

USING HARD PROBLEMS TO CREATE PSEUDORANDOM GENERATