



# Rule-Based Deduction Systems

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## Rule-based deduction systems

The way in which a piece of knowledge is expressed by a human expert carries important information, example: if the person has fever and feels tummy-pain then she may have an infection. In logic it can be expressed as follows:

$$\forall x. (\text{has\_fever}(x) \ \& \ \text{tummy\_pain}(x) \ \rightarrow \ \text{has\_an\_infection}(x))$$

If we convert this formula to clausal form we lose the content as then we may have equivalent formulas like:

$$(i) \ \text{has\_fever}(x) \ \& \ \sim\text{has\_an\_infection}(x) \ \rightarrow \ \sim\text{tummy\_pain}(x)$$

$$(ii) \ \sim\text{has\_an\_infection}(x) \ \& \ \text{tummy\_pain}(x) \ \rightarrow \ \sim\text{has\_fever}(x)$$

We notice that (i) and (ii) despite being logically equivalent to the original sentence have lost the main information contained in its formulation.

# Deduction Systems

**K. Dosen**



## **Deduction Systems:**

**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

**Parsing Schemata** Klaas Sikkel, 2012-12-06 Parsing the syntactic analysis of language has been studied extensively in computer science and computational linguistics Computer programs and natural languages share an underlying theory of formal languages and require efficient parsing algorithms This introduction reviews the theory of parsing from a novel perspective It provides a formalism to capture the essential traits of a parser that abstracts from the fine detail and allows a uniform description and comparison of a variety of parsers including Earley Tomita LR Left Corner and Head Corner parsers The emphasis is on context free phrase structure grammar and how these parsers can be extended to unification formalisms The book combines mathematical rigor with high readability and is suitable as a graduate course text

**R-Calculus, IV: Propositional Logic** Wei Li, Yuefei Sui, 2023-03-27 This fourth volume of the book series combines propositional logic and R calculus for a new point of view to consider belief revision It gives the R calculi for propositional logic description logics propositional modal logic logic programming propositional logic semantic networks and three valued logic etc Applications of R calculus in logic of supersequents are also given This book offers a rich blend of theory and practice It is suitable for students researchers and practitioners in the field of logic

**Cut Elimination in Categories** K. Dosen, 2013-04-18 Proof theory and category theory were first drawn together by Lambek some 30 years ago but until now the most fundamental notions of category theory as opposed to their embodiments in logic have not been explained systematically in terms of proof theory Here it is shown that these notions in particular the notion of adjunction can be formulated in such a way as to be characterised by composition elimination Among the benefits of these composition free formulations are syntactical and simple model theoretical geometrical decision procedures for the commuting of diagrams of

arrows Composition elimination in the form of Gentzen's cut elimination takes in categories and techniques inspired by Gentzen are shown to work even better in a purely categorical context than in logic An acquaintance with the basic ideas of general proof theory is relied on only for the sake of motivation however and the treatment of matters related to categories is also in general self contained Besides familiar topics presented in a novel simple way the monograph also contains new results It can be used as an introductory text in categorical proof theory

**Knowledge-Based Intelligent Information and Engineering Systems** Ignac Lovrek, 2008-09-20 The three volume set LNAI 5177 LNAI 5178 and LNAI 5179 constitutes the refereed proceedings of the 12th International Conference on Knowledge Based Intelligent Information and Engineering Systems KES 2008 held in Zagreb Croatia in September 2008 The 316 revised papers presented were carefully reviewed and selected The papers present a wealth of original research results from the field of intelligent information processing in the broadest sense topics covered in the second volume are artificial intelligence driven engineering design optimization biomedical informatics intelligent information management from nanomedicine to public health communicative intelligence computational intelligence for image processing and pattern recognition computational intelligence in human cancer research computational intelligence techniques for Web personalization computational intelligent techniques for bioprocess modelling monitoring and control intelligent computing for Grid intelligent security techniques intelligent utilization of soft computing techniques reasoning based intelligent systems relevant reasoning for discovery and prediction spatio temporal database concept support for organizing virtual earth advanced knowledge based systems chance discovery innovation oriented knowledge management platform knowledge based creativity support systems knowledge based interface systems knowledge based multi criteria decision support and knowledge based systems for e business

*The Logical Definition of Deduction Systems* D. L. Poole, University of Waterloo. Dept. of Computer Science, 1984

