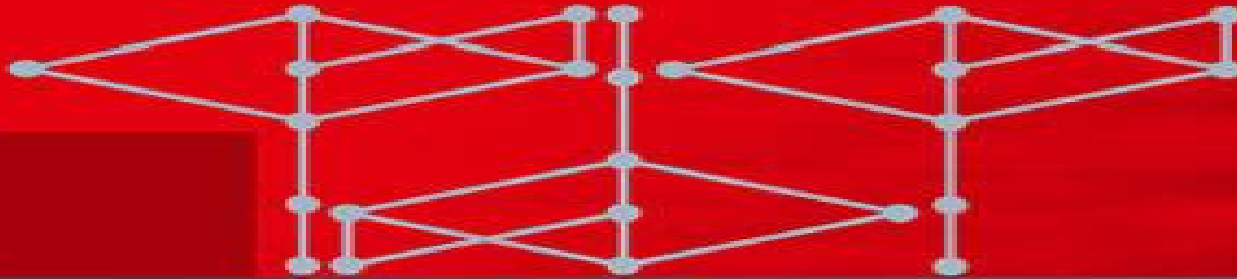


Lane A. Hemaspaandra
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Theory of Semi-Feasible Algorithms



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Theory Of Semi Feasible Algorithms

Martin Farach-Colton



Theory Of Semi Feasible Algorithms:

Theory of Semi-Feasible Algorithms Lane A. Hemaspaandra, Leen Torenvliet, 2002-10-28 The primary goal of this book is unifying and making more widely accessible the vibrant stream of research spanning more than two decades on the theory of semi feasible algorithms In doing so it demonstrates the richness inherent in central notions of complexity running time nonuniform complexity lowness and NP hardness The book requires neither great mathematical maturity nor an extensive background in computational complexity theory or in computer science Another aim of this book is to lay out a path along which the reader can quickly reach the frontiers of current research and meet and engage the many exciting open problems in this area

Theory of Semi-Feasible Algorithms Lane Hemaspaandra, Leen Torenvliet, 2014-01-15

Theory of Semi-Feasible Algorithms Lane A. Hemaspaandra, Leen Torenvliet, 2013-04-17 An Invitation to the Dance It is an underappreciated fact that sets may have various types of complexity and not all types are in harmony with each other The primary goal of this book is to unify and make more widely accessible a vibrant stream of research the theory of semi feasible computation that perfectly showcases the richness of and contrasts between the central types of complexity The semi feasible sets which are most commonly referred to as the P selective sets are those sets L for which there is a deterministic polynomial time algorithm that when given as input any two strings of which at least one belongs to L will output one of them that is in L The reason we say that the semi feasible sets showcase the contrasts among types of complexity is that it is well known that many semi feasible sets have no recursive algorithms thus their time complexity cannot be upper bounded by standard time complexity classes yet all semi feasible sets are simple in a wide range of other natural senses In particular the semi feasible sets have small circuits they are in the extended low hierarchy and they cannot be NP complete unless $P = NP$ The semi feasible sets are fascinating for many reasons First as mentioned above they showcase the fact that mere deterministic time complexity is not the only potential type of complexity in the world of computation

A Practical Theory of Reactive Systems R. Kurki-Suonio, 2005-02-17 A man may imagine he understands something but still not understand anything in the way that he ought to Paul of Tarsus 1 Corinthians 8:2 Calling this a practical theory may require some explanation Theory and practice are often thought of as two different worlds governed by different ideals principles and laws David Lorge Parnas for instance who has contributed much to our theoretical understanding of software engineering and also to sound use of theory in the practice of it likes to point out that theoretically is synonymous to not really In applied mathematics the goal is to discover useful connections between these two worlds My thesis is that in software engineering this two world view is inadequate and a more intimate interplay is required between theory and practice That is both theoretical and practical components should be integrated into a practical theory It should be clear from the above that the intended readership of this book is not theoreticians They would probably have difficulties in appreciating a book on theory where the presentation does not proceed in a logical sequence from basic definitions to theorems and

mathematical proofs followed by application examples In fact all this would not constitute what I understand by a practical theory in this context Complexity Theory and Cryptology Jörg Rothe,2005-07-22 Modern cryptology increasingly employs mathematically rigorous concepts and methods from complexity theory Conversely current research topics in complexity theory are often motivated by questions and problems from cryptology This book takes account of this situation and therefore its subject is what may be dubbed cryptocomplexity a kind of symbiosis of these two areas This book is written for undergraduate and graduate students of computer science mathematics and engineering and can be used for courses on complexity theory and cryptology preferably by stressing their interrelation Moreover it may serve as a valuable source for researchers teachers and practitioners working in these fields Starting from scratch it works its way to the frontiers of current research in these fields and provides a detailed overview of their history and their current research topics and challenges

