

LOGIC FOR COMPUTER SCIENCE

Foundations of Automatic Theorem Proving
Jean H. Gallier



SECOND EDITION

Logic For Computer Science Foundations Of Automatic Theorem Proving

SINGH, ARINDAMA



Logic For Computer Science Foundations Of Automatic Theorem Proving:

Logic for Computer Science Jean H. Gallier, 2000 *Logic for Computer Science* , **Logic for Computer Science** Jean H. Gallier, 2015-05-18 This advanced text for undergraduate and graduate students introduces mathematical logic with an emphasis on proof theory and procedures for algorithmic construction of formal proofs The self contained treatment is also useful for computer scientists and mathematically inclined readers interested in the formalization of proofs and basics of automatic theorem proving Topics include propositional logic and its resolution first order logic Gentzen s cut elimination theorem and applications and Gentzen s sharpened Hauptsatz and Herbrand s theorem Additional subjects include resolution in first order logic SLD resolution logic programming and the foundations of PROLOG and many sorted first order logic Numerous problems appear throughout the book and two Appendixes provide practical background information 9th International Conference on Automated Deduction Ewing Lusk, Ross Overbeek, 1988-05-04 This volume contains the papers presented at the Ninth International Conference on Automated Deduction CADE 9 held May 23 26 at Argonne National Laboratory Argonne Illinois The conference commemorates the twenty fifth anniversary of the discovery of the resolution principle which took place during the summer of 1963 The CADE conferences are a forum for reporting on research on all aspects of automated deduction including theorem proving logic programming unification deductive databases term rewriting ATP for non standard logics and program verification All papers submitted to the conference were refereed by at least two referees and the program committee accepted the 52 that appear here Also included in this volume are abstracts of 21 implementations of automated deduction systems *LOGICS FOR COMPUTER SCIENCE, SECOND EDITION* SINGH, ARINDAMA, 2018-06-01 Designed primarily as an introductory text on logic for computer science this well organized book deals with almost all the basic concepts and techniques that are pertinent to the subject It provides an excellent understanding of the logics used in computer science today Starting with the logic of propositions it gives a detailed coverage of first order logic and modal logics It discusses various approaches to the proof theory of the logics e g axiomatic systems natural deduction systems Gentzen systems analytic tableau and resolution It deals with an important application of logic to computer science namely verification of programs The book gives the flavour of logic engineering through computation tree logic a logic of model checking The book concludes with a fairly detailed discussion on nonstandard logics including intuitionistic logic Lukasiewicz logics default logic autoepistemic logic and fuzzy logic The Second Edition includes applications of compactness theorem to many interesting problems relevant to mathematics and computer science It also presents the undecidability of first order logic inexpressibility of truth and incompleteness of Peano s Arithmetic in a comprehensive and lively manner Besides students of Computer Science those offering courses in Mathematics and Philosophy would greatly benefit from this study **KEY FEATURES** Provides numerous worked out examples which not only illustrate the concepts and theory developed but also give a lead to the succeeding notions Exercises at the end of each

section aim at reinforcing and mastering the techniques raising issues and preparing background for further development of the subject Problems of theoretical nature which are important for learning the subject are included at the end of each chapter The reader is constantly provoked to work out the details promoting interactive learning

Logic for Computer Scientists Uwe Schöningh, 2009-11-03 By the development of new fields and applications such as Automated Theorem Proving and Logic Programming Logic has obtained a new and important role in Computer Science The traditional mathematical way of dealing with Logic is in some respect not tailored for Computer Science applications This book emphasizes such Computer Science aspects in Logic It arose from a series of lectures in 1986 and 1987 on Computer Science Logic at the EWH University in Koblenz Germany The goal of this lecture series was to give the undergraduate student an early and theoretically well founded access to modern applications of Logic in Computer Science A minimal mathematical basis is required such as an understanding of the notation and knowledge about the basic mathematical proof techniques induction More sophisticated mathematical knowledge not a precondition read this book Acquaintance with some conventional programming language PASCAL assumed Several people helped in various ways in the preparation process of the original German version of this book Johannes Kriebler Eveline and Rainer Schuler and Hermann Engesser from B I Wissenschaftsverlag Regarding the English version I want to express my deep gratitude to Prof Ronald Book Without him this translated version of the book would not have been possible

