

Rule-Based Deduction Systems

Rules

R1: $\text{manager}(x,y) \rightarrow \text{works_in}(x,y)$

R2: $\text{works_in}(x,y) \ \& \ \text{manager}(x,z) \rightarrow \text{boss_of}(y,z)$

R3: $\text{works_in}(x,y) \ \& \ \text{works_in}(x,z) \rightarrow \sim \text{married}(y,z)$

R4: $\text{married}(y,z) \rightarrow \text{married}(z,y)$

R5: $[\text{married}(x,y) \ \& \ \text{works_in}(p\text{-}d,x)] \rightarrow \text{insured_by}(x,\text{eagle-corp})$

With these facts and rules a simple backward production system can answer a variety of questions.

Build solution graphs for the following questions:

1. Name someone who works in the Purchasing Department.
2. Name someone who is married and works in the sales department.
3. Who is Joe Smith's boss?
4. Name someone insured by Eagle Corporation.
5. Is John Jones married with Sally Jones?

Deduction Systems

Fouad Sabry



Deduction Systems:

Deduction Systems Rolf Socher-Ambrosius, Patricia Johann, 1996-12-05 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 *The Functional Interpretation of Logical Deduction* Anjolina G. de Oliveira, 2012 This comprehensive book provides an adequate framework to establish various calculi of logical inference Being an OCy-enriched OCO system of natural deduction it helps to formulate logical calculi in an operational manner By uncovering a certain harmony between a functional calculus on the labels and a logical calculus on the formulas it allows mathematical foundations for systems of logic presentation designed to handle meta level features at the object level via a labelling mechanism such as the D Gabbay's Labelled Deductive Systems The book truly demonstrates that introducing OCylabels OCO is useful to understand the proof calculus itself and also to clarify its connections with model theoretic interpretations

Deductive Systems in Traditional and Modern Logic Alex Citkin, Urszula Wybraniec-Skardowska, 2020-11-18 The book provides a contemporary view on different aspects of the deductive systems in various types of logics including term logics propositional logics logics of refutation non Fregean logics higher order logics and arithmetic *Proof Theory and Automated Deduction* Jean Goubault-Larrecq, I. Mackie, 2001-11-30 Interest in computer applications has led to a new attitude to applied logic in which researchers tailor a logic in the same way they define a computer language In response to this attitude this text for undergraduate and graduate students discusses major algorithmic methodologies and tableaux and resolution methods The authors focus on first order logic the use of proof theory and the computer application of automated searches for proofs of mathematical propositions Annotation copyrighted by Book News Inc Portland OR *Parsing Schemata* Klaas Sikkels, 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

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

Dictionary of Logic as Applied in the Study of Language W. Marciszewski, 2013-06-29 1 STRUCTURE AND REFERENCES 1 1 The main part of the dictionary consists of alphabetically arranged articles concerned with basic logical theories and some other selected topics Within each article a set of concepts is defined in their mutual relations This way of defining concepts in the context of a theory provides better understanding of ideas than that provided by isolated short definitions A disadvantage of this method is that it takes more time to look something up inside an extensive article To reduce this disadvantage the following measures have been adopted Each article is divided into numbered sections the numbers in boldface type being addresses to which we refer Those sections of larger articles which are divided at the first level i.e. numbered with single numerals have titles Main sections are further subdivided the subsections being numbered by numerals added to the main section number e.g. I 1 1 1 2 1 1 1 1 2 and so on A comprehensive subject index is supplied together with a glossary The aim of the latter is to provide if possible short definitions which sometimes may prove sufficient As to the use of the glossary see the comment preceding it

Kiplinger's Personal Finance, 1980-09 The most trustworthy source of information available today on savings and investments taxes money management home ownership and many other personal finance topics

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 R-Calculus, V: Description Logics Wei Li,Yuefei Sui,2024-01-05 This book series consists of two parts decidable description logics and undecidable description logics It gives the R calculi for description logics This book offers a rich blend of theory and practice It is suitable for students researchers and practitioners in the field of logic **FSTTCS 2007: Foundations of Software Technology and Theoretical Computer Science** V. Arvind,Sanjiva Prasad,2007-11-27 This book constitutes the refereed proceedings of the 27th International Conference on the Foundations of Software Technology and Theoretical Computer Science FSTTCS 2007 held in New Delhi India in December 2007 The 40 revised full papers presented together with five invited papers were carefully reviewed They provide original research results in fundamental aspects of computer science and reports from the frontline of software technology and theoretical computer science *Deduction Systems in Artificial Intelligence* Karl Hans Bläsius,Hans-Jürgen Bürkert,1989 **Current Topics in Logic and Analytic Philosophy** Concha Martínez,José L. Falguera,José M. Sagüillo,2007 Logic: A History of its Central Concepts Dov M. Gabbay,Francis Jeffry Pelletier,John Woods,2012-12-31 The Handbook of the History of Logic is a multi volume research instrument that brings to the development of logic the best in modern techniques of historical and interpretative scholarship It is the first work in English in which the history of logic is presented so extensively The volumes are numerous and large Authors have been given considerable latitude to produce chapters of a length and a level of detail that would lay fair claim on the ambitions of the project to be a definitive research work Authors have been carefully selected with this aim in mind They and the Editors join in the conviction that a knowledge of the history of logic is nothing but beneficial to the subject s present day research programmes One of the attractions of the Handbook s several volumes is the emphasis they give to the enduring relevance of developments in logic throughout the ages including some of the earliest manifestations of the subject Covers in depth the notion of logical consequence Discusses the central concept in logic of modality Includes the use of diagrams in logical reasoning **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 for various non classical logics from intuitionistic logic to relevance logic linear logic and modal logic In the first chapters the author emphasizes classical logic and a variety of different sequent calculi for classical and intuitionistic logics She then presents other non classical logics and meta logical results including decidability results obtained specifically using sequent calculus formalizations of logics The book is suitable for a wide audience and can be used in advanced undergraduate or graduate courses Computer scientists will discover intriguing connections between sequent calculi and resolution as well as between sequent calculi and typed systems Those interested in the constructive approach will find formalizations of intuitionistic logic and two calculi for linear logic Mathematicians and philosophers will

