



mathematical logic and theoretical computer science

Edited by
David M. Barker
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Carl H. Smith

Mathematical Logic And Theoretical Computer Science

Jan Van Eijck



Mathematical Logic And Theoretical Computer Science:

Mathematical Logic and Theoretical Computer Science Kueker, 1986-12-22 This book includes articles on denotational semantics recursion theoretic aspects of computer science model theory and algebra automata and automated reasoning stability theory topology and mathematics and topology and logic It is intended for mathematical logicians and computer scientists

Computability, Complexity, and Languages Martin Davis, Ron Sigal, Elaine J. Weyuker, 1994-03-18 Computability Complexity and Languages is an introductory text that covers the key areas of computer science including recursive function theory formal languages and automata It assumes a minimal background in formal mathematics The book is divided into five parts Computability Grammars and Automata Logic Complexity and Unsolvability Computability theory is introduced in a manner that makes maximum use of previous programming experience including a universal program that takes up less than a page The number of exercises included has more than tripled Automata theory computational logic and complexity theory are presented in a flexible manner and can be covered in a variety of different arrangements

Mathematical Logic and Theoretical Computer Science David Kueker, 2017-11-06 **Mathematical Logic and Theoretical Computer Science** covers various topics ranging from recursion theory to Zariski topology Leading international authorities discuss selected topics in a number of areas including denotational semantics recursion theoretic aspects of computer science model theory and algebra Automata and automated reasoning stability theory topology and mathematics and topology and logic The most up to date review available in its field **Mathematical Logic and Theoretical Computer Science** will be of interest to mathematical logicians computer scientists algebraists algebraic geometers differential geometers differential topologists and graduate students in mathematics and computer science

Basic Proof Theory A. S. Troelstra, H. Schwichtenberg, 2000-07-27 This introduction to the basic ideas of structural proof theory contains a thorough discussion and comparison of various types of formalization of first order logic Examples are given of several areas of application namely the metamathematics of pure first order logic intuitionistic as well as classical the theory of logic programming category theory modal logic linear logic first order arithmetic and second order logic In each case the aim is to illustrate the methods in relatively simple situations and then apply them elsewhere in much more complex settings There are numerous exercises throughout the text In general the only prerequisite is a standard course in first order logic making the book ideal for graduate students and beginning researchers in mathematical logic theoretical computer science and artificial intelligence For the new edition many sections have been rewritten to improve clarity new sections have been added on cut elimination and solutions to selected exercises have been included

Finite Model Theory and Its Applications Erich Grädel, Phokion G. Kolaitis, Leonid Libkin, Maarten Marx, Joel Spencer, Moshe Y. Vardi, Yde Venema, Scott Weinstein, 2007-04-24 Finite model theory as understood here is an area of mathematical logic that has developed in close connection with applications to computer science in particular the theory of computational complexity and database theory One of the fundamental insights of mathematical logic is that our

understanding of mathematical phenomena is enriched by elevating the languages we use to describe mathematical structures to objects of explicit study. If mathematics is the science of patterns then the media through which we discern patterns as well as the structures in which we discern them command our attention. It is this aspect of logic which is most prominent in model theory, the branch of mathematical logic which deals with the relation between a formal language and its interpretations. No wonder then that mathematical logic and model theory in particular should find manifold applications in computer science from specifying programs to querying databases. Computer science is rife with phenomena whose understanding requires close attention to the interaction between language and structure. This volume gives a broad overview of some central themes of model theory: expressive power, descriptive complexity and zero-one laws together with selected applications to database theory and artificial intelligence: especially constraint databases and constraint satisfaction problems. The final chapter provides a concise modern introduction to modal logic which emphasizes the continuity in spirit and technique with model theory.

