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Automated Deduction - CADE-18-Andrei Voronkov 2002-07-17 This book constitutes the refereed proceedings of the 18th International Conference on Automated Deduction, CADE - 18, held in Copenhagen, Denmark, in July 2002. The 27 revised full papers and 10 system descriptions presented together with three invited contributions were carefully reviewed and selected from 70 submissions. The book offers topical sections on description logics and the semantic Web, proofcarrying code and compiler verifications, non-classical logics, system descriptions, SAT, model generation, CASC, combination and decision procedures, logical frameworks, model checking, equational reasoning, and proof theory.

Automated Deduction - CADE-19-Franz Baader 2003-07-16 The revised proceedings of the 19th International Conference on Automated Deduction, CADE 2003, held in Miami Beach, FL, USA in July 2003. The 29 revised full papers and 7 system description papers presented together with an invited paper and 3 abstracts of invited talks were carefully reviewed and selected from 83 submissions. All current aspects of automated deduction are discussed, ranging from theoretical and methodological issues to the presentation of new theorem provers and systems.

Frontiers of Combining Systems-Bernhard Gramlich 2005-09-14 This book constitutes the refereed proceedings of the 5th International Workshop on Frontiers of Combining Systems, FroCoS 2005, held in Vienna, Austria, in September 2005. The 19 revised full papers presented including 2 system descriptions were carefully reviewed and selected from 28 submissions. The papers are organized in topical sections on combinations of logics, theories, and decision procedures; constraint solving and programming; combination issues in rewriting and programming as well as in logical frameworks and theorem proving systems.

Automated Deduction – CADE 27-Pascal Fontaine 2019-08-20 This book constitutes the proceeding of the 27th International Conference on Automated Deduction, CADE 27, held in Natal, Brazil, in August 2019. The 27 full papers and 7 system descriptions presented were carefully reviewed and selected from 65 submissions. CADE is the major forum for the presentation of research in all aspects of automated deduction, including foundations, applications, implementations, and practical experience.

The Combination Problem in Automated Reasoning-Calogero G. Zarba 2004

Handbook of Automated Reasoning-Alan J.A. Robinson 2001-07-05 Handbook of Automated Reasoning.

Intelligent Tutoring Systems- 2004

Mathematical Knowledge Management- 2005

Mathematical Knowledge Management-Michael Kohlhase 2006

Automated Deduction, CADE ...- 1999

American Book Publishing Record- 2003

Combining Reason and Authority for Authorization of Proof-carrying Code-Nathan Whitehead 2008

The British National Bibliography-Arthur James Wells 2005

Automated Reasoning with Analytic Tableaux and Related Methods- 2002

Automated Deduction -- CADE-24-Maria Paola Bonacina 2013-06-04 This book constitutes the proceedings of the 24th International Conference on Automated Deduction, CADE-24, held in Lake Placid, NY, USA, in June 2013. The 31 revised full papers presented together with 2 invited papers were carefully reviewed and selected from 71 initial submissions. CADE is the major forum for the presentation of research in all aspects of automated deduction, ranging from theoretical and methodological issues to the presentation of new theorem provers, solvers and systems.

Le Matematiche- 2005

Arithmetic Integration of Decision Procedures-Ting Zhang 2006

On the Move to Meaningful Internet Systems ...: CoopIS, DOA, and ODBASE- 2002

Computer Aided Verification-Armin Biere 2014-06-28 This book constitutes the proceedings of the 26th International Conference on Computer Aided Verification, CAV 2014, held as part of the Vienna Summer of Logic, VSL 2014, in Vienna, Austria, in July 2014. The 46 regular papers and 11 short papers presented in this volume were carefully reviewed and selected from a total of 175 regular and 54 short paper submissions. The contributions are organized in topical sections named: software verification; automata; model checking and testing; biology and hybrid systems; games and synthesis; concurrency; SMT and theorem proving; bounds and termination; and abstraction.

Logic Programming-Andrei Voronkov 1992-05-06 This volume contains the proceedings of two Russian conferences on logic programming, held in 1990 in Irkutsk and in 1991 in St. Petersburg. The aim of the conferences was to bring together researchers from the Russian and the international logic programming communities. Topics covered in the volume include: logic programming, automated theorem proving, non-monotonic reasoning, applications of mathematical logic to computer science, deductivedatabases, implementation of declarative concepts, and programming in non-classical logics. This is the first volume to represent activity in the field of logic programming in the countries of the former Soviet Union.

Logic Programming-Russian Conference on Logic Programming 1992 "This volume contains the proceedings of two Russian conferences on logic programming, held in 1990 in Irkutsk and in 1991 in St. Petersburg. The aim of the conferences was to bring together researchers from the Russian and the international logic programming communities. Topics covered in the volume include: logic programming, automated theorem proving, non-monotonic reasoning, applications of mathematical logic to computer science, deductivedatabases, implementation of declarative concepts, and programming in non-classical logics. This is the first volume to represent activity in the field of logic programming in the countries of the former Soviet Union."--PUBLISHER'S WEBSITE.

Symposium on Automatic Demonstration-M. Laudet 2006-11-15

Isabelle-Chanette Paul 2011-11-01 Hul persoonlikhede knoop en skuur behoorlik - sy, die opsters gravinnetjie, en hy, die boertige bywoner. Maar meer as 'n herinnering kan Isabelle nie word nie, want Arendt de Leeuw het net 'n paar maande oor.

Automated Reasoning-Nicola Olivetti 2014-06-13 This book constitutes the refereed proceedings of the 8th International Joint Conference on Automated Reasoning, IJCAR 2016, held in Coimbra, Portugal, in June/July 2016. IJCAR 2014 was a merger of three leading events in automated reasoning, namely CADE (International Conference on Automated Deduction), FroCoS (International Symposium on Frontiers of Combining Systems) and TABLEAUX (International Conference on Automated Reasoning with Analytic Tableaux and Related Methods). The 26 revised full research papers and 9 system descriptions presented together with 4 invited talks were carefully reviewed and selected from 79 submissions. The papers have been organized in topical sections on satisfiability of Boolean formulas, satisfiability modulo theory, rewriting, arithmetic reasoning and mechanizing mathematics, first-order logic and proof theory, first-order theorem proving, higher-order theorem proving, modal and temporal logics, non-classical logics, and verification.

Books in Print Supplement- 2002

Automated Reasoning-Alessandro Armando 2008-08-30 This book constitutes the refereed proceedings of the 4th International Joint Conference on Automated Reasoning, IJCAR 2008, held in Sydney, Australia, in August 2008. The 26 revised full research papers and 13 revised system descriptions presented together with 4 invited papers and a summary of the CASC-J4 systems competition were carefully reviewed and selected from 80 full paper and 17 system description submissions. The papers address the entire spectrum of research in automated reasoning and are organized in topical sections on specific theories, automated verification, protocol verification, system descriptions, modal logics, description logics, equational theories, theorem proving, CASC, the 4th IJCAR ATP system competition, logical frameworks, and tree automata.

Journal of the ACM.- 1998

Concrete Semantics-Tobias Nipkow 2014-12-03 Part I of this book is a practical introduction to working with the Isabelle proof assistant. It teaches you how to write functional programs and inductive definitions and how to prove properties about them in Isabelle's structured proof language. Part II is an introduction to the semantics of imperative languages with an emphasis on applications like compilers and program analysers. The distinguishing feature is that all the mathematics has been formalised in Isabelle and much of it is executable. Part I focusses on the details of proofs in Isabelle; Part II can be read without familiarity with Isabelle's proof language, all proofs are described in detail but informally. The book teaches the reader the art of precise logical reasoning and the practical use of a proof assistant as a surgical tool for formal proofs about computer science artefacts. In this sense it represents a formal approach to computer science, not just semantics. The Isabelle formalisation, including the proofs and accompanying slides, are freely available online, and the book is suitable for graduate students, advanced undergraduate students, and researchers in theoretical computer science and logic.

Computer Science Logic-Egon Börger 1993 This workshop on stochastic theory and adaptive control assembled many of the leading researchers on stochastic control and stochastic adaptive control to increase scientific exchange and cooperative research between these two subfields of stochastic analysis. The papers included in the proceedings include survey and research. There are theoretical results in identification, filtering, control, adaptive control and various other related topics. Some applications to manufacturing systems, queues, networks, medicine and other topics are gien.