Complexity and Approximation Ding-Zhu Du,Jie Wang,2020-02-20 This Festschrift is in honor of Ker I Ko Professor in the Stony Brook University USA Ker I Ko was one of the founding fathers of computational complexity over real numbers and analysis He and Harvey Friedman devised a theoretical model for real number computations by extending the computation of Turing machines He contributed significantly to advancing the theory of structural complexity especially on polynomial time isomorphism instance complexity and relativization of polynomial time hierarchy Ker I also made many contributions to approximation algorithm theory of combinatorial optimization problems This volume contains 17 contributions in the area of complexity and approximation Those articles are authored by researchers over the world including North America Europe and Asia Most of them are co authors colleagues friends and students of Ker I Ko

Parameterized Complexity Theory J. Flum,M. Grohe,2006-05-01 Parameterized complexity theory is a recent branch of computational complexity theory that provides a framework for a refined analysis of hard algorithmic problems The central notion of the theory fixed parameter tractability has led to the development of various new algorithmic techniques and a whole new theory of intractability This book is a state of the art introduction to both algorithmic techniques for fixed parameter tractability and the structural theory of parameterized complexity classes and it presents detailed proofs of recent advanced results that have not appeared in book form before Several chapters are each devoted to intractability algorithmic techniques for designing fixed parameter tractable algorithms and bounded fixed parameter tractability and subexponential time complexity The treatment is comprehensive and the reader is supported with exercises notes a detailed index and some background on complexity theory and logic The book will be of interest to computer scientists mathematicians and graduate students engaged with algorithms and problem complexity **The Complexity Theory Companion** Lane A.

Hemaspaandra,Mitsunori Ogiwara,2013-03-14 The Complexity Theory Companion is an accessible algorithmically oriented research centered up to date guide to some of the most interesting techniques of complexity theory The book s thesis is that simple algorithms are at the heart of complexity theory From the tree pruning and interval pruning algorithms that shape the

first chapter to the query simulation procedures that dominate the last chapter the central proof methods of the book are algorithmic And to more clearly highlight the role of algorithmic techniques in complexity theory the book is unlike other texts on complexity organized by technique rather than by topic Each chapter of this book focuses on one technique what it is and what results and applications it yields This textbook was developed at the University of Rochester in courses given to graduate students and advanced undergraduates Researchers also will find this book a valuable source of reference due to the comprehensive bibliography of close to five hundred entries the thirty five page subject index and the appendices giving overviews of complexity classes and reductions

Elements of Finite Model Theory Leonid Libkin, 2013-03-09 Finite model theory is an area of mathematical logic that grew out of computer science applications The main sources of motivational examples for finite model theory are found in database theory computational complexity and formal languages although in recent years connections with other areas such as formal methods and verification and artificial intelligence have been discovered The birth of finite model theory is often identified with Trakhtenbrot's result from 1950 stating that validity over finite models is not recursively enumerable in other words completeness fails over finite models The technique of the proof based on encoding Turing machine computations as finite structures was reused by Fagin almost a quarter century later to prove his celebrated result that put the equality sign between the class NP and existential second order logic thereby providing a machine independent characterization of an important complexity class In 1982 Immerman and Vardi showed that over ordered structures a fixed point extension of first order logic captures the complexity class PTIME of polynomial time computable properties Shortly thereafter logical characterizations of other important complexity classes were obtained This line of work is often referred to as descriptive complexity A different line of finite model theory research is associated with the development of relational databases By the late 1970s the relational database model had replaced others and all the basic query languages for it were essentially first order predicate calculus or its minor extensions

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 finite 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 finite 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 finite model theory

SOFSEM 2006: Theory and Practice of Computer Science Jirí Wiedermann, 2006-01-05 This book constitutes the refereed proceedings of the 32nd Conference on Current Trends in Theory and Practice of Computer Science SOFSEM 2006 held in Merin Czech Republic in January 2006 The 45 revised full papers including the best Student Research Forum paper presented together with 10 invited contributions were carefully reviewed and selected from 157 submissions The papers were organized in four topical tracks on computer science foundations wireless mobile ad hoc and sensor networks database technologies and semantic Web technologies

