

Logic

- Complexity has its foundations in logic.
 - Turing machines, Diagonalization, Reductions, and the polynomial-time hierarchy.
- Logical characterizations of classes have led to $NL = coNL$ and formalization of MAX-SNP.
- Proof complexity studies limitations of various logical systems to prove tautologies.

Logic And Complexity

Jakub Szymanik



Logic And Complexity:

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

Logical Foundations of Mathematics and Computational Complexity Pavel Pudlák, 2013-04-22 The two main themes of this book logic and complexity are both essential for understanding the main problems about the foundations of mathematics Logical Foundations of Mathematics and Computational Complexity covers a broad spectrum of results in logic and set theory that are relevant to the foundations as well as the results in computational complexity and the interdisciplinary area of proof complexity The author presents his ideas on how these areas are connected what are the most fundamental problems and how they should be approached In particular he argues that complexity is as important for foundations as are the more traditional concepts of computability and provability Emphasis is on explaining the essence of concepts and the ideas of proofs rather than presenting precise formal statements and full proofs Each section starts with concepts and results easily explained and gradually proceeds to more difficult ones The notes after each section present some formal definitions theorems and proofs Logical Foundations of Mathematics and Computational Complexity is aimed at graduate students of all fields of mathematics who are interested in logic complexity and foundations It will also be of interest for both physicists and philosophers who are curious to learn the basics of logic and complexity theory

Logic and Computational Complexity Daniel Leivant, 1995-08-02 This book contains revised versions of papers invited for presentation at the International Workshop on Logic and Computational Complexity LCC 94 held in Indianapolis IN in October 1994 The synergy between logic and computational complexity has gained importance and vigor in recent years cutting across many areas The 25 revised full papers in this book contributed by internationally outstanding researchers document the state of the art in this interdisciplinary field of growing interest they are presented in sections on foundational issues applicative and proof theoretic complexity complexity of proofs computational complexity of functionals complexity and model theory and finite model theory Bounded Arithmetic,

Propositional Logic and Complexity Theory Jan Krajicek, 1995-11-24 Discusses the deep connections between logic and complexity theory and lists a number of intriguing open problems

Logic and Computational Complexity Daniel Leivant, 2014-01-15

Logical Foundations of Proof Complexity Stephen Cook, Phuong Nguyen, 2010-01-25 This book treats bounded arithmetic and propositional proof complexity from the point of view of computational complexity The first seven chapters include the necessary logical background for the material and are suitable for a graduate course Associated with each of many complexity classes are both a two sorted predicate calculus theory with induction restricted to concepts in the class and a propositional proof system The complexity classes range from AC_0 for the weakest theory up to the polynomial hierarchy Each bounded theorem in a theory translates into a family of quantified propositional tautologies with polynomial size proofs in the corresponding proof system The theory proves the soundness of the associated proof system The result is a uniform treatment of many systems in the literature including Buss's theories for the polynomial hierarchy and many disparate systems for complexity classes such as AC_0 , AC_0^m , TC_0 , NC_1 , L , NL , NC and P

Computability, Complexity, Logic E. Börger, 1989-07-01 The theme of this book is formed by a pair of concepts the concept of formal language as carrier of the precise expression of meaning facts and problems and the concept of algorithm or calculus i.e. a formally operating procedure for the solution of precisely described questions and problems The book is a unified introduction to the modern theory of these concepts to the way in which they developed first in mathematical logic and computability theory and later in automata theory and to the theory of formal languages and complexity theory Apart from considering the fundamental themes and classical aspects of these areas the subject matter has been selected to give priority throughout to the new aspects of traditional questions results and methods which have developed from the needs or knowledge of computer science and particularly of complexity theory It is both a textbook for introductory courses in the above mentioned disciplines as well as a monograph in which further results of new research are systematically presented and where an attempt is made to make explicit the connections and analogies between a variety of concepts and constructions

