

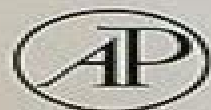
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Symbolic Logic and Mechanical Theorem Proving

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Symbolic Logic And Mechanical Theorem Proving

Jessica J Manson



Symbolic Logic And Mechanical Theorem Proving:

Symbolic Logic and Mechanical Theorem Proving Chin-Liang Chang, Richard Char-Tung Lee, 2014-06-28 This book contains an introduction to symbolic logic and a thorough discussion of mechanical theorem proving and its applications The book consists of three major parts Chapters 2 and 3 constitute an introduction to symbolic logic Chapters 4 9 introduce several techniques in mechanical theorem proving and Chapters 10 and 11 show how theorem proving can be applied to various areas such as question answering problem solving program analysis and program synthesis STACS 94 Patrice Enjalbert, Ernst W. Mayr, Klaus W. Wagner, 1994-02-09 This volume constitutes the proceedings of the 11th annual Symposium on Theoretical Aspects of Computer Science STACS 94 held in Caen France February 24 26 1994 Besides three prominent invited papers the proceedings contains 60 accepted contributions chosen by the international program committee during a highly competitive reviewing process from a total of 234 submissions for 38 countries The volume competently represents most areas of theoretical computer science with a certain emphasis on parallel algorithms and complexity

Using Sophisticated Models in Resolution Theorem Proving David M. Sandford, 1980-08 **Automated Theorem Proving: A Logical Basis** D.W. Loveland, 2016-08-19 Automated Theorem Proving A Logical Basis 7th International Conference on Automated Deduction R. E. Shostak, 2011-05-09 The Seventh International Conference on Automated Deduction was held May 14 16 1984 in Napa California The conference is the primary forum for reporting research in all aspects of automated deduction including the design implementation and applications of theorem proving systems knowledge representation and retrieval program verification logic programming formal specification program synthesis and related areas The presented papers include 27 selected by the program committee an invited keynote address by Jorg Siekmann and an invited banquet address by Patrick Suppes Contributions were presented by authors from Canada France Spain the United Kingdom the United States and West Germany The first conference in this series was held a decade earlier in Argonne Illinois Following the Argonne conference were meetings in Oberwolfach West Germany 1976 Cambridge Massachusetts 1977 Austin Texas 1979 Les Arcs France 1980 and New York New York 1982 Program Committee P Andrews CMU W W Bledsoe U Texas past chairman L Henschen Northwestern G Huet INRIA D Loveland Duke past chairman R Milner Edinburgh R Overbeek Argonne T Pietrzykowski Acadia D Plaisted U Illinois V Pratt Stanford R Shostak SRI chairman J Siekmann U Kaiserslautern R Waldinger SRI Local Arrangements R Schwartz SRI iv CONTENTS Monday Morning Universal Unification Keynote Address Jorg H Siekmann FRG Theorem Proving in Higher Order Logics Elsa L. Gunter, Amy Felty, 1997-08-06 This book constitutes the refereed proceedings of the 10th International Conference on Theorem Proving in Higher Order Logics TPHOLs 97 held in Murray Hill NJ USA in August 1997 The volume presents 19 carefully revised full papers selected from 32 submissions during a thorough reviewing process The papers cover work related to all aspects of theorem proving in higher order logics particularly based on secure mechanization of those logics the theorem proving

systems addressed include Coq HOL Isabelle LEGO and PVS *Natural Deduction, Hybrid Systems and Modal Logics*

Andrzej Indrzejczak, 2010-07-03 A good title should be informative enough to illuminate a potential reader on the content of a book We hope that the present title gives at least some hints of what this book is about The notion of natural deduction or modal logic are rather well known but the notion of hybrid system certainly needs some explanation In short this study may be seen as a kind of search for good deductive systems We think of systems good in practice which may be applied with ease not only by well trained logicians but also for example by philosophers who need handy deductive tools accompanying their analyses In particular we are interested in providing systems that may be widely applied in teaching logic Nowadays one may observe that several courses in critical thinking tend to eliminate courses in practical logic On the other hand logic is often taught as a strictly mathematical discipline in very demanding courses It is important to fill the gap between these extrema and the crucial ingredient of any course which is supposed to teach how to use logic is certainly a suitable deductive system Since we address this work to a wide audience interested in applications of logic we were trying to make it self contained and accessible to a reader with no hard training in logic The assumed reader should have some background in logic an elementary course covering classical propositional and first order logic with basics of set theory is enough but not necessarily in modal logic

Mechanization of Reasoning in a Historical Perspective, 2023-03-13 This volume is written jointly by Witold Marciszewski who contributed the introductory and the three subsequent chapters and Roman Murawski who is the author of the next ones those concerned with the 19th century and the modern inquiries into formalization algebraization and mechanization of reasonings Besides the authors there are other persons as well as institutions to whom the book owes its coming into being The study which resulted in this volume was carried out in the Historical Section of the research project Logical Systems and Algorithms for Automatic Testing of Reasoning 1986-1990 in which participated nine Polish universities the project was coordinated by the Department of Logic Methodology and Philosophy of Science of the Białystok Branch of the University of Warsaw and supported by the Ministry of Education some of its results are reported in Szrednicki Ed 1987 The major part of the project was focussed on the software for computer aided theorem proving called Mizar MSE Multi Sorted first order logic with Equality reported in Marciszewski 1994a due to Dr Andrzej Trybulec He and other colleagues deserve a grateful mention for a hands on experience and theoretical stimulants owed to their collaboration

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Per Martin-Löf, Grigori Mints, 1990-02-21 This volume contains several invited papers as well as a selection of the other contributions The conference was the first meeting of the Soviet logicians interested in computer science with their Western counterparts The papers report new results and techniques in applications of deductive systems deductive program synthesis and analysis computer experiments in logic related fields theorem proving and logic programming It provides access to intensive work on computer logic both in the USSR and in Western countries Automated Deduction -CADE-13 Michael A. McRobbie, J.K. Slaney, 1996-07 This book constitutes the refereed proceedings of the 13th International Conference on

Automated Deduction CADE 13 held in July August 1996 in New Brunswick NJ USA as part of FLoC 96 The volume presents 46 revised regular papers selected from a total of 114 submissions in this category also included are 15 selected system descriptions and abstracts of two invited talks The CADE conferences are the major forum for the presentation of new results in all aspects of automated deduction Therefore the volume is a timely report on the state of the art in the area

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