Mathematical Foundations of Computer Science 2004 Jirí Fiala, Václav Koubek, Jan Kratochvíl, 2004-08-09 This volume contains the papers presented at the 29th Symposium on Mathematical Foundations of Computer Science MFCS 2004 held in Prague Czech Republic August 22-27 2004 The conference was organized by the Institute for Theoretical Computer Science ITI and the Department of Theoretical Computer Science and Mathematical Logic KTIML of the Faculty of Mathematics and Physics of Charles University in Prague It was supported in part by the European Association for Theoretical Computer Science EATCS and the European Research Consortium for Informatics and Mathematics ERCIM Traditionally the MFCS symposia encourage high quality research in all branches of theoretical computer science Ranging in scope from automata formal languages data structures algorithms and computational geometry to complexity theory models of computation and applications including computational biology cryptography security and artificial intelligence the conference offers a unique opportunity to researchers from diverse areas to meet and present their results to a general audience The scientific program of this year's MFCS took place in the lecture halls of the recently reconstructed building of the Faculty of Mathematics and Physics in the historical center of Prague with the famous Prague Castle and other celebrated historical monuments in sight The view from the windows was a challenging competition for the speakers in the fight for the attention of the audience But we did not fear the result Due to the unusually tough competition for this year's MFCS the admitted presentations certainly attracted considerable interest The conference program and the proceedings consisted of 60 contributed papers selected by the Program Committee from a total of 167 submissions

Convex Optimization—Theory, Algorithms and Applications Balendu Bhooshan Upadhyay, Shashi Kant Mishra, Pierre Maréchal, 2025-04-25 This volume includes chapters on topics presented at the conference on Recent Trends in Convex Optimization Theory Algorithms and Applications RTCOTAA 2020 held at the Department of Mathematics Indian Institute of Technology Patna Bihar India from 29-31 October 2020 It discusses a comprehensive exploration of the realm of optimization encompassing both the theoretical underpinnings and the multifaceted real life implementations of the optimization theory It meticulously features essential

optimization concepts such as convex analysis generalized convexity monotonicity etc elucidating their theoretical advancements and significance in the optimization sphere Multiobjective optimization is a pivotal topic which addresses the inherent difficulties faced in conflicting objectives The book delves into various theoretical concepts and covers some practical algorithmic approaches to solve multiobjective optimization such as the line search and the enhanced non monotone quasi Newton algorithms It also deliberates on several other significant topics in optimization such as the perturbation approach for vector optimization and solution methods for set valued optimization Nonsmooth optimization is extensively covered with in depth discussions on various well known tools of nonsmooth analysis such as convexifiers limiting subdifferentials tangential subdifferentials quasi differentials etc Notable optimization algorithms such as the interior point algorithm and Lemke's algorithm are dissected in detail offering insights into their applicability and effectiveness The book explores modern applications of optimization theory for instance optimized image encryption resource allocation target tracking problems deep learning entropy optimization etc Ranging from gradient based optimization algorithms to metaheuristic approaches such as particle swarm optimization the book navigates through the intersection of optimization theory and deep learning thereby unravelling new research perspectives in artificial intelligence machine learning and other fields of modern science Designed primarily for graduate students and researchers across a variety of disciplines such as mathematics operations research electrical and electronics engineering computer science robotics deep learning image processing and artificial intelligence this book serves as a comprehensive resource for someone interested in exploring the multifaceted domain of mathematical optimization and its myriad applications

Restricted-Orientation Convexity

Eugene Fink, Derick Wood, 2012-12-06 Restricted orientation convexity is the study of geometric objects whose intersections with lines from some fixed set are connected This notion generalizes standard convexity and several types of nontraditional convexity We explore the properties of this generalized convexity in multidimensional Euclidean space describes restricted orientation analogs of lines hyperplanes flats and halfspaces and identify major properties of standard convex sets that also hold for restricted orientation convexity We then introduce the notion of strong restricted orientation convexity which is an alternative generalization of convexity and show that its properties are also similar to those of standard convexity

Automata, Languages and Programming Samson Abramsky, Cyril Gavoille, Claude Kirchner, Friedhelm Meyer auf der Heide, Paul Spirakis, 2010-06-30 The two volume set LNCS 6198 and LNCS 6199 constitutes the refereed proceedings of the 37th International Colloquium on Automata Languages and Programming ICALP 2010 held in Bordeaux France in July 2010 The 106 revised full papers 60 papers for track A 30 for track B and 16 for track C presented together with 6 invited talks were carefully reviewed and selected from a total of 389 submissions The papers are grouped in three major tracks on algorithms complexity and games on logic semantics automata and theory of programming as well as on foundations of networked computation models algorithms and information management LNCS 6198 contains 60 contributions of track A

selected from 222 submissions as well as 2 invited talks

Duration Calculus Chaochen Zhou, Michael R. Hansen, 2013-03-14 Duration calculus constitutes a formal approach to the development of real time systems as an interval logic with special features for expressing and analyzing time durations of states in real time systems it allows for representing and formally reasoning about requirements and designs at an appropriate level of abstraction This book presents the logical foundations of duration calculus in a coherent and thorough manner Through selective case studies it explains how duration calculus can be applied to the formal specification and verification of real time systems The book also contains an extensive survey of the current research in this field The material included in this book has been used for graduate and postgraduate courses while it is also suitable for experienced researchers and professionals