The Challenge of Complexity Amy Heath-Carpentier, 2022-10-01 The Challenge of Complexity gathers in one volume over 32 essays by the esteemed French philosopher and sociologist Edgar Morin probably France's greatest living public intellectual The essays span six decades of his career addressing topics such as complexity sociology ecology education film biology and politics At his centenary July 2021 Morin holds honorary doctorates from over 20 universities in Europe and Latin America and recently the Centre d'Etudes Transdisciplinaires Sociologie Anthropologie Histoire at the Centre National de la Recherche Scientifique CNRS the prestigious French National Research Center was renamed the Centre Edgar Morin He is also the UNESCO Chair of Complex Thought Several university centres and institutes have been dedicated to advancing his work in Europe and Latin America He is the author of more than 80 books translated into 28 languages and the 1960 documentary Chronicle of a Summer which he co-directed with Jean Rouch has become a classic and

the first example of cinema verite Morin's work on complexity is distinct from the mathematically driven science of complexity He argues for an epistemological revolution and focuses on the need to develop complex thought to address the lived complexity of an interconnected interdependent uncertain world Morin's contribution in such a wide range of disciplines has been influential because of his ability to bring complex thought to bear on seemingly diverse topics reflecting on the limitations of how they are approached and articulating a transdisciplinary way that doesn't sacrifice complexity in an effort to find an oversimplified clarity Morin illuminates the complexity and creativity of the world and of our lived experience and invites us to participate in the creative process that is existence itself A substantive overview of Morin's philosophical journey by Alfonso Montuori introduces the reader to Morin's remarkable work and life And the work is completed by a substantive Letter from Edgar Morin putting his life's work in the context of recent advances in Science and the Humanities

Logic, Language, Information, and Computation Rosalie Iemhoff, Michael Moortgat, Ruy de Queiroz, 2019-06-23 Edited in collaboration with FoLLI the Association of Logic Language and Information this book constitutes the refereed proceedings of the 26th Workshop on Logic Language Information and Communication WoLLIC 2019 held in Utrecht The Netherlands in July 2019 The 41 full papers together with 6 invited lectures presented were fully reviewed and selected from 60 submissions The idea is to have a forum which is large enough in the number of possible interactions between logic and the sciences related to information and computation and yet is small enough to allow for concrete and useful interaction among participants

Logic Synthesis and Optimization Tsutomu Sasao, 1993-01-31 Logic Synthesis and Optimization presents up to date research information in a pedagogical form The authors are recognized as the leading experts on the subject The focus of the book is on logic minimization and includes such topics as two level minimization multi level minimization application of binary decision diagrams delay optimization asynchronous circuits spectral method for logic design field programmable gate array FPGA design EXOR logic synthesis and technology mapping Examples and illustrations are included so that each contribution can be read independently Logic Synthesis and Optimization is an indispensable reference for academic researchers as well as professional CAD engineers

Lectures on Logic and Computation Nick Bezhanishvili, Valentin Goranko, 2012-06-23 The European Summer School in Logic Language and Information ESSLLI is organized every year by the Association for Logic Language and Information FoLLI in different sites around Europe The main focus of ESSLLI is on the interface between linguistics logic and computation ESSLLI offers foundational introductory and advanced courses as well as workshops covering a wide variety of topics within the three areas of interest Language and Computation Language and Logic and Logic and Computation During two weeks around 50 courses and 10 workshops are offered to the attendants each of 1.5 hours per day during a five days week with up to seven parallel sessions ESSLLI also includes a student session papers and posters by students only 1.5 hour per day during the two weeks and four evening lectures by senior scientists in the covered areas The 6 course notes were carefully reviewed and selected The papers are

organized in topical sections on computational complexity multi agent systems natural language processing strategies in games and formal semantics

