Matthias Baaz

Alexander Leitsch

Methods of Cut-Elimination

Springer

Methods Of Cut Elimination Methods Of Cut Elimination

Miki Hermann,Andrei Voronkov

Methods Of Cut Elimination Methods Of Cut Elimination:

  Methods of Cut-Elimination Matthias Baaz,Alexander Leitsch,2011-01-07 This is the first book on cut elimination in first order predicate logic from an algorithmic point of view Instead of just proving the existence of cut free proofs it focuses on the algorithmic methods transforming proofs with arbitrary cuts to proofs with only atomic cuts atomic cut normal forms so called ACNFs The first part investigates traditional reductive methods from the point of view of proof rewriting Within this general framework generalizations of Gentzen s and Sch utte Tait s cut elimination methods are defined and shown terminating with ACNFs of the original proof Moreover a complexity theoretic comparison of Gentzen s and Tait s methods is given The core of the book centers around the cut elimination method CERES cut elimination by resolution developed by the authors CERES is based on the resolution calculus and radically differs from the reductive cut elimination methods The book shows that CERES asymptotically outperforms all reductive methods based on Gentzen s cut reduction rules It obtains this result by heavy use of subsumption theorems in clause logic Moreover several applications of CERES are given to interpolation complexity analysis of cut elimination generalization of proofs and to the analysis of real mathematical proofs Lastly the book demonstrates that CERES can be extended to nonclassical logics in particular to finitely valued logics and to G odel logic   First-Order Schemata and Inductive Proof Analysis Alexander Leitsch,David Michael Cerna,Anela Lolic,2026-01-01 Schemata are formal tools for describing inductive reasoning They opened a new area in the analysis of inductive proofs The book introduces schemata for first order terms first order formulas and first order inference systems Based on general first order schemata the cut elimination by resolution CERES method developed around the year 2000 is extended to schematic proofs This extension requires the development of schematic methods for resolution and unification which are defined in this book The added value of proof schemata compared to other inductive approaches consists in the extension of Herbrand s theorem to inductive proofs in the form of Herbrand systems which can be constructed effectively An application to an analysis of mathematical proof is given The work also contains and extends the newest results on schematic unification and corresponding algorithms Core topics covered first order schemata cut elimination by resolution point transition systems schematic resolution Herbrand systems inductive proof analysis This volume is the first comprehensive work on first order schemata and their applications As such it will be eminently suitable for researchers and PhD students in logic and computer science either working or with an interest in proof theory inductive reasoning and automated deduction Prerequisites are a firm knowledge of first order logic basic knowledge of automated deduction and a background in theoretical computer science Alexander Leitsch and Anela Lolic are affiliated with the Institute of Logic and Computation of the Technische Universit t Wien David M Cerna with the Czech Academy of Sciences Institute of Computer Science stav informatiky AV R v v i   Automated Reasoning with Analytic Tableaux and Related Methods Revantha Ramanayake,Josef Urban,2023-09-13 This open access book constitutes the proceedings of the proceedings of the 32nd International

Conference on Automated Reasoning with Analytic Tableaux and Related Methods TABLEAUX 2023 held in Prague Czech Republic during September 18 21 2023 The 20 full papers and 5 short papers included in this book together with 5 abstracts of invited talks were carefully reviewed and selected from 43 submissions They present research on all aspects of the mechanization of reasoning with tableaux and related methods The papers are organized in the following topical sections tableau calculi sequent calculi theorem proving non wellfounded proofs modal logics linear logic and MV algebras separation logic and first order logics   Typed Lambda Calculi and Applications Simona Ronchi Della Rocca,2007-07-11 This book constitutes the refereed proceedings of the 8th International Conference on Typed Lambda Calculi and Applications TLCA 2007 held in Paris France in June 2007 in conjunction with RTA 2007 the 18th International Conference on Rewriting Techniques and Applications as part of RDP 2007 the 4th International Conference on Rewriting Deduction and Programming The 25 revised full papers presented together with 2 invited talks were carefully reviewed and selected from 52 submissions The papers present original research results that are broadly relevant to the theory and applications of typed calculi and address a wide variety of topics such as proof theory semantics implementation types and programming   *Automated Reasoning with Analytic Tableaux and Related Methods* Uwe Egly,Christian G. Fernmüller,2003-08-02 This book constitutes the refereed proceedings of the International Conference on Automated Reasoning with Analytic Tableaux and Related Methods TABLEAUX 2002 held in Copenhagen Denmark in July August 2002 The 20 revised full papers and two system descriptions presented together with two invited contributions were carefully reviewed and selected for inclusion in the book All current issues surrounding the mechanization of logical reasoning with tableaux and similar methods are addressed Among the logic calculi investigated are linear logic temporal logic modal logics hybrid logic multi modal logics fuzzy logics Goedel logic Lukasiewicz logic intermediate logics quantified boolean logic and of course classical first order logic

Foundations of Software Science and Computational Structures Roberto Amadio,2008-04-03 This book contains the proceedings of the 11th International Conference on Foundations of Software Science and Computational Structures It covers theories and methods to support analysis synthesis transformation and verification of software systems   **Logic for Programming, Artificial Intelligence, and Reasoning** Miki Hermann,Andrei Voronkov,2006-10-18 This book constitutes the refereed proceedings of the 13th International Conference on Logic for Programming Artificial Intelligence and Reasoning LPAR 2006 held in Phnom Penh Cambodia in November 2006 The 38 revised full papers presented together with one invited talk were carefully reviewed and selected from 96 submissions   **Automated Deduction, CADE ...** ,1999

Logic Colloquium '01 Matthias Baaz,Sy-David Friedman,Jan Krajícek,2005-03-07 A compilation of papers presented at the 2001 European Summer Meeting of the Association for Symbolic Logic Logic Colloquium 01 includes surveys and research articles from some of the world s preeminent logicians Two long articles are based on tutorials given at the meeting and present accessible expositions of research in two active areas of logic geometric model theory and descriptive set theory

of group actions The remaining articles cover seperate research topics in many areas of mathematical logic including applications in Computer Science Proof Theory Set Theory Model Theory Computability Theory and aspects of Philosophy This collection will be of interest not only to specialists in mathematical logic but also to philosophical logicians historians of logic computer scientists formal linguists and mathematicians in the areas of algebra abstract analysis and topology A number of the articles are aimed at non specialists and serve as good introductions for graduate students   Bulletin of the American Mathematical Society ,1997   **Logic and Algorithmic** ,1982   **Bulletin (new Series) of the American Mathematical Society** ,1997   **Mechanizing Proof Theory** Gianluigi Bellin,Stanford University. Computer Science Department,1990 In Part II we study Herbrand s Theorem in Linear Logic and the No Counterexample Interpretation in a fragment of Peano Arithmetic section 10 As an application to Ramsey Theory we give a parametric form of the Ramsey Theorem that generalizes the Infinite the Finite and the Ramsey Paris Harrington Theorems for a fixed exponent sections 10 13   *Length of Proofs and Unification Theory* William Michael Farmer,1984   **Fundamenta Informaticae** Polskie Towarzystwo Matematyczne,2004   **Lambda Calculus and Constructive Logics II** Anil Nerode,Piergiorgio Odifreddi,1994   Computer Science Logic ,2003   **Theorem Proving with Analytic Tableaux and Related Methods** ,1996   **Mathematical Reviews** ,2004   Advanced Topics in Artificial Intelligence ,1998

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