People & Ideas in Theoretical Computer Science Cristian Calude, 1999

Theory and theoreticians have played a major role in computer science. Many insights into the nature of efficient computations were gained and theory was crucial for some of the most celebrated engineering triumphs of computer science: e.g. in compiler design, databases, multitask operating systems to name just a few. Theoretical computer science (TCS) functions as a communication bridge between computer science and other subjects: notably mathematics, linguistics, biology. It is a champion in developing unconventional models of computation: DNA, quantum. This book collects personal accounts and reflections of fourteen eminent scientists who have dedicated themselves to the craft of TCS. Contributions focus on authors' specific interests, experiences and reminiscences. The emerging picture, which is just one among other possible ones, should be a catalyst for further developments and continuations. Was most interested to learn about the project which should be a worthwhile one. N. Chomsky, MIT. The human story of creativity is inspiring and documents a very noble activity: the creation of knowledge in its most beautiful and useful form: the creation of a science. Supplying the technical and intellectual tools to probe some of the most fascinating questions about the nature of thought and intelligence: theoretical computer science is trying to grasp the limits of rational thought, the limits of knowable. This book will contribute to the understanding of the creation of a magnificent science. J. Hartmanis, NSF. This is obviously an extremely worthwhile project. D. E. Knuth, Stanford University.

Basic Proof Theory Anne Sjerp Troelstra, Helmut Schwichtenberg, 2000. Introduction to proof theory and its applications in mathematical logic, theoretical computer science and artificial intelligence.

Logic and Complexity Richard Lassaigne, Michel de Rougemont, 2012-12-06. Logic and Complexity looks at basic logic as it is used in Computer Science and provides students with a logical approach to Complexity theory. With plenty of exercises, this book presents classical notions of mathematical logic such as decidability, completeness and incompleteness as well as new ideas brought by complexity theory such as NP-completeness, randomness and approximations, providing a better understanding for efficient algorithmic

solutions to problems Divided into three parts it covers Model Theory and Recursive Functions introducing the basic model theory of propositional 1st order inductive definitions and 2nd order logic Recursive functions Turing computability and decidability are also examined Descriptive Complexity looking at the relationship between definitions of problems queries properties of programs and their computational complexity Approximation explaining how some optimization problems and counting problems can be approximated according to their logical form Logic is important in Computer Science particularly for verification problems and database query languages such as SQL Students and researchers in this field will find this book of great interest

Mathematical Foundations of Computer Science 2003 Branislav Rovan, Peter Vojtas, 2003-08-11

This book constitutes the refereed proceedings of the 28th International Symposium on Mathematical Foundations of Computer Science MFCS 2003 held in Bratislava Slovakia in August 2003 The 55 revised full papers presented together with 7 invited papers were carefully reviewed and selected from 137 submissions All current aspects in theoretical computer science are addressed ranging from discrete mathematics combinatorial optimization graph theory networking algorithms and complexity to programming theory formal methods and mathematical logic

Modeling Time in Computing Carlo A. Furia, Dino Mandrioli, Angelo Morzenti, Matteo Rossi, 2012-10-19

Models that include a notion of time are ubiquitous in disciplines such as the natural sciences engineering philosophy and linguistics but in computing the abstractions provided by the traditional models are problematic and the discipline has spawned many novel models This book is a systematic thorough presentation of the results of several decades of research on developing analyzing and applying time models to computing and engineering After an opening motivation introducing the topics structure and goals the authors introduce the notions of formalism and model in general terms along with some of their fundamental classification criteria In doing so they present the fundamentals of propositional and predicate logic and essential issues that arise when modeling time across all types of system Part I is a summary of the models that are traditional in engineering and the natural sciences including fundamental computer science dynamical systems and control theory hardware design and software algorithmic and complexity analysis Part II covers advanced and specialized formalisms dealing with time modeling in heterogeneous software intensive systems formalisms that share finite state machines as common ancestors Petri nets in many variants notations based on mathematical logic such as temporal logic process algebras and dual language approaches combining two notations with different characteristics to model and verify complex systems e g model checking frameworks Finally the book concludes with summarizing remarks and hints towards future developments and open challenges The presentation uses a rigorous yet not overly technical style appropriate for readers with heterogeneous backgrounds and each chapter is supplemented with detailed bibliographic remarks and carefully chosen exercises of varying difficulty and scope The book is aimed at graduate students and researchers in computer science while researchers and practitioners in other scientific and engineering disciplines interested in time modeling with a computational flavor will also find the book of value and the comparative and

