Introduction to Automata Theory, Languages, and Computation

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Problems and New Solutions in the Boolean Domain Bernd Steinbach,2016-04-26 The Internet of Things is a great new challenge for the development of digital systems In addition to the increasing number of classical unconnected digital systems more people are regularly using new electronic devices and software that are controllable and usable by means of the internet All such systems utilize the elementariness of Boolean values A Boolean variable can carry only two different Boolean values FALSE or TRUE 0 or 1 and has the best interference resistance in technical systems However a Boolean function exponentially depends on the number of its variables This exponential complexity is the cause of major problems in the process of design and realization of circuits According to Moore s Law the complexity of digital systems approximately doubles every 18 months This requires comprehensive knowledge and techniques to solve complex Boolean problems This book summarizes both new problems and solutions in the Boolean domain in solving such issues Part 1 describes powerful new approaches in solving exceptionally complex Boolean problems Efficient methods contribute to solving problems of extreme complexity New algorithms and programs utilize the huge number of computing cores of the Graphical Processing Unit and improve the performance of calculations by several orders of magnitude Part 2 represents several applications of digital systems Due to the crucial role of the internet both solutions and open problems regarding the security of these systems are discussed The exploration of certain properties of such systems leads to a number of efficient solutions which can be reused in a wide field of applications Part 3 discusses the scientific basis of future circuit technologies investigating the need for completely new design methods for the atomic level of quantum computers This part also concerns itself with reversible circuits as the basis for quantum circuits and specifies important issues regarding future improvements

Cryptography 101: From Theory to Practice Rolf Oppliger,2021-06-30 This exciting new resource provides a comprehensive overview of the field of cryptography and the current state of the art It delivers an overview about cryptography as a field of study and the various unkeyed secret key and public key cryptosystems that are available and it then delves more deeply into the technical details of the systems It introduces discusses and puts into perspective the cryptographic technologies and techniques mechanisms and systems that are available today Random generators and random functions are discussed as well as one way functions and cryptography hash functions Pseudorandom generators and their functions are presented and described Symmetric encryption is explored and message authentical and authenticated encryption are introduced Readers are given overview of discrete mathematics probability theory and complexity theory Key establishment is explained Asymmetric encryption and digital signatures are also identified Written by an expert in the field this book provides ideas and concepts that are beneficial to novice as well as experienced practitioners   *200 Problems on Languages, Automata, and Computation* Filip Murlak,Damian Niwiński,Wojciech Rytter,2023-04-20 Formal languages and automata have long been fundamental to theoretical computer science but students often struggle to understand these

concepts in the abstract This book provides a rich source of compelling exercises designed to help students grasp the subject intuitively through practice The text covers important topics such as finite automata regular expressions push down automata grammars and Turing machines via a series of problems of increasing difficultly Problems are organised by topic many with multiple follow ups and each section begins with a short recap of the basic notions necessary to make progress Complete solutions are given for all exercises making the book well suited for self study as well as for use as a course supplement Developed over the course of the editors two decades of experience teaching the acclaimed Automata Formal Languages and Computation course at the University of Warsaw it is an ideal resource for students and instructors alike

Combinatorics, Automata and Number Theory Valérie Berthé,Michel Rigo,2010-08-12 This collaborative volume presents trends arising from the fruitful interaction between the themes of combinatorics on words automata and formal language theory and number theory Presenting several important tools and concepts the authors also reveal some of the exciting and important relationships that exist between these different fields Topics include numeration systems word complexity function morphic words Rauzy tilings and substitutive dynamical systems Bratelli diagrams frequencies and ergodicity Diophantine approximation and transcendence asymptotic properties of digital functions decidability issues for D0L systems matrix products and joint spectral radius Topics are presented in a way that links them to the three main themes but also extends them to dynamical systems and ergodic theory fractals tilings and spectral properties of matrices Graduate students research mathematicians and computer scientists working in combinatorics theory of computation number theory symbolic dynamics fractals tilings and stringology will find much of interest in this book **ECAI 2023** K. Gal,A. Nowé,G.J. Nalepa,2023-10-18 Artificial intelligence or AI now affects the day to day life of almost everyone on the planet and continues to be a perennial hot topic in the news This book presents the proceedings of ECAI 2023 the 26th European Conference on Artificial Intelligence and of PAIS 2023 the 12th Conference on Prestigious Applications of Intelligent Systems held from 30 September to 4 October 2023 and on 3 October 2023 respectively in Krak w Poland Since 1974 ECAI has been the premier venue for presenting AI research in Europe and this annual conference has become the place for researchers and practitioners of AI to discuss the latest trends and challenges in all subfields of AI and to demonstrate innovative applications and uses of advanced AI technology ECAI 2023 received 1896 submissions a record number of which 1691 were retained for review ultimately resulting in an acceptance rate of 23% The 390 papers included here cover topics including machine learning natural language processing multi agent systems and vision and knowledge representation and reasoning PAIS 2023 received 17 submissions of which 10 were accepted after a rigorous review process Those 10 papers cover topics ranging from fostering better working environments behavior modeling and citizen science to large language models and neuro symbolic applications and are also included here Presenting a comprehensive overview of current research and developments in AI the book will be of interest to all those working in the field *Discrete-Event Modeling and Simulation* Gabriel A.

