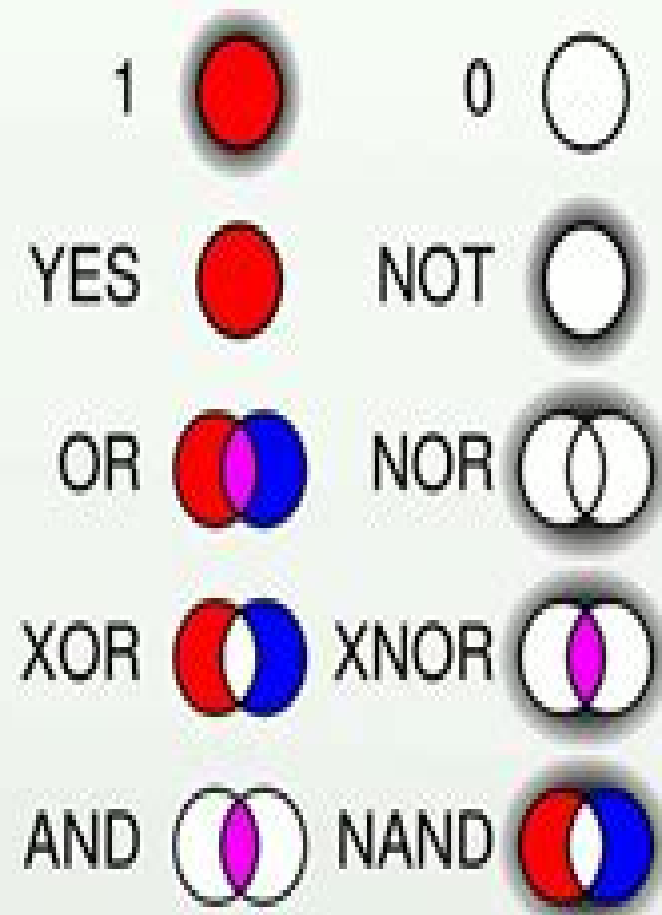


Logic in computer science



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Zhongwan Lu



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Logic in Computer Science Hantao Zhang,Jian Zhang,2025-01-11 Mathematical logic is an important basis for mathematics computer science and artificial intelligence alike This book provides a comprehensive introduction to various logics including classical propositional logic and first order predicate logic as well as equational logic temporal logic and Hoare logic In addition it presents proof procedures for classical logics and decision procedures for checking the satisfiability of logical formulas The book assumes no background in logic It presents logics as practical tools for solving various problems in artificial intelligence and formal verification Accordingly it is well suited for junior and senior undergraduate and graduate students majoring in computer science or mathematics Each chapter includes roughly a dozen exercise problems so as to help the reader understand the concepts and techniques discussed

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Logic And Language Models For Computer Science (Third Edition) Dana Richards,Henry Hamburger,2017-09-08 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

Computer Science Logic Leszek Pacholski,Jerzy Tiuryn,1995-07-18 This volume

contains revised refereed versions of the best papers presented during the CSL 94 conference held in Kazimierz Poland in September 1994 CSL 94 is the eighth event in the series of workshops held for the third time as the Annual Conference of the European Association for Computer Science Logic The 38 papers presented were selected from a total of 151 submissions All important aspects of the methods of mathematical logic in computer science are addressed lambda calculus proof theory finite model theory logic programming semantics category theory and other logical systems Together these papers give a representative snapshot of the area of logical foundations of computer science

Logic in Computer Science Michael Huth, Mark Ryan, 2004-08-26 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

Mathematical Logic for Computer Science Mordechai Ben-Ari, 2012-06-17 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

Essential Logic for Computer Science Rex Page, Ruben Gamboa, 2019-01-08 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 ALC2 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

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Wasilewska,2018-11-03 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 S4 and S5 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

Mathematical Logic in Computer Science B. Dömölki,T. Gergely,1981-02-12 This volume contains 31 papers prepared for the Colloquium on Mathematical Logic in Programming held in Salg tarj n Hungary Main topics of the Colloquium include Model theoretical universal algebra and category theoretical approaches to program semantics Logical and model theoretical approaches to program verification data representation and problem specification Logical and model theoretical approaches to theorem proving automatic programming and automatic problem solving Very high level logical based programming languages

Logic for Computer Science Steve Reeves,Michael Clarke,1990 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 for Mathematics and Computer Science Stanley Burris, 1998 This text is intended for one semester courses in Logic it can also be applied to a two semester course in either Computer Science or Mathematics Departments Unlike other texts on mathematical logic that are either too advanced too sparse in examples or exercises too traditional in coverage or too philosophical in approach this text provides an elementary hands on presentation of important mathematical logic topics new and old that is readily accessible and relevant to all students of the mathematical sciences not just those in traditional pure mathematics

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

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 and Computer Design Fundamentals** M. Morris Mano, Charles R. Kime, 2004 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 Logic and Discrete Mathematics Winfried Karl Grassmann, Jean-Paul Tremblay, 1996 For one two semester sophomore level courses in Discrete Mathematics This text covers all the traditional topics of discrete mathematics logic sets relations functions and graphs and reflects recent trends in computer science **Logic and Computer Science** Piergiorgio Odifreddi, 1990 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 lambda calculus typed functional programming and theorem provers **Logic in Computer Science**, 1992

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