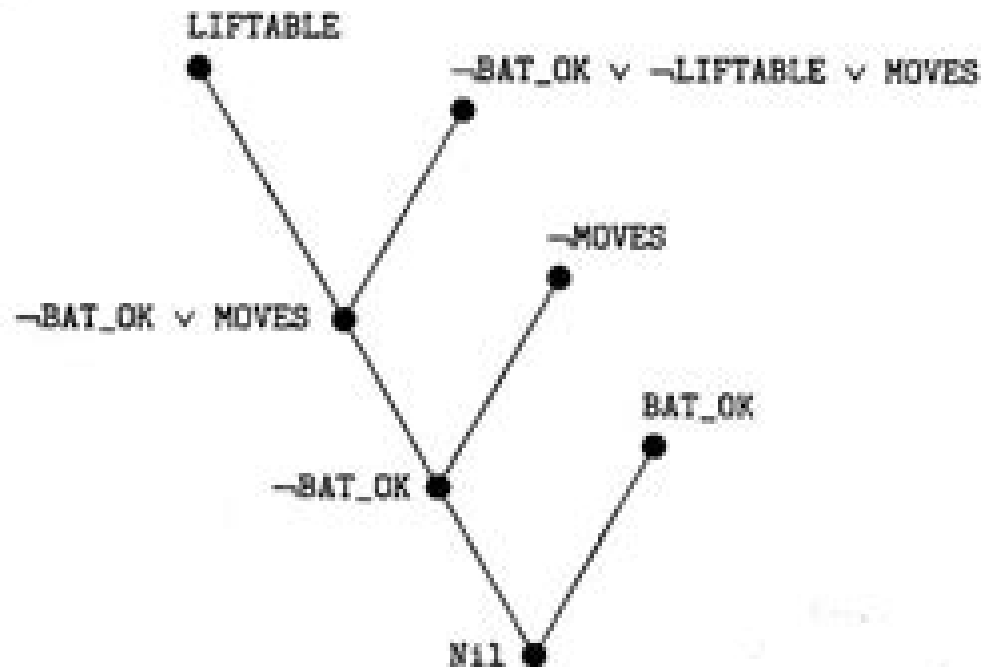


# A Resolution Refutation Tree



**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

**Wolfgang Rautenberg**



## **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 **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 **Web Reasoning and Rule Systems** Axel Polleres, Terrance Swift, 2009-10-14

The promise of the Semantic Web at its most expansive is to allow knowledge to be freely accessed and exchanged by software It is now recognized that if the Semantic Web is to contain deep knowledge then the need for new representation and reasoning techniques is going to be critical These techniques need to find the right trade-off between expressiveness scalability and robustness to deal with the 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 Program Committee performed outstandingly to ensure that each paper submitted to RR 2009 was thoroughly reviewed by at least three referees in a short period 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 integrating Logic Programming and Production Systems with Abductive Logic Programming Agents addressed some of the fundamental considerations hind reasoning about evolving systems Benjamin Grosz'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 Reasoning for the Semantic Web by Thomas Lukasiewicz provided perspectives on a central issue in this area

**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 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

*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 prestigious world renowned Oxford Logic Guides which contains Michael Dummett'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

**Intelligent Computer Mathematics** Serge Autexier, Jacques Calmet, David Delahaye, P.D.F. Ion, Laurence Rideau, Renaud Rioboo, Alan Sexton, 2010-06-29 This book constitutes the joint refereed proceedings of the 10th International Conference on Artificial Intelligence and Symbolic Computation AISC 2010 the 17th

Symposium on the Integration of Symbolic Computation and Mechanized Reasoning Calculemus 2010 and the 9th International Conference on Mathematical Knowledge Management MKM 2010 All submissions passed through a rigorous review process From the 25 papers submitted to AISC 2010 9 were selected for presentation at the conference and inclusion in the proceedings volume A total of 14 papers were submitted to Calculemus of which 7 were accepted MKM 2010 received 27 submissions of which 16 were accepted for presentation and publication The events focused on the use of AI techniques within symbolic computation and the application of symbolic computation to AI problem solving the combination of computer algebra systems and automated deduction systems and mathematical knowledge management respectively

