

Matthias Baaz
Alexander Leitsch

Trends in Logic 34

Methods of Cut-Elimination

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Edmund M. Clarke, 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

Automated Deduction - CADE-18 Andrei Voronkov,2002-07-17 The First CADE in the Third Millennium This volume contains the papers presented at the Eighteenth International Conference on Automated Deduction CADE 18 held on July 27 30th 2002 at the University of Copenhagen as part of the Federated Logic Conference FLoC 2002 Despite a large number of deduction related conferences springing into existence at the end of the last millennium the CADE conferences continue to be the major forum for the presentation of new research in all aspects of automated deduction CADE 18 was sponsored by the Association for Automated Reasoning CADE Inc the Department of Computer Science at Chalmers University the Gesellschaft fur Informatik Safelogic AB and the University of Koblenz Landau There were 70 submissions including 60 regular papers and 10 system descriptions Each submission was reviewed by at least five program committee members and an electronic program committee meeting was held via the Internet The committee decided to accept 27 regular papers and 9 system descriptions One paper switched its category after refereeing thus the total number of system descriptions in this volume is 10 In addition to the refereed papers this volume contains an extended abstract of the CADE invited talk by Ian Horrocks the joint CADE CAV invited talk by Sharad Malik and the joint CADE TABLEAUX invited talk by Matthias Baaz One more invited lecture was given by Daniel Jackson

Logic and Scientific Methods Maria Luisa Dalla Chiara,Kees Doets,Daniele Mundici,Johan van Benthem,2013-06-29 This is the first of two volumes comprising the papers submitted for publication by the invited participants to the Tenth International Congress of Logic Methodology and Philosophy of Science held in Florence August 1995 The Congress was held under the auspices of the International Union of History and Philosophy of Science Division of Logic Methodology and Philosophy of Science The invited lectures published in the two volumes

demonstrate much of what goes on in the fields of the Congress and give the state of the art of current research The two volumes cover the traditional subdisciplines of mathematical logic and philosophical logic as well as their interfaces with computer science linguistics and philosophy Philosophy of science is broadly represented too including general issues of natural sciences social sciences and humanities The papers in Volume One are concerned with logic mathematical logic the philosophy of logic and mathematics and computer science

A Graphic Apology for Symmetry and Implicitness

Alessandra Carbone, Stephen Semmes, 2000 This book brings into focus the contrast between explicit and implicit algorithmic descriptions of objects and presents a new geometric language for the study of combinatorial and logical problems in complexity theory These themes are considered in a variety of settings sometimes crossing traditional boundaries Special emphasis is given to moderate complexity exponential or polynomial but objects with multi exponential complexity also fit in Among the items under consideration are graphs formal proofs languages automata groups circuits some connections with geometry of metric spaces and complexity classes P NP $co\ NP$

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 TABLEUX 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

Logic for Programming, Artificial Intelligence, and Reasoning Edmund M. Clarke, Andrei Voronkov, 2011-01-04 This book constitutes the thoroughly refereed post conference proceedings of the 16th International Conference on Logic for Programming Artificial Intelligence and Reasoning LPAR 2010 which took place in Dakar Senegal in April May 2010 The 27 revised full papers and 9 revised short papers presented together with 1 invited talk were carefully revised and selected from 47 submissions The papers address all current issues in automated reasoning computational logic programming languages and deal with logic programming logic based program manipulation formal methods and various kinds of AI logics Subjects covered range from theoretical aspects to various applications such as automata linear arithmetic verification knowledge representation proof theory quantified constraints as well as modal and temporal logics

Typed Lambda Calculi and Applications

Jean-Yves Girard, 1999-03-24 This book constitutes the refereed proceedings of the 4th International Conference on Typed Lambda Calculi and Applications TLCA 99 held in L Aquila Italy in April 1999 The 25 revised full papers presented were carefully reviewed and selected from a total of 50 submissions Also included are two invited demonstrations The volume reports research results on various aspects of typed lambda calculi Among the topics addressed are noncommutative logics type theory algebraic data

types logical calculi abstract data types and subtyping Saved from the Cellar Jan von Plato, 2017-03-31 Gerhard Gentzen is best known for his development of the proof systems of natural deduction and sequent calculus central in many areas of logic and computer science today Another noteworthy achievement is his resolution of the embarrassing situation created by Gödel's incompleteness results especially the second one about the unprovability of consistency of elementary arithmetic After these successes Gentzen dedicated the rest of his short life to the main problem of Hilbert's proof theory the question of the consistency of analysis He was arrested in the summer of 1945 with other professors of the German University of Prague and died soon afterward of starvation in a prison cell Attempts at locating his lost manuscripts failed at the time but several decades later two slim folders of shorthand notes were found In this volume Jan von Plato gives an overview of Gentzen's life and scientific achievements based on detailed archival and systematic studies and essential for placing the translations of shorthand manuscripts that follow in the right setting The materials in this book are singular in the way they show the birth and development of Gentzen's central ideas and results sometimes in a well developed form and other times as flashes into the anatomy of the workings of a unique mind **Automated Reasoning** Nicola Olivetti, Ashish Tiwari, 2016-06-13 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 TABLEUX 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 Automated Reasoning with Analytic Tableaux and Related Methods Uwe Eggle, Christian G. Fermüller, 2003-08-02 This book constitutes the refereed proceedings of the International Conference on Automated Reasoning with Analytic Tableaux and Related Methods TABLEUX 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 Gödel logic Łukasiewicz logic intermediate logics quantified boolean logic and of course classical first order logic **Logic for Programming, Artificial Intelligence, and Reasoning** Ilario Cervesato, Helmut Veith, Andrei Voronkov, 2008-11-16 This book constitutes the refereed proceedings of the 15th International Conference on Logic for Programming Artificial Intelligence and Reasoning LPAR 2008 which took place in