Wainer,2017-12-19 Complex artificial dynamic systems require advanced modeling techniques that can accommodate their asynchronous concurrent and highly non linear nature Discrete Event systems Specification DEVS provides a formal framework for hierarchical construction of discrete event models in a modular manner allowing for model re use and reduced development time Discrete Event Modeling and Simulation presents a practical approach focused on the creation of discrete event applications The book introduces the CD tool an open source framework that enables the simulation of discrete event models After setting up the basic theory of DEVS and Cell DEVS the author focuses on how to use the CD tool to define a variety of models in biology physics chemistry and artificial systems They also demonstrate how to map different modeling techniques such as Finite State Machines and VHDL to DEVS The in depth coverage elaborates on the creation of simulation software for DEVS models and the 3D visualization environments associated with these tools A much needed practical approach to creating discrete event applications this book offers world class instruction on the field s most useful modeling tools **Speech Recognition Algorithms Using Weighted Finite-State Transducers** Takaaki Hori,Atsushi Nakamura,2022-05-31 This book introduces the theory algorithms and implementation techniques for efficient decoding in speech recognition mainly focusing on the Weighted Finite State Transducer WFST approach The decoding process for speech recognition is viewed as a search problem whose goal is to find a sequence of words that best matches an input speech signal Since this process becomes computationally more expensive as the system vocabulary size increases research has long been devoted to reducing the computational cost Recently the WFST approach has become an important state of the art speech recognition technology because it offers improved decoding speed with fewer recognition errors compared with conventional methods However it is not easy to understand all the algorithms used in this framework and they are still in a black box for many people In this book we review the WFST approach and aim to provide comprehensive interpretations of WFST operations and decoding algorithms to help anyone who wants to understand develop and study WFST based speech recognizers We also mention recent advances in this framework and its applications to spoken language processing Table of Contents Introduction Brief Overview of Speech Recognition Introduction to Weighted Finite State Transducers Speech Recognition by Weighted Finite State Transducers Dynamic Decoders with On the fly WFST Operations Summary and Perspective **Quantum Computational Number Theory** Song Y. Yan,2015-12-26 This book provides a comprehensive introduction to advanced topics in the computational and algorithmic aspects of number theory focusing on applications in cryptography Readers will learn to develop fast algorithms including quantum algorithms to solve various classic and modern number theoretic problems Key problems include prime number generation primality testing integer factorization discrete logarithms elliptic curve arithmetic conjecture and numerical verification The author discusses quantum algorithms for solving the Integer Factorization Problem IFP the Discrete Logarithm Problem DLP and the Elliptic Curve Discrete Logarithm Problem ECDLP and for attacking IFP DLP and ECDLP based cryptographic systems Chapters also cover various other