The Legacy of Kurt Schütte-Reinhard Kahle 2020

Handbook of Satisfiability-Armin Biere 2009-01-01 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)

Automated Mathematical Induction-Hantao Zhang 2012-12-06 It has been shown how the common structure that defines a family of proofs can be expressed as a proof plan [5]. This common structure can be exploited in the search for particular proofs. A proof plan has two complementary components: a proof method and a proof tactic. By prescribing the structure of a proof at the level of primitive inferences, a tactic [11] provides the guarantee part of the proof. In contrast, a method provides a more declarative explanation of the proof by means of preconditions. Each method has associated effects. The execution of the effects simulates the application of the corresponding tactic. Theorem proving in the proof planning framework is a two-phase process: 1. Tactic construction is by a process of method composition: Given a goal, an applicable method is selected. The applicability of a method is determined by evaluating the method's preconditions. The method effects are then used to calculate subgoals. This process is applied recursively until no more subgoals remain. Because of the one-to-one correspondence between methods and tactics, the output from this process is a composite tactic tailored to the given goal. 2. Tactic execution generates a proof in the object-level logic. Note that no search is involved in the execution of the tactic. All the search is taken care of during the planning process. The real benefits of having separate planning and execution phases become appar ent when a proof attempt fails.

Handbook of Model Checking-Edmund M. Clarke 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.

Extensions of First-Order Logic-Maria Manzano 1996-03-29 This book introduces some extensions of classical first-order logic and applies them to reasoning about computer programs. The extensions considered are: second-order logic, many-sorted logic, w-logic, modal logic type theory and dynamic logic. These have wide applications in various areas of computer science, philosophy, natural language processing and artificial intelligence. Researchers in these areas will find this book a useful introduction and comparative treatment.

Advances in Neural Networks – ISNN 2019-Huchuan Lu 2019-06-26 This two-volume set LNCS 11554 and 11555 constitutes the refereed proceedings of the 16th International Symposium on Neural Networks, ISNN 2019, held in Moscow, Russia, in July 2019. The 111 papers presented in the two volumes were carefully reviewed and selected from numerous submissions. The papers were organized in topical sections named: Learning System, Graph Model, and Adversarial Learning; Time Series Analysis, Dynamic Prediction, and Uncertain Estimation; Model Optimization, Bayesian Learning, and Clustering; Game Theory, Stability Analysis, and Control Method; Signal Processing, Industrial Application, and Data Generation; Image Recognition, Scene Understanding, and Video Analysis; Bio-signal, Biomedical Engineering, and Hardware.

Theory and Applications of Satisfiability Testing-Enrico Giunchiglia 2004-02-24 This book is devoted to the 6th International Conference on Theory and applications of Satisfiability Testing (SAT 2003) held in Santa Margherita Ligure (Genoa,Italy), during May 5-8,2003. SAT 2003 followed the Workshops on S- is?ability held in Siena (1996), Paderborn (1998), and Renesse (2000), and the Workshop on Theory and Applications of Satis?ability Testing held in Boston (2001) and in Cincinnati (2002). As in the last edition, the SAT event hosted a SAT solvers competition, and, starting from the 2003 edition, also a Quanti?ed Boolean Formulas (QBFs) solvers comparative evaluation. There were 67 submissions of high quality, authored by researchers from all over the world. All the submissions were thoroughly evaluated, and as a result 42 were selected for oral presentations, and 16 for a poster presentation. The presentations covered the whole spectrum of research in propositional and QBF satis?ability testing, including proof systems, search techniques, probabilistic analysis of algorithms and their properties, problem encodings, industrial app- cations, specific tools, case studies and empirical results. Further, the program was enriched by three invited talks, given by Riccardo Zecchina (on "Survey Propagation: from Analytic Results on Random k-SAT to a Message-Passing algorithm for Satis?ability"), Toby Walsh (on "Challenges in SAT (and QBF)") and Wolfgang Kunz (on "ATPG Versus SAT: Comparing Two Paradigms for Boolean Reasoning"). SAT 2003 thus provided a unique forum for the presentation and discussion of research related to the theory and applications of pro- sitional and QBF satis?ability testing.

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 by homework exercises, lecture videos, and slides.

Intelligent Computer Mathematics-Serge Autexier 2010-06-30 The LNAI series reports state-of-the-art results in computer science research, development, and education, at a high level and in both printed and electronic form. Enjoying tight cooperation with the R&D community, with numerous individuals, as well as with prestigious organizations and societies, LNAI has grown into the most comprehensive computer science research forum avaiable. The scope of LNAI spans the whole range of artificial intelligence and intelligent Information processing including interdisciplinary topics in a variety of application fields. In parallel to the printed book, each new volume is published electronically in LNCS Online.

Extensional Paramodulation for Higher-Order Logic and Its Effective Implementation Leo-III-Alexander Steen 2018