Doha Qatar during November 22-27 2008 The 45 revised full papers presented together with 3 invited talks were carefully revised and selected from 153 submissions The papers address all current issues in automated reasoning computational logic programming languages and their applications and are organized in topical sections on automata linear arithmetic verification knowledge representation proof theory quantified constraints as well as modal and temporal logics

Automated Reasoning with Analytic Tableaux and Related Methods Anupam Das, Sara Negri, 2021-08-31 This book constitutes the proceedings of the 30th International Conference on Automated Reasoning with Analytic Tableaux and Related Methods TABLEUX 2021 held in Birmingham UK in September 2021 The 23 full papers and 3 system descriptions included in the volume were carefully reviewed and selected from 46 submissions They present research on all aspects of the mechanization of tableaux based reasoning and related methods including theoretical foundations implementation techniques systems development and applications The papers are organized in the following topical sections tableau calculi sequent calculi theorem proving formalized proofs non wellfounded proofs automated theorem provers and intuitionistic modal logics

STACS 2002 Helmut Alt, Afonso Ferreira, 2003-08-03 This book constitutes the refereed proceedings of the 19th Annual Symposium on Theoretical Aspects of Computer Science STACS 2002 held in Antibes Juan les Pins France in March 2002 The 50 revised full papers presented together with three invited papers were carefully reviewed and selected from a total of 209 submissions The book offers topical sections on algorithms current challenges computational and structural complexity automata and formal languages and logic in computer science

Computer Science Logic Jerzy Marcinkowski, European Association for Computer Science Logic. Conference, 2004-09-02 This book constitutes the refereed proceedings of the 18th International Workshop on Computer Science Logic CSL 2004 held as the 13th Annual Conference of the EACSL in Karpacz Poland in September 2004 The 33 revised full papers presented together with 5 invited contributions were carefully reviewed and selected from 88 papers submitted All current aspects of logic in computer science are addressed ranging from mathematical logic and logical foundations to methodological issues and applications of logics in various computing contexts

Logic Colloquium '02 Zoé Chatzidakis, Peter Koepke, Wolfram Pohlers, 2017-03-31 Since their inception the Perspectives in Logic and Lecture Notes in Logic series have published seminal works by leading logicians Many of the original books in the series have been unavailable for years but they are now in print once again This volume the twenty seventh publication in the Lecture Notes in Logic series contains the proceedings of two conferences the European Summer Meeting of the Association for Symbolic Logic and the Colloquium Logicum held in Münster Germany in August 2002 This compilation of articles from some of the world's preeminent logicians spans all areas of mathematical logic including philosophical logic and computer science logic It contains expanded versions of a number of invited plenary talks and tutorials that will be of interest to graduate students and researchers in the field of mathematical logic

Automated Deduction - CADE-16 Harald Ganzinger, 2003-07-31 This book constitutes the refereed proceedings of the 16th International Conference on Automated

Deduction CADE 16 held in Trento Italy in July 1999 as part of FLoC 99 The 21 revised full papers presented were carefully reviewed and selected from a total of 83 submissions Also included are 15 system descriptions and two invited full papers The book addresses all current issues in automated deduction and theorem proving ranging from logical foundations to deduction systems design and evaluation

Computation and Logic in the Real World Barry S. Cooper, Benedikt Löwe, Andrea Sorbi, 2007-07-25 This book constitutes the refereed proceedings of the Third International Conference on Computability in Europe CiE 2007 held in Sienna Italy in June 2007 The 50 revised full papers presented together with 36 invited papers were carefully reviewed and selected from 167 submissions

Automated Reasoning with Analytic Tableaux and Related Methods Martin Giese, Arild Waaler, 2009-06-24 This book constitutes the refereed proceedings of the 18th International Conference on Automated Reasoning with Analytic Tableaux and Related Methods TABLEUX 2009 held in Oslo Norway in July 2009 The 21 revised research papers presented together with 1 system description and 2 invited talks were carefully reviewed and selected from 44 submissions The papers cover many topics in the wide range of applications of tableaux and related methods in areas such as hardware and software verifications semantic technologies and knowledge engineering

Proof Theory in Computer Science Reinhard Kahle, Peter Schroeder-Heister, Robert Stärk, 2003-06-30 Proof theory has long been established as a basic discipline of mathematical logic It has recently become increasingly relevant to computer science The deductive apparatus provided by proof theory has proved useful for metatheoretical purposes as well as for practical applications Thus it seemed to us most natural to bring researchers together to assess both the role proof theory already plays in computer science and the role it might play in the future The form of a Dagstuhl seminar is most suitable for purposes like this as Schlo Dagstuhl provides a very convenient and stimulating environment to scuss new ideas and developments To accompany the conference with a proceedings volume appeared to us equally appropriate Such a volume not only presents basic results of the subject and makes them available to a broader audience but also signals to the scientific community that Proof Theory in Computer Science PTCS is a major research branch within the wider field of logic in computer science

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

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