A Resolution Refutation Tree
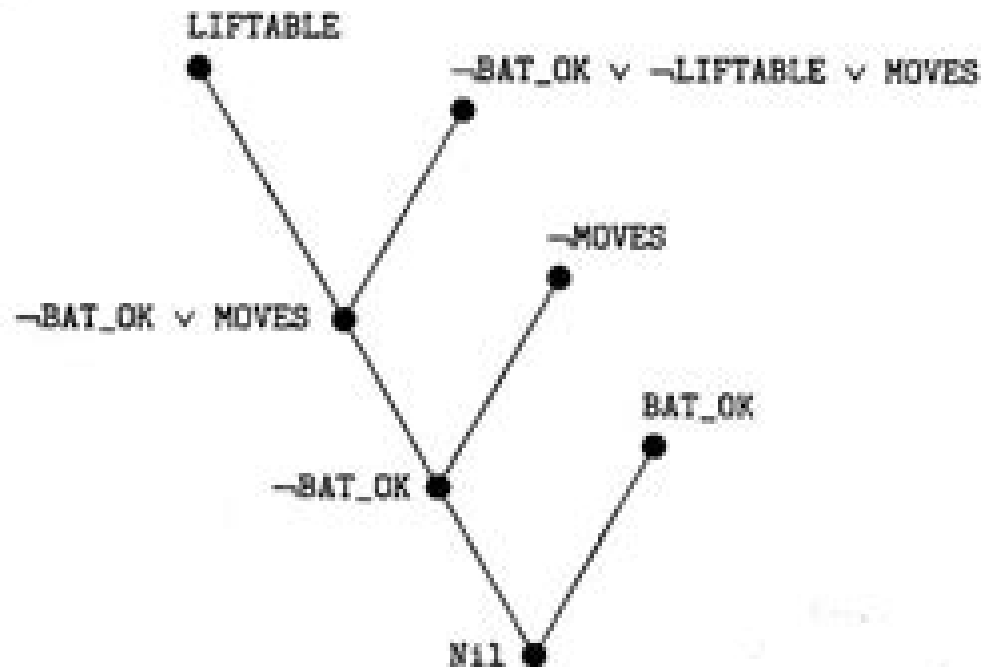

Figure 14.1

A Resolution Refutation Tree

Given:
1. BAT_OK
2. ¬MOVES
3. BAT_OK ∧ LIFTABLE ⊃ MOVES

Clause form of 3:
4. ¬BAT_OK ∨ ¬ LIFTABLE ∨ MOVES

Negation of goal:
5. LIFTABLE

Perform resolution:
6.   BAT_OK ∨ MOVES
     (from resolving 5 with 4)
7.   BAT_OK (from 6, 2)
8. Nil (from 7, 1)

[Resolution Calculus](#)

Rolf Socher-Ambrosius,Patricia Johann

Resolution Calculus:

The Resolution Calculus Alexander Leitsch,2012-12-06 The History of the Book In August 1992 the author had the opportunity to give a course on resolution theorem proving at the Summer School for Logic Language and Information in Essex The challenge of this course a total of five two hour lectures con sisted in the selection of the topics to be presented Clearly the first selection has already been made by calling the course resolution theorem proving instead of automated deduction In the latter discipline a remarkable body of knowledge has been created during the last 35 years which hardly can be presented exhaustively deeply and uniformly at the same time In this situ ation one has to make a choice between a survey and a detailed presentation with a more limited scope The author decided for the second alternative but does not suggest that the other is less valuable Today resolution is only one among several calculi in computational logic and automated reasoning How ever this does not imply that resolution is no longer up to date or its potential exhausted Indeed the loss of the monopoly is compensated by new appli cations and new points of view It was the purpose of the course mentioned above to present such new developments of resolution theory Thus besides the traditional topics of completeness of refinements and redundancy aspects of termination resolution decision procedures and of complexity are treated on an equal basis

