

# PROOF METHODS FOR MODAL AND INTUITIONISTIC LOGICS

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# Proof Methods For Modal And Intuitionistic Logics

**Jicheng Xie**



## **Proof Methods For Modal And Intuitionistic Logics:**

**Proof Methods for Modal and Intuitionistic Logics** M. Fitting, 1983-04-30 Necessity is the mother of invention Part I What is in this book details There are several different types of formal proof procedures that logicians have invented The ones we consider are 1 tableau systems 2 Gentzen sequent calculi 3 natural deduction systems and 4 axiom systems We present proof procedures of each of these types for the most common normal modal logics S5 S4 B T D K K4 D4 KB DB and also G the logic that has become important in applications of modal logic to the proof theory of Peano arithmetic Further we present a similar variety of proof procedures for an even larger number of regular non normal modal logics many introduced by Lemmon We also consider some quasi regular logics including S2 and S3 Virtually all of these proof procedures are studied in both propositional and first order versions generally with and without the Barcan formula Finally we present the full variety of proof methods for Intuitionistic logic and of course Classical logic too We actually give two quite different kinds of tableau systems for the logics we consider two kinds of Gentzen sequent calculi and two kinds of natural deduction systems Each of the two tableau systems has its own uses each provides us with different information about the logics involved They complement each other more than they overlap Of the two Gentzen systems one is of the conventional sort common in the literature

**Automated Proof Search in Non-classical Logics** Lincoln A. Wallen, 1990 This book develops and demonstrates efficient matrix proof methods for automated deduction within an important and comprehensive class of first order and intuitionistic logics Traditional techniques for the design of efficient proof systems are abstracted from their original setting which allows their application to a wider class of mathematical logic The logics discussed are used throughout computer science and artificial intelligence Contents Introduction I Automated Deduction in Classical Logic Proof search in classical sequent calculi A matrix characterization of classical validity II Automated Proof Deduction in Modal Logics The semantics and proof theory of modal logics Proof search in modal sequent calculi Matrix characterizations of modal validity Alternative proof methods for modal logics Matrix based proof search III Automated Deduction in Intuitionistic Logic A Matrix proof method Conclusions Lincoln A Wallen is a B P Venture Research Fellow at the University of Texas at Austin Automated Deduction in Nonclassical Logics is included in the Artificial Intelligence series edited by Patrick Winston Michael Brady and Daniel Bobrow

**Theorem Proving with Analytic Tableaux and Related Methods** Peter Baumgartner, Reiner Haehnle, Joachim Posegga, 1995-04-26 This volume constitutes the proceedings of the 4th International Workshop on Theorem Proving with Analytic Tableaux and Related Methods TABLEAU 95 held at Schlo Rheinfels St Goar Germany in May 1995 Originally tableau calculi and their relatives were favored primarily as a pedagogical device because of their advantages at the presentation level The 23 full revised papers in this book bear witness that these methods have now gained fundamental importance in theorem proving particularly as competitors for resolution methods The book is organized in sections on extensions modal logic intuitionistic logic the connection method and model elimination non clausal proof

procedures linear logic higher order logic and applications

### **Theorem Proving with Analytic Tableaux and Related**

**Methods** P. Miglioli, 1996-04-24 This book presents the refereed proceedings of the Fifth International Workshop on Analytic Tableaux and Related Methods TABLEAUX 96 held in Terrasini near Palermo Italy in May 1996 The 18 full revised papers included together with two invited papers present state of the art results in this dynamic area of research Besides more traditional aspects of tableaux reasoning the collection also contains several papers dealing with other approaches to automated reasoning The spectrum of logics dealt with covers several nonclassical logics including modal intuitionistic many valued temporal and linear logic Labelled Non-Classical Logics Luca Viganò, 2013-04-17 I am very happy to have this opportunity to introduce Luca Viganò's book on Labelled Non Classical Logics I put forward the methodology of labelled deductive systems to the participants of Logic Colloquium 90 Labelled Deductive systems a Position Paper In J Oikkonen and J Vaananen editors Logic Colloquium 90 Volume 2 of Lecture Notes in Logic pages 66 68 Springer Berlin 1993 in an attempt to bring labelling as a recognised and significant component of our logic culture It was a response to earlier isolated uses of labels by various distinguished authors as a means to achieve local proof theoretic goals Labelling was used in many different areas such as resource labelling in relevance logics prefix tableaux in modal logics annotated logic programs in logic programming proof tracing in truth maintenance systems and various side annotations in higher order proof theory arithmetic and analysis This widespread local use of labels was an indication of an underlying logical pattern namely the simultaneous side by side manipulation of several kinds of logical information It was clear that there was a need to establish the labelled deductive systems methodology Modal logic is one major area where labelling can be developed quickly and systematically with a view of demonstrating its power and significant advantage In modal logic the labels can play a double role

