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Machines, Computations, and Universality Maurice Margenstern, 2005-02-25 This book constitutes the thoroughly refereed postproceedings of the 4th International Conference on Machines Computations and Universality MCU 2004 held in St Petersburg Russia in September 2004 The 21 revised full papers presented together with 5 invited papers went through two rounds of reviewing selection and improvement A broad variety of foundational aspects in theoretical computer science are addressed such as cellular automata molecular computing quantum computing formal languages automata theory Turing machines P systems etc Principles of Blockchain Systems Antonio Fernández Anta, Chryssis Georgiou, Maurice Herlihy, Maria Potop-Butucaru, 2022-05-31 This book is the first to present the state of the art and provide technical focus on the latest advances in the foundations of blockchain systems It is a collaborative work between specialists in cryptography distributed systems formal languages and economics and addresses hot topics in blockchains from a theoretical perspective cryptographic primitives consensus formalization of blockchain properties game theory applied to blockchains and economical issues This book reflects the expertise of the various authors and is intended to benefit researchers students and

engineers who seek an understanding of the theoretical foundations of blockchains **STACS 94** Patrice Enjalbert, Ernst W. Mayr, Klaus W. Wagner, 1994-02-09 This volume constitutes the proceedings of the 11th annual Symposium on Theoretical Aspects of Computer Science STACS 94 held in Caen France February 24 26 1994 Besides three prominent invited papers the proceedings contains 60 accepted contributions chosen by the international program committee during a highly competitive reviewing process from a total of 234 submissions for 38 countries. The volume competently represents most areas of theoretical computer science with a certain emphasis on parallel algorithms and complexity System Informatics Dines Bjørner, Manfred Broy, Alexandre V. Zamulin, 2003-06-26 This book constitutes the thoroughly refereed post proceedings of the Third International Andrei Ershov Memorial Conference PSI 99 held in Akademgorodok Novosibirsk Russia in July 1999 The 44 revised papers presented together with five revised full invited papers were carefully reviewed and selected from a total of 73 submissions The papers are organized in sections on algebraic specifications partial evaluation and super compilation specification with states concurrency and parallelism logic and processes languages and software database programming object oriented programming constraint programming model checking and program checking and artificial intelligence Dissemination of Information in Communication Networks Juraj Hromkovič, Ralf Klasing, A. Pelc, Peter Ruzicka, Walter Unger, 2005-12-12 Preface Due to the development of hardware technologies such as VLSI in the early 1980s the interest in parallel and distributive computing has been rapidly growingandinthelate 1980 sthest udvo fparallel algorithms and architectures became one of the main topics in computer science To bring the topic to educators and students several books on parallel computing were written. The involved text book Introduction to Parallel Algorithms and Architectures by F Thomson Leighton in 1992 was one of the milestones in the development of parallel architectures and parallel algorithms But in the last decade or so the main interest in parallel and distributive computing moved from the design of parallel algorithms and expensive parallel computers to the new distributive reality the world of interconnected computers that cooperate often asynchronously in order to solve di erent tasks Communication became one of the most frequently used terms of computer science because of the following reasons i Considering the high performance of current computers the communition is often moretime consuming than the computing time of processors As a result the capacity of communication channels is the bottleneck in the execution of many distributive algorithms ii Many tasks in the Internet are pure communication tasks We do not want to compute anything we only want to execute some information change or to extract some information as soon as possible and as cheaply as possible Also we do not have a central database involving all basic knowledge Instead wehavea distributed memorywherethe basickno edgeisdistributedamongthelocalmemoriesofalargenumberofdi erent computers The growing importance of solving pure communication tasks in the terconnected world is the main motivation forwriting this book **Distributed Algorithms for Message-Passing Systems** Michel Raynal, 2013-06-29 Distributed computing is at the heart of many applications It arises as

soon as one has to solve a problem in terms of entities such as processes peers processors nodes or agents that individually have only a partial knowledge of the many input parameters associated with the problem In particular each entity cooperating towards the common goal cannot have an instantaneous knowledge of the current state of the other entities Whereas parallel computing is mainly concerned with efficiency and real time computing is mainly concerned with on time computing distributed computing is mainly concerned with mastering uncertainty created by issues such as the multiplicity of control flows asynchronous communication unstable behaviors mobility and dynamicity While some distributed algorithms consist of a few lines only their behavior can be difficult to understand and their properties hard to state and prove The aim of this book is to present in a comprehensive way the basic notions concepts and algorithms of distributed computing when the distributed entities cooperate by sending and receiving messages on top of an asynchronous network The book is composed of seventeen chapters structured into six parts distributed graph algorithms in particular what makes them different from sequential or parallel algorithms logical time and global states the core of the book mutual exclusion and resource allocation high level communication abstractions distributed detection of properties and distributed shared memory The author establishes clear objectives per chapter and the content is supported throughout with illustrative examples summaries exercises and annotated bibliographies This book constitutes an introduction to distributed computing and is suitable for advanced undergraduate students or graduate students in computer science and computer engineering graduate students in mathematics interested in distributed computing and practitioners and engineers involved in the design and implementation of distributed applications. The reader should have a basic knowledge of algorithms and operating systems