**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 for Programming, Artificial Intelligence, and Reasoning* Franz

Baader, Andrei Voronkov, 2005-02-09 This book constitutes the refereed proceedings of the 11th International Conference on Logic for Programming Artificial Intelligence and Reasoning LPAR 2004 held in Montevideo Uruguay in March 2005 The 33 revised full papers presented together with abstracts of 4 invited papers were carefully reviewed and selected from 77 submissions The papers address all current issues in logic programming automated reasoning and AI logics in particular description logics fuzzy logic linear logic multi modal logic proof theory formal verification protocol verification constraint logic programming programming calculi theorem proving etc *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 **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

**GWAI-87 11th German Workshop on Artificial Intelligence** Katharina Morik,2012-12-06 *Intelligent Computer Mathematics* Catherine Dubois,Manfred Kerber,2023-08-30 This book constitutes the refereed proceedings of the 16th International Conference on Intelligent Computer Mathematics CICM 2023 held in Cambridge UK in September 2023 The 14 full papers 2 project survey papers 6 short papers and 1 tool paper presented were carefully reviewed and selected from a total of 37 submissions The papers focus on advances in formalization automatic theorem proving and learning search and classification teaching and geometric reasoning and logic and systems among other topics 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

**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

**Bridging the Gap: Philosophy, Mathematics, and Physics** Giovanna Corsi,Maria Luisa Dalla Chiara,G. C. Ghirardi,1993 Foundational

questions in logic mathematics computer science and physics are constant sources of epistemological debate in contemporary philosophy To what extent is the transfinite part of mathematics completely trustworthy Why is there a general malaise concerning the logical approach to the foundations of mathematics What is the role of symmetry in physics Is it possible to build a coherent worldview compatible with a macroobjectivistic position and based on the quantum picture of the world What account can be given of opinion change in the light of new evidence These are some of the questions discussed in this volume which collects 14 lectures on the foundation of science given at the School of Philosophy of Science Trieste October 1989 The volume will be of particular interest to any student or scholar engaged in interdisciplinary research into the foundations of science in the context of contemporary debates

**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

**COLOG-88** Per Martin-Löf, Grigori Mints, 1990-02-21 This volume contains several invited papers as well as a selection of the other contributions The conference was the first meeting of the Soviet logicians interested in computer science with their Western counterparts The papers report new results and techniques in applications of deductive systems deductive program synthesis and analysis computer experiments in logic related fields theorem proving and logic programming It provides access to intensive work on computer logic both in the USSR and in Western countries

**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 Mathematics For Computation (M4c) Marco Benini,Olaf Beyersdorff,Michael Rathjen,Peter Michael Schuster,2023-03-21 The overall topic of the volume Mathematics for Computation M4C is mathematics taking crucially into account the aspect of computation investigating the interaction of mathematics with computation bridging the gap between mathematics and computation wherever desirable and possible and otherwise explaining why not Recently abstract mathematics has proved to have more computational content than ever expected Indeed the axiomatic method originally intended to do away with concrete computations seems to suit surprisingly well the programs from proofs paradigm with abstraction helping not only clarity but also efficiency Unlike computational mathematics which rather focusses on objects of computational nature such as algorithms the scope of M4C generally encompasses all the mathematics including abstract concepts such as functions The purpose of M4C actually is a strongly theory based and therefore is a more reliable and sustainable approach to actual computation up to the systematic development of verified software While M4C is situated within mathematical logic and the related area of theoretical computer science in principle it involves all branches of mathematics especially those which prompt computational considerations In traditional terms the topics of M4C include proof theory constructive mathematics complexity theory reverse mathematics type theory category theory and domain theory The aim of this volume is to provide a point of reference by presenting up to date contributions by some of the most active scholars in each field A variety of approaches and techniques are represented to give as wide a view as possible and promote cross fertilization between different styles and traditions



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