conceptual approach makes this a valuable introduction for non experts The authors assume a basic knowledge of calculus probability theory algorithms and programming while a more advanced knowledge of automata formal languages and mathematical logic is useful *Logicism Renewed* Paul C. Gilmore,2017-03-30 Since their inception the Perspectives in Logic and Lecture Notes in Logic series have published seminal works by leading logicians Many of the original books in the series have been unavailable for years but they are now in print once again Logicism as put forward by Bertrand Russell was predicated on a belief that all of mathematics can be deduced from a very small number of fundamental logical principles In this volume the twenty third publication in the Lecture Notes in Logic series Paul C Gilmore revisits logicism in light of recent advances in mathematical logic and theoretical computer science Gilmore addresses the need for languages which can be understood by both humans and computers and using Intensional Type Theory ITT provides a unified basis for mathematics and computer science This yields much simpler foundations for recursion theory and the semantics of computer programs than those currently provided by category theory **Logic and Information Flow** Jan Van Eijck,2016

Introduction To Theoretical Computer Science Xiwen Ma,1990-07-18 The contents of this book are self sufficient in the sense that no preliminary knowledge other than elementary set theory is needed and there are no complicated mathematical theorems in the book A must for those entering the field Classical and New Paradigms of Computation and their Complexity Hierarchies Benedikt Löwe,Boris Piwinger,Thoralf Räsch,2005-02-15 The notion of complexity is an important contribution of logic to theoretical computer science and mathematics This volume attempts to approach complexity in a holistic way investigating mathematical properties of complexity hierarchies at the same time as discussing algorithms and computational properties A main focus of the volume is on some of the new paradigms of computation among them Quantum Computing and Infinitary Computation The papers in the volume are tied together by an introductory article describing abstract properties of complexity hierarchies This volume will be of great interest to both mathematical logicians and theoretical computer scientists providing them with new insights into the various views of complexity and thus shedding new light on their own research Computational Logic Ulrich Berger,Helmut Schwichtenberg,2012-12-06 Recent developments in computer science clearly show the need for a better theoretical foundation for some central issues Methods and results from mathematical logic in particular proof theory and model theory are of great help here and will be used much more in future than previously This book provides an excellent introduction to the interplay of mathematical logic and computer science It contains extensively reworked versions of the lectures given at the 1997 Marktoberdorf Summer School by leading researchers in the field Topics covered include proof theory and specification of computation J Y Girard D Miller complexity of proofs and programs S R Buss S S Wainer computational content of proofs H Schwichtenberg constructive type theory P Aczel H Barendregt R L Constable computational mathematics U Martin rewriting logic J Meseguer and game semantics S Abramski Categories in Computer Science and Logic John Walker Gray,1989 Presents the proceedings of

AMS IMS SIAM Summer Research Conference on Categories in Computer Science and Logic that was held at the University of Colorado in Boulder This book discusses the use of category theory in formalizing aspects of computer programming and program design