Interactive Theorem Proving Jasmin Christian Blanchette,Stephan Merz,2016-08-08 This book constitutes the refereed proceedings of the 7th International Conference on Interactive Theorem Proving ITP 2016 held in Nancy France in August 2016 The 27 full papers and 5 short papers presented were carefully reviewed and selected from 55 submissions The topics range from theoretical foundations to implementation aspects and applications in program verification security and formalization of mathematical theories   **Web Reasoning and Rule Systems** Axel Polleres,Terrance Swift,2009-10-14 ThepromiseoftheSemanticWeb atits most expansive is to allow knowledge to be freely accessed and exchanged by software It is now recognized that if the SemanticWebis to containdeepknowledge theneedfornewrepresentationand reasoning techniques is going to be critical These techniques need to nd the righttrade o betweenexpressiveness scalabilityandrobustnesstodealwiththe inherently incomplete contradictory and uncertain nature of knowledge on the Web The International Conference on Web Reasoning and Rule Systems RR was founded to address these needs and has grown into a major international forum in this area The third RR conference was held during October 25 26 2009 in Chantilly Virginia co located with the International Semantic Web Conference ISWC 2009 This year 41 papers were submitted from authors in 21 countries The P gram Committee performed outstandingly to ensure that each paper submitted to RR 2009 was thoroughly reviewed by at least three referees in a short riod of time The resulting conference presented papers of high quality on many of the key issues for reasoning on the Semantic Web RR 2009 was fortunate to have two distinguished invited speakers Robert Kowalski in his talk tegrating Logic Programming and Production Systems with Abductive Logic Programming Agents addressed some of the fundamental considerations hind reasoning about evolving systems Benjamin

Grossof s talk SILK Higher Level Rules with Defaults and Semantic Scalability described the design of a major next generation rule system The invited tutorial Uncertainty Reas ing for the Semantic Web by Thomas Lukasiewicz provided perspectives on a central issue in this area **A Concise Introduction to Mathematical Logic** Wolfgang Rautenberg,2006-09-28 While there are already several well known textbooks on mathematical logic this book is unique in treating the material in a concise and streamlined fashion This allows many important topics to be covered in a one semester course Although the book is intended for use as a graduate text the first three chapters can be understood by undergraduates interested in mathematical logic The remaining chapters contain material on logic programming for computer scientists model theory recursion theory Godel s Incompleteness Theorems and applications of mathematical logic Philosophical and foundational problems of mathematics are discussed throughout the text Deduction Systems Rolf Socher-Ambrosius,Patricia Johann,2012-12-06 The idea of mechanizing deductive reasoning can be traced all the way back to Leibniz who proposed the development of a rational calculus for this purpose But it was not until the appearance of Frege s 1879 Begriffsschrift not only the direct ancestor of contemporary systems of mathematical logic but also the ancestor of all formal languages including computer programming languages Dav83 that the fundamental concepts of modern mathematical logic were developed Whitehead and Russell showed in their Principia Mathematica that the entirety of classical mathematics can be developed within the framework of a formal calculus and in 1930 Skolem Herbrand and Godel demonstrated that the first order predicate calculus which is such a calculus is complete i e that every valid formula in the language of the predicate calculus is derivable from its axioms Skolem Herbrand and GOdel further proved that in order to mechanize reasoning within the predicate calculus it suffices to Herbrand consider only interpretations of formulae over their associated universes We will see that the upshot of this discovery is that the validity of a formula in the predicate calculus can be deduced from the structure of its constituents so that a machine might perform the logical inferences required to determine its validity With the advent of computers in the 1950s there developed an interest in automatic theorem proving Theory and Applications of Satisfiability Testing Enrico Giunchiglia,2004-01-26 This book constitutes the thoroughly refereed post proceedings of the 6th International Conference on Theory and Applications of Satisfiability Testing SAT 2003 held in Santa Margherita Ligure Italy in May 2003 The 33 revised full papers presented together with 5 articles reporting results of the related SAT competition and QBF evaluation were carefully selected during two rounds of reviewing and improvement from 67 submissions The whole spectrum of research in propositional and quantified Boolean formula satisfiability testing is covered including proof systems search techniques probabilistic analysis of algorithms and their properties problem encodings industrial applications specific tools case studies and empirical results **Reductive Logic and Proof-search** David J. Pym,Eike Ritter,2004-04-29 This book is a specialized monograph on the development of the mathematical and computational metatheory of reductive logic and proof search areas of logic that are becoming important in computer science A systematic

