

André Platzer

Logical Analysis of Hybrid Systems

Proving Theorems
for Complex Dynamics



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Logical Analysis Of Hybrid Systems Proving Theorems For Complex Dynamics

Cliff Jones, Pekka Pihlajasaari, Jun Sun



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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

Logical Foundations of Cyber-Physical Systems André Platzer, 2018-07-30 Cyber physical systems CPSs combine cyber capabilities such as computation or communication with physical capabilities such as motion or other physical processes Cars aircraft and robots are prime examples because they move physically in space in a way that is determined by discrete computerized control algorithms Designing these algorithms is challenging due to their tight coupling with physical behavior while it is vital that these algorithms be correct because we rely on them for safety critical tasks This textbook teaches undergraduate students the core principles behind CPSs It shows them how to develop models and controls identify safety specifications and critical properties reason rigorously about CPS models leverage multi dynamical systems compositionality to tame CPS complexity identify required control constraints verify CPS models of appropriate scale in logic and develop an intuition for operational effects The book is supported with homework exercises lecture videos and slides

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

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

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

Formal Modeling and Analysis of Timed Systems Alessandro Abate, Gilles Geeraerts, 2017-09-01 This book constitutes the refereed proceedings of the 15th International Conference on Formal Modeling and Analysis of Timed Systems FORMATS 2017 held in Berlin Germany in September 2017 The aim of FORMATS is to promote the study of fundamental and practical aspects of timed systems and to bring together researchers from different disciplines that share interests in modelling and analysis of timed systems and as a generalization hybrid systems

Descriptive 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 Descriptive 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

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

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

Computer Aided Verification Ganesh Gopalakrishnan, Shaz Qadeer, 2011-07-05 This book constitutes the refereed proceedings of the 23rd International Conference on Computer Aided Verification CAV 2011 held in Snowbird UT USA in July 2011 The 35 revised full papers presented together with 20 tool papers were carefully reviewed and selected from 161 submissions The papers are organized in topical sections on the following workshops 4th International Workshop on Numerical Software Verification NSV 2011 10th International Workshop on Parallel and Distributed Methods in Verifications PDMC 2011 4th International Workshop on Exploiting Concurrency Efficiently and Correctly EC2 2011 Frontiers in Analog Circuit Synthesis and Verification FAC 2011 International Workshop on Satisfiability Modulo Theories including SMTCOMP SMT 2011 18th International SPIN Workshop on Model Checking of Software SPIN 2011 Formal Methods for Robotics and Automation FM R 2011 and Practical Synthesis for Concurrent Systems PSY 2011

Tools and Algorithms for the Construction and Analysis of Systems Erika Abraham, Klaus Havelund, 2014-03-21 This book constitutes the proceedings of the 20th International Conference on Tools and Algorithms for the Construction and Analysis of Systems TACAS 2014 which took place in Grenoble France in April 2014 as part of the European Joint Conferences on Theory and Practice of Software ETAPS 2014 The total of 42 papers included in this volume consisting of 26 research papers 3 case study papers 6 regular tool papers and 7 tool demonstrations papers were carefully reviewed and selected from 161 submissions In addition the book contains one invited contribution The papers are organized in topical sections named decision procedures and their application in analysis complexity and termination analysis modeling and model checking discrete systems timed and hybrid systems monitoring fault detection and identification competition on software verification specifying and checking linear time properties synthesis and learning quantum and probabilistic systems as well as tool demonstrations and case studies

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 Cyber Physical Systems. Design, Modeling, and Evaluation Roger Chamberlain, Walid Taha, Martin Törngren, 2019-04-12 This book constitutes the proceedings of the 7th International Workshop on Design Modeling and Evaluation of Cyber Physical Systems CyPhy2017 held in conjunction with ESWeek 2017 in Seoul South Korea in October 2017 The 10 papers presented together with 1 extended and 1 invited abstracts in this volume were carefully reviewed and selected from 16 submissions The conference presents a wide range of domains including robotics smart homes vehicles and buildings medical implants and future generation sensor networks

FM 2014: Formal Methods Cliff Jones, Pekka Pihlajasaari, Jun Sun, 2014-04-18 This book constitutes the refereed proceedings of the 19th International Symposium on Formal Methods FM 2014 held in Singapore May 2014 The 45 papers presented together with 3 invited talks were carefully reviewed and selected from 150 submissions The focus of the papers is on the following topics Interdisciplinary Formal Methods Practical Applications of Formal Methods in Industrial and Research Settings Experimental Validation of Tools and Methods as well as Construction and Evolution of Formal Methods Tools **Tools and Algorithms for the Construction and Analysis of Systems** Christel Baier, Cesare Tinelli, 2015-03-30

This book constitutes the proceedings of the 21st International Conference on Tools and Algorithms for the Construction and Analysis of Systems TACAS 2015 which took place in London UK in April 2015 as part of the European Joint Conferences on Theory and Practice of Software ETAPS 2015 The 45 papers included in this volume consisting of 27 research papers 2 case study papers 7 regular tool papers and 9 tool demonstration papers were carefully reviewed and selected from 164 submissions In addition the book contains one invited contribution The papers have been organized in topical sections on hybrid systems program analysis verification and abstraction tool demonstrations stochastic models SAT and SMT partial order reduction bisimulation and fairness competition on software verification parameter synthesis program synthesis program and runtime verification temporal logic and automata and model checking *Design Automation of Cyber-Physical Systems* Mohammad Abdullah Al Faruque, Arquimedes Canedo, 2019-05-09 This book presents the state of the art and breakthrough innovations in design automation for cyber physical systems The authors discuss various aspects of cyber physical systems design including modeling co design optimization tools formal methods validation verification and case studies Coverage includes a survey of the various existing cyber physical systems functional design methodologies and related tools will provide the reader unique insights into the conceptual design of cyber physical systems **Quantitative Evaluation of Systems** David Parker, Verena Wolf, 2019-09-04 This book constitutes the proceedings of the 16th International Conference on Quantitative Evaluation Systems QEST 2019 held in Glasgow UK in September 2019 The 17 full

papers presented together with 2 short papers were carefully reviewed and selected from 40 submissions The papers cover topics in the field of Probabilistic Verification Learning and Verification Hybrid Systems Security Probabilistic Modelling and Abstraction and Applications and Tools

Reliability, Safety, and Security of Railway Systems. Modelling, Analysis, Verification, and Certification Alessandro Fantechi,Thierry Lecomte,Alexander Romanovsky,2017-11-06 This volume constitutes the proceedings of the Second International Conference on Reliability Safety and Security of Railway Systems RRSRail 2017 held in Pistoia Italy in November 2017 The 16 papers presented in this volume were carefully reviewed and selected from 34 submissions They are organized in topical sections named communication challenges in railway systems formal modeling and verification for safety light rail and urban transit and engineering techniques and standards The book also contains one keynote talk in full paper length

Automated Reasoning Jasmin Blanchette,Laura Kovács,Dirk Pattinson,2022-08-01 This volume LNAI 13385 constitutes the refereed proceedings of the 11th International Joint Conference on Automated Reasoning IJCAR 2022 held in Haifa Israel in August 2022 The 32 full research papers and 9 short papers presented together with two invited talks were carefully reviewed and selected from 85 submissions The papers focus on the following topics Satisfiability SMT Solving Arithmetic Calculi and Orderings Knowledge Representation and Justification Choices Invariance Substitutions and Formalization Modal Logics Proofs System and Proofs Search Evolution Termination and Decision Problems This is an open access book

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