Computing and Combinatorics Hung Q. Ngo, 2009-07-11 The papers in this volume were selected for presentation at the 15th Annual International Computing and Combinatorics Conference COCOON 2009 held during July 13 15 2009 in Niagara Falls New York USA Previous meetings of this conference were held in Xian 1995 Hong Kong 1996 Shanghai 1997 Taipei 1998 Tokyo 1999 Sydney 2000 Guilin 2001 Singapore 2002 Big Sky 2003 Jeju Island 2004 Kunming 2005 Taipei 2006 Alberta 2007 and Dalian 2008 In response to the Call for Papers 125 extended abstracts not counting withdrawn papers were submitted from 28 countries and regions of which 51 were accepted Authors of the submitted papers were from Cyprus 1 The Netherlands 1 Bulgaria 1 Israel 1 Vietnam 2 Finland 1 Puerto Rico 2 Australia 4 Norway 4 Portugal 1 Spain 2 France 16 Republic of Korea 3 Singapore 2 Italy 6 Iran 4 Greece 7 Poland 4 Switzerland 8 Hong Kong 10 UK 12 India 7 Taiwan 18 Canada 23 China 19 Japan 39 Germany 44 and the USA 77 The submitted papers were evaluated by an international Technical Program Committee TPC consisting of Srinivas Aluru Iowa State University USA Lars Arge University of Aarhus Denmark Vikraman Arvind Institute of Mathematical Sciences India James Aspnes Yale University USA Mikhail Atallah Purdue University USA Gill Barequet Technion Israel Institute of Technology Israel Michael Brudno University of Toronto Canada Jianer Chen Texas A M USA Bhaskar DasGupta University of Illinois at Chicago USA Anupam Gupta Carnegie Mellon University USA Lane A

LATIN 2004: Theoretical Informatics Martin Farach-Colton, 2004-03-19 This volume contains the proceedings of the Latin American Theoretical Informatics LATIN conference that was held in Buenos Aires Argentina April 5 8 2004 The LATIN series of symposia was launched in 1992 to foster interactions between the Latin American community and computer scientists around the world This was the sixth event in the series following Sao Paulo Brazil 1992 Valparaiso Chile 1995 Campinas Brazil 1998 Punta del Este Uruguay 2000 and Cancun Mexico 2002 The proceedings of these conferences were also published by Springer Verlag in the Lecture Notes in Computer Science series Volumes 583 911 1380 1776 and 2286 respectively Also as before we published a selection of the papers in a special issue of a prestigious journal We received 178 submissions Each paper was assigned to four program committee members and 59 papers were selected This was 80% more than the previous record for the number of submissions We feel lucky to have been able to build on the solid foundation provided by the

increasingly successful previous LATINs And we are very grateful for the tireless work of Pablo Martínez López the Local Arrangements Chair Finally we thank Springer Verlag for publishing these proceedings in its LNCS series

Incomplete Information: Structure, Inference, Complexity Stéphane P. Demri, Ewa Orłowska, 2002-07-03 This monograph presents a systematic exhaustive and up to date overview of formal methods and theories for data analysis and inference inspired by the concept of rough set Throughout Demri studies structures with incomplete information from the logical algebraic and computational perspective The formalisms developed are non invasive in that only the actual information that is needed in the process of analysis without external sources of information being required The book is self contained to a large degree providing detailed derivations of most of the technical results and is intended for researchers lecturers and graduate students

Semantic Integration of Heterogeneous Software Specifications Martin Große-Rhode, 2013-03-09 In a model based development of software systems different views on a system are elaborated using appropriate modeling languages and techniques Because of the unavoidable heterogeneity of the viewpoint models a semantic integration is required to establish the correspondences of the models and allow checking of their relative consistency The integration approach introduced in this book is based on a common semantic domain of abstract systems their composition and development Its applicability is shown through semantic interpretations and compositional comparisons of different specification approaches These range from formal specification techniques like process calculi Petri nets and rule based formalisms to semiformal software modeling languages like those in the UML family

Reviewing **Theory Of Semi Feasible Algorithms**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is truly astonishing. Within the pages of "**Theory Of Semi Feasible Algorithms**," an enthralling opus penned by a very acclaimed wordsmith, readers set about an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve into the book's central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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