welcome the treatment of a range of variations on calculi for classical logic Philosophical logicians will be interested in the calculi for relevance logics while linguists will appreciate the detailed presentation of Lambek calculi and their extensions

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 *Rewriting, Computation and Proof* Hubert Comon-Lundh,Claude Kirchner,Hélène Kirchner,2007-06-22 Jean Pierre Jouannaud has played a leading role in the field of rewriting and its technology This Festschrift volume published to honor him on his 60th Birthday includes 13 refereed papers by leading researchers current and former colleagues The papers are grouped in thematic sections on Rewriting Foundations Proof and Computation and a final section entitled Towards Safety and Security Fluent Calculus Fouad Sabry,2023-06-30 What Is Fluent Calculus A formalization for expressing dynamical domains in first order logic the fluent calculus is a type of calculus It is a subtype of the scenario calculus with the primary distinction being that states rather than circumstances are considered to be representations In order to concatenate the phrases that describe the facts that are true in a circumstance a symbol for a binary function is utilized A good illustration of this would be the fact that the formula represents the fact that the box is now located on the table The solution to the frame problem is to make the assertion that the state of affairs after the completion of an action is the same as it was before with the exception of the conditions that were altered as a result of the activity For instance the action of transferring the box from where it was sitting on the table to where it was standing on the floor can be formalized as follows How You Will Benefit I Insights and validations about the following topics Chapter 1 Fluent Calculus Chapter 2 First Order Logic Chapter 3 Propositional Calculus Chapter 4 Sequent Calculus Chapter 5 Kripke Semantics Chapter 6 Situation Calculus Chapter 7 Fluent Artificial Intelligence Chapter 8 Event Calculus Chapter 9 Epistemic Modal Logic Chapter 10 Non classical logic II Answering the public top questions about fluent calculus III Real world examples for the usage of fluent calculus in many fields IV 17 appendices to explain briefly 266 emerging technologies in each industry to have 360 degree full understanding of fluent calculus technologies Who This Book Is For Professionals undergraduate and graduate students enthusiasts hobbyists and those who want to go beyond basic knowledge or information for any kind of fluent calculus Default Reasoning Fouad Sabry,2023-06-25 What Is Default Reasoning Raymond Reiter put out the idea of default logic which is a non monotonic form of logic that formalizes reasoning with default assumptions How You Will Benefit I Insights and validations about the following topics Chapter 1 Default logic Chapter 2 Frame problem Chapter 3 Propositional calculus Chapter 4 Negation Chapter 5 Intuitionistic logic Chapter 6 Sequent calculus Chapter 7 Belief revision Chapter 8 Negation as failure Chapter 9 Closed world assumption Chapter 10

Epistemic modal logic II Answering the public top questions about default reasoning III Real world examples for the usage of default reasoning in many fields IV 17 appendices to explain briefly 266 emerging technologies in each industry to have 360 degree full understanding of default reasoning technologies Who This Book Is For Professionals undergraduate and graduate students enthusiasts hobbyists and those who want to go beyond basic knowledge or information for any kind of default reasoning

Frame Problem Fouad Sabry, 2023-06-25 What Is Frame Problem The term frame problem refers to an issue that arises when utilizing first order logic FOL to convey facts about a robot's situation in the environment This problem has ramifications for both artificial intelligence and cognitive science In conventional FOL representing the state of a robot requires the use of a large number of axioms many of which merely entail that items in the surrounding environment do not change in an arbitrary manner For instance Hayes outlines a block world that has laws for how blocks can be stacked on top of one another In order to draw conclusions about the surrounding world using a FOL system extra axioms are needed The frame problem is the challenge of locating sufficient collections of axioms in order to provide a workable description of the environment in which a robot operates How You Will Benefit I Insights and validations about the following topics Chapter 1 Frame problem Chapter 2 First order logic Chapter 3 Propositional calculus Chapter 4 Intuitionistic logic Chapter 5 Sequent calculus Chapter 6 Situation calculus Chapter 7 Answer set programming Chapter 8 Circumscription logic Chapter 9 Yale shooting problem Chapter 10 Fluent artificial intelligence II Answering the public top questions about frame problem III Real world examples for the usage of frame problem in many fields IV 17 appendices to explain briefly 266 emerging technologies in each industry to have 360 degree full understanding of frame problem technologies Who This Book Is For Professionals undergraduate and graduate students enthusiasts hobbyists and those who want to go beyond basic knowledge or information for any kind of frame problem

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Deduction Systems Introduction

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