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Mathematical Intuitionism Introduction To Proof Theory Translations Of Mathematical Monographs

Yi-Tong Ma



Mathematical Intuitionism Introduction To Proof Theory Translations Of Mathematical Monographs:

Mathematical Intuitionism Carl J. Posy, 2020-11-12 L E J Brouwer the founder of mathematical intuitionism believed that mathematics and its objects must be humanly graspable He initiated a program rebuilding modern mathematics according to that principle This book introduces the reader to the mathematical core of intuitionism from elementary number theory through to Brouwer's uniform continuity theorem and to the two central topics of formalized intuitionism formal intuitionistic logic and formal systems for intuitionistic analysis Building on that the book proposes a systematic philosophical foundation for intuitionism that weaves together doctrines about human grasp mathematical objects and mathematical truth

Mathematical Intuitionism: Introduction to Proof Theory Al'bert Grigor'evich Dragalin, 1988-12-31 In the area of mathematical logic a great deal of attention is now being devoted to the study of nonclassical logics This book intends to present the most important methods of proof theory in intuitionistic logic and to acquaint the reader with the principal axiomatic theories based on intuitionistic logic **Mathematical Intuitionism** Al'bert Grigor'evich Dragalin, 1988 This monograph is intended to present the most important methods of proof theory in intuitionistic logic assuming the reader to have mastered an introductory course in mathematical logic The book starts with purely syntactical methods based on Gentzen's cut elimination theorem followed by intuitionistic arithmetic where Kleene's realizability method plays a central role The author then studies algebraic models and completeness theorems for them After giving a survey on the principles of intuitionistic analysis the last part of the book presents the cut elimination theorem in intuitionist 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 **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 Handbook of Automated Reasoning Alan J.A. Robinson, Andrei Voronkov, 2001-06-22 Handbook of Automated Reasoning *The Connectives* Lloyd Humberstone, 2011 In *The Connectives* Lloyd Humberstone examines the semantics and pragmatics of

natural language sentence connectives and or if not giving special attention to their formal behavior according to proposed logical systems and the degree to which such treatments capture their intuitive meanings It will be an essential resource for philosophers mathematicians computer scientists linguists or any scholar who finds connectives and the conceptual issues surrounding them to be a source of interest

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 transforms proofs 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

An Introduction to Substructural Logics Greg Restall, 2002-09-11 This book introduces an important group of logics that have come to be known under the umbrella term substructural Substructural logics have independently led to significant developments in philosophy computing and linguistics An Introduction to Substructural Logics is the first book to systematically survey the new results and the significant impact that this class of logics has had on a wide range of fields The following topics are covered Proof Theory Propositional Structures Frames Decidability Coda Both students and professors of philosophy computing linguistics and mathematics will find this to be an important addition to their reading

Logic for Applications Anil Nerode, Richard A. Shore, 2012-12-06 In writing this book our goal was to produce a text suitable for a first course in mathematical logic more attuned than the traditional textbooks to the recent dramatic growth in the applications of logic to computer science Thus

our choice of topics has been heavily influenced by such applications. Of course we cover the basic traditional topics: syntax, semantics, soundness, completeness and compactness as well as a few more advanced results such as the theorems of Skolem, Lowenheim and Herbrand. Much of our book however deals with other less traditional topics. Resolution theorem proving plays a major role in our treatment of logic especially in its application to Logic Programming and PROLOG. We deal extensively with the mathematical foundations of all three of these subjects. In addition we include two chapters on nonclassical logics: modal and intuitionistic that are becoming increasingly important in computer science. We develop the basic material on the syntax and semantics via Kripke frames for each of these logics. In both cases our approach to formal proofs of soundness and completeness uses modifications of the same tableau method introduced for classical logic. We indicate how it can easily be adapted to various other special types of modal logics. A number of more advanced topics including nonmonotonic logic are also briefly introduced both in the nonclassical logic chapters and in the material on Logic Programming and PROLOG.