quantum algorithms for Pell s equation principal ideal unit group class group Gauss sums prime counting function Riemann s hypothesis and the BSD conjecture Quantum Computational Number Theory is self contained and intended to be used either as a graduate text in computing communications and mathematics or as a basic reference in the related fields Number theorists cryptographers and professionals working in quantum computing cryptography and network security will find this book a valuable asset   **SOFSEM 2007: Theory and Practice of Computer Science** Jan Leeuwen,2007-01-04 This book constitutes the refereed proceedings of the 33rd Conference on Current Trends in Theory and Practice of Computer Science SOFSEM 2007 held in Harrachov Czech Republic in January 2007 The 69 revised full papers presented together with 11 invited contributions were carefully reviewed and selected from 283 submissions The papers were organized in four topical tracks   **Computing for Ordinary Mortals** Robert St. Amant,2012-10-29 Computing isn t only or even mostly about hardware and software it s also about the ideas behind the technology In Computing for Ordinary Mortals computer scientist Robert St Amant explains this really interesting part of computing introducing basic computing concepts and strategies in a way that readers without a technical background can understand and appreciate Each of the chapters illustrates ideas from a different area of computing and together they provide important insights into what drives the field as a whole St Amant starts off with an overview of basic concepts as well as a brief history of the earliest computers and then he traces two different threads through the fabric of computing One thread is practical illuminating the architecture of a computer and showing how this architecture makes computation efficient St Amant shows us how to write down instructions so that a computer can accomplish specific tasks programming how the computer manages those tasks as it runs in its operating system and how computers can communicate with each other over a network The other thread is theoretical describing how computers are in the abstract machines for solving problems Some of these ideas are embedded in much of what we do as humans and thus this discussion can also give us insight into our own daily activities how we interact with other people and in some cases even what s going on in our heads St Amant concludes with artificial intelligence exploring the possibility that computers might eventually be capable of human level intelligence and human computer interaction showing how computers can enrich our lives and how they fall short   Computer Aided Verification Shuvendu K. Lahiri,Chao Wang,2020-07-15 The open access two volume set LNCS 12224 and 12225 constitutes the refereed proceedings of the 32st International Conference on Computer Aided Verification CAV 2020 held in Los Angeles CA USA in July 2020 The 43 full papers presented together with 18 tool papers and 4 case studies were carefully reviewed and selected from 240 submissions The papers were organized in the following topical sections Part I AI verification blockchain and Security Concurrency hardware verification and decision procedures and hybrid and dynamic systems Part II model checking software verification stochastic systems and synthesis The conference was held virtually due to the COVID 19 pandemic   **Incentives to value the dispatchable fleet's operational flexibility across energy markets** Eglantine Künle,2018-11-07 The work at hand participates with the

energy transition toward decarbonized electricity production by providing a method to analyze the incentives for the dispatchable fleet to provide flexibility It analyzes the signals set by the energy markets to investors and power plant operators regarding flexible power plant operation and the future requirement of thermal plant flexibilisation with improvement suggestions A method for the quantitative long term high resolution techno economic assessment of an individual power plant s operational flexibility is proposed It includes the single unit self scheduling problem of a merchant power plant solved from a price taker perspective in the day ahead intraday and frequency control markets as well as a parametric power plant model suited for operational flexibility assessments The retroactive observation of the merchant power plants operation strategies in these markets is used to identify best practices in terms of market design for flexibility incentives The value of operational flexibility improvements is quantified using various metrics for different technologies and market environments Despite their sensitivity to market design technologies and cost structures these results indicate that if investors further expect a three to five year return on investment the existing European conventional fleet is unlikely to experience a significant flexibilization **Artificial Life** Seiki Akama,2024-11-29 This book provides some resources of Artificial Life Artificial Life ALife or A Life is the research area which simulates a life computationally It involves several approaches to living systems in artificial manners It was recognized as a scientific field in the 1980 s Artificial Life is related to many scientific fields including biology and computer science and its history is old In fact the earlier works have been done by people like Turing and von Neumann Fields like that neural networks evolutionary computation and cellular automaton constitute the foundations for Artificial Life The so called wet ware is an approach in more biology oriented which is known that there are some Artificial Life Systems at present It is expected to see further progresses of this exciting field The materials include history philosophy related areas recent developments etc Starting from the overview the authors give an exposition of basic subjects like cellular automaton neural networks evolutionary computation and wet ware The authors also introduce some examples of Artificial Life Systems like Boids Tierra and Open Warm The book is intended for those like experts and students who wish to get involved in the field as a monograph or a textbook for the subject It is also useful for beginners But the authors assume that the reader has mastered the material ordinarily covered in AI and mathematics