foundational text on these emerging topics it includes proof theoretic semantic model theoretic and algorithmic aspects The scope ranges from the conceptual background to reductive logic through its mathematical metatheory to its modern applications in the computational sciences Suitable for researchers and graduate students in mathematical computational and philosophical logic and in theoretical computer science and artificial intelligence this is the latest in the prestigous world renowned Oxford Logic Guides which contains Michael Dummet s Elements of intuitionism 2nd Edition Dov M Gabbay Mark A Reynolds and Marcelo Finger s Temporal Logic Mathematical Foundations and Computational Aspects J M Dunn and G Hardegree s Algebraic Methods in Philosophical Logic H Rott s Change Choice and Inference A Study of Belief Revision and Nonmonotonic Reasoning and P T Johnstone s Sketches of an Elephant A Topos Theory Compendium Volumes 1 and 2

Theory Reasoning in Connection Calculi Peter Baumgartner,2005-07-11 The ability to draw inferences is a central operation in any artificial intelligence system Automated reasoning is therefore among the traditional disciplines in AI Theory reasoning is about techniques for combining automated reasoning systems with specialized and efficient modules for handling domain knowledge called background reasoners Connection methods have proved to be a good choice for implementing high speed automated reasoning systems They are the starting point in this monograph in which several theory reasoning versions are defined and related to each other A major contribution of the book is a new technique of linear completion allowing for the automatic construction of background reasoners from a wide range of axiomatically given theories The emphasis is on theoretical investigations but implementation techniques based on Prolog are also covered

Propositional Logic Hans Kleine Büning,Theodor Lettmann,1999-08-28 This account of propositional logic concentrates on the algorithmic translation of important methods especially of decision procedures for subclasses of propositional logic Important classical results and a series of new results taken from the fields of normal forms satisfiability and deduction methods are arranged in a uniform and complete theoretic framework The algorithms presented can be applied to VLSI design deductive databases and other areas After introducing the subject the authors discuss satisfiability problems and satisfiability algorithms with complexity considerations the resolution calculus with different refinements and special features and procedures for Horn formulas Then a selection of further calculi and some results on the complexity of proof procedures are presented The last chapter is devoted to quantified boolean formulas The algorithmic approach will make this book attractive to computer scientists and graduate students in areas such as automated reasoning logic programming complexity theory and pure and applied logic   Logic Programming and Automated Reasoning Andrei Voronkov,1992-07 This volume contains the proceedings of LPAR 92 the international conference on logic programming and automated reasoning held in St Petersburg in July 1992 The aim of the conference was to bring together researchers from the Russian and the international logic programming and theorem proving communities The topics of interest covered by papers inthe volume include automated theorem proving non monotonic reasoning applications of mathematical logic to computer science

deductive databases implementation of declarative concepts and programming in non classical logics LPAR 92 is the successor of the First and Second Russian Conferences on Logic Programming held in 1990 and 1991 respectively the proceedings of which were publishedin LNAI Vol 592 **Logical Foundations of Computer Science** Sergei Artemov,Anil Nerode,2009-02-11 This book constitutes the refereed proceedings of the International Symposium on Logical Foundations of Computer Science LFCS 2009 held in Deerfield Beach Florida USA in January 2008 The volume presents 31 revised refereed papers carefully selected by the program committee All current aspects of logic in computer science are addressed including constructive mathematics and type theory logical foundations of programming logical aspects of computational complexity logic programming and constraints automated deduction and interactive theorem proving logical methods in protocol and program verification and in program specification and extraction domain theory logics logical foundations of database theory equational logic and term rewriting lambda and combinatory calculi categorical logic and topological semantics linear logic epistemic and temporal logics intelligent and multiple agent system logics logics of proof and justification nonmonotonic reasoning logic in game theory and social software logic of hybrid systems distributed system logics system design logics as well as other logics in computer science *Programming Languages and Systems* Jan Vitek,2015-03-31 This book constitutes the proceedings of the 24th European Symposium on Programming ESOP 2015 which took place in London UK in April 2015 held as Part of the European Joint Conferences on Theory and Practice of Software ETAPS 2015 The 33 papers presented in this volume were carefully reviewed and selected from 113 submissions **Automated Reasoning with Analytic Tableaux and Related Methods** Hans De Nivelle,2015-09-10 This book constitutes the refereed proceedings of the 24th International Conference on Automated Reasoning with Analytic Tableaux and Related Methods TABLEAUX 2015 held in Wroclaw Poland in September 2015 The 19 full papers and 2 papers presented in this volume were carefully reviewed and selected from 34 submissions They are organized in topical sections named tableaux calculi sequent calculus resolution other calculi and applications *Computational Logic and Proof Theory* Georg Gottlob,Alexander Leitsch,Daniele Mundici,1997-08-13 This book constitutes the refereed proceedings of the 5th Kurt G del Colloquium on Computational Logic and Proof Theory KGC 97 held in Vienna Austria in August 1997 The volume presents 20 revised full papers selected from 38 submitted papers Also included are seven invited contributions by leading experts in the area The book documents interdisciplinary work done in the area of computer science and mathematical logics by combining research on provability analysis of proofs proof search and complexity **Dynamic Tractable Reasoning** Holger Andreas,2020-03-27 This book aims to lay bare the logical foundations of tractable reasoning It draws on Marvin Minsky s seminal work on frames which has been highly influential in computer science and to a lesser extent in cognitive science Only very few people have explored ideas about frames in logic which is why the investigation in this book breaks new ground The apparent intractability of dynamic inferential reasoning is an unsolved problem in both cognitive science and logic oriented artificial intelligence By

