

Paulo Tabuada

Foreword by Rajeev Alur

Verification and Control of Hybrid Systems

A Symbolic Approach

 Springer

Verification And Control Of Hybrid Systems A Symbolic Approach

Ed Brinksma, Kim G. Larsen



Verification And Control Of Hybrid Systems A Symbolic Approach:

Verification and Control of Hybrid Systems Paulo Tabuada, 2009-06-12 Hybrid systems describe the interaction of software described by finite models such as finite state machines with the physical world described by infinite models such as differential equations This book addresses problems of verification and controller synthesis for hybrid systems Although these problems are very difficult to solve for general hybrid systems several authors have identified classes of hybrid systems that admit symbolic or finite models The novelty of the book lies on the systematic presentation of these classes of hybrid systems along with the relationships between the hybrid systems and the corresponding symbolic models To show how the existence of symbolic models can be used for verification and controller synthesis the book also outlines several key results for the verification and controller design of finite systems Several examples illustrate the different methods and techniques discussed in the book

Control of Switching Systems by Invariance Analysis Laurent Fribourg, Romain Soulat, 2013-08-05 This book presents correct by design control techniques for switching systems using different methods of stability analysis Switching systems are increasingly used in the electronics and mechanical industries in power electronics and the automotive industry for example This is due to their flexibility and simplicity in accurately controlling industrial mechanisms By adopting appropriate control rules we can steer a switching system to a region centered at a desired equilibrium point while avoiding unsafe regions of parameter saturation The authors explain various correct by design methods for control synthesis using different methods of stability and invariance analysis They also provide several applications of these methods to industrial examples of power electronics

Formal Methods for Discrete-Time Dynamical Systems Calin Belta, Boyan Yordanov, Ebru Aydin Gol, 2017-03-08 This book bridges fundamental gaps between control theory and formal methods Although it focuses on discrete time linear and piecewise affine systems it also provides general frameworks for abstraction analysis and control of more general models The book is self contained and while some mathematical knowledge is necessary readers are not expected to have a background in formal methods or control theory It rigorously defines concepts from formal methods such as transition systems temporal logics model checking and synthesis It then links these to the infinite state dynamical systems through abstractions that are intuitive and only require basic convex analysis and control theory terminology which is provided in the appendix Several examples and illustrations help readers understand and visualize the concepts introduced throughout the book

Hybrid Systems: Computation and Control Manfred Morari, Lothar Thiele, Francesca Rossi, 2005-02-25 This book constitutes the refereed proceedings of the 8th International Workshop on Hybrid Systems Computation and Control HSCC 2005 held in Zurich Switzerland in March 2005 The 40 revised full papers presented together with 2 invited papers and the abstract of an invited talk were carefully reviewed and selected from 91 submissions The papers focus on modeling analysis and implementation of dynamic and reactive systems involving both discrete and continuous behaviors Among the topics addressed are tools for analysis and

verification control and optimization modeling engineering applications and emerging directions in programming language support and implementation **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

Computer Aided Verification Ed Brinksma, Kim G. Larsen, 2002-07-19 This volume contains the proceedings of the conference on Computer Aided Verification CAV 2002 held in Copenhagen Denmark on July 27-31 2002 CAV 2002 was the 14th in a series of conferences dedicated to the advancement of the theory and practice of computer assisted formal analysis methods for software and hardware systems The conference covers the spectrum from theoretical results to concrete applications with an emphasis on practical verification tools including algorithms and techniques needed for their implementation The conference has traditionally drawn contributions from researchers as well as practitioners in both academia and industry This year we received 94 regular paper submissions out of which 35 were selected Each submission received an average of 4 referee reviews In addition the CAV program contained 11 tool presentations selected from 16 submissions For each tool presentation a demo was given at the conference The large number of tool submissions and presentations testifies to the liveliness of the field and its application

Engineering Secure and Dependable Software Systems Alexander Pretschner, Peter Müller, 2019-08-15 Almost all technical systems currently either interface with or are themselves largely software systems Software systems must not harm their environment but are also often vulnerable to security attacks with potentially serious economic political and physical consequences so a better understanding of security and safety and improving the quality of complex software systems are crucial challenges for the functioning of society This book presents lectures from the 2018 Marktoberdorf summer school Engineering Secure and Dependable Software Systems an Advanced Study Institute of the NATO Science for Peace and Security Programme The lectures give an overview of the state of the art in the construction and analysis of safe and secure systems Starting from the logical and semantic foundations that enable reasoning about classical software systems they extend to the development and verification of cyber physical systems which combine computational and physical components and have become pervasive in aerospace

automotive industry automation and consumer appliances Safety and security have traditionally been considered separate topics but several lectures in this summer school emphasize their commonalities and present analysis and construction techniques that apply to both The book will be of interest to all those working in the field of software systems and cyber physical systems in particular *NASA Formal Methods* Jyotirmoy V. Deshmukh, Klaus Havelund, Ivan Perez, 2022-05-19 This book constitutes the proceedings of the 14th International Symposium on NASA Formal Methods NFM 2022 held in Pasadena USA during May 24 27 2022 The 33 full and 6 short papers presented in this volume were carefully reviewed and selected from 118 submissions The volume also contains 6 invited papers The papers deal with advances in formal methods formal methods techniques and formal methods in practice The focus on topics such as interactive and automated theorem proving SMT and SAT solving model checking use of machine learning and probabilistic reasoning in formal methods formal methods and graphical modeling languages such as SysML or UML usability of formal method tools and application in industry etc

