Lecture Notes

NORMALIZATION, CUT-ELIMINATION AND THE THEORY OF PROOFS

A. M. Ungar

Normalization Cutelimination And The Theory Of Proofs

Hiroakira Ono,Makoto Kanazawa,Ruy de Queiroz

Normalization Cutelimination And The Theory Of Proofs:

Normalization, Cut-elimination, and the Theory of Proofs Anthony M. Ungar,2000 **Normalization, Cut-Elimination, and the Theory of Proofs** A. M. Ungar,1992-06-01 Gentzen s cut elimination theorem is widely used as a tool for meta mathematical investigations It is sometimes claimed however that the theorem and its proof have interest which is independent of these applications and derives from the information they supply about the structure of proofs in general Ungar investigates this claim in the context of first order logic Ungar gives an account of Gentzen s theorem for various formalisms and discusses the difficulties involved in treating these different versions uniformly as instances of a single theorem which is not tied to a particular system of rules By extending the theorem to a natural deduction calculus whose derivations are allowed to have more than one conclusion Ungar argues that the different versions of the theorem are more or less natural specializations of a single result whose significance can be understood in terms of the proofs represented by formal derivations A concluding discussion focuses on the relationship between proofs and formal derivations and the role proofs may play as part of a general theory of evidence **An Introduction to Proof Theory** Paolo Mancosu,Sergio Galvan,Richard Zach,2021 Proof theory is a central area of mathematical logic of special interest to philosophy It has its roots in the foundational debate of the 1920s in particular in Hilbert s program in the philosophy of mathematics which called for a formalization of mathematics as well as for a proof using philosophically unproblematic finitary means that these systems are free from contradiction Structural proof theory investigates the structure and properties of proofs in different formal deductive systems including axiomatic derivations natural deduction and the sequent calculus Central results in structural proof theory are the normalization theorem for natural deduction proved here for both intuitionistic and classical logic and the cut elimination theorem for the sequent calculus In formal systems of number theory formulated in the sequent calculus the induction rule plays a central role It can be eliminated from proofs of sequents of a certain elementary form every proof of an atomic sequent can be transformed into a simple proof This is Hilbert s central idea for giving finitary consistency proofs The proof requires a measure of proof complexity called an ordinal notation The branch of proof theory dealing with mathematical systems such as arithmetic thus has come to be called ordinal proof theory The theory of ordinal notations is developed here in purely combinatorial terms and the consistency proof for arithmetic presented in detail

Structural Proof Theory Sara Negri,Jan von Plato,2008-07-10 A concise introduction to structural proof theory a branch of logic studying the general structure of logical and mathematical proofs **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

Basic Proof Theory A. S. Troelstra,H. Schwichtenberg,2000-07-27 This introduction to the basic ideas of structural

proof theory contains a thorough discussion and comparison of various types of formalization of first order logic Examples are given of several areas of application namely the metamathematics of pure first order logic intuitionistic as well as classical the theory of logic programming category theory modal logic linear logic first order arithmetic and second order logic In each case the aim is to illustrate the methods in relatively simple situations and then apply them elsewhere in much more complex settings There are numerous exercises throughout the text In general the only prerequisite is a standard course in first order logic making the book ideal for graduate students and beginning researchers in mathematical logic theoretical computer science and artificial intelligence For the new edition many sections have been rewritten to improve clarity new sections have been added on cut elimination and solutions to selected exercises have been included *Types for Proofs and Programs* Thorsten Altenkirch,Conor McBride,2007-09-13 The refereed post proceedings of the International Workshop of the Types Working Group are presented in this volume The 17 papers address all current issues in formal reasoning and computer programming based on type theory including languages and computerized tools for reasoning applications in several domains such as analysis of programming languages certified software formalization of mathematics and mathematics education **Dag Prawitz on Proofs and Meaning** Heinrich Wansing,2014-11-27 This volume is dedicated to Prof Dag Prawitz and his outstanding contributions to philosophical and mathematical logic Prawitz s eminent contributions to structural proof theory or general proof theory as he calls it and inference based meaning theories have been extremely influential in the development of modern proof theory and anti realistic semantics In particular Prawitz is the main author on natural deduction in addition to Gerhard Gentzen who defined natural deduction in his PhD thesis published in 1934 The book opens with an introductory paper that surveys Prawitz s numerous contributions to proof theory and proof theoretic semantics and puts his work into a somewhat broader perspective both historically and systematically Chapters include either in depth studies of certain aspects of Dag Prawitz s work or address open research problems that are concerned with core issues in structural proof theory and range from philosophical essays to papers of a mathematical nature Investigations into the necessity of thought and the theory of grounds and computational justifications as well as an examination of Prawitz s conception of the validity of inferences in the light of three dogmas of proof theoretic semantics are included More formal papers deal with the constructive behaviour of fragments of classical logic and fragments of the modal logic S4 among other topics In addition there are chapters about inversion principles normalization of p roofs and the notion of proof theoretic harmony and other areas of a more mathematical persuasion Dag Prawitz also writes a chapter in which he explains his current views on the epistemic dimension of proofs and addresses the question why some inferences succeed in conferring evidence on their conclusions when applied to premises for which one already possesses evidence **Lectures on the Curry-Howard Isomorphism** Morten Heine Sørensen,Pawel Urzyczyn,2006-07-04 The Curry Howard isomorphism states an amazing correspondence between systems of formal logic as encountered in proof theory and computational calculi

