on experience with examples from the book The URL is https sefm book github io   *Formal Methods in Computer-Aided Design* Alan J. Hu,Andrew K. Martin,2005-01-18 These are the proceedings of the fifth international conference Formal Methods in Computer Aided Design FMCAD held 15 17 November 2004 in Austin Texas USA The conference provides a forum for presenting state of the art tools methods algorithms and theory for the application of formalized reasoning to all aspects of computer aided system design including specification verification synthesis and testing FMCAD s heritage dates back 20 years to some of the earliest conferences on the subject of formal reasoning and computer aided design Since 1996 FMCAD has assumed its present form held biennially in North America alternating with its sister conference CHARME in Europe We are delighted to report that our research community continues to flourish we received 69 paper submissions with many more high quality papers than we had room to accept After a rigorous review process in which each paper received at least three and typically four or more independent reviews we accepted 29 papers for the conference and inclusion in this volume The conference also included invited talks from Greg Spirakis of Intel Corporation and Wayne Wolf of Princeton University A conference of this size requires the contributions of numerous people On the technical side we are grateful to the program committee and the additional reviewers for their countless hours reviewing submissions and ensuring the intellectual quality of the conference We would also like to thank the steering committee for their wisdom and guidance On the logistical side we thank Christa Mace for designing our website and attending to countless organizational tasks And we thank our corporate sponsors AMD IBM Intel and Synopsys for financial support that helped make this conference possible   **Formal and Adaptive Methods for Automation of Parallel Programs Construction: Emerging Research and Opportunities** Doroshenko, Anatoliy,Yatsenko, Olena,2020-08-28 Emerging scientific and industrial applications in today s world require significant computing power Modern software tools are available for such platforms but are relatively complex and require the use of innovative programming models One promising area in modern software design is the development analysis and implementation of algorithms and adaptive methods These advancements in programming are promising but lack relevant research and understanding Formal and Adaptive Methods for Automation of Parallel Programs Construction Emerging Research and Opportunities is an essential reference source that solves the problem of the development of efficient models methods and tools for parallel programming automation based on the algebra of algorithms term rewriting and auto tuning paradigms The results of this book will help to further develop and improve existing research on design synthesis and optimization of sequential and parallel algorithms and programs Featuring research on topics such as auto tuning methods graphics processing and algorithmic language this book is ideally designed for mathematicians software engineers data

scientists researchers academicians and students seeking coverage on developing tools for automated design and parallel programs   **Formal Methods for Components and Objects** Frank S.de Boer,Marcello Bonsangue,Susanne Graf,Willem-Paul de Roever,2003-12-01 Largeandcomplexsoftwaresystemsprovidethenecessaryinfrastuctureinall dustries today In order to construct such large systems in a systematic manner the focus in the development methodologies has switched in the last two decades from functional issues to structural issues both data and functions are enc sulated into software units that are integrated into large systems by means of various techniques supporting reusability and modi ability This encapsulation principleisessentialtoboththeobject orientedandthemorerecentcompone based sofware engineering paradigms Formalmethodshavebeenappliedsuccessfullytotheveri cationofmedi sized programs in protocol and hardware design However their application to large systems requires the further development of speci cation and veri cation techniques supporting the concepts of reusability and modi ability In order to bring together researchers and practioners in the areas of so ware engineering and formal methods we organized the 1st International S posium on Formal Methods for Components and Objects FMCO in Leiden The Netherlands November 5 8 2002 The program consisted of invited tu rials and more technical presentations given by leading experts in the elds of Theoretical Computer Science and Software Engineering The symposium was attended by more than 100 people This volume contains the contributions of the invited speakers to FMCO 2002 We believe that the presented material provides a unique combination of ideas on software engineering and formal methods which we hope will be an inspiration for those aiming at further bridging the gap between the theory and practice of software engineering   **FM 2008: Formal Methods** Jorge Cuellar,Tom Maibaum,2008-06-05 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 chellenge problems fm practice runtime monitoring and analysis communication constraint analysis and design   **Formal Methods – Fun for Everybody** Antonio Cerone,Markus Roggenbach,2021-03-10 This volume constitutes the post workshop proceedings of the First International Workshop on Formal Methods Fun for Everybody FMFun 2019 held in Bergen Norway in December 2019 The 7 revised full papers and 2 revised short papers presented in this volume were carefully reviewed and selected from 15 submissions A white paper and two keynote papers are also included The papers explore ways of utilizing the pathway to transforming and spreading formal methods The vision of this workshop series is that formal methods ought to be taught in such a way that every student can have fun with it   **Algorithmics for Hard Problems** Juraj Hromkovič,2013-03-14 Algorithmic design especially for hard problems is more essential for success in solving them than any standard improvement of current computer technologies Because of this the design of algorithms for solving hard problems is the core of current

