

Cristian S. Calude



Information and Randomness

An Algorithmic Perspective

2nd Edition, Revised and Extended



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Information and Randomness Cristian S. Calude, 2014-01-15 **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

Descriptive Complexity of Formal Systems Stavros Konstantinidis, Giovanni Pighizzini, 2018-07-14 This book constitutes the proceedings of the 20th International Conference on Descriptive Complexity of Formal Systems DCFS 2018 held in Halifax NS Canada in July 2018 The 19 full papers presented were carefully reviewed and selected from 24 submissions DCFS is an annual international working conference concerning the descriptive complexity of formal systems and structures and its applications Topics of interest are related to all aspects of descriptive complexity and much more

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

Algorithmics for Hard Problems Juraj Hromkovič, 2001-05-22 An introduction to the methods of designing algorithms for hard computing tasks concentrating mainly on approximate randomized and heuristic algorithms and on the theoretical and

experimental comparison of these approaches according to the requirements of the practice This is the first book to systematically explain and compare all the main possibilities of attacking hard computing problems It also closes the gap between theory and practice by providing at once a graduate textbook and a handbook for practitioners dealing with hard computing problems

Mathematical Reviews ,2004 **Coloured Petri Nets** Kurt Jensen,1997 **Subject Guide to Books in Print** ,1993 International Books in Print ,1997 **Whitaker's Books in Print** ,1998 **German books in print** ,1995 *Information, Randomness & Incompleteness* Gregory J. Chaitin,1990-01-01 This book contains in easily accessible form all the main ideas of the creator and principal architect of algorithmic information theory This expanded second edition has added thirteen abstracts a 1988 Scientific American Article a transcript of a EUROPALIA 89 lecture an essay on biology and an extensive bibliography Its new larger format makes it easier to read Chaitin's ideas are a fundamental extension of those of G del and Turing and have exploded some basic assumptions of mathematics and thrown new light on the scientific method epistemology probability theory and of course computer science and information theory

Books in Print ,1994 **Design and Analysis of Randomized Algorithms** J. Hromkovic,2005-10-11 Randomness is a powerful phenomenon that can be harnessed to solve various problems in all areas of computer science Randomized algorithms are often more efficient simpler and surprisingly also more reliable than their deterministic counterparts Computing tasks exist that require billions of years of computer work when solved using the fastest known deterministic algorithms but they can be solved using randomized algorithms in a few minutes with negligible error probabilities Introducing the fascinating world of randomness this book systematically teaches the main algorithm design paradigms foiling an adversary abundance of witnesses fingerprinting amplification and random sampling etc while also providing a deep insight into the nature of success in randomization Taking sufficient time to present motivations and to develop the reader's intuition while being rigorous throughout this text is a very effective and efficient introduction to this exciting field

Algorithmic Randomness and Complexity Rodney G. Downey,Denis R. Hirschfeldt,2010-10-29 Computability and complexity theory are two central areas of research in theoretical computer science This book provides a systematic technical development of algorithmic randomness and complexity for scientists from diverse fields *Algorithmic Information Theory* Gregory J. Chaitin,1987-10-15 Chaitin the inventor of algorithmic information theory presents in this book the strongest possible version of G del's incompleteness theorem using an information theoretic approach based on the size of computer programs One half of the book is concerned with studying the halting probability of a universal computer if its program is chosen by tossing a coin The other half is concerned with encoding the halting probability as an algebraic equation in integers a so called exponential diophantine equation Exploring RANDOMNESS Gregory J. Chaitin,2012-12-06 In *The Unknowable* I use LISP to compare my work on incompleteness with that of Gdel and Turing and in *The Limits of Mathematics* I use LISP to discuss my work on incompleteness in more detail In this book we ll use LISP to

explore my theory of randomness called algorithmic information theory AIT And when I say explore I mean it This book is full of exercises for the reader ranging from the mathematical equivalent of trivial finger warm ups for pianists to substantial programming projects to questions I can formulate precisely but don't know how to answer to questions that I don't even know how to formulate precisely I really want you to follow my example and hike off into the wilderness and explore AIT on your own You can stay on the trails that I've blazed and explore the well known part of AIT or you can go off on your own and become a fellow researcher a colleague of mine One way or another the goal of this book is to make you into a participant not a passive observer of AIT In other words it's too easy to just listen to a recording of AIT that's not the way to learn music

Randomness and Ergodic Theory Cristóbal Rojas González, 2008 Algorithmics for Hard Problems Juraj

Hromkovič, 2013-03-14 Algorithmic design especially for hard problems is more essential for success in solving them than any standard improvement of current computer technologies Because of this the design of algorithms for solving hard problems is the core of current algorithmic research from the theoretical point of view as well as from the practical point of view There are many general text books on algorithmics and several specialized books devoted to particular approaches such as local search randomization approximation algorithms or heuristics But there is no textbook that focuses on the design of algorithms for hard computing tasks and that systematically explains combines and compares the main possibilities for attacking hard algorithmic problems As this topic is fundamental for computer science this book tries to close this gap Another motivation and probably the main reason for writing this book is connected to education The considered area has developed very dynamically in recent years and the research on this topic discovered several profound results new concepts and new methods Some of the achieved contributions are so fundamental that one can speak about paradigms which should be included in the education of every computer science student Unfortunately this is very far from reality This is because these paradigms are not sufficiently known in the computer science community and so they are insufficiently communicated to students and practitioners

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