*Proof Reconstruction in Classical and Non-Classical Logics* Stephanie Schmitt, 2000

### **Theorem Proving with**

**Analytic Tableaux and Related Methods**, 1996

Fibring Logics Dov M. Gabbay, 1998-11-05 Modern applications of logic in mathematics theoretical computer science and linguistics require combined systems involving many different logics working together In this book the author offers a basic methodology for combining or fibring systems This means that many existing complex systems can be broken down into simpler components hence making them much easier to manipulate Using this methodology the book discusses ways of obtaining a wide variety of multimodal modal intuitionistic modal substructural and fuzzy systems in a uniform way It also covers self fibred languages which allow formulae to apply to themselves The book also studies sufficient conditions for transferring properties of the component logics into properties of the combined system

Lectures on Intuitionistic Logic Anil Nerode, 1989

**Theories of Types and Proofs** Takahashi, Masako, 1998-12

Interpolation and Definability Dov M. Gabbay, Larisa Maksimova, 2005-05-12 This book is a specialized monograph on interpolation and definability a notion central in pure logic and with significant meaning and applicability in all areas where logic is applied especially computer science artificial intelligence logic programming philosophy of science and natural

language Suitable for researchers and graduate students in mathematics computer science and philosophy this is the latest in the prestigious world renowned Oxford Logic Guides which contains Michael Dummett's Elements of intuitionism second edition J M Dunn and G Hardegree's Algebraic Methods in Philosophical Logic H Rott's Change Choice and Inference A Study of Belief Revision and Nonmonotonic Reasoning P T Johnstone's Sketches of an Elephant A Topos Theory Compendium Volumes 1 and 2 and David J Pym and Eike Ritter's Reductive Logic and Proof Search Proof theory semantics and control

*Strongly Correlated Fermions and Bosons in Low-Dimensional Disordered Systems* Igor V. Lerner, Boris L.

Althuler, Vladimir I. Fal'ko, Thierry Giamarchi, 2002-07-31 The physics of strongly correlated fermions and bosons in a disordered environment and confined geometries is at the focus of intense experimental and theoretical research efforts Advances in material technology and in low temperature techniques during the last few years led to the discoveries of new physical phenomena of atomic gases and a possible metal phenomena including Bose condensation insulator transition in two dimensional high mobility electron structures Situations where the electronic system is so dominated by interactions that the old concepts of a Fermi liquid do not necessarily make a good starting point are now routinely achieved This is particularly true in the theory of low dimensional systems such as carbon nanotubes or in two dimensional electron gases in high mobility devices where the electrons can form a variety of new structures In many of these systems disorder is an unavoidable complication and lead to a host of rich physical phenomena This has pushed the forefront of fundamental research in condensed matter towards the edge where the interplay between many body correlations and quantum interference enhanced by disorder has become the key to the understanding of novel phenomena *Ein tableaubasierter*

*Theorembeweiser für die intuitionistische Logik* Oliver Bittel, 1991 *Logic and Logical Philosophy*, 2000 ACM

Transactions on Computational Logic, 2010 **Artificial Intelligence IV** Vasil Sgurev, 1990 *AI ...*, 2003 **Frontiers of Combining Systems 2** Dov M. Gabbay, Maarten de Rijke, 2000 Frontiers of Combining Systems 2 includes selected edited contributions from the Second International Workshop on Frontiers of Combining Systems This volume addresses both particular instances of the combination and integration problem and the general issue While covering a wide spectrum of disciplines and angles from systems and constraints to logical aspects theorem proving and rewriting there is a clear emphasis on automated tools and logics Jacket **Logique et analyse**, 1995 *The Many Sides of Logic* Walter Alexandre Carnielli, Marcelo E. Coniglio, Itala M. L. D'Ottaviano, 2009 The Many Sides of Logic is a volume containing a selection of the papers delivered at three simultaneous events held between 11-17 May 2008 in Paraty RJ Brazil continuing a tradition of three decades of Brazilian and Latin American meetings and celebrating the 30th anniversary of an institution congenial with the mature interest for logic epistemology and history of sciences in Brazil CLE 30 30th Anniversary of the Centre for Logic Epistemology and the History of Science at the State University of Campinas UNICAMP XV EBL 15th Brazilian Logic Conference XIV SLALM 14th Latin American Symposium on Mathematical Logic Several renowned logicians philosophers

and mathematicians gathered in colonial Paraty a historic village on the Brazilian coast founded in the 17th Century and surrounded by the lush Atlantic rain forest to deliver lectures and talks celebrating the many sides of logic the philosophical the mathematical the computational the historical and the multiple facets therein The topics of the joint conferences well represented here included philosophical and mathematical Logic and applications with emphasis on model theory and proof theory set theory non classical logics and applications history and philosophy of logic philosophy of the formal sciences and issues on the foundations of mathematics The events have been preceded by a Logic School planned for students and young researchers held at the UNICAMP campus in Campinas SP

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