First-Order Logic and Automated Theorem Proving Melvin Fitting, 2012-12-06 There are many kinds of books on formal logic Some have philosophers as their intended audience some mathematicians some computer scientists Although there is a common core to all such books they will be very different in emphasis methods and even appearance This book is intended for computer scientists But even this is not precise Within computer science formal logic turns up in a number of areas from program verification to logic programming to artificial intelligence This book is intended for computer scientists interested in automated theorem proving in classical logic To be more precise yet it is essentially a theoretical treatment not a how to book although how to issues are not neglected This does not mean of course that the book will be of no interest to philosophers or mathematicians It does contain a thorough presentation of formal logic and many proof techniques and as such it contains all the material one would expect to find in a course in formal logic covering completeness but not incompleteness issues The first item to be addressed is What are we talking about and why are we interested in it We are primarily talking about truth as used in mathematical discourse and our interest in it is or should be self evident Truth is a semantic concept so we begin with models and their properties These are used to define our subject

Logics for Computer and Data Sciences, and Artificial Intelligence Lech T. Polkowski, 2022-01-01 This volume offers the reader a systematic and throughout account of branches of logic instrumental for computer science data science and artificial intelligence Addressed in it are propositional predicate modal epistemic dynamic temporal logics as well as applicable in data science many valued logics and logics of concepts rough logics It offers a look into second order logics and

approximate logics of parts The book concludes with appendices on set theory algebraic structures computability complexity MV algebras and transition systems automata and formal grammars By this composition of the text the reader obtains a self contained exposition that can serve as the textbook on logics and relevant disciplines as well as a reference text **Logic:**

Reference Book for Computer Scientists Lech T. Polkowski, 2023-10-03 The book gives all interested in computer science a deep review of relevant aspects of logic In its scope are classical and non classical logics The content will be valid as well for those interested in linguistic philosophy and many other areas of research both in humane and technical branches of science as logic permeates all genuine realms of science The book contains a substantial part of classical results in logic like those by G del Tarski Church and Rosser as well as later developments like many valued logics logics for knowledge engineering first order logics plus inductive definitions The exposition is rigorous yet without unnecessary abstractionism so it should be accessible to readers from many disciplines of science Each chapter contains a problem section and problems are borrowed from research publications which allows for passing additional information and it allows readers to test their skills Extensive bibliography of 270 positions directs readers to research works of importance *Logics in Artificial*

Intelligence Michael Fisher, Wiebe van der Hoek, Boris Konev, Alexei Lisitsa, 2006-09-14 This book constitutes the refereed proceedings of the 10th European Conference on Logics in Artificial Intelligence JELIA 2006 The 34 revised full papers and 12 revised tool description papers presented together with 3 invited talks were carefully reviewed and selected from 96 submissions The papers cover a range of topics within the remit of the Conference such as logic programming description logics non monotonic reasoning agent theories automated reasoning and machine learning **Machine Learning:**

ECML-93 Pavel B. Brazdil, 1993-03-23 This volume contains the proceedings of the European Conference on Machine Learning ECML 93 continuing the tradition of the five earlier EWSLs European Working Sessions on Learning The aim of these conferences is to provide a platform for presenting the latest results in the area of machine learning The ECML 93 programme included invited talks selected papers and the presentation of ongoing work in poster sessions The programme was completed by several workshops on specific topics The volume contains papers related to all these activities The first chapter of the proceedings contains two invited papers one by Ross Quinlan and one by Stephen Muggleton on inductive logic programming The second chapter contains 18 scientific papers accepted for the main sessions of the conference The third chapter contains 18 shorter position papers The final chapter includes three overview papers related to the ECML 93 workshops The Programming and Proof System ATES Armand Puccetti, 2013-11-11 Today people use a large number of

systems ranging in complexity from washing machines to international airline reservation systems Computers are used in nearly all such systems accuracy and security are becoming increasingly essential The design of such computer systems should make use of development methods as systematic as those used in other engineering disciplines A systematic development method must provide a way of writing specifications which are both precise and concise it must also supply a

way of relating design to specification A concise specification can be achieved by restricting attention to what a system has to do all considerations of implementation details are postponed With computer systems this is done by 1 building an abstract model of the system operations being specified by pre and post conditions 2 defining languages by mapping program texts onto some collection of objects modelizing the concepts of the system to be dealt with whose meaning is understood 3 defining complex data objects in terms of abstractions known from mathematics This last topic the use of abstract data types pervades all work on specifications and is necessary in order to apply ideas to systems of significant complexity The use of mathematics based notations is the best way to achieve precision

1 ABSTRACT DATA TYPES PROOF TECHNIQUES From a practical point of view a solution to these three problems consists to introduce abstract data types in the programming languages and to consider formal proof methods

Handbook of Automated Reasoning Alan J.A. Robinson, Andrei Voronkov, 2001-06-21

Handbook of Automated Reasoning *Discrete Structures* Andreas Klappenecker, Hyunyoung Lee, 2025-02-18 The aim of this text is to introduce discrete mathematics to beginning students of mathematics or computer science It does this by bringing some coherency into the seemingly incongruent subjects that compose discrete math such as logic set theory algebra and combinatorics It emphasizes their theoretical foundations and illustrates proofs along the way The book prepares readers for the analysis of algorithms by discussing asymptotic analysis and a discrete calculus for sums The book also deduces combinatorial methods from the foundations that are laid out Unlike other texts on this subject there is a greater emphasis on foundational material that leads to a better understanding To further assist the reader in grasping and practicing concepts roughly 690 exercises are provided at various levels of difficulty Readers are encouraged to study the examples in the text and solve as many of the exercises as possible The text is intended for freshman or sophomore undergraduate students in mathematics computer science or similar majors The assumed background is precalculus The chapter dependency chart included is designed to help students independent readers and instructors follow a systematic path for learning and teaching the material with the option to explore material in later chapters

Logical Number Theory I Craig Smorynski, 2012-12-06 Number theory as studied by the logician is the subject matter of the book This first volume can stand on its own as a somewhat unorthodox introduction to mathematical logic for undergraduates dealing with the usual introductory material recursion theory first order logic completeness incompleteness and undecidability In addition its second chapter contains the most complete logical discussion of Diophantine Decision Problems available anywhere taking the reader right up to the frontiers of research yet remaining accessible to the undergraduate The first and third chapters also offer greater depth and breadth in logico arithmetical matters than can be found in existing logic texts Each chapter contains numerous exercises historical and other comments aimed at developing the student s perspective on the subject and a partially annotated bibliography

Automated Deduction - CADE-20 Robert Nieuwenhuis, 2005-07-14 This book constitutes the refereed proceedings of the 20th International Conference on Automated Deduction CADE 20 held in Tallinn

Estonia in July 2005 The 25 revised full papers and 5 system descriptions presented were carefully reviewed and selected from 78 submissions All current aspects of automated deduction are addressed ranging from theoretical and methodological issues to presentation and evaluation of theorem provers and logical reasoning systems **Software Engineering 1** Dines Bjørner, 2007-06-01 The art craft discipline logic practice and science of developing large scale software products needs a believable professional base The textbooks in this three volume set combine informal engineeringly sound practice with the rigour of formal mathematics based approaches Volume 1 covers the basic principles and techniques of formal methods abstraction and modelling First this book provides a sound but simple basis of insight into discrete mathematics numbers sets Cartesian types functions the Lambda Calculus algebras and mathematical logic Then it trains its readers in basic property and model oriented specification principles and techniques The model oriented concepts that are common to such specification languages as B VDM SL and Z are explained here using the RAISE specification language RSL This book then covers the basic principles of applicative functional imperative and concurrent parallel specification programming Finally the volume contains a comprehensive glossary of software engineering and extensive indexes and references These volumes are suitable for self study by practicing software engineers and for use in university undergraduate and graduate courses on software engineering Lecturers will be supported with a comprehensive guide to designing modules based on the textbooks with solutions to many of the exercises presented and with a complete set of lecture slides **Fourth NASA Langley Formal Methods Workshop** ,1997 *ML for the Working Programmer* Larry C. Paulson, 1996-06-28 The new edition of this successful and established textbook retains its two original intentions of explaining how to program in the ML language and teaching the fundamentals of functional programming The major change is the early and prominent coverage of modules which are extensively used throughout In addition the first chapter has been totally rewritten to make the book more accessible to those without experience of programming languages The main features of new Standard Library for the revised version of ML are described and many new examples are given while references have also been updated Dr Paulson has extensive practical experience of ML and has stressed its use as a tool for software engineering the book contains many useful pieces of code which are freely available via the Internet from the author He shows how to use lists trees higher order functions and infinite data structures Many illustrative and practical examples are included Efficient functional implementations of arrays queues priority queues etc are described Larger examples include a general top down parser a lambda calculus reducer and a theorem prover The combination of careful explanation and practical advice will ensure that this textbook continues to be the preferred text for many courses on ML **ML for the Working Programmer** Lawrence C. Paulson, 1996-06-28 Software Programming Languages

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