as found in type theory For instance minimal propositional logic corresponds to simply typed lambda calculus first order logic corresponds to dependent types second order logic corresponds to polymorphic types sequent calculus is related to explicit substitution etc The isomorphism has many aspects even at the syntactic level formulas correspond to types proofs correspond to terms provability corresponds to inhabitation proof normalization corresponds to term reduction etc But there is more to the isomorphism than this For instance it is an old idea due to Brouwer Kolmogorov and Heyting that a constructive proof of an implication is a procedure that transformsproofs of the antecedent into proofs of the succedent the Curry Howard isomorphism gives syntactic representations of such procedures The Curry Howard isomorphism also provides theoretical foundations for many modern proof assistant systems e g Coq This book give an introduction to parts of proof theory and related aspects of type theory relevant for the Curry Howard isomorphism It can serve as an introduction to any or both of typed lambda calculus and intuitionistic logic Key features The Curry Howard Isomorphism treated as common theme Reader friendly introduction to two complementary subjects Lambda calculus and constructive logics Thorough study of the connection between calculi and logics Elaborate study of classical logics and control operators Account of dialogue games for classical and intuitionistic logic Theoretical foundations of computer assisted reasoning The Curry Howard Isomorphism treated as the common theme Reader friendly introduction to two complementary subjects lambda calculus and constructive logics Thorough study of the connection between calculi and logics Elaborate study of classical logics and control operators Account of dialogue games for classical and intuitionistic logic Theoretical foundations of computer assisted reasoning   Logic, Language, Information and Computation Hiroakira Ono,Makoto Kanazawa,Ruy de Queiroz,2009-06-07 Edited in collaboration with FoLLI the Association of Logic Language and Information this book constitutes the 4th volume of the FoLLI LNAI subline containing the refereed proceedings of the 16h International Workshop on Logic Language Information and Computation WoLLIC 2009 held in Tokyo Japan in June 2009 The 25 revised full papers presented together with six tutorials and invited talks were carefully reviewed and selected from 57 submissions The papers cover some of the most active areas of research on the frontiers between computation logic and linguistics with particular interest in cross disciplinary topics Typical areas of interest are foundations of computing and programming novel computation models and paradigms broad notions of proof and belief formal methods in software and hardware development logical approach to natural language and reasoning logics of programs actions and resources foundational aspects of information organization search flow sharing and protection   Advances in Natural Deduction Luiz Carlos Pereira,Edward Haeusler,Valeria de Paiva,2014-07-08 This collection of papers celebrating the contributions of Swedish logician Dag Prawitz to Proof Theory has been assembled from those presented at the Natural Deduction conference organized in Rio de Janeiro to honour his seminal research Dag Prawitz s work forms the basis of intuitionistic type theory and his inversion principle constitutes the foundation of most modern accounts of proof theoretic semantics in Logic Linguistics and Theoretical

Computer Science The range of contributions includes material on the extension of natural deduction with higher order rules as opposed to higher order connectives and a paper discussing the application of natural deduction rules to dealing with equality in predicate calculus The volume continues with a key chapter summarizing work on the extension of the Curry Howard isomorphism itself a by product of the work on natural deduction via methods of category theory that have been successfully applied to linear logic as well as many other contributions from highly regarded authorities With an illustrious group of contributors addressing a wealth of topics and applications this volume is a valuable addition to the libraries of academics in the multiple disciplines whose development has been given added scope by the methodologies supplied by natural deduction The volume is representative of the rich and varied directions that Prawitz work has inspired in the area of natural deduction *Proof Theory for Fuzzy Logics* George Metcalfe,Nicola Olivetti,Dov M. Gabbay,2008-11-27 Fuzzy logics are many valued logics that are well suited to reasoning in the context of vagueness They provide the basis for the wider field of Fuzzy Logic encompassing diverse areas such as fuzzy control fuzzy databases and fuzzy mathematics This book provides an accessible and up to date introduction to this fast growing and increasingly popular area It focuses in particular on the development and applications of proof theoretic presentations of fuzzy logics the result of more than ten years of intensive work by researchers in the area including the authors In addition to providing alternative elegant presentations of fuzzy logics proof theoretic methods are useful for addressing theoretical problems including key standard completeness results and developing efficient deduction and decision algorithms Proof theoretic presentations also place fuzzy logics in the broader landscape of non classical logics revealing deep relations with other logics studied in Computer Science Mathematics and Philosophy The book builds methodically from the semantic origins of fuzzy logics to proof theoretic presentations such as Hilbert and Gentzen systems introducing both theoretical and practical applications of these presentations **A Short Introduction to Intuitionistic Logic** Grigori Mints,2005-12-20 Intuitionistic logic is presented here as part of familiar classical logic which allows mechanical extraction of programs from proofs to make the material more accessible basic techniques are presented first for propositional logic Part II contains extensions to predicate logic This material provides an introduction and a safe background for reading research literature in logic and computer science as well as advanced monographs Readers are assumed to be familiar with basic notions of first order logic One device for making this book short was inventing new proofs of several theorems The presentation is based on natural deduction The topics include programming interpretation of intuitionistic logic by simply typed lambda calculus Curry Howard isomorphism negative translation of classical into intuitionistic logic normalization of natural deductions applications to category theory Kripke models algebraic and topological semantics proof search methods interpolation theorem The text developed from materal for several courses taught at Stanford University in 1992 1999 Logic, Language, Information, and Computation Leonid Libkin,Ulrich Kohlenbach,Ruy de Queiroz,2013-08-15 Edited in collaboration with FoLLI the Association of Logic