Quantifiers and Cognition: Logical and Computational Perspectives Jakub

Szymanik, 2016-02-19 This volume on the semantic complexity of natural language explores the question why some sentences are more difficult than others While doing so it lays the groundwork for extending semantic theory with computational and cognitive aspects by combining linguistics and logic with computations and cognition Quantifier expressions occur whenever we describe the world and communicate about it Generalized quantifier theory is therefore one of the basic tools of linguistics today studying the possible meanings and the inferential power of quantifier expressions by logical means The classic version was developed in the 1980s at the interface of linguistics mathematics and philosophy Before this volume advances in classic generalized quantifier theory mainly focused on logical questions and their applications to linguistics this volume adds a computational component the third pillar of language use and logical activity This book is essential reading for researchers in linguistics philosophy cognitive science logic AI and computer science

Fields of Logic and Computation

Andreas Blass, Nachum Dershowitz, Wolfgang Reisig, 2010-08-16 Yuri Gurevich has played a major role in the discovery and development of applications of mathematical logic to theoretical and practical computer science His interests have spanned a broad spectrum of subjects including decision procedures the monadic theory of order abstract state machines formal methods foundations of computer science security and much more In May 2010 Yuri celebrated his 70th birthday To mark that occasion on August 22 2010 a symposium was held in Brno the Czech Republic as a satellite event of the 35th International Symposium on Mathematical Foundations of Computer Science MFCS 2010 and of the 19th EACSL Annual Conference on Computer Science Logic CSL 2010 The meeting received generous support from Microsoft Research In preparation for this 70th birthday event we asked Yuri's colleagues whether or not they were able to attend the symposium to contribute to a volume in his honor This book is the result of that effort The collection of articles herein begins with an academic biography an annotated list of Yuri's publications and reports and a personal tribute by Jan Van den Bussche These are followed by 28 technical contributions These articles though they cover a broad range of topics represent only a fraction of Yuri's multiple areas of interest Each contribution was reviewed by one or two readers In this regard the editors wish to thank several anonymous individuals for their assistance

Logic, Algebra, and Computation Friedrich L. Bauer, 2012-12-06 The

Marktoberdorf Summer Schools on Informatics were started in 1970 with the intention to convene every second or third year a group of top researchers in computing devoted to preach their most recent results to an elite of advanced students young and most promising people and prepared to stand their questions criticism and suggestions The themes of these Advanced Study Institutes under the sponsorship of the NATO Scientific Affairs Division varied slightly over the years oscillating more or less around Programming Methodology as the following list shows 1970 Data Structures and Computer Systems 1971 Program Structures and Fundamental Concepts of Programming 1973 Structured Programming and Programmed Structures

1975 Language Hierarchies and Interfaces 1978 Program Construction 1981 Theoretical Foundations of Programming Methodology 1984 Control Flow and Data Flow Concepts of Distributed Programming 1986 Logic of Programming and Calculi of Discrete Design 1988 Constructive Methods in Computing Science 1989 Logic Algebra and Computation Logic Algebra and Computation is the theme of the summer school to which this volume is devoted It is the tenth in succession but it is also the first in a new series the blue series that is intended to alternate in future with the traditional the red series arrangement in fact the tenth summer school in the red series with the title Programming and Mathematical Method held in 1990 was the subject of celebrating both its serial number and the twenty years of Marktoberdorf Summer Schools altogether

Logic Colloquium '03 Viggo Stoltenberg-Hansen, Jouko Väänänen, 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 This volume the twenty fourth publication in the Lecture Notes in Logic series contains the proceedings of the European Summer Meeting of the Association for Symbolic Logic held in Helsinki Finland in August 2003 These articles include an extended tutorial on generalizing finite model theory as well as seventeen original research articles spanning all areas of mathematical logic including proof theory set theory model theory computability theory and philosophy

Computational Logic Dov M. Gabbay, Jörg H. Siekmann, John Woods, 2014-12-09 Handbook of the History of Logic brings to the development of logic the best in modern techniques of historical and interpretative scholarship Computational logic was born in the twentieth century and evolved in close symbiosis with the advent of the first electronic computers and the growing importance of computer science informatics and artificial intelligence With more than ten thousand people working in research and development of logic and logic related methods with several dozen international conferences and several times as many workshops addressing the growing richness and diversity of the field and with the foundational role and importance these methods now assume in mathematics computer science artificial intelligence cognitive science linguistics law and many engineering fields where logic related techniques are used inter alia to state and settle correctness issues the field has diversified in ways that even the pure logicians working in the early decades of the twentieth century could have hardly anticipated Logical calculi which capture an important aspect of human thought are now amenable to investigation with mathematical rigour and computational support and fertilized the early dreams of mechanised reasoning

