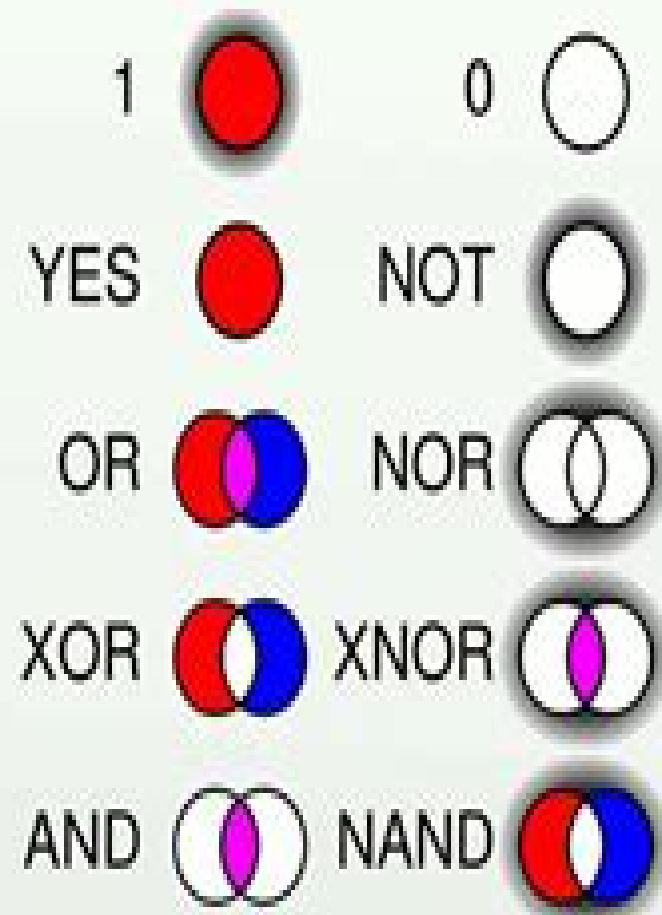


Logic in computer science



Logic From Computer Science

Xiaolong Qi



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Logic for Computer Scientists Uwe Schöning, 2008-01-11 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 (2nd Edition) Zhongwan Lu, 1998-08-22 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

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

Mathematical Logic for Computer Science Zhongwan Lu, 1998 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

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 *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 **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 **Mathematical Logic for Computer Science** Zhongwan Lu,1989 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 **Mathematical Logic for Computer Science** Mordechai Ben-Ari, 2001 This is a mathematics textbook with theorems and proofs The choice of topics has been guided by the needs of computer science students The method of semantic tableaux provides an elegant way to teach logic that is both theoretically sound and yet sufficiently elementary for undergraduates In order to provide a balanced treatment of logic tableaux are related to deductive proof systems The book presents various logical systems and contains exercises Still further Prolog source code is available on an accompanying Web site The author is an Associate Professor at the Department of Science Teaching Weizmann Institute of Science Logics for Computer Science Anita 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 **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 Handbook of Logic and Proof Techniques for Computer Science Steven G. Krantz, 2012-12-06 Logic is and should be the core subject area of modern mathematics 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 specialist 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 Barwise is in point of fact a handbook written by logicians for other mathematicians 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

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

Logical Foundations of Computer Science S. I. Adian, 1997-05-28 A Sobolev gradient of a real valued functional is a gradient of that functional taken relative to the underlying Sobolev norm This book shows how descent methods using such gradients allow a unified treatment of a wide variety of problems in differential equations Equal emphasis is placed on numerical and theoretical matters Several concrete applications are made to illustrate the method These applications include 1 Ginzburg Landau functionals of superconductivity 2 problems of transonic flow in which type depends locally on nonlinearities and 3 minimal surface problems Sobolev gradient constructions rely on a study of orthogonal projections onto graphs of closed densely defined linear transformations from one Hilbert space to another These developments use work of Weyl von Neumann and Beurling

Computer Science Logic, 2003 **Logic, Mathematics, and Computer Science** Yves Nievergelt, 2015-10-13 This text for the first or second year undergraduate in mathematics logic computer science or social sciences introduces the reader to logic proofs sets and number theory It also serves as an excellent independent study reference and resource for instructors Adapted from Foundations of Logic and Mathematics Applications to Science and Cryptography 2002 Birkhäuser this second edition provides a modern introduction to the foundations of logic mathematics and computers science developing the theory that demonstrates construction of all mathematics and theoretical computer science from logic and set theory The focus is on foundations with specific statements of all the associated axioms and rules of logic and set theory and provides complete details and derivations of formal proofs Copious references to literature that document historical development is also provided Answers are found to many questions that usually remain unanswered

Why is the truth table for logical implication so unintuitive Why are there no recipes to design proofs Where do these numerous mathematical rules come from What issues in logic mathematics and computer science still remain unresolved And the perennial question In what ways are we going to use this material Additionally the selection of topics presented reflects many major accomplishments from the twentieth century and includes applications in game theory and Nash's equilibrium Gale and Shapley's match making algorithms Arrow's Impossibility Theorem in voting to name a few From the reviews of the first edition All the results are proved in full detail from first principles remarkably the arithmetic laws on the rational numbers are proved step after step starting from the very definitions This is a valuable reference text and a useful companion for anybody wondering how basic mathematical concepts can be rigorously developed within set theory

MATHEMATICAL REVIEWS Rigorous and modern in its theoretical aspect attractive as a detective novel in its applied aspects this paper book deserves the attention of both beginners and advanced students in mathematics logic and computer sciences as well as in social sciences Zentralblatt MATH

Computer Science Logic Leszek Pacholski, Jerzy Tiuryn, 1995

Logic for Computer Science and Artificial Intelligence Ricardo Caferra, 2011-08-15

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

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

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