



Structural  
Proof  
Theory

SARA NEGRI &  
JAN VON PLATO

# Structural Proof Theory

**N Colangelo**



## **Structural Proof Theory:**

**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 *Structural Proof Theory* Aaron Brookes, 2017-04-12 Structural proof theory is a branch of logic that studies the general structure and properties of logical and mathematical proofs This book is both a concise introduction to the central results and methods of structural proof theory and a work of research that will be of interest to specialists The book is designed to be used by students of philosophy mathematics and computer science A special feature of the volume is a computerized system for developing proofs interactively downloadable from the web and regularly updated **An Introduction to Proof Theory** Paolo Mancosu, Sergio Galvan, Richard Zach, 2021-08-12 An Introduction to Proof Theory provides an accessible introduction to the theory of proofs with details of proofs worked out and examples and exercises to aid the reader's understanding It also serves as a companion to reading the original pathbreaking articles by Gerhard Gentzen The first half covers topics in structural proof theory including the Gödel Gentzen translation of classical into intuitionistic logic and arithmetic natural deduction and the normalization theorems for both NJ and NK the sequent calculus including cut elimination and mid sequent theorems and various applications of these results The second half examines ordinal proof theory specifically Gentzen's consistency proof for first order Peano Arithmetic The theory of ordinal notations and other elements of ordinal theory are developed from scratch and no knowledge of set theory is presumed The proof methods needed to establish proof theoretic results especially proof by induction are introduced in stages throughout the text Mancosu Galvan and Zach's introduction will provide a solid foundation for those looking to understand this central area of mathematical logic and the philosophy of mathematics

**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 *Structural Proof Theory* Jeffrey Holt, 2017-12-12 The book is designed to be used by students of philosophy mathematics and computer science A special feature of the volume is a computerized system for developing proofs interactively downloadable from the web and regularly updated This book is both a concise introduction to the central results and methods of structural proof theory and a

work of research that will be of interest to specialists

**Essays in Structural Proof Theory** Laura Tesconi, 2013

**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

*Arnon Avron on Semantics and Proof Theory of Non-Classical Logics* Ofer Arieli, Anna Zamansky, 2021-07-30 This book is a collection of contributions honouring Arnon Avron's seminal work on the semantics and proof theory of non classical logics It includes presentations of advanced work by some of the most esteemed scholars working on semantic and proof theoretical aspects of computer science logic Topics in this book include frameworks for paraconsistent reasoning foundations of relevance logics analysis and characterizations of modal logics and fuzzy logics hypersequent calculi and their properties non deterministic semantics algebraic structures for many valued logics and representations of the mechanization of mathematics Avron's foundational and pioneering contributions have been widely acknowledged and adopted by the scientific community His research interests are very broad spanning over proof theory automated reasoning non classical logics foundations of mathematics and applications of logic in computer science and artificial intelligence This is clearly reflected by the diversity of topics discussed in the chapters included in this book all of which directly relate to Avron's past and present works This book is of interest to computer scientists and scholars of formal logic

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

*Proof Analysis* Sara Negri, Jan von Plato, 2011-09-29 This book continues from where the authors previous book Structural Proof Theory ended It presents an extension of the methods of analysis of proofs in pure logic to elementary axiomatic systems and to what is known as philosophical logic A self contained brief introduction

to the proof theory of pure logic is included that serves both the mathematically and philosophically oriented reader The method is built up gradually with examples drawn from theories of order lattice theory and elementary geometry The aim is in each of the examples to help the reader grasp the combinatorial behaviour of an axiom system which typically leads to decidability results The last part presents as an application and extension of all that precedes it a proof theoretical approach to the Kripke semantics of modal and related logics with a great number of new results providing essential reading for mathematical and philosophical logicians Basic Proof Theory Anne Sjerp Troelstra, Helmut Schwichtenberg, 2000

Introduction to proof theory and its applications in mathematical logic theoretical computer science and artificial intelligence

**Tools and Techniques for Formalising Structural Proof Theory** Peter Chapman, University of St. Andrews. School of Mathematics and Statistics, 2010 *Proof Theory and Logical Complexity* Jean-Yves Girard, 1987 This long awaited book fills essential gaps in monographic literature on proof theory and prepares readers for volume 2 to be published soon containing an exposition of the author's new approach to proof theory for higher order logic Even in traditional topics like Gödel's completeness and incompleteness theorems and cut elimination accents are different compared to books by Kleene or Takeuti which are strongly influenced by Hilbert's aim to make mathematical theories number theory analysis etc more reliable by transformations of formalized proofs The author is much closer to the approach of Gödel-Kreisel to whom this book is dedicated Hilbert's program needs drastic rethinking and one of the main tasks is in finding mathematical applications of the results obtained in proof theory Possibly it is not a pure chance that the system of second order functionals developed by the author in his normalization proof for second order logic was rediscovered and became a tool in computer science The book under review presents not only this material but also other results by the author which became a part of modern proof theory including analysis of cut free provability in terms of 3 valued logic The material which was not previously covered at least in such detail in proof theoretic monographs includes strong normalizability proofs after Tait and Gandy applications of reflection principles recursive ordinals operations on local correct but not necessarily well founded omega derivations no counterexample interpretation using proof theory to extract combinatory estimates with a detailed treatment of van der Waerden's theorem This is a difficult but rewarding postgraduate level textbook The author does not avoid philosophical questions and such discussion supported by theorems is certainly fruitful although the reviewer would not agree with all author's conclusions description of volume 1 *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 **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

**Proof Theory of Impredicative Subsystems of Analysis** Wilfried Buchholz,Kurt Schütte,1988 **Mathematical Proof Theory** Edited by: Kisak,2015-11-02 Proof theory is a branch of mathematical logic that represents proofs as formal mathematical objects facilitating their analysis by mathematical techniques Proofs are typically presented as inductively defined data structures such as plain lists boxed lists or trees which are constructed according to the axioms and rules of inference of the logical system As such proof theory is syntactic in nature in contrast to model theory which is semantic in nature Together with model theory axiomatic set theory and recursion theory proof theory is one of the so called four pillars of the foundations of mathematics Some of the major areas of proof theory include structural proof theory ordinal analysis provability logic reverse mathematics proof mining automated theorem proving and proof complexity Much research also focuses on applications in computer science linguistics and philosophy **Selected Papers in Proof Theory** G. E. Mintš,1992 The Bulletin of Symbolic Logic ,2009

Towards a Proof Theory of Rewriting Barnaby P. Hilken,1994 Abstract This paper describes the simply typed 2 lambda calculus a language with three levels types terms and rewrites The types and terms are those of the simply typed lambda calculus and the rewrites are expressions denoting sequences of beta reductions and eta expansions An equational theory is imposed on the rewrites based on 2 categorical justifications and the word problem for this theory is solved by finding a canonical expression in each equivalence class The canonical form of rewrites allows us to prove several properties of the

calculus including a strong form of confluence and a classification of the long beta eta normal forms in terms of their rewrites  
Finally we use these properties as the basic definitions of a theory of categorical rewriting and find that the expected relationships between confluence strong normalisation and normal forms hold

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