Mathematics For Computation (M4c) Marco Benini,Olaf Beyersdorff,Michael Rathjen,Peter Michael Schuster,2023-03-21 The overall topic of the volume Mathematics for Computation M4C is mathematics taking crucially into account the aspect of computation investigating the interaction of mathematics with computation bridging the gap between mathematics and computation wherever desirable and possible and otherwise explaining why not Recently abstract mathematics has proved to have more computational content than ever expected Indeed the axiomatic method originally intended to do away with concrete computations seems to suit surprisingly well the programs from proofs paradigm with abstraction helping not only clarity but also efficiency Unlike computational mathematics which rather focusses on objects of computational nature such as algorithms the scope of M4C generally encompasses all the mathematics including abstract concepts such as functions The purpose of M4C actually is a strongly theory based and therefore is a more reliable and sustainable approach to actual computation up to the systematic development of verified software While M4C is situated within mathematical logic and the related area of theoretical computer science in principle it involves all branches of mathematics especially those which prompt computational considerations In traditional terms the topics of M4C include proof theory constructive mathematics complexity theory reverse mathematics type theory category theory and domain theory The aim of this volume is to provide a point of reference by presenting up to date contributions by some of the most active scholars in each field A variety of approaches and techniques are represented to give as wide a view as possible and promote cross fertilization between different styles and traditions

Epistemic Logic for AI and Computer Science John-Jules Ch Meyer,Wiebe van der Hoek,1995 Epistemic logic has grown from its philosophical beginnings to find diverse applications in computer science and as a means of reasoning about the knowledge and belief of agents This book provides a broad introduction to the subject along with many exercises and their solutions The authors begin by presenting the necessary apparatus from mathematics and logic including Kripke semantics and the well known modal logics K T S4 and S5 Then they turn to applications in the context of distributed systems and artificial intelligence These include the notions of common knowledge distributed knowledge explicit and implicit belief the interplays between knowledge and time and knowledge and action as well as a graded or numerical variant of the epistemic operators The authors also discuss extensively the problem of logical omniscience They cover Halpern Moses theory of honest formulas and they make a digression into the realm of nonmonotonic reasoning and preferential entailment They discuss Moore s autoepistemic logic together with Levesque s related logic of all I know Furthermore they show how one can base default and counterfactual reasoning on epistemic logic Graduate students in philosophy or in computer science especially those with an interest in AI will find this book useful

The Incomputable S. Barry Cooper,Mariya I. Soskova,2017-05-05 This book questions the

relevance of computation to the physical universe Our theories deliver computational descriptions but the gaps and discontinuities in our grasp suggest a need for continued discourse between researchers from different disciplines and this book is unique in its focus on the mathematical theory of incomputability and its relevance for the real world The core of the book consists of thirteen chapters in five parts on extended models of computation the search for natural examples of uncomputable objects mind matter and computation the nature of information complexity and randomness and the mathematics of emergence and morphogenesis This book will be of interest to researchers in the areas of theoretical computer science mathematical logic and philosophy Philosophical and Mathematical Logic Harrie de Swart, 2018-11-28

This book was written to serve as an introduction to logic with in each chapter if applicable special emphasis on the interplay between logic and philosophy mathematics language and theoretical computer science The reader will not only be provided with an introduction to classical logic but to philosophical modal epistemic deontic temporal and intuitionistic logic as well The first chapter is an easy to read non technical Introduction to the topics in the book The next chapters are consecutively about Propositional Logic Sets finite and infinite Predicate Logic Arithmetic and G del s Incompleteness Theorems Modal Logic Philosophy of Language Intuitionism and Intuitionistic Logic Applications Prolog Relational Databases and SQL Social Choice Theory in particular Majority Judgment and finally Fallacies and Unfair Discussion Methods Throughout the text the author provides some impressions of the historical development of logic Stoic and Aristotelian logic logic in the Middle Ages and Frege s Begriffsschrift together with the works of George Boole 1815 1864 and August De Morgan 1806 1871 the origin of modern logic Since if then can be considered to be the heart of logic throughout this book much attention is paid to conditionals material strict and relevant implication entailment counterfactuals and conversational implicature are treated and many references for further reading are given Each chapter is concluded with answers to the exercises Philosophical and Mathematical Logic is a very recent book 2018 but with every aspect of a classic What a wonderful book Work written with all the necessary rigor with immense depth but without giving up clarity and good taste Philosophy and mathematics go hand in hand with the most diverse themes of logic An introductory text but not only that It goes much further It s worth diving into the pages of this book dear reader Paulo S rgio Argolo

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