

# Deontic Logic In Computer Science

Logic in Computer Science  
Logic for Computer Scientists  
Mathematical Logic for Computer Science  
Mathematical Logic For Computer Science (2nd Edition)  
Logic And Language Models For Computer Science (Third Edition)  
Mathematical Logic For Computer Science  
Essential Logic for Computer Science  
Mathematical Logic in Computer Science  
Logics for Computer Science  
Logic and Computer Design Fundamentals  
Logic for Computer Science  
Logic for Computer Science and Artificial Intelligence  
Lectures on the Logic of Computer Programming  
Logic for Applications  
Applied Logic for Computer Scientists  
Logic and Computer Science  
Logic from Computer Science  
Handbook of Logic and Proof Techniques for Computer Science  
Axiomatising the Logic of Computer Programming  
Logic and Computer Design Fundamentals  
Michael Huth Uwe Schöning Mordechai Ben-Ari Zhongwan Lu Dana Richards Zhongwan Lu Rex Page B. Dömölki Anita Wasilewska M. Morris Mano Steve Reeves Ricardo Caferra Zohar Manna Anil Nerode Mauricio Ayala-Rincón Piergiorgio Odifreddi Yiannis N. Moschovakis Steven G. Krantz R. Goldblatt M. Morris Mano

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recent years have seen the development of powerful tools for verifying hardware and software systems as companies worldwide realise the need for improved means of validating their products there is increasing demand for training in basic methods in formal reasoning so that students can gain proficiency in logic based verification methods the second edition of this successful textbook addresses both those

requirements by continuing to provide a clear introduction to formal reasoning which is both relevant to the needs of modern computer science and rigorous enough for practical application improvements to the first edition have been made throughout with extra and expanded sections on sat solvers existential universal second order logic micro models programming by contract and total correctness the coverage of model checking has been substantially updated further exercises have been added internet support for the book includes worked solutions for all exercises for teachers and model solutions to some exercises for students

this book introduces the notions and methods of formal logic from a computer science standpoint covering propositional logic predicate logic and foundations of logic programming the classic text is replete with illustrative examples and exercises it presents applications and themes of computer science research such as resolution automated deduction and logic programming in a rigorous but readable way the style and scope of the work rounded out by the inclusion of exercises make this an excellent textbook for an advanced undergraduate course in logic for computer scientists

mathematical logic for computer science is a mathematics textbook with theorems and proofs but the choice of topics has been guided by the needs of students of computer science the method of semantic tableaux provides an elegant way to teach logic that is both theoretically sound and easy to understand the uniform use of tableaux based techniques facilitates learning advanced logical systems based on what the student has learned from elementary systems the logical systems presented are propositional logic first order logic resolution and its application to logic programming hoare logic for the verification of sequential programs and linear temporal logic for the verification of concurrent programs the third edition has been entirely rewritten and includes new chapters on central topics of modern computer science sat solvers and model checking

mathematical logic is essentially related to computer science this book describes the aspects of mathematical logic that are closely related to each other including classical logic constructive logic and modal logic this book is intended to attend to both the peculiarities of logical systems and the requirements of computer science in this edition the revisions essentially involve rewriting the proofs increasing the explanations and adopting new terms and notations

this text presents the formal concepts underlying computer science it starts with a wide introduction to logic with an emphasis on reasoning and proof with chapters on program verification and prolog the treatment of computability with automata and formal languages stands out in several ways the style is appropriate for both undergraduate and graduate classes

this book describes the aspects of mathematical logic related to computer sciences the materials adopted in this book are intended to attend to both the peculiarities of logical systems and the requirements of computer science

an introduction to applying predicate logic to testing and verification of software and digital circuits that focuses on applications rather than theory computer scientists use logic for testing and verification of software and digital circuits but many computer science students study logic only in the context of traditional mathematics encountering the subject in a few lectures and a handful of problem sets in a discrete math course this book offers a more substantive and rigorous approach to logic that focuses on applications in computer science topics covered include predicate logic equation based software automated testing and theorem proving and large scale computation formalism is emphasized and the book employs three formal notations traditional algebraic formulas of propositional and predicate logic digital circuit diagrams and the widely used partially automated theorem prover `acl2` which provides an accessible introduction to mechanized formalism for readers who want to see formalization in action the text presents examples using `proof pad` a lightweight `acl2` environment readers will not become `acl2` experts but will learn how mechanized logic can benefit software and hardware engineers in addition 180 exercises some of them extremely challenging offer opportunities for problem solving there are no prerequisites beyond high school algebra programming experience is not required to understand the book's equation based approach the book can be used in undergraduate courses in logic for computer science and introduction to computer science and in math courses for computer science students

