André Platzer

Logical Analysis of Hybrid Systems

Proving Theorems for Complex Dynamics

Logical Analysis Of Hybrid Systems Proving Theorems For Complex Dynamics

Michael Stephen Branicky,Center for Intelligent Control Systems (U.S.)

Logical Analysis Of Hybrid Systems Proving Theorems For Complex Dynamics:

Logical Analysis of Hybrid Systems André Platzer,2010-09-02 Hybrid systems are models for complex physical systems and have become a widely used concept for understanding their behavior Many applications are safety critical including car railway and air traffic control robotics physical chemical process control and biomedical devices Hybrid systems analysis studies how we can build computerized controllers for physical systems which are guaranteed to meet their design goals The author gives a unique logic based perspective on hybrid systems analysis It is the first book that leverages the power of logic for hybrid systems The author develops a coherent logical approach for systematic hybrid systems analysis covering its theory practice and applications It is further shown how the developed verification techniques can be used to study air traffic and railway control systems This book is intended for researchers postgraduates and professionals who are interested in hybrid systems analysis cyberphysical or embedded systems design logic and theorem proving or transportation and automation   **Interactive Theorem Proving** Mauricio Ayala-Rincón,César A. Muñoz,2017-09-04 This book constitutes the refereed proceedings of the 8th International Conference on Interactive Theorem Proving ITP 2017 held in Brasilia Brazil in September 2017 The 28 full papers 2 rough diamond papers and 3 invited talk papers presented were carefully reviewed and selected from 65 submissions The topics range from theoretical foundations to implementation aspects and applications in program verification security and formalization of mathematical theories   **Interactive Theorem Proving** Lennart Beringer,Amy Felty,2012-08-10 This book constitutes the thoroughly refereed proceedings of the Third International Conference on Interactive Theorem Proving ITP 2012 held in Princeton NJ USA in August 2012 The 21 revised full papers presented together with 4 rough diamond papers 3 invited talks and one invited tutorial were carefully reviewed and selected from 40 submissions Among the topics covered are formalization of mathematics program abstraction and logics data structures and synthesis security non termination and automata program verification theorem prover development reasoning about program execution and prover infrastructure and modeling styles   **Rigorous State-Based Methods** Uwe Glässer,Jose Creissac Campos,Dominique Méry,Philippe Palanque,2023-05-14 This book constitutes the refereed proceedings of the 9th International Conference on Rigorous State Based Methods ABZ 2023 held in Nancy France in May 2023 The 12 full and 7 short papers included in this volume were carefully reviewed and selected from 47 submissions The proceedings also include 4 PhD symposium contributions They deal with state based and machine based formal methods mainly Abstract State Machines ASM Alloy B TLA VDM and Z   **Descriptional Complexity of Formal Systems** Martin Kutrib,Nelma Moreira,Rogério Reis,2012-07-09 This book constitutes the refereed proceedings of the 14th International Workshop of Descriptional Complexity of Formal Systems 2012 held in Braga Portugal in July 2012 The 20 revised full papers presented together with 4 invited papers were carefully reviewed and selected from 33 submissions The topics covered are automata grammars languages and related systems various measures and modes of operations e g determinism and nondeterminism

trade offs between computational models and or operations succinctness of description of finite objects state explosion like phenomena circuit complexity of Boolean functions and related measures resource bounded or structure bounded environments frontiers between decidability and undecidability universality and reversibility structural complexity formal systems for applications e g software reliability software and hardware testing modeling of natural languages nature motivated bio inspired architectures and unconventional models of computing Kolmogorov complexity **Formal Methods Teaching** Emil Sekerinski,Leila Ribeiro,2024-09-04 This book constitutes the proceedings of the 6th International Workshop on Formal Methods Teaching FMTea 2024 which was held in Milan Italy on September 10 2024 The 7 full papers included in these proceedings were carefully reviewed and selected from 9 submissions The book also contains one invited talk in full paper length The papers focus on learning formal methods for the purpose of teaching and self learning **Rigorous State-Based Methods** Michael Leuschel,Fuyuki Ishikawa,2025-10-02 This book constitutes the refereed proceedings of the 11th International Conference on Rigorous State Based Methods ABZ 2025 held in D sseldorf Germany during June 10 13 2025 The 10 full papers 4 short papers 2 PhD Symposium papers and 5 case study papers presented in this book were carefully reviewed and selected from 33 submissions The proceedings also contain one invited talk in full paper length The ABZ conference series is dedicated to the cross fertilization of state based and machine based formal methods Abstract State Machines ASM Alloy B TLA VDM and Z are examples of these methods They share a common conceptual foundation and are widely used in both academia and industry for the rigorous design and analysis of hardware and software systems The ABZ conferences aim to be a forum for the vital exchange of knowledge and experience among the research communities around different formal methods **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 Automated Deduction - CADE-25 Amy P. Felty,Aart Middeldorp,2015-07-30 This book constitutes the proceedings of the 25th International Conference on Automated Deduction CADE 25 held in Berlin Germany in August 2015 The 36 revised full papers presented 24 full papers and 12 system descriptions were carefully reviewed and selected from 85