Calculus The Dartmouth Conference in 1956 generally considered as the birthplace of artificial intelligence raised explicitly the hopes for the new possibilities that the advent of electronic computing machinery offered logical statements could now be executed on a machine with all the far reaching consequences that ultimately led to logic programming deduction systems for mathematics and engineering logical design and verification of computer software and hardware deductive databases and software synthesis as well as logical techniques for analysis in the field of mechanical engineering This volume covers some of the main subareas of

computational logic and its applications Chapters by leading authorities in the field Provides a forum where philosophers and scientists interact Comprehensive reference source on the history of logic

Logical Dynamics of Information and Interaction Johan van Benthem, 2011-09-29 This book develops a view of logic as a theory of information driven agency and intelligent interaction between many agents with conversation argumentation and games as guiding examples It provides one uniform account of dynamic logics for acts of inference observation questions and communication that can handle both update of knowledge and revision of beliefs It then extends the dynamic style of analysis to include changing preferences and goals temporal processes group action and strategic interaction in games Throughout the book develops a mathematical theory unifying all these systems and positioning them at the interface of logic philosophy computer science and game theory A series of further chapters explores repercussions of the dynamic stance for these areas as well as cognitive science

Handbook of Philosophical Logic Dov M. Gabbay, Franz Guenther, 2013-04-17 It is with great pleasure that we are presenting to the community the second edition of this extraordinary handbook It has been over 15 years since the publication of the first edition and there have been great changes in the landscape of philosophical logic since then The first edition has proved invaluable to generations of students and researchers in formal philosophy and language as well as to consumers of logic in many applied areas The main logic article in the Encyclopaedia Britannica 1999 has described the first edition as the best starting point for exploring any of the topics in logic We are confident that the second edition will prove to be just as good The first edition was the second handbook published for the logic community It followed the North Holland one volume Handbook of Mathematical Logic published in 1977 edited by the late Jon Barwise The four volume Handbook of Philosophical Logic published 1983 1989 came at a fortunate temporal junction at the evolution of logic This was the time when logic was gaining ground in computer science and artificial intelligence circles These areas were under increasing commercial pressure to provide devices which help and or replace the human in his daily activity This pressure required the use of logic in the modelling of human activity and organisation on the one hand and to provide the theoretical basis for the computer program constructs on the other

Institutional Theory and Human Resource Management Alireza

Hashemi, 2025-09-10 This research volume delves into the intricate realm of human resource management HRM through the lens of institutional theory Spanning eight chapters it meticulously explores the intersection of organizational studies and HRM offering a deep understanding of how institutional contexts shape HRM practices and behaviors Readers will gain a comprehensive understanding of the contextual approach in HRM and its linkage with institutional theory By leveraging the insights provided they can enhance their analytical skills enrich their understanding of institutional complexities and design effective HRM strategies tailored to organizational contexts Key topics covered include institutional pressure logic action response work and entrepreneurship in HRM as well as micro institutions and multi level HRM approaches This book will be of value to academics researchers and practitioners in the field of HRM seeking to deepen their understanding of the

institutional underpinnings of HRM It is also invaluable for advanced students studying HRM organizational studies or related disciplines providing them with a solid theoretical foundation and practical insights for navigating the complexities of HRM in real world contexts *Logic Without Borders* Åsa Hirvonen, Juha Kontinen, Roman Kossak, Andrés Villaveces, 2015-03-10 In recent years mathematical logic has developed in many directions the initial unity of its subject matter giving way to a myriad of seemingly unrelated areas The articles collected here which range from historical scholarship to recent research in geometric model theory squarely address this development These articles also connect to the diverse work of Van Norden whose ecumenical approach to logic reflects the unity of the discipline

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