providing an in depth introduction to fundamental classical and non classical logics this textbook offers a comprehensive survey of logics for computer scientists logics for computer science contains intuitive introductory chapters explaining the need for logical investigations motivations for different types of logics and some of their history they are followed by strict formal approach chapters all chapters contain many detailed examples explaining each of the introduced notions and definitions well chosen sets of exercises with carefully written solutions and sets of homework while many logic books are available they were written by logicians for logicians not for computer scientists they usually choose one particular way of presenting the material and use a specialized language logics for computer science discusses gentzen as well as hilbert formalizations first order theories the hilbert program godel's first and second incompleteness theorems and their proofs it also introduces and discusses some many valued logics modal logics and introduces algebraic models for classical intuitionistic and modal  $s_4$  and  $s_5$  logics the theory of computation is based on concepts defined by logicians and mathematicians logic plays a fundamental role in computer science and

this book explains the basic theorems as well as different techniques of proving them in classical and some non classical logics important applications derived from concepts of logic for computer technology include artificial intelligence and software engineering in addition to computer science this book may also find an audience in mathematics and philosophy courses and some of the chapters are also useful for a course in artificial intelligence

based on the book computer engineering hardware design 1988 which presented the same combined treatment of logic design digital system design and computer design basics because of its broad coverage of both logic and computer design this text can be used to provide an overview of logic and computer hardware for computer science computer engineering electrical engineering or engineering students in general annotation copyright by book news inc portland or

an understanding of logic is essential to computer science this book provides a highly accessible account of the logical basis required for reasoning about computer programs and applying logic in fields like artificial intelligence the text contains extended examples algorithms and programs written in standard ml and prolog no prior knowledge of either language is required the book contains a clear account of classical first order logic one of the basic tools for program verification as well as an introductory survey of modal and temporal logics and possible world semantics an introduction to intuitionistic logic as a basis for an important style of program specification is also featured in the book

logic and its components propositional first order non classical play a key role in computer science and artificial intelligence while a large amount of information exists scattered throughout various media books journal articles webpages etc the diffuse nature of these sources is problematic and logic as a topic benefits from a unified approach logic for computer science and artificial intelligence utilizes this format surveying the tableaux resolution davis and putnam methods logic programming as well as for example unification and subsumption for non classical logics the translation method is detailed logic for computer science and artificial intelligence is the classroom tested result of several years of teaching at grenoble inp ensimag it is conceived to allow self instruction for a beginner with basic knowledge in mathematics and computer science but is also highly suitable for use in traditional courses the reader is guided by clearly motivated concepts introductions historical remarks side notes concerning connections with other disciplines and numerous exercises complete with detailed solutions the title provides the reader with the tools needed to arrive naturally at practical implementations of the concepts and techniques discussed allowing for the design of algorithms to solve problems

this monograph deals with aspects of the computer programming process that involve techniques derived from mathematical logic the author focuses on proving that a given program produces the intended result whenever it halts that a given program will eventually halt that a given program is partially correct and terminates and that a system of rewriting rules always halts also the author describes the intermediate behavior of a given program and discusses constructing a program to meet a given specification

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 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

this book provides an introduction to logic and mathematical induction which are the basis of any deductive computational framework a strong mathematical foundation of the logical engines available in modern proof assistants such as the pvs verification system is essential for computer scientists mathematicians and engineers to increment their capabilities to provide formal proofs of theorems and to certify the robustness of software and hardware systems the authors present a concise overview of the necessary computational and mathematical aspects of logic placing emphasis on both natural deduction and sequent calculus differences between constructive and classical logic are highlighted through several examples and exercises without neglecting classical aspects of computational logic the authors also highlight the connections between logical deduction rules and proof commands in proof assistants presenting simple examples of formalizations of the correctness of algebraic functions and algorithms in pvs applied logic for computer scientists will not only benefit students of

computer science and mathematics but also software hardware automation electrical and mechatronic engineers who are interested in the application of formal methods and the related computational tools to provide mathematical certificates of the quality and accuracy of their products and technologies

the application of mathematical logic to computer science continues to be of major importance in the development of more advanced systems in this book a combination of survey chapters and applications work is presented particularly concentrating on lamda calculus typed functional programming and theorem provers

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 commu nity 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 a calculus or finite model theory in terms of its potential applications rather than its often more ob vious 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

logic is and should be the core subject area of modern mathemat ics 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 special ist 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 bar wise is in point of fact a handbook written by logicians for other mathe maticians 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

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