Propositional Logic: Deduction and Algorithms



Propositional Logic Deduction And Algorithms

Salvador Mir, Chi-Ying Tsui, Ricardo Reis, Oliver C.S. Choy

Propositional Logic Deduction And Algorithms:

Propositional Logic Hans Kleine Büning, Theodor Lettmann, 1999-08-28 This account of propositional logic concentrates on the algorithmic translation of important methods especially of decision procedures for subclasses of propositional logic Important classical results and a series of new results taken from the fields of normal forms satisfiability and deduction methods are arranged in a uniform and complete theoretic framework. The algorithms presented can be applied to VLSI design deductive databases and other areas After introducing the subject the authors discuss satisfiability problems and satisfiability algorithms with complexity considerations the resolution calculus with different refinements and special features and procedures for Horn formulas Then a selection of further calculi and some results on the complexity of proof procedures are presented The last chapter is devoted to quantified boolean formulas The algorithmic approach will make this book attractive to computer scientists and graduate students in areas such as automated reasoning logic programming complexity theory and pure and applied logic Exact Exponential Algorithms Fedor V. Fomin, Dieter Kratsch, 2010-10-26 For a long time computer scientists have distinguished between fast and slow algo rithms Fast or good algorithms are the algorithms that run in polynomial time which means that the number of steps required for the algorithm to solve a problem is bounded by some polynomial in the length of the input All other algorithms are slow or bad The running time of slow algorithms is usually exponential This book is about bad algorithms. There are several reasons why we are interested in exponential time algorithms Most of us believe that there are many natural problems which cannot be solved by polynomial time algorithms. The most famous and oldest family of hard problems is the family of NP complete problems. Most likely there are no polynomial time al gorithms solving these hard problems and in the worst case scenario the exponential running time is unavoidable Every combinatorial problem is solvable in nite time by enumerating all possi ble solutions i e by brute force search But is brute force search always unavoid able De nitely not Already in the nineteen sixties and seventies it was known that some NP complete problems can be solved signi cantly faster than by brute force search Three classic examples are the following algorithms for the TRAVELLING SALESMAN problem MAXIMUM INDEPENDENT SET and COLORING

Mathematical Approaches to Polymer Sequence Analysis and Related Problems Renato Bruni, 2010-10-17 An edited volume describing the latest developments in approaching the problem of polymer sequence analysis with special emphasis on the most relevant biopolymers peptides and DNA but not limited to them The chapters will include peptide sequence analysis DNA sequence analysis analysis of biopolymers and nonpolymers sequence alignment problems and more Logic, Language, Information, and Computation Helle Hvid Hansen, Andre Scedrov, Ruy J.G.B. de Queiroz, 2023-08-28 Edited in collaboration with FoLLI the Association of Logic Language and Information this book constitutes the refereed proceedings of the of the 29th International Workshop on Logic Language Information and Computation WoLLIC 2023 held in Halifax NS Canada during July 11 14 2023 The 24 full papers 21 contributed 3 invited included in this book were carefully reviewed and