submissions CADE is the major forum for the presentation of research in all aspects of automated deduction including foundations applications implementations and practical experience   Provably Correct Systems Mike Hinchey,Jonathan P. Bowen,Ernst-Rüdiger Olderog,2017-03-01 As computers increasingly control the systems and services we depend upon within our daily lives like transport communications and the media ensuring these systems function correctly is of utmost importance This book consists of twelve chapters and one historical account that were presented at a workshop in London in 2015 marking the 25th anniversary of the European ESPRIT Basic Research project ProCoS Provably Correct Systems The ProCoS I and II projects pioneered and accelerated the automation of verification techniques resulting in a wide range of applications within many trades and sectors such as aerospace electronics communications and retail The following topics are covered An historical account of the ProCoS project Hybrid Systems Correctness of Concurrent Algorithms Interfaces and Linking Automatic Verification Run time Assertions Checking Formal and Semi Formal Methods Provably Correct Systems provides researchers designers and engineers with a complete overview of the ProCoS initiative past and present and explores current developments and perspectives within the field   *Artificial Intelligence Abstracts* ,1986   **Index to IEEE Publications** Institute of Electrical and Electronics Engineers,1973 Issues for 1973 cover the entire IEEE technical literature   **An Introduction to Hybrid Dynamical Systems** Arjan J. van der Schaft,Hans Schumacher,2007-10-03 This book is about dynamical systems that are hybrid in the sense that they contain both continuous and discrete state variables Recently there has been increased research interest in the study of the interaction between discrete and continuous dynamics The present volume provides a first attempt in book form to bring together concepts and methods dealing with hybrid systems from various areas and to look at these from a unified perspective The authors have chosen a mode of exposition that is largely based on illustrative examples rather than on the abstract theorem proof format because the systematic study of hybrid systems is still in its infancy The examples are taken from many different application areas ranging from power converters to communication protocols and from chaos to mathematical finance Subjects covered include the following definition of hybrid systems description formats existence and uniqueness of solutions special subclasses variable structure systems complementarity systems reachability and verification stability and stabilizability control design methods The book will be of interest to scientists from a wide range of disciplines including computer science control theory dynamical system theory systems modeling and simulation and operations research   **Hybrid Systems V** Panos J. Antsaklis,1999-02-24 This book constitutes the strictly refereed post proceedings of the 5th International Hybrid Systems Workshop held in Notre Dame Indiana USA in September 1998 The 23 revised full papers presented in the book have gone through two rounds of thorough reviewing and revision The volume presents state of the art research results and particularly addresses such areas as program verification concurrent and distributed processes logic programming logics of programs discrete event simulation calculus of variations optimization differential geometry Lie algebras automata theory