Quantitative Evaluation of Systems and Formal Modeling and Analysis of Timed Systems Pavithra Prabhakar, Andrea Vandin, 2025-10-01 This book constitutes the proceedings of the Second International Joint Conference on Quantitative Evaluation of Systems and Formal Modeling and Analysis of Timed Systems QEST Formats 2025 which took place in Aarhus Denmark during August 2025 The 26 full papers included in these proceedings were carefully reviewed and selected from 57 submissions They focus on up to date research in quantitative evaluation of systems and formal modeling and analysis of timed systems *Logic, Computation and Rigorous Methods* Alexander Raschke, Elvinia Riccobene, Klaus-Dieter Schewe, 2021-06-04 This Festschrift was published in honor of Egon B rger on the occasion of his 75th birthday It acknowledges Prof B rger s inspiration as a scientist author mentor and community organizer Dedicated to a pioneer in the fields of logic and computer science Egon B rger s research interests are unusual in scope from programming languages to hardware architectures software architectures control systems workflow and interaction patterns business processes web applications and concurrent systems The 18 invited contributions in this volume are by leading researchers in the areas of software engineering programming languages business information systems and computer science logic

Computer Aided Verification Madhusudan Parthasarathy, Sanjit A. Seshia, 2012-06-22 This book constitutes the refereed proceedings of the 24th International Conference on Computer Aided Verification CAV 2012 held in Berkeley CA USA in July 2012 The 38 regular and 20 tool papers presented were carefully reviewed and selected from 185 submissions The papers are organized in topical sections on automata and synthesis inductive inference and termination abstraction concurrency and software verification biology and probabilistic systems embedded and control systems SAT SMT solving and SMT based verification timed and hybrid systems hardware verification security verification and synthesis and tool demonstration

Fundamental Approaches to Software Engineering Heike Wehrheim, Jordi Cabot, 2020-04-20 This open access book constitutes the proceedings of the 23rd International Conference on Fundamental Approaches to Software Engineering FASE

2020 which took place in Dublin Ireland in April 2020 and was held as Part of the European Joint Conferences on Theory and Practice of Software ETAPS 2020 The 23 full papers 1 tool paper and 6 testing competition papers presented in this volume were carefully reviewed and selected from 81 submissions The papers cover topics such as requirements engineering software architectures specification software quality validation verification of functional and non functional properties model driven development and model transformation software processes security and software evolution

H-Systems Elena De Santis, Maria Domenica Di Benedetto, 2023-05-08 This book focuses on the observability of hybrid systems It enables the reader to determine whether and how a hybrid system's state can be reconstructed from sometimes necessarily partial information By explaining how available measurements can be used to deduce past and future behaviours of a system the authors extend this study of observability to embrace the properties of diagnosability and predictability H systems shows how continuous and discrete dynamics and their interaction affect the observability of this general class of hybrid systems and demonstrates that hybrid characteristics are not simply generalizations of well known aspects of traditional dynamics The authors identify conditions for state reconstruction prediction and diagnosis of the occurrence of possibly faulty states The formal approach to proving those properties for hybrid systems is accompanied by simple illustrative examples For readers who are interested in the use of state estimation for controller design the book also provides design methods for hybrid state observers and covers their application in some industrial cases The book's tutorial approach to the various forms of observability of hybrid systems helps to make H systems of interest to academic researchers and graduate students working in control and to practitioners using control in an industrial environment

Tools and Algorithms for the Construction and Analysis of Systems Dana Fisman, Grigore Rosu, 2022-03-29 This open access book constitutes the proceedings of the 28th International Conference on Tools and Algorithms for the Construction and Analysis of Systems TACAS 2022 which was held during April 2-7 2022 in Munich Germany as part of the European Joint Conferences on Theory and Practice of Software ETAPS 2022 The 46 full papers and 4 short papers presented in this volume were carefully reviewed and selected from 159 submissions The proceedings also contain 16 tool papers of the affiliated competition SV Comp and 1 paper consisting of the competition report TACAS is a forum for researchers developers and users interested in rigorously based tools and algorithms for the construction and analysis of systems The conference aims to bridge the gaps between different communities with this common interest and to support them in their quest to improve the utility reliability exibility and efficiency of tools and algorithms for building computer controlled systems