selected from 46 submissions. The book also contains the abstracts for the 7 invited talks and 4 tutorials presented at WoLLIC 2023 The Wollic conference series aims at fostering interdisciplinary research in pure and applied logic **Applications of Satisfiability Testing** Enrico Giunchiglia, 2004-01-26 This book constitutes the thoroughly refereed post proceedings of the 6th International Conference on Theory and Applications of Satisfiability Testing SAT 2003 held in Santa Margherita Ligure Italy in May 2003 The 33 revised full papers presented together with 5 articles reporting results of the related SAT competition and QBF evaluation were carefully selected during two rounds of reviewing and improvement from 67 submissions The whole spectrum of research in propositional and quantified Boolean formula satisfiability testing is covered including proof systems search techniques probabilistic analysis of algorithms and their properties problem encodings industrial applications specific tools case studies and empirical results Theory and Applications of Satisfiability Testing - SAT 2014 Carsten Sinz, Uwe Egly, 2014-07-02 This book constitutes the refereed proceedings of the 17th International Conference on Theory and Applications of Satisfiability Testing SAT 2014 held as part of the Vienna Summer of Logic VSL 2014 in Vienna Austria in July 2014 The 21 regular papers 7 short papers and 4 tool papers presented together with 2 invited talks were carefully reviewed and selected from 78 submissions. The papers have been organized in the following topical sections maximum satisfiability minimal unsatisfiability complexity and reductions proof complexity parallel and incremental O SAT applications structure simplification and solving and analysis Logic for Programming, Artificial Intelligence, and Reasoning Ken McMillan, Aart Middeldorp, Andrei Voronkov, 2013-12-05 This book constitutes the proceedings of the 19th International Conference on Logic for Programming Artificial Intelligence and Reasoning LPAR 19 held in December 2013 in Stellenbosch South Africa The 44 regular papers and 8 tool descriptions and experimental papers included in this volume were carefully reviewed and selected from 152 submissions The series of International Conferences on Logic for Programming Artificial Intelligence and Reasoning LPAR is a forum where year after year some of the most renowned researchers in the areas of logic automated reasoning computational logic programming languages and their applications come to present cutting edge results to discuss advances in these fields and to exchange ideas in a scientifically emerging part of the world Handbook of Satisfiability Armin Biere, Hans van Maaren, Toby Walsh, 2021-05-15 Propositional logic has been recognized throughout the centuries as one of the cornerstones of reasoning in philosophy and mathematics Over time its formalization into Boolean algebra was accompanied by the recognition that a wide range of combinatorial problems can be expressed as propositional satisfiability SAT problems Because of this dual role SAT developed into a mature multi faceted scientific discipline and from the earliest days of computing a search was underway to discover how to solve SAT problems in an automated fashion This book the Handbook of Satisfiability is the second updated and revised edition of the book first published in 2009 under the same name The handbook aims to capture the full breadth and depth of SAT and to bring together significant progress and advances in automated solving Topics covered span practical

and theoretical research on SAT and its applications and include search algorithms heuristics analysis of algorithms hard instances randomized formulae problem encodings industrial applications solvers simplifiers tools case studies and empirical results SAT is interpreted in a broad sense so as well as propositional satisfiability there are chapters covering the domain of quantified Boolean formulae QBF constraints programming techniques CSP for word level problems and their propositional encoding and satisfiability modulo theories SMT An extensive bibliography completes each chapter This second edition of the handbook will be of interest to researchers graduate students final year undergraduates and practitioners using or contributing to SAT and will provide both an inspiration and a rich resource for their work Edmund Clarke 2007 ACM Turing Award Recipient SAT solving is a key technology for 21st century computer science Donald Knuth 1974 ACM Turing Award Recipient SAT is evidently a killer app because it is key to the solution of so many other problems Stephen Cook 1982 ACM Turing Award Recipient The SAT problem is at the core of arguably the most fundamental question in computer science What makes a problem hard VLSI-SoC: The Advanced Research for Systems on Chip Salvador Mir, Chi-Ying Tsui, Ricardo Reis, Oliver C.S. Choy, 2012-09-25 This book contains extended and revised versions of the best papers presented at the 19th IFIP WG 10 5 IEEE International Conference on Very Large Scale Integration VLSI SoC 2011 held in Hong Kong China in October 2011 The 10 papers included in the book were carefully reviewed and selected from the 45 full papers and 16 special session papers presented at the conference The papers cover a wide range of topics in VLSI technology and advanced research They address the current trend toward increasing chip integration and technology process advancements bringing about stimulating new challenges both at the physical and system design levels as well as in the test of theses systems

Intelligent Systems Crina Grosan, Ajith Abraham, 2011-07-29 Computational intelligence is a well established paradigm where new theories with a sound biological understanding have been evolving The current experimental systems have many of the characteristics of biological computers brains in other words and are beginning to be built to perform a variety of tasks that are difficult or impossible to do with conventional computers As evident the ultimate achievement in this field would be to mimic or exceed human cognitive capabilities including reasoning recognition creativity emotions understanding learning and so on This book comprising of 17 chapters offers a step by step introduction in a chronological order to the various modern computational intelligence tools used in practical problem solving Staring with different search techniques including informed and uninformed search heuristic search minmax alpha beta pruning methods evolutionary algorithms and swarm intelligent techniques the authors illustrate the design of knowledge based systems and advanced expert systems which incorporate uncertainty and fuzziness Machine learning algorithms including decision trees and artificial neural networks are presented and finally the fundamentals of hybrid intelligent systems are also depicted Academics scientists as well as engineers engaged in research development and application of computational intelligence techniques machine learning and data mining would find the comprehensive coverage of this book invaluable

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