means of a logical investigation of frames and frame concepts Andreas devises a novel logic of tractable reasoning called frame logic Moreover he devises a novel belief revision scheme which is tractable for frame logic These tractability results shed new light on our logical and cognitive means to carry out dynamic inferential reasoning Modularity remains central for tractability and so the author sets forth a logical variant of the massive modularity hypothesis in cognitive science This book conducts a sustained and detailed examination of the structure of tractable and intelligible reasoning in cognitive science and artificial intelligence Working from the perspective of formal epistemology and cognitive science Andreas uses structuralist notions from Bourbaki and Sneed to provide new foundational analyses of frames object oriented programming belief revision and truth maintenance Andreas then builds on these analyses to construct a novel logic of tractable reasoning he calls frame logic together with a novel belief revision scheme that is tractable for frame logic Put together these logical analyses and tractability results provide new understandings of dynamic and inferential reasoning Jon Doyle North Carolina State University **Computer Science -- Theory and Applications** Dima Grigoriev,2006-05-15 The International Symposium on Computer Science in Russia CSR 2006 was held on June 8 12 2006 in St Petersburg Russia hosted by the Steklov Institute of Mathematics at St Petersburg **Introduction to Machine Learning** Shan-e-Fatima,2023-09-25 With the use of machine learning ML which is a form of artificial intelligence AI software programmers may predict outcomes more accurately without having to be explicitly instructed to do so In order to forecast new output values machine learning algorithms use historical data as input Machine learning is frequently used in recommendation engines Business process automation BPA predictive maintenance spam filtering malware threat detection and fraud detection are a few additional common uses Machine learning is significant because it aids in the development of new goods and provides businesses with a picture of trends in consumer behavior and operational business patterns For many businesses machine learning has emerged as a key competitive differentiation The fundamental methods of machine learning are covered in the current book

Handbook of Automated Reasoning Alan J.A. Robinson,Andrei Voronkov,2001-06-21 Handbook of Automated Reasoning Automated Theorem Proving in Software Engineering Johann M. Schumann,2001-06-20 Growing demands for the quality safety and security of software can only be satisfied by the rigorous application of formal methods during software design This book methodically investigates the potential of first order logic automated theorem provers for applications in software engineering Illustrated by complete case studies on protocol verification verification of security protocols and logic based software reuse this book provides techniques for assessing the prover s capabilities and for selecting and developing an appropriate interface architecture **Diagrammatic Representation and Inference** Philip T. Cox,Beryl Plimmer,Peter Rodgers,2012-06-19 This book constitutes the refereed proceedings of the 7th International Conference on Theory and Application of Diagrams Diagrams 2012 held in Canaterbury UK in July 2012 The 16 long papers 6 short papers and 21 poster abstracts presented were carefully reviewed and selected from 83 submissions The papers are organized in keynotes

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