algorithmic research from the theoretical point of view as weIl as from the practical point of view There are many general textbooks on algorithmics and several specialized books devoted to particular approaches such as local search randomization approximation algorithms or heuristics But there is no textbook that focuses on the design of algorithms for hard computing tasks and that systematically explains combines and compares the main possibilities for attacking hard algorithmic problems As this topic is fundamental for computer science this book tries to elose this gap Another motivation and probably the main reason for writing this book is connected to education The considered area has developed very dynamically in recent years and the research on this topic discovered several profound re sults new concepts and new methods Some of the achieved contributions are so fundamental that one can speak about paradigms which should be ineluded in the education of every computer science student Unfortunately this is very far from reality This is because these paradigms are not sufficiently known in the computer science community and so they are insufficiently communicated to students and practitioners

Formal Methods for Industrial Critical Systems Maurice H. ter Beek,Dejan Ničković,2020-08-28 This book constitutes the proceedings of the 25th International Workshop on Formal Methods for Industrial Critical Systems FMICS 2020 which was held during September 2 3 2020 The conference was planned to take place in Vienna Austria Due to the COVID 19 pandemic it changed to a virtual event The 11 full papers presented in this volume were carefully reviewed and selected from 26 submissions The papers are organized in topical sections as follows Quantitative Analysis and Cyber Physical Systems Formal Verification of Industrial Systems Temporal Logic and Model Checking The book also contains a lengthy report on a Formal Methods Survey conducted on occasion of the 25th edition of the conference **Automated Validation & Verification of UML/OCL Models Using Satisfiability Solvers** Nils Przigoda,Robert Wille,Judith Przigoda,Rolf Drechsler,2018-01-22 This book provides a comprehensive discussion of UML OCL methods and design flow for automatic validation and verification of hardware and software systems While the presented flow focuses on using satisfiability solvers the authors also describe how these methods can be used for any other automatic reasoning engine Additionally the design flow described is applied to a broad variety of validation and verification tasks The authors also cover briefly how non functional properties such as timing constraints can be handled with the described flow Information Security and Ethics: Concepts, Methodologies, Tools, and Applications Nemati, Hamid,2007-09-30 Presents theories and models associated with information privacy and safeguard practices to help anchor and guide the development of technologies standards and best practices Provides recent comprehensive coverage of all issues related to information security and ethics as well as the opportunities future challenges and emerging trends related to this subject iFM 2023 Paula Herber,Anton Wijs,2023-11-10 This volume LNCS 14300 constitutes the refereed proceedings of the 18th International Conference IFM 2023 in November 2023 held in Leiden The Netherlands The 16 full papers presented together with 2 short papers were carefully reviewed and selected from 51 submissions The conference focuses on all aspects of the design of integrated techniques including language design

