

**STUDIES IN LOGIC
AND
THE FOUNDATIONS OF MATHEMATICS**

VOLUME VII

AN OBSERVATION ON THE THEORY OF A LOGICALLY NON-REDUCTIBLE
SYSTEM

**HANDBOOK
OF
PROOF THEORY**

CHARLES H. IRWIN (Ed.)

ALAN TURING

ALAN TURING'S CONTRIBUTION TO THE THEORY OF COMPUTATION
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ALAN TURING (Ed.)

Handbook Of Proof Theory

Sara Negri, Jan von Plato



Handbook Of Proof Theory:

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.

Handbook of Mathematical Logic J. Barwise, 1982-03-01 The handbook is divided into four parts: model theory, set theory, recursion theory, and proof theory. Each of the four parts begins with a short guide to the chapters that follow. Each chapter is written for non-specialists in the field in question. Mathematicians will find that this book provides them with a unique opportunity to apprise themselves of developments in areas other than their own.

Proof Theory Vincent F. Hendricks, Stig Andur Pedersen, Klaus Frovin Jørgensen, 2013-03-09 This volume in the Synthese Library Series is the result of a conference held at the University of Roskilde, Denmark, October 31st–November 1st, 1997. The aim was to provide a forum within which philosophers, mathematicians, logicians, and historians of mathematics could exchange ideas pertaining to the historical and philosophical development of proof theory. Hence the conference was called Proof Theory History and Philosophical Significance. To quote from the conference abstract: Proof theory was developed as part of Hilbert's Programme. According to Hilbert's Programme, one could provide mathematics with a firm and secure foundation by formalizing all of mathematics and subsequently prove consistency of these formal systems by finitistic means. Hence proof theory was developed as a formal tool through which this goal should be fulfilled. It is well known that Hilbert's Programme in its original form was unfeasible, mainly due to Gödel's incompleteness theorems. Additionally, it proved impossible to formalize all of mathematics and impossible to even prove the consistency of relatively simple formalized fragments of mathematics by finitistic methods. In spite of these problems, Gentzen showed that by extending Hilbert's proof theory it would be possible to prove the consistency of interesting formal systems, perhaps not by finitistic methods but still by methods of minimal strength. This generalization of Hilbert's original programme has fueled modern proof theory, which is a rich part of mathematical logic with many significant implications for the philosophy of mathematics.

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

A Model-Theoretic Approach to Proof Theory Henryk Kotlarski, 2019-09-26 This book presents a detailed treatment of ordinal combinatorics of large sets tailored for independence results It uses model theoretic and combinatorial methods to obtain results in proof theory such as incompleteness theorems or a description of the provably total functions of a theory In the first chapter the authors first discuss ordinal combinatorics of finite sets in the style of Ketonen and Solovay This provides a background for an analysis of subsystems of Peano Arithmetic as well as for combinatorial independence results Next the volume examines a variety of proofs of Gödel's incompleteness theorems The presented proofs differ strongly in nature They show various aspects of incompleteness phenomena In addition coverage introduces some classical methods like the arithmetized completeness theorem satisfaction predicates or partial satisfaction classes It also applies them in many contexts The fourth chapter defines the method of indicators for obtaining independence results It shows what amount of transfinite induction we have in fragments of Peano arithmetic Then it uses combinatorics of large sets of the first chapter to show independence results The last chapter considers nonstandard satisfaction classes It presents some of the classical theorems related to them In particular it covers the results by S. Smith on definability in the language with a satisfaction class and on models without a satisfaction class Overall the book's content lies on the border between combinatorics proof theory and model theory of arithmetic It offers readers a distinctive approach towards independence results by model theoretic methods

Proof Theory in Computer Science Reinhard Kahle, Peter Schroeder-Heister, Robert Stärk, 2003-06-30 Proof theory has long been established as a basic discipline of mathematical logic It has recently become increasingly relevant to computer science The deductive apparatus provided by proof theory has proved useful for metatheoretical purposes as well as for practical applications Thus it seemed to us most natural to bring researchers together to assess both the role proof theory already plays in computer science and the role it might play in the future The form of a Dagstuhl seminar is most suitable for purposes like this as Schloss Dagstuhl provides a very convenient and stimulating environment to discuss new ideas and developments To accompany the conference with a proceedings volume appeared to us equally appropriate Such a volume not only presents basic results of the subject and makes them available to a broader audience but also signals to the scientific community that Proof Theory in Computer Science PTCS is a major research branch within the wider field of logic in computer science

