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Alan L. Selman



Kolmogorov Complexity And Computational Complexity:

Kolmogorov Complexity and Computational Complexity Osamu Watanabe, 2012-12-06 The mathematical theory of computation has given rise to two important approaches to the informal notion of complexity Kolmogorov complexity usually a complexity measure for a single object such as a string a sequence etc measures the amount of information necessary to describe the object Computational complexity usually a complexity measure for a set of objects measures the computational resources necessary to recognize or produce elements of the set The relation between these two complexity measures has been considered for more than two decades and many interesting and deep observations have been obtained In March 1990 the Symposium on Theory and Application of Minimal Length Encoding was held at Stanford University as a part of the AAAI 1990 Spring Symposium Series Some sessions of the symposium were dedicated to Kolmogorov complexity and its relations to the computational complexity theory and excellent expository talks were given there Feeling that due to the importance of the material some way should be found to share these talks with researchers in the computer science community I asked the speakers of those sessions to write survey papers based on their talks in the symposium In response five speakers from the sessions contributed the papers which appear in this book

Kolmogorov Complexity and Computational Complexity Osamu Watanabe, 1992-10-26 There are many ways to measure the complexity of a given object but there are two measures of particular importance in the theory of computing One is Kolmogorov complexity which measures the amount of information necessary to describe an object Another is computational complexity which measures the computational resources necessary to recognize or produce an object The relation between these two complexity measures has been studied since the 1960s More recently the more generalized notion of resource bounded Kolmogorov complexity and its relation to computational complexity have received much attention Now many interesting and deep observations on this topic have been established This book consists of four survey papers concerning these recent studies on resource bounded Kolmogorov complexity and computational complexity It also contains one paper surveying several types of Kolmogorov complexity measures The papers are based on invited talks given at the AAAI Spring Symposium on Minimal Length Encoding in 1990 The book is the only collection of survey papers on this subject and provides fundamental information for researchers in the field

On the Use of Kolmogorov Complexity in Computational Complexity, 2001

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

Resource Bounded Kolmogorov Complexity, a Link Between Computational Complexity and Information Theory Cornell University. Dept. of Computer Science, Luc Longpré, 1986

We view the resource bounded Kolmogorov complexity classes as a link between computational complexity and information theory

Theory of Computational Complexity Ding-Zhu Du, Ker-I Ko, 2014-06-30 Praise for the First Edition complete up to date coverage of computational complexity theory the book promises to become the standard reference on computational complexity Zentralblatt MATH A thorough revision based on advances in the field of computational complexity and readers feedback the Second Edition of Theory of Computational Complexity presents updates to the principles and applications essential to understanding modern computational complexity theory The new edition continues to serve as a comprehensive resource on the use of software and computational approaches for solving algorithmic problems and the related difficulties that can be encountered Maintaining extensive and detailed coverage Theory of Computational Complexity Second Edition examines the theory and methods behind complexity theory such as computational models decision tree complexity circuit complexity and probabilistic complexity The Second Edition also features recent developments on areas such as NP completeness theory as well as A new combinatorial proof of the PCP theorem based on the notion of expander graphs a research area in the field of computer science Additional exercises at varying levels of difficulty to further test comprehension of the presented material End of chapter literature reviews that summarize each topic and offer additional sources for further study Theory of Computational Complexity Second Edition is an excellent textbook for courses on computational theory and complexity at the graduate level The book is also a useful reference for practitioners in the fields of computer science engineering and mathematics who utilize state of the art software and computational methods to conduct research

An Introduction to Kolmogorov Complexity and Its Applications Ming Li, Paul M.B. Vitányi, 2009-03-18 The book is outstanding and admirable in many respects is necessary reading for all kinds of readers from undergraduate students to top authorities in the field Journal of Symbolic Logic Written by two experts in the field this is the only comprehensive and unified treatment of the central ideas and applications of Kolmogorov complexity The book presents a thorough treatment of the subject with a wide range of illustrative applications Such applications include the randomness of finite objects or infinite sequences Martin Loef tests for randomness information theory computational learning theory the complexity of algorithms and the thermodynamics of computing It will be ideal for advanced undergraduate students graduate students and researchers in computer science mathematics cognitive sciences philosophy artificial intelligence statistics and physics The book is self contained in that it contains the basic requirements from mathematics and computerscience Included are also numerous problem sets comments source references and hints to solutions of problems New topics in this edition include Omega numbers Kolmogorov Loveland randomness universal learning communication complexity Kolmogorov s random