Language and Information this book constitutes the refereed proceedings of the 20th Workshop on Logic Language Information and Communication WoLLIC 2013 held in Darmstadt Germany in August 2013 The 17 contributed papers presented together with 6 invited lectures were carefully reviewed and selected from 30 submissions The scope of the workshop spans the theoretical and practical aspects of formal logic computing and programming theory and natural language and reasoning **Proof And Computation Ii: From Proof Theory And Univalent Mathematics To Program Extraction And Verification** Klaus Mainzer,Helmut Schwichtenberg,Peter Michael Schuster,2021-07-27 This book is for graduate students and researchers introducing modern foundational research in mathematics computer science and philosophy from an interdisciplinary point of view Its scope includes proof theory constructive mathematics and type theory univalent mathematics and point free approaches to topology extraction of certified programs from proofs automated proofs in the automotive industry as well as the philosophical and historical background of proof theory By filling the gap between under graduate level textbooks and advanced research papers the book gives a scholarly account of recent developments and emerging branches of the aforementioned fields **Handbook of Proof Theory** S.R. Buss,1998-07-09 This volume contains articles covering a broad spectrum of proof theory with an emphasis on its mathematical aspects The articles should not only be interesting to specialists of proof theory but should also be accessible to a diverse audience including logicians mathematicians computer scientists and philosophers Many of the central topics of proof theory have been included in a self contained expository of articles covered in great detail and depth The chapters are arranged so that the two introductory articles come first these are then followed by articles from core classical areas of proof theory the handbook concludes with articles that deal with topics closely related to computer science Typed Lambda Calculi and Applications Luke Ong,2011-05-23 This book constitutes the refereed proceedings of the 10th International Conference on Typed Lambda Calculi and Applications TLCA 2011 held in Novi Sad Serbia in June 2011 as part of RDP 2011 the 6th Federated Conference on Rewriting Deduction and Programming The 15 revised full papers presented were carefully reviewed and selected from 44 submissions The papers provide prevailing research results on all current aspects of typed lambda calculi ranging from theoretical and methodological issues to applications in various contexts addressing a wide variety of topics such as proof theory semantics implementation types and programming **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 **The Psychology of Proof** Lance J. Rips,2003-01-01 Lance Rips describes a unified theory of natural deductive reasoning and fashions a working model of deduction with strong experimental support that is capable of playing a central role in mental life In this provocative book

Lance Rips describes a unified theory of natural deductive reasoning and fashions a working model of deduction with strong experimental support that is capable of playing a central role in mental life Rips argues that certain inference principles are so central to our notion of intelligence and rationality that they deserve serious psychological investigation to determine their role in individuals beliefs and conjectures Asserting that cognitive scientists should consider deductive reasoning as a basis for thinking Rips develops a theory of natural reasoning abilities and shows how it predicts mental successes and failures in a range of cognitive tasks In parts I and II of the book Rips builds insights from cognitive psychology logic and artificial intelligence into a unified theoretical structure He defends the idea that deduction depends on the ability to construct mental proofs actual memory units that link given information to conclusions it warrants From this base Rips develops a computational model of deduction based on two cognitive skills the ability to make suppositions or assumptions and the ability to posit sub goals for conclusions A wide variety of original experiments support this model including studies of human subjects evaluating logical arguments as well as following and remembering proofs Unlike previous theories of mental proof this one handles names and variables in a general way This capability enables deduction to play a crucial role in other thought processes such as classifying and problem solving In part III Rips compares the theory to earlier approaches in psychology which confined the study of deduction to a small group of tasks and examines whether the theory is too rational or too irrational in its mode of thought **Logic Colloquium '98** Samuel R. Buss,Petr Hájek,Pavel Pudlák,2017-03-30 Since their inception the Perspectives in Logic and Lecture Notes in Logic series have published seminal works by leading logicians Many of the original books in the series have been unavailable for years but they are now in print once again This volume the thirteenth publication in the Lecture Notes in Logic series collects the proceedings of the European Summer Meeting of the Association for Symbolic Logic held at the University of Economics in Prague August 9 15 1988 It includes surveys and research from preeminent logicians The papers in this volume range over all areas of mathematical logic including proof theory set theory model theory computability theory and philosophy This book will be of interest to all students and researchers in mathematical logic

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