verification and validation automated tool support and the use of such techniques in software engineering practice **New Trends in Software Methodologies, Tools and Techniques** Hamido Fujita,Mohamed Mejri,2006 Software is the essential enabler for the new economy and science It creates new markets and new directions for a more reliable flexible and robust society It empowers the exploration of our world in ever more depth However software often falls short behind our expectations Current software methodologies tools and techniques remain expensive and not yet reliable for a highly changeable and evolutionary market Many approaches have been proven only as case by case oriented methods This book presents a number of new trends and theories in the direction in which we believe software science and engineering may develop to transform the role of software and science in tomorrow s information society This publication is an attempt to capture the essence of a new state of art in software science and its supporting technology It also aims at identifying the challenges such a technology has to master **Intellectics and Computational Logic** Steffen Hölldobler,2013-04-18 Intellectics seeks to understand the functions structure and operation of the human intellect and to test artificial systems to see the extent to which they can substitute or complement such functions The word itself was introduced in the early 1980s by Wolfgang Bibel to describe the united fields of artificial intelligence and cognitive science The book collects papers by distinguished researchers colleagues and former students of Bibel s all of whom have worked together with him and who present their work to him here to mark his 60th birthday The papers discuss significant issues in intellectics and computational logic ranging across automated deduction logic programming the logic based approach to intellectics cognitive robotics knowledge representation and reasoning Each paper contains new previously unpublished reviewed results The collection is a state of the art account of the current capabilities and limitations of a computational logic based approach to intellectics Readership Researchers who are convinced that the intelligent behaviour of machines should be based on a rigid formal treatment of knowledge representation and reasoning **Leveraging Applications of Formal Methods, Verification and Validation: Verification Principles** Tiziana Margaria,Bernhard Steffen,2020-10-28 The three volume set LNCS 12476 12478 constitutes the refereed proceedings of the 9th International Symposium on Leveraging Applications of Formal Methods ISoLA 2020 which was planned to take place during October 20 30 2020 on Rhodes Greece The event itself was postponed to 2021 due to the COVID 19 pandemic The papers presented were carefully reviewed and selected for inclusion in the proceedings Each volume focusses on an individual topic with topical section headings within the volume Part I Verification Principles Modularity and De Composition in Verification X by Construction Correctness meets Probability 30 Years of Statistical Model Checking Verification and Validation of Concurrent and Distributed Systems Part II Engineering Principles Automating Software Re Engineering Rigorous Engineering of Collective Adaptive Systems Part III Applications Reliable Smart Contracts State of the art Applications Challenges and Future Directions Automated Verification of Embedded Control Software Formal methods for DIStributed COmputing in future RAILway systems

Algorithm-Architecture Matching for Signal and Image Processing Guy Gogniat,Dragomir Milojevic,Adam Morawiec,Ahmet Erdogan,2010-10-20 Advances in signal and image processing together with increasing computing power are bringing mobile technology closer to applications in a variety of domains like automotive health telecommunication multimedia entertainment and many others The development of these leading applications involving a large diversity of algorithms e g signal image video 3D communication cryptography is classically divided into three consecutive steps a theoretical study of the algorithms a study of the target architecture and finally the implementation Such a linear design flow is reaching its limits due to intense pressure on design cycle and strict performance constraints The approach called Algorithm Architecture Matching aims to leverage design flows with a simultaneous study of both algorithmic and architectural issues taking into account multiple design constraints as well as algorithm and architecture optimizations that couldn t be achieved otherwise if considered separately Introducing new design methodologies is mandatory when facing the new emerging applications as for example advanced mobile communication or graphics using sub micron manufacturing technologies or 3D Integrated Circuits This diversity forms a driving force for the future evolutions of embedded system designs methodologies The main expectations from system designers point of view are related to methods tools and architectures supporting application complexity and design cycle reduction Advanced optimizations are essential to meet design constraints and to enable a wide acceptance of these new technologies Algorithm Architecture Matching for Signal and Image Processing presents a collection of selected contributions from both industry and academia addressing different aspects of Algorithm Architecture Matching approach ranging from sensors to architectures design The scope of this book reflects the diversity of potential algorithms includingsignal communication image video 3D Graphics implemented onto various architectures from FPGA to multiprocessor systems Several synthesis and resource management techniques leveraging design optimizations are also described and applied to numerous algorithms Algorithm Architecture Matching for Signal and Image Processing should be on each designer s and EDA tool developer s shelf as well as on those with an interest in digital system design optimizations dealing with advanced algorithms

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In a global defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their ability to kindle emotions, provoke contemplation, and ignite transformative change is actually awe-inspiring. Enter the realm of "**Formal Specification Level Concepts Methods And Algorithms**," a mesmerizing literary masterpiece penned with a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve to the book is central themes, examine its distinctive writing style, and assess its profound impact on the souls of its readers.

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Formal Specification Level Concepts Methods And Algorithms Introduction

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