Groups and Computation Larry Finkelstein,William M. Kantor,1993-01-01 This volume contains papers presented at the Workshop on Groups and Computation held in October 1991 The workshop explored interactions among four areas symbolic algebra and computer algebra theoretical computer science group theory and applications of group computation The relationships between implementation and complexity form a recurrent theme though the papers also discuss such topics as parallel algorithms for groups computation in associative algebras asymptotic behavior of permutation groups the study of finite groups using infinite reflection groups combinatorial searching computing with representations and Cayley graphs as models for interconnection networks **Practical Aspects of Declarative Languages** Esra Erdem,Germán

Vidal,2025-03-17 This book constitutes the refereed proceedings of the 27th International Symposium on Practical Aspects of Declarative Languages PADL 2025 held in Denver CO USA during January 20 21 2025 The 15 full papers included in this book were carefully reviewed and selected from 26 submissions The accepted papers span a range of topics related to functional and logic programming including some novel applications of Answer Set Programming language extensions runtime monitoring program transformations type checking and applications of declarative programming techniques to artificial intelligence and machine learning among others   *Digest of Technical Papers* ,2001   Choice ,2007

Principles of Verification: Cycling the Probabilistic Landscape Nils Jansen,Sebastian Junges,Benjamin Lucien Kaminski,Christoph Matheja,Thomas Noll,Tim Quatmann,Mariëlle Stoelinga,Matthias Volk,2024-11-12 This Festschrift is dedicated to Joost Pieter Katoen in recognition of his outstanding research teaching and organizational successes Joost Pieter received his Master s and later his Ph D from the University of Twente and his Professional Doctorate in Engineering from Eindhoven University of Technology He had research positions at the University of Erlangen Nuremberg and Philips Research and visiting professorships in France Australia and the UK Since 2004 he has been a professor at RWTH Aachen University and is part time associated with the University of Twente Joost Pieter s main areas of research are formal methods computer aided verification concurrency theory probabilistic computation and semantics Among many recognitions for this work he is an ACM Fellow he was elected as a member of the Academia Europaea the Royal Holland Society of Science and Humanities the North Rhine Westphalian Academy of Science Humanities and the Arts and the Leopoldina the German National Academy of Sciences he received an honorary doctorate from Aalborg University He was awarded an ERC Advanced Grant he has won best paper distinguished paper or test of time awards at key conferences such as ETAPS IEEE SRDS POPL CONCUR and LOPSTR and he has given keynotes at dozens of major events He has chaired the Steering Committee of the European Joint Conferences on Theory and Practice of Software ETAPS and the TACAS conference he has been Program Chair General Chair or Program Committee member of hundreds of major conferences and workshops and a board member of key journals he has served on research boards such as the EPSRC doctoral committees school and university committees and IFIP working groups and he coauthored Principles of Model Checking a highly influential textbook Throughout his career Joost Pieter has been a remarkably successful teacher and mentor supervising students and hosting postdoctoral researchers many of whom have won awards for their research and advanced to senior positions and he has collaborated in research and publications with a wide range of scientists These successes are reflected in the papers contributed to this volume

Aspects of Molecular Computing Thomas J. Head,Natasha Jonoska,Gheorghe Păun,2004-02-20 Molecular computing is a rapidly growing subarea of natural computing On the one hand molecular computing is concerned with the use of bio molecules for the purpose of actual computations while on the other hand it attempts to understand the computational nature of molecular processes going on in living cells The book presents a unique and authorative state of the art survey on current

research in molecular computing 30 papers by leading researchers in the area are drawn together on the occasion of the 70th birthday of Tom Head a pioneer in molecular computing Among the topics addressed are molecular tiling DNA self assembly splicing systems DNA based cryptography DNA word design gene assembly and membrane computing

Structure, Context, Complexity, Organization: Physical Aspects Of Information And Value Karl-erik Eriksson,Kristian Lindgren,B Mansson,1987-12-01 Using information theory the book defines quantitative measures for structure and textural information and relates them to thermodynamic negentropy Other concepts like that of algorithmic information can be applied and used to define complexity and organization Also defined are the physical value concepts and how these relate to each other using ideas from ecology and economics it thus formulates a physical theory which could serve as a basis for a dialogue between physicists economists and ecologists

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