dynamical systems etc   *Hybrid Dynamical Systems* Hai Lin,Panos J. Antsaklis,2021-11-18 A graduate level textbook Hybrid Dynamical Systems provides an accessible and comprehensive introduction to the theory of hybrid systems It emphasizes results that are central to a good understanding of the importance and role of such systems The authors have developed the materials in this book while teaching courses on hybrid systems cyber physical systems and formal methods This textbook helps students to become familiar with both the major approaches coloring the study of hybrid dynamical systems The computer science and control systems points of view emphasizing discrete dynamics and real time and continuous dynamics with switching respectively are each covered in detail The book shows how the behavior of a system with tightly coupled cyber discrete and physical continuous elements can best be understood by a model simultaneously encompassing all the dynamics and their interconnections The theory presented is of fundamental importance in a wide range of emerging fields from next generation transportation systems to smart manufacturing Features of the text include extensive use of examples to illustrate the main concepts and to provide insights additional to those acquired from the main text chapter summaries enabling students to assess their progress end of chapter exercises which test learning as a course proceeds an instructor s guide showing how different parts of the book can be exploited for different course requirements and a solutions manual freely available for download by instructors adopting the book for their teaching Access to MATLAB and Stateflow is not required but would be beneficial especially for exercises in which simulations are a key tool   *Hybrid Dynamical Systems* Hai Lin,Panos J. Antsaklis,Now Publishers,2014 Hybrid dynamical systems are a class of complex systems that involve interacting discrete event and continuous variable dynamics They are important in applications in embedded systems cyber physical systems robotics manufacturing systems traffic management biomolecular networks and have recently been at the center of intense research activity in the control theory computer aided verification and artificial intelligence communities This paper provides a tutorial introduction to this multidisciplinary research area A number of fundamental topics such as modeling abstraction verification supervisory control stability analysis stabilization and optimal control of hybrid systems are introduced and discussed Additionally more advanced topics are briefly discussed at the end of each chapter with references given for further reading   **Hybrid Systems III** Rajeev Alur,Thomas A. Henzinger,Eduardo D. Sontag,1996-04-24 This reference book documents the scientific outcome of the DIMACS SYCON Workshop on Verification and Control of Hybrid Systems held at Rutgers University in New Brunswick NJ in October 1995 A hybrid system consists of digital devices that interact with analog environments Computer science contributes expertise on the analog aspects of this emerging field of interdisciplinary research and design The 48 revised full papers included were strictly refereed they present the state of the art in this dynamic field with contributions by leading experts Also available are the predecessor volumes published in the same series as LNCS 999 and LNCS 736   <u>Studies in Hybrid Systems</u> Michael Stephen Branicky,Center for Intelligent Control Systems (U.S.),1995 Complex systems typically possess a hierarchical structure characterized by continuous variable

dynamics at the lowest level and logical decision making at the highest Virtually all control systems today perform computer coded checks and issue logical as well as continuous variable control commands Such are hybrid systems Traditionally the hybrid nature of these systems is suppressed by converting them into either purely discrete or continuous entities Motivated by real world problems we introduce hybrid systems as interacting collections of dynamical systems evolving on continuous variable state spaces and subject to continuous controls and discrete phenomena We identify the discrete phenomena that arise in hybrid systems and review previously proposed models We propose a hybrid control model coupling differential equations and automata that encompasses them Our unified model is natural for posing and solving hybrid analysis and control problems We discuss topological issues that arise in hybrid systems analysis Then we compare the computational capabilities of analog digital and hybrid machines by proposing intuitive notions of analog machines simulating digital ones We show that simple continuous systems possess the power of universal computation Hybrid systems have further simulation capabilities For instance we settle the famous asynchronous arbiter problem in both continuous and hybrid settings Further we develop analysis tools for limit cycle existence perturbation robustness and stability We analyze a hybrid control system typically used in aircraft that logically switches between two conventional controllers Stability of such systems has previously only been tested using extensive simulation we prove global asymptotic stability for a realistic set of cases Our tools demonstrate robustness of this stability with respect   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   Hybrid Systems: Computation and Control Rajeev Alur,George Pappas,2004-02-24 This volume contains the proceedings of the 7th Workshop on Hybrid Systems Computation and Control HSCC 2004 held in Philadelphia USA from March 25 to 27 2004 The annual workshop on hybrid systems attracts researchers from academia and industry interested in modeling analysis and implemen tion of dynamic and reactive systems involving both discrete and continuous behaviors The previous workshops in the HSCC series were held in Berkeley USA 1998 Nijmegen TheNetherlands 1999 Pittsburgh USA 2000 Rome Italy 2001 Palo Alto USA 2002 and Prague Czech Republic 2003 This year s HSCC was organized in cooperation with ACM SIGBED Special Interest Group on Embedded Systems and was technically co sponsored by the IEEE Control Systems Society The program consisted of 4

invited talks and 43 regular papers selected from 117 regular submissions The program covered topics such as tools for analysis and veri cation control and optimization modeling and engineering applica ons as in past years and emerging directions in programming language support and implementation The program also contained one special session focusing on the interplay between biomolecular networks systems biology formal methods andthecontrolofhybridsystems

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