Logic and the Modalities in the Twentieth Century Dov M. Gabbay, John Woods, 2006-05-10

Logic and the Modalities in the Twentieth Century is an indispensable research tool for anyone interested in the development of logic including researchers, graduate and senior undergraduate students in logic, history of logic, mathematics, history of mathematics, computer science and artificial intelligence, linguistics, cognitive science, argumentation theory, philosophy and the history of ideas. This volume is number seven in the eleven volume Handbook of the History of Logic. It concentrates on the development of modal logic in the 20th century, one of the most important undertakings in logic's long history. Written by the leading researchers and scholars in the field, the volume explores the logics of necessity and possibility, knowledge and belief, obligation and permission, time, tense and change, relevance and more. Both this volume and the Handbook as a whole are definitive reference tools for students and researchers in the history of logic, the history of philosophy and any discipline such as mathematics, computer science, artificial intelligence for whom the historical background of his or her work is a salient consideration. Detailed and comprehensive chapters covering the entire range of modal logic. Contains the latest scholarly discoveries and interpretative insights that answer many questions in the field of logic.

Larisa Maksimova on Implication, Interpolation, and Definability Sergei Odintsov, 2018-01-30

This edited volume focuses on the work of Professor Larisa Maksimova, providing a comprehensive account of her outstanding contributions to different branches of non-classical logic. The book covers themes ranging from rigorous implication, relevance and algebraic logic to interpolation, definability and recognizability in superintuitionistic and modal logics. It features both her scientific autobiography and original contributions from experts in the field of non-classical logics. Professor Larisa Maksimova's influential work involved combining methods of algebraic and relational semantics. Readers will be able to trace both influences on her work and the ways in which her work has influenced other logicians. In the historical part of this book it is possible to trace important milestones in Maksimova's career. Early on she developed an algebraic semantics for relevance logics and relational

semantics for the logic of entailment Later Maksimova discovered that among the continuum of superintuitionistic logics there are exactly three pretabular logics She went on to obtain results on the decidability of tabularity and local tabularity problems for superintuitionistic logics and for extensions of S4 Further investigations by Maksimova were aimed at the study of fundamental properties of logical systems different versions of interpolation and definability disjunction property etc in big classes of logics and on decidability and recognizability of such properties To this end she determined a powerful combination of algebraic and semantic methods which essentially determine the modern state of investigations in the area as can be seen in the later chapters of this book authored by leading experts in non classical logics These original contributions bring the reader up to date on the very latest work in this field

Types for Proofs and Programs Stefano

Berardi, 2004-06-15 This book constitutes the thoroughly refereed post proceedings of the Third International Workshop of the Types Working Group TYPES 2003 held in Torino Italy in April May 2003 The 25 revised full papers presented were carefully selected during two rounds of reviewing and improvement All current issues in type theory and type systems and their applications to programming systems design and proof theory are addressed Among the systems dealt with are Isabelle Isar PAF and Coq

Sheaves, Games, and Model Completions Silvio Ghilardi, M. Zawadowski, 2013-04-17

This book is an example of fruitful interaction between non classical propositional logics and classical model theory which was made possible due to categorical logic Its main aim consists in investigating the existence of model completions for equational theories arising from propositional logics such as the theory of Heyting algebras and various kinds of theories related to propositional modal logic The existence of model completions turns out to be related to proof theoretic facts concerning interpretability of second order propositional logic into ordinary propositional logic through the so called Pitts quantifiers or bisimulation quantifiers On the other hand the book develops a large number of topics concerning the categorical structure of finitely presented algebras with related applications to propositional logics both standard like Beth's theorems and new like effectiveness of internal equivalence relations projectivity and definability of dual connectives such as difference A special emphasis is put on sheaf representation showing that much of the nice categorical structure of finitely presented algebras is in fact only a restriction of natural structure in sheaves Applications to the theory of classifying toposes are also covered yielding new examples The book has to be considered mainly as a research book reporting recent and often completely new results in the field we believe it can also be fruitfully used as a complementary book for graduate courses in categorical and algebraic logic universal algebra model theory and non classical logics 1