graphs time limited universal distribution Shannon information and others Kolmogorov Complexity and Algorithmic Randomness A. Shen, V. A. Uspensky, N. Vereshchagin, 2017-11-02 Looking at a sequence of zeros and ones we often feel that it is not random that is it is not plausible as an outcome of fair coin tossing Why The answer is provided by algorithmic information theory because the sequence is compressible that is it has small complexity or equivalently can be produced by a short program This idea going back to Solomonoff Kolmogorov Chaitin Levin and others is now the starting point of algorithmic information theory The first part of this book is a textbook style exposition of the basic notions of complexity and randomness the second part covers some recent work done by participants of the Kolmogorov seminar in Moscow started by Kolmogorov himself in the 1980s and their colleagues This book contains numerous exercises embedded in the text that will help readers to grasp the material Computational Complexity IEEE Computer Society, 2000 Elements of Information Theory Thomas M. Cover, Joy A. Thomas, 2012-11-28 The latest edition of this classic is updated with new problem sets and material The Second Edition of this fundamental textbook maintains the book's tradition of clear thought provoking instruction Readers are provided once again with an instructive mix of mathematics physics statistics and information theory All the essential topics in information theory are covered in detail including entropy data compression channel capacity rate distortion network information theory and hypothesis testing The authors provide readers with a solid understanding of the underlying theory and applications Problem sets and a telegraphic summary at the end of each chapter further assist readers The historical notes that follow each chapter recap the main points The Second Edition features Chapters reorganized to improve teaching 200 new problems New material on source coding portfolio theory and feedback capacity Updated references Now current and enhanced the Second Edition of Elements of Information Theory remains the ideal textbook for upper level undergraduate and graduate courses in electrical engineering statistics and telecommunications

Encyclopedia of Optimization Christodoulos A. Floudas, Panos M. Pardalos, 2008-09-04 The goal of the Encyclopedia of Optimization is to introduce the reader to a complete set of topics that show the spectrum of research the richness of ideas and the breadth of applications that has come from this field The second edition builds on the success of the former edition with more than 150 completely new entries designed to ensure that the reference addresses recent areas where optimization theories and techniques have advanced Particularly heavy attention resulted in health science and transportation with entries such as Algorithms for Genomics Optimization and Radiotherapy Treatment Design and Crew Scheduling

Computational Complexity: A Quantitative Perspective Marius Zimand, 2004-07-07 There has been a common perception that computational complexity is a theory of bad news because its most typical results assert that various real world and innocent looking tasks are infeasible In fact bad news is a relative term and indeed in some situations e.g. in cryptography we want an adversary to not be able to perform a certain task However a bad news result does not automatically become useful in such a scenario For this to happen its hardness features have to be quantitatively evaluated

and shown to manifest extensively The book undertakes a quantitative analysis of some of the major results in complexity that regard either classes of problems or individual concrete problems The size of some important classes are studied using resource bounded topological and measure theoretical tools In the case of individual problems the book studies relevant quantitative attributes such as approximation properties or the number of hard inputs at each length One chapter is dedicated to abstract complexity theory an older field which however deserves attention because it lays out the foundations of complexity The other chapters on the other hand focus on recent and important developments in complexity The book presents in a fairly detailed manner concepts that have been at the centre of the main research lines in complexity in the last decade or so such as average complexity quantum computation hardness amplification resource bounded measure the relation between one way functions and pseudo random generators the relation between hard predicates and pseudo random generators extractors derandomization of bounded error probabilistic algorithms probabilistically checkable proofs non approximability of optimization problems and others The book should appeal to graduate computer science students and to researchers who have an interest in computer science theory and need a good understanding of computational complexity e g researchers in algorithms AI logic and other disciplines Emphasis is on relevant quantitative attributes of important results in complexity Coverage is self contained and accessible to a wide audience Large range of important topics including derandomization techniques non approximability of optimization problems average case complexity quantum computation one way functions and pseudo random generators resource bounded measure and topology

FST TCS 2001: Foundations of Software Technology and Theoretical Computer Science Ramesh Hariharan, Madhavan Mukund, V. Vinay, 2003-06-30 This volume contains the proceedings of the 21st international conference on the Foundations of Software Technology and Theoretical Computer Science FSTTCS 2001 organized under the auspices of the Indian Association for Research in Computing Science IARCS This year s conference attracted 73 submissions from 20 countries Each s mission was reviewed by at least three independent referees In a departure from previous conferences the nal selection of the papers making up the program was done through an electronic discussion spanning two weeks without a physical meeting of the Program Committee PC Since the PC of FSTTCS is distributed across the globe it is very di cult to x a meeting whose time and venue is convenient for a substantial fraction of the PC Given this it was felt that an electronic discussion would enable all members to participate on a more equal footing in the nal selection All reviews scores and comments were posted on a secure website with a mechanism for making updates and automatically sending noti cations by email to relevant members of the PC All PC members participated actively in the discussion The general feedback on the arrangement was very positive so we hope to continue this in future years We had ve invited speakers this year Eric Allender Sanjeev Arora David Harel Colin Stirling and Uri Zwick We thank them for having readily accepted our invitation to talk at the conference and for providing abstracts and even full papers for the proceedings

