

A Resolution Refutation Tree

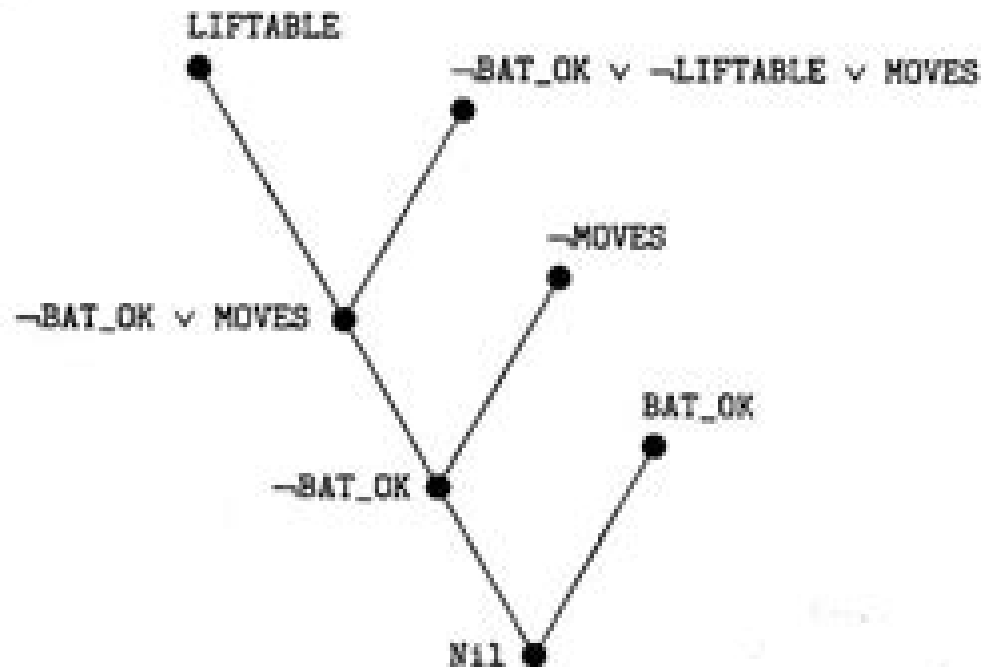


Figure 14.1

A Resolution Refutation Tree

Given:

1. **BAT_OK**
2. **$\neg \text{MOVES}$**
3. **$\text{BAT_OK} \wedge \text{LIFTABLE} \supset \text{MOVES}$**

Clause form of 3:

4. **$\neg \text{BAT_OK} \vee \neg \text{LIFTABLE} \vee \text{MOVES}$**

Negation of goal:

5. **LIFTABLE**

Perform resolution:

6. **$\text{BAT_OK} \vee \text{MOVES}$**
(from resolving 5 with 4)
7. **BAT_OK** (from 6, 2)
8. **Nil** (from 7, 1)

Resolution Calculus

Peter Baumgartner



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 consisted 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 situation 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 However 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 applications 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

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

Web Reasoning and Rule Systems Axel Polleres, Terrance Swift, 2009-10-15 This book constitutes the refereed proceedings of the Third International Conference on Web Reasoning and Rule Systems RR 2009 held in Chantilly VA USA in October 2009 The 15 revised full papers presented together with 3 invited papers were carefully reviewed and selected from 41 submissions The papers address all current topics in Web reasoning and rule systems such as proof deduction procedures scalability uncertainty knowledge amalgamation and querying and rules for decision support and production systems

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

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

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 in the 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 published in LNAI Vol 592

Programming Logics Andrei Voronkov, Christoph

Weidenbach, 2013-04-05 This Festschrift volume published in memory of Harald Ganzinger contains 17 papers from colleagues all over the world and covers all the fields to which Harald Ganzinger dedicated his work during his academic career The volume begins with a complete account of Harald Ganzinger's work and then turns its focus to the research of his former colleagues students and friends who pay tribute to him through their writing Their individual papers span a broad range of topics including programming language semantics analysis and verification first order and higher order theorem proving unification theory non classical logics reasoning modulo theories and applications of automated reasoning in biology

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

Collegium Logicum Kurt-Gödel-Gesellschaft, 2012-12-06 Contents P Vihani The Last Month of Gerhard Gentzen in Prague F A Rodríguez Consuegra Some Issues on Gödel's Unpublished Philosophical Manuscripts D D Spalt Vollständigkeit als Ziel historischer Explikation Eine Fallstudie E Engeler Existenz und Negation in Mathematik und Logik W J Gutjahr Paradoxien der Prognose und der Evaluation Eine fixpunktheoretische Analyse R Hahnle Automated Deduction and Integer Programming M Baaz A Leitsch Methods of Functional Extension

A Concise Introduction to Mathematical Logic Wolfgang Rautenberg, 2010-07-01 Mathematical logic developed into a broad discipline with many applications in mathematics informatics linguistics and philosophy This text introduces the fundamentals of this field and this new edition has been thoroughly expanded and revised

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 TABLEUX 2015 held in Wrocław 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

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

tutorial workshops graduate student symposium and topical sections on psychological and cognitive issues diagram layout diagrams and data analysis Venn and Euler diagrams reasoning with diagrams investigating aesthetics applications of diagrams

Computing in Horn Clause Theories Peter Padawitz, 2012-12-06

At least four research fields determine the theoretical background of specification and deduction in computer science recursion theory automated theorem proving abstract data types and term rewriting systems As these areas approach each other more and more the strong distinctions between functional and relational views deductive and denotational approaches as well as between specification and programming are relieved in favour of their integration The book will not expose the lines of this development conversely it starts out from the nucleus of Horn clause logic and brings forth both known and unknown results most of which affect more than one of the fields mentioned above Chapter 1 touches on historical issues of specification and prototyping and delimits the topics handled in this book from others which are at the core of related work Chapter 2 provides the fundamental notions and notations needed for the presentation and interpretation of many sorted Horn clause theories with equality Chapter 3 supplies a number of sample Horn clause specifications ranging from arithmetic through string manipulation to higher data structures and interpreters of programming languages Some of these examples serve as a reference to illustrate definitions and results others may throw a light on the strong link between specifications and programs which are executed by applying deduction rules Thus we have included examples of how to use program transformation methods in specification design

Resolution Calculus Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Resolution Calculus**," compiled by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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Resolution Calculus Introduction

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