Treewidth, Kernels, and Algorithms Fedor V. Fomin, Stefan Kratsch, Erik Jan van Leeuwen, 2020-04-20 This Festschrift was published in honor of Hans L Bodlaender on the occasion of his 60th birthday The 14 full and 5 short contributions included in this volume show the many transformative discoveries made by H L Bodlaender in the areas of graph algorithms parameterized complexity kernelization and combinatorial games The papers are written by his former Ph D students and colleagues as well as by his former Ph D advisor Jan van Leeuwen Chapter Crossing Paths with Hans Bodlaender A Personal View on Cross Composition for Sparsification Lower Bounds is available open access under a Creative Commons Attribution 4 0 International License via link springer com Advances in Cryptology ,1995 Computing and Combinatorics Lusheng Wang, 2005-08-04 The refereed proceedings of the 11th Annual International Computing and Combinatorics Conference COCOON 2005 held in Kunming China in August 2005 The 96 revised full papers presented together with abstracts of 3 invited talks were carefully reviewed and selected from 353 submissions. The papers cover most aspects of theoretical computer science and combinatorics related to computing and are organized in topical sections on bioinformatics networks string algorithms scheduling complexity steiner trees graph drawing and layout design quantum computing randomized algorithms geometry codes finance facility location graph theory graph algorithms STACS 95 Ernst W. Mayr, Claude

Puech, 1995-02-15 This book presents the proceedings of the 12th Annual Symposium on Theoretical Aspects of Computer Science STACS 95 held in Munich Germany in March 1995 Besides three invited talks the book contains revised versions of 53 research papers selected from a total of 180 submissions. The contributions address all current aspects of theoretical computer science they are organized in sections on complexity theory automata theory algorithms logic theory of parallel Algorithms - ESA 2000 Mike computing communication theory graph theory and databases and computational geometry Paterson, 2003-07-31 This book constitutes the refereed proceedings of the 8th Annual European Symposium on Algorithms ESA 2000 held in Saarbr cken Germany in September 2000 The 39 revised full papers presented together with two invited papers were carefully reviewed and selected for inclusion in the book Among the topics addressed are parallelism distributed systems approximation combinatorial optimization computational biology computational geometry external memory algorithms graph algorithms network algorithms online algorithms data compression symbolic computation pattern matching and randomized algorithms Algorithms - ESA 2000 Michael S. Paterson, 2000-08-25 This book constitutes the refereed proceedings of the 8th Annual European Symposium on Algorithms ESA 2000 held in Saarbrcken Germany in September 2000 The 39 revised full papers presented together with two invited papers were carefully reviewed and selected for inclusion in the book Among the topics addressed are parallelism distributed systems approximation combinatorial optimization computational biology computational geometry external memory algorithms graph algorithms network algorithms online algorithms data compression symbolic computation pattern matching and randomized algorithms

Algebraic Foundations of Systems Specification Egidio Astesiano, Hans-Jörg Kreowski, Bernd Krieg-Brückner, 2012-12-06 The aim of software engineering is the provision and investigation of methods for the development of software systems of high quality with correctness as a key issue A system is called correct if it does what one wants if it meets the requirements To achieve and to guarantee correct systems the need of formal methods with rigorous semantics and the possibility of verification is widely accepted Algebraic specification is a software engineering approach of this perspective When Liskov and Zilles Guttag and the ADJ group with Goguen Thatch er Wagner and Wright introduced the basic ideas of algebraic specification in the mid seventies in the U S A and Canada they initiated a very successful and still flourishing new area In the late seventies algebraic specification became a major research topic also in many European countries Originally the algebraic framework was intended for the mathematical foundation of ab stract data types and the formal development of first order applicative pro grams Meanwhile the range of applications has been extended to the precise specification of complete software systems the uniform definition of syntax and semantics of programming languages and to the stepwise development of correct systems from the requirement definitions to the running programs The activities in the last 25 years have led to an abundance of concepts methods approaches theories languages and tools which are mathematically founded in universal algebra category theory and logic Advances in Cryptology - EUROCRYPT '95

Louis C. Guillou, Jean-Jacques Quisquater, 2003-05-15 This volume constitutes the proceedings of EUROCRYPT 95 the 1995 International Workshop on the Theory and Application of Cryptographic Techniques held in Saint Malo France in May 1995 under the sponsorship of the International Association for Cryptologic Research IACR The volume contains revised versions of the 33 papers selected from a total of 113 submissions All current aspects of cryptologic research and advanced applications are addressed there are sections on cryptanalysis signatures computational number theory cryptographic protocols secret sharing electronic cash shift registers and Boolean functions authentication codes new schemes complexity aspects and implementation aspects Algebraic Methodology and Software Technology, 1997 Information System Development Process N. Prakash, C. Rolland, B. Pernici, 2014-06-28 This volume aims to pave the way to a greater understanding of the information system development process Traditionally information systems have been perceived as a slice of real world history. This has led to a strong emphasis on the development of conceptual models the requirements specifications of which can readily be expressed However the route to such an expression or the process of development has not received any substantial attention It is now agreed that a study of the development process affords notable benefits Firstly it helps to create an understanding of what a realistic development process is and how it proceeds from an initial specification to its acceptable representation Secondly the nature of guidance that can be provided by the next generation of CASE tools can be substantially improved It can be expected that these tools will cease to be mere drafting aids and consistency checking programs Instead it is likely that they will provide a procreative environment in which the development engineer will play an important role This tool user symbiosis should have a beneficial impact on both the productivity of the developer and on the quality of the product In bringing together researchers and practitioners from such diverse areas as AI Software Engineering Decision Support and Information Systems it is hoped this publication will take the quest to comprehend information system development processes a significant step forwards

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