Proof Theory Katalin Bimbó, 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

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 *Applied Proof Theory: Proof Interpretations and their Use in Mathematics* Ulrich Kohlenbach, 2008-05-23 This is the first treatment in book format of proof theoretic transformations known as proof interpretations that focuses on applications to ordinary mathematics It covers both the necessary logical machinery behind the proof interpretations that are used in recent applications as well as via extended case studies carrying out some of these applications in full detail This subject has historical roots in the 1950s This book for the first time tells the whole story *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 undergraduate level textbooks and advanced research papers the book gives a scholarly account of recent developments and emerging branches of the aforementioned fields **Proof Theory** Wolfram Pohlers, 2008-10-01 The kernel of this book consists of a series of lectures on intuitionistic proof theory which I gave during my time at the Westfälische Wilhelms Universität in Münster It was planned as a successor of Springer Lecture Notes in Mathematics 1407 However when preparing it I decided to also include material which has not been treated in SLN 1407 Since the appearance of SLN 1407 many innovations in the area of ordinal analysis have taken place Just to mention those of them which are addressed in this book Buchholz simplified local predicativity by the invention of operator controlled derivations cf Chapter 9 Chapter 11 Weiermann detected applications of methods of impredicative proof theory to the characterization of the provable recursive functions of predicative theories cf Chapter 10 Beckmann improved Gentzen's boundedness theorem which appears as Stage Theorem Theorem 6.6.1 in this book to Theorem 6.6.9 a theorem which is very satisfying in itself though its real importance lies in the ordinal analysis of systems weaker than those treated here Besides these innovations I also decided to include the analysis of the theory REF as an example of a subtheory of set theory whose ordinal analysis only Σ_1^1 requires a first step into impredicativity The ordinal analysis of FXP of non Σ_1^1 monotone definable inductive definitions in Chapter 13 is an application of the Σ_1^1 analysis of REF *Ways of Proof Theory* Ralf Schindler, 2013-05-02 On the occasion of the retirement of Wolfram Pohlers the Institut für Mathematische Logik und Grundlagenforschung of the University of Münster organized a colloquium and a workshop which took place July 17-19 2008 This event brought together proof theorists from many parts of

the world who have been acting as teachers students and collaborators of Wolfram Pohlers and who have been shaping the field of proof theory over the years The present volume collects papers by the speakers of the colloquium and workshop and they produce a documentation of the state of the art of contemporary proof theory

Ordinal Analysis with an Introduction to Proof Theory Toshiyasu Arai,2020-08-11 This book provides readers with a guide to both ordinal analysis and to proof theory It mainly focuses on ordinal analysis a research topic in proof theory that is concerned with the ordinal theoretic content of formal theories However the book also addresses ordinal analysis and basic materials in proof theory of first order or omega logic presenting some new results and new proofs of known ones Primarily intended for graduate students and researchers in mathematics especially in mathematical logic the book also includes numerous exercises and answers for selected exercises designed to help readers grasp and apply the main results and techniques discussed

Handbook of Logic and Proof Techniques for Computer Science Steven G. Krantz,2012-12-06 Logic is and should be the core subject area of modern mathematics The blueprint for twentieth century mathematical thought thanks to Hilbert and Bourbaki is the axiomatic development of the subject As a result logic plays a central conceptual role At the same time mathematical logic has grown into one of the most recondite areas of mathematics Most of modern logic is inaccessible to all but the specialist Yet there is a need for many mathematical scientists not just those engaged in mathematical research to become conversant with the key ideas of logic The Handbook of Mathematical Logic edited by Jon Barwise is in point of fact a handbook written by logicians for other mathematicians It was at the time of its writing encyclopedic authoritative and up to the moment But it was and remains a comprehensive and authoritative book for the cognoscenti The encyclopedic Handbook of Logic in Computer Science by Abramsky Gabbay and Maibaum is a wonderful resource for the professional But it is overwhelming for the casual user There is need for a book that introduces important logic terminology and concepts to the working mathematical scientist who has only a passing acquaintance with logic Thus the present work has a different target audience The intent of this handbook is to present the elements of modern logic including many current topics to the reader having only basic mathematical literacy