Tools and Algorithms for the Construction and Analysis of Systems Bernd Finkbeiner, Laura Kovács, 2024-04-03 The open access book 3 volume set LNCS 14570 14573 constitutes the proceedings of the 30th International Conference on Tools and Algorithms for the Construction and Analysis of Systems TACAS 2024 which was held as part of the European Joint Conferences on Theory and Practice of Software ETAPS 2024 during April 6-11 2024 in Luxembourg The 53 full papers and 16 short SVComp

contributions included in these proceedings were carefully reviewed and selected from 159 submissions They were organized in topical sections as follows Part I STA and SMT solving synthesis logic and decidability program analysis and proofs proof checking Part II Model Checking automata and learning software verification probabilistic systems simulations Part III Neural networks testing and verification games concurrency SV Comp 2024 **Cyber-Physical Systems** Raj Rajkumar,Dionisio de Niz,Mark Klein,2016-12-23 Learn the State of the Art in Embedded Systems and Embrace the Internet of Things The next generation of mission critical and embedded systems will be cyber physical They will demand the precisely synchronized and seamless integration of complex sets of computational algorithms and physical components Cyber Physical Systems is the definitive guide to building cyber physical systems CPS for a wide spectrum of engineering and computing applications Three pioneering experts have brought together the field s most significant work in one volume that will be indispensable for all practitioners researchers and advanced students This guide addresses CPS from multiple perspectives drawing on extensive contributions from leading researchers The authors and contributors review key CPS challenges and innovations in multiple application domains Next they describe the technical foundations underlying modern CPS solutions both what we know and what we still need to learn Throughout the authors offer guiding principles for every facet of CPS development from design and analysis to planning future innovations Comprehensive coverage includes Understanding CPS drivers challenges foundations and emerging directions Building life critical context aware networked systems of medical devices Creating energy grid systems that reduce costs and fully integrate renewable energy sources Modeling complex interactions across cyber and physical domains Synthesizing algorithms to enforce CPS control Addressing space time energy and reliability issues in CPS sensor networks Applying advanced approaches to real time scheduling Securing CPS preventing man in the middle and other attacks Ensuring logical correctness and simplifying verification Enforcing synchronized communication between distributed agents Using model integration languages to define formal semantics for CPS models Register your product at informit.com/register for convenient access to downloads updates and corrections as they become available Quantitative Evaluation of Systems and Formal Modeling and Analysis of Timed Systems Jane Hillston,Sadegh Soudjani,Masaki Waga,2024-08-28 This book constitutes the proceedings of the First International Joint Conference on Quantitative Evaluation of Systems and Formal Modeling and Analysis of Timed Systems QEST Formats 2024 which took place in Calgary AB Canada during September 2024 This year the 21th International Conference on Quantitative Evaluation of SysTems QEST 2024 and the 22nd International Conference on Formal Modeling and Analysis of Timed Systems FORMATS 2024 joint forces and took place as part of the CONFEST 2024 umbrella conference The 19 full papers presented in this book were carefully reviewed and selected from 33 submissions They deal with up to date topics in quantitative evaluation and verification of systems focusing on fundamental and practical aspects of systems with quantitative nature such as probability timing and cost and modeling design and analysis of computational

systems **Quantitative Evaluation of Systems** Kaustubh Joshi,Markus Siegle,Mariëlle Stoelinga,Pedro R. D'Argenio,2013-07-23 This book constitutes the thoroughly refereed proceedings of the 10th International Conference on Quantitative Evaluation of Systems QEST 2013 held in Buenos Aires Argentina August 27 30 2013 The 21 revised full papers presented together with 9 tool demonstrations were carefully reviewed and selected from 52 submissions The papers are organized in topics such as probabilistic automata and Markov automata population models model checking and systems systems control and games timed automata and simulation **Discrete-Time and Discrete-Space Dynamical Systems** Kuize Zhang,Lijun Zhang,Lihua Xie,2019-08-06 Discrete Time and Discrete Space Dynamical Systems provides a systematic characterization of the similarities and differences of several types of discrete time and discrete space dynamical systems including Boolean control networks nondeterministic finite transition systems finite automata labelled Petri nets and cellular automata The book s perspective is primarily based on topological properties though it also employs semitensor product and graph theoretic methods where appropriate It presents a series of fundamental results invertibility observability detectability reversibility etc with applications to systems biology Academic researchers with backgrounds in applied mathematics engineering or computer science and practising engineers working with discrete time and discrete space systems will find this book a helpful source of new understanding for this increasingly important class of systems The basic results to be found within are of fundamental importance for further study of related problems such as automated synthesis and safety control in cyber physical systems using formal methods Integrated Formal Methods Nadia Polikarpova,Steve Schneider,2017-09-11 This book constitutes the refereed proceedings of the 13th International Conference on Integrated Formal Methods IFM 2017 held in Turin Italy in September 2017 The 24 full papers and 4 short papers presented were carefully reviewed and selected from 61 submissions They are organized in topical sections on cyber physical systems software verification tools safety critical systems concurrency and distributed systems program verification techniques formal modeling and verified software

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