Proof Theory Katalin Bimbo, 2014-08-20 Although sequent calculi constitute an important category of proof systems they are not as well known as axiomatic and natural deduction systems Addressing this deficiency Proof Theory Sequent Calculi and Related Formalisms presents a comprehensive treatment of sequent calculi including a wide range of variations It focuses on sequent calculi

**Tax Law Design and Drafting, Volume 2** Mr. Victor Thuronyi, 1998-06-25 A comprehensive guide to income tax legislation this book is the second of two volumes dealing with tax legislation from a comparative law perspective Distilled from the IMF Legal Department's extensive experience the book covers a wide range of issues in both domestic and international taxation It also includes the most extensive bibliography currently available of the national tax laws of IMF member countries

**Deduction Systems in Artificial Intelligence** Karl Hans Bläsius, Hans-Jürgen Bürckert, 1989

Hybrid Logic and its Proof-Theory Torben Braüner, 2010-11-17 This is the first book length treatment of hybrid logic and its proof theory Hybrid logic is an extension of ordinary modal logic which allows explicit reference to individual points in a model where the points represent times possible worlds states in a computer or something else This is useful for many

applications for example when reasoning about time one often wants to formulate a series of statements about what happens at specific times There is little consensus about proof theory for ordinary modal logic Many modal logical proof systems lack important properties and the relationships between proof systems for different modal logics are often unclear In the present book we demonstrate that hybrid logical proof theory remedies these deficiencies by giving a spectrum of well behaved proof systems natural deduction Gentzen tableau and axiom systems for a spectrum of different hybrid logics propositional first order intensional first order and intuitionistic

**Handbook of Modal Logic** Patrick Blackburn, Johan F.A.K. van Benthem, Frank Wolter, 2006-11-03 The Handbook of Modal Logic contains 20 articles which collectively introduce contemporary modal logic survey current research and indicate the way in which the field is developing The articles survey the field from a wide variety of perspectives the underlying theory is explored in depth modern computational approaches are treated and six major applications areas of modal logic in Mathematics Computer Science Artificial Intelligence Linguistics Game Theory and Philosophy are surveyed The book contains both well written expository articles suitable for beginners approaching the subject for the first time and advanced articles which will help those already familiar with the field to deepen their expertise Please visit [http://people.uleth.ca/woods/RedSeriesPromo\\_WP\\_PubSLPR.html](http://people.uleth.ca/woods/RedSeriesPromo_WP_PubSLPR.html) Compact modal logic reference Computational approaches fully discussed Contemporary applications of modal logic covered in depth

Teachers' Pension Systems in the United States Paul Studenski, 1920

**Natural Deduction, Hybrid Systems and Modal Logics** Andrzej Indrzejczak, 2010-07-03 A good title should be informative enough to illuminate a potential reader on the content of a book We hope that the present title gives at least some hints of what this book is about The notion of natural deduction or modal logic are rather well known but the notion of hybrid system certainly needs some explanation In short this study may be seen as a kind of search for good deductive systems We think of systems good in practice which may be applied with ease not only by well trained logicians but also for example by philosophers who need handy deductive tools accompanying their analyses In particular we are interested in providing systems that may be widely applied in teaching logic Nowadays one may observe that several courses in critical thinking tend to eliminate courses in practical logic On the other hand logic is often taught as a strictly mathematical discipline in very demanding courses It is important to fill the gap between these extrema and the crucial ingredient of any course which is supposed to teach how to use logic is certainly a suitable deductive system Since we address this work to a wide audience interested in applications of logic we were trying to make it self contained and accessible to a reader with no hard training in logic The assumed reader should have some background in logic an elementary course covering classical propositional and first order logic with basics of set theory is enough but not necessarily in modal logic

*The Monist* Paul Carus, 1929 Vols 2 and 5 include appendices

**Methodos**, 1950

*Proceedings of the Insurance Accounting and Systems Association* Insurance Accounting and Systems Association, 1986

*Multi-attribute Decision Making Via O.R.-based Expert Systems* Ralph L. Keeney, 1988

**Employment Management,**

**Wage Systems and Rate Setting** ,1921  
Penal and Penitentiary Commission,1900  
Wolfgang Bibel,Peter H. Schmitt,1998

**Prison Systems of the United States** Samuel June Barrows,International  
**Automated Deduction: Systems and implementation techniques**

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