Types for Proofs and Programs Thorsten

Altenkirch, 2007-10 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

Automated Reasoning with

Analytic Tableaux and Related Methods Roy Dyckhoff, 2006-12-30 This book constitutes the refereed proceedings of the International Conference on Automated Reasoning with Analytic Tableaux and Related Methods TABLEUX 2000 held in St Andrews Scotland UK in July 2000 The 23 revised full papers and 2 system descriptions presented were carefully reviewed and selected from 42 submissions Also included are 3 invited lectures and 6 nonclassical system comparisons All current issues surrounding the mechanization of reasoning with tableaux and similar methods are addressed ranging from theoretical foundations to implementation systems development and applications as well as covering a broad variety of logical calculi

Theoretical Computer Science Mario Coppo, Elena Lodi, 2005-09-28 This book constitutes the refereed proceedings of the 9th International Conference on Theoretical Computer Science ICTCS 2005 held at the Certosa di Pontignano Siena Italy in October 2005 The 29 revised full papers presented together with an invited paper and abstracts of 2 invited talks were carefully reviewed and selected from 83 submissions The papers address all current issues in theoretical computer science and focus especially on analysis and design of algorithms computability computational complexity cryptography formal languages and automata foundations of programming languages and program analysis natural computing paradigms quantum computing bioinformatics program specification and verification term rewriting theory of logical design and layout type theory security and symbolic and algebraic computation

Logic and Computer Science Steven Homer, Anil Nerode, Richard A. Platek, Gerald E. Sacks, Andre Scedrov, 2006-11-14 The courses given at the 1st C I M E Summer School of 1988 dealt with the main areas on the borderline between applied logic and theoretical computer science These courses are recorded here in five expository papers S Homer The Isomorphism Conjecture and its Generalization A Nerode Some Lectures on Intuitionistic Logic R A Platek Making Computers Safe for the World An Introduction to Proofs of Programs Part I G E Sacks Prolog Programming A Scedrov A Guide to Polymorphic Types

Automated Reasoning with Analytic Tableaux and Related Methods Neil V. Murray, 2003-07-31 This book constitutes the refereed proceedings of the International Conference on Analytic Tableaux and Related Methods TABLEUX 99 held in Saratoga Springs NY USA in June 1999 The volume presents 18 revised full papers and three system descriptions selected from 41 submissions Also included are system comparisons and abstracts of an invited paper and of two tutorials All current issues surrounding mechanization of reasoning with tableaux and similar methods are addressed ranging from theoretical foundations to implementation and systems development and applications as well as covering a broad variety of logic calculi As application areas formal verification of software and computer systems deductive databases knowledge representation and systems diagnosis are covered

Logic from Computer Science Yiannis N. Moschovakis, 2012-12-06 The volume is the outgrowth of a workshop with the same title held at MSRI in the week of November 13 17 1989 and for those who did not get it Logic from Computer Science is the converse of Logic in Computer Science the full name of the highly successful annual LICS conferences We meant to have a conference which would bring together the LICS community with some of the more traditional mathematical

logicians and where the emphasis would be on the flow of ideas from computer science to logic rather than the other way around In a LICS talk sometimes the speaker presents a perfectly good theorem about say the λ calculus or finite model theory in terms of its potential applications rather than its often more obvious intrinsic foundational interest and intricate proof This is not meant to be a criticism the LICS meetings are after all organized by the IEEE Computer Society We thought for once it would be fun to see what we would get if we asked the speakers to emphasize the relevance of their work for logic rather than computer science and to point out what is involved in the proofs I think mostly it worked In any case the group of people represented as broad a selection of logicians as I have seen in recent years and the quality of the talks was in my view exceptionally unusually high I learned a lot and I think others did too

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