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

Logical Foundations of Proof Complexity Stephen Cook,Phuong Nguyen,2010-01-25 This book treats bounded arithmetic and propositional proof complexity from the point of view of computational complexity The first seven chapters include the necessary logical background for the material and are suitable for a graduate course Associated with each of many complexity classes are both a two sorted predicate calculus theory with induction restricted to concepts in the class and a propositional proof system The complexity classes range from AC_0 for the weakest theory up to the polynomial hierarchy Each bounded theorem in a theory translates into a family of quantified propositional tautologies with polynomial size proofs in the corresponding proof system The theory proves the soundness of the associated proof system The result is a uniform treatment of many systems in the literature including Buss's theories for the polynomial hierarchy and many disparate systems for complexity classes such as AC_0 , AC_0^m , TC_0 , NC_1 , L , NL , NC and P

Advances in Proof Theory Reinhard Kahle,Thomas Strahm,Thomas Studer,2016-05-04 The aim of this volume is to collect original contributions by the best specialists from the area of proof theory constructivity and computation and discuss recent trends and results in these areas Some emphasis will be put on ordinal analysis reductive proof theory explicit mathematics and type theoretic formalisms and abstract computations The volume is dedicated to the 60th birthday of Professor Gerhard Jäger who has been instrumental in shaping and promoting logic in Switzerland for the last 25 years It comprises contributions from the symposium Advances in Proof Theory which was held in Bern in December 2013 Proof theory came into being in the twenties of the last century when it was inaugurated by David Hilbert in order to secure the foundations of mathematics It was substantially influenced by Gödel's famous incompleteness theorems of 1930 and Gentzen's new consistency proof for the axiom system of first order number theory in 1936 Today proof theory is a well established branch of mathematical and philosophical logic and one of the pillars of the foundations of mathematics Proof theory explores constructive and computational aspects of mathematical reasoning it is particularly suitable for dealing with various questions in computer science

A Proof Theory for Description Logics Alexandre Rademacher,2012-05-17 Description Logics (DLs) is a family of formalisms used to represent knowledge of a domain They are equipped with a formal logic based semantics Knowledge representation systems based on description logics provide various inference capabilities that deduce implicit knowledge from the explicitly represented knowledge A Proof Theory for Description Logics introduces Sequent Calculi and Natural Deduction for some DLs ALC, ALCQ Cut elimination and Normalization are proved for the calculi The author argues that such systems can improve the extraction of computational content from DLs proofs for explanation purposes

Model and Proof Theory of Constructive ALC Stephan Scheele,2015-07-02

Handbook of Philosophical Logic Dov M. Gabbay,Franz Guenther,2013-03-14 It is with great pleasure that we are presenting to the community the second edition of this

extraordinary handbook It has been over 15 years since the publication of the first edition and there have been great changes in the landscape of philosophical logic since then The first edition has proved invaluable to generations of students and researchers in formal philosophy and language as well as to consumers of logic in many applied areas The main logic article in the Encyclopaedia Britannica 1999 has described the first edition as the best starting point for exploring any of the topics in logic We are confident that the second edition will prove to be just as good The first edition was the second handbook published for the logic community It followed the North Holland one volume Handbook of Mathematical Logic published in 1977 edited by the late Jon Barwise The four volume Handbook of Philosophical Logic published 1983 1989 came at a fortunate temporal junction at the evolution of logic This was the time when logic was gaining ground in computer science and artificial intelligence circles These areas were under increasing commercial pressure to provide devices which help and or replace the human in his daily activity This pressure required the use of logic in the modelling of human activity and organization on the one hand and to provide the theoretical basis for the computer program constructs on the other

Decoding **Handbook Of Proof Theory**: Revealing the Captivating Potential of Verbal Expression

In a period characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its power to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Handbook Of Proof Theory**," a mesmerizing literary creation penned by a celebrated wordsmith, readers set about an enlightening odyssey, unraveling the intricate significance of language and its enduring effect on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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Handbook Of Proof Theory Introduction

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