Generalized Kolmogorov Complexity and the Structure of Feasible

Computations Cornell University. Department of Computer Science, Juris Hartmanis, 1983 In this paper we define a generalized two parameter Kolmogorov complexity of finite strings which measures how much and how fast a string can be compressed and we show that this string complexity measure is an efficient tool for the study of computational complexity The advantage of this approach is that it not only classifies strings as random or not random but measures the amount of randomness detectable in a given time This permits the study how computations change the amount of randomness of finite strings and thus establish a direct link between computational complexity and generalized Kolmogorov complexity of strings This approach gives a new viewpoint for computational complexity theory yields natural formulations of new problems and yields new results about the structure of feasible computations

Crossroads of Computability and Logic: Insights, Inspirations, and Innovations Arnold Beckmann, Isabel Oitavem, Florin Manea, 2025-06-19 This book constitutes the refereed proceedings of the 21st Conference on Computability and Logic CiE 2025 held in Lisbon Portugal during July 14 18 2025 The 27 full papers included in this book were carefully reviewed and selected from 49 submissions They focus on computability related science ranging over mathematics computer science and applications in various natural and engineering sciences such as physics and biology as well as related fields such as philosophy and history of computing CiE 2025 had as its motto Crossroads of Computability and Logic Insights Inspirations and Innovations drawing on the numerous interconnections between computability research and broader logical methodologies considering both well established perspectives as well as recent innovations

Issues in Computation: 2013 Edition, 2013-05-01 Issues in Computation 2013 Edition is a ScholarlyEditions book that delivers timely authoritative and comprehensive information about Computing The editors have built Issues in Computation 2013 Edition on the vast information databases of ScholarlyNews You can expect the information about Computing in this book to be deeper than what you can access anywhere else as well as consistently reliable authoritative informed and relevant The content of Issues in Computation 2013 Edition has been produced by the world's leading scientists engineers analysts research institutions and companies All of the content is from peer reviewed sources and all of it is written assembled and edited by the editors at ScholarlyEditions and available exclusively from us You now have a source you can cite with authority confidence and credibility More information is available at <http://www.ScholarlyEditions.com>

Complexity Theory Retrospective Alan L. Selman, 2012-12-06 In 1965 Juris Hartmanis and Richard E Stearns published a paper On the Computational Complexity of Algorithms The field of complexity theory takes its name from this seminal paper and many of the major concepts and issues of complexity theory were introduced by Hartmanis in subsequent work In honor of the contribution of Juris Hartmanis to the field of complexity theory a special session of invited talks by Richard E Stearns Allan Borodin and Paul Young was held at the third annual meeting of the Structure in Complexity conference and the first three chapters of this book are the final versions of these talks They recall intellectual and professional trends in Hartmanis contributions All but one of the remainder of the chapters in this volume originated as a

presentation at one of the recent meetings of the Structure in Complexity Theory Conference and appeared in preliminary form in the conference proceedings In all these expositions form an excellent description of much of contemporary complexity theory **Programs, Proofs, Processes** Fernando Ferreira, Benedikt Löwe, Elvira Mayordomo, Luís Mendes Gomes, 2010-06-27 This book constitutes the refereed proceedings of the 6th Conference on Computability in Europe CiE 2010 held in Ponta Delgada Azores Portugal in June July 2010 The 28 revised papers presented together with 20 invited lectures were carefully reviewed and selected from 90 submissions The papers address not only the more established lines of research of computational complexity and the interplay between proofs and computation but also novel views that rely on physical and biological processes and models to find new ways of tackling computations and improving their efficiency

Complexity in Information Theory Yaser S. Abu-Mostafa, 2012-12-06 The means and ends of information theory and computational complexity have grown significantly closer over the past decade Common analytic tools such as combinatorial mathematics and information flow arguments have been the cornerstone of VLSI complexity and cooperative computation The basic assumption of limited computing resources is the premise for cryptography where the distinction is made between available information and accessible information Numerous other examples of common goals and tools between the two disciplines have shaped a new research category of information and complexity theory This volume is intended to expose to the research community some of the recent significant topics along this theme The contributions selected here are all very basic presently active fairly well established and stimulating for substantial follow ups This is not an encyclopedia on the subject it is concerned only with timely contributions of sufficient coherence and promise The styles of the six chapters cover a wide spectrum from specific mathematical results to surveys of large areas It is hoped that the technical content and theme of this volume will help establish this general research area I would like to thank the authors of the chapters for contributing to this volume I also would like to thank Ed Posner for his initiative to address this subject systematically and Andy Fyfe and Ruth Erlanson for proofreading some of the chapters *Theory and Applications of Models of Computation* Jin-Yi Cai, 2006-05-11 TAMC 2006 was the third conference in the series The previous two meetings were held May 17 19 2004 in Beijing and May 17 20 2005 in Kunming

Kolmogorov Complexity And Computational Complexity Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has are more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Kolmogorov Complexity And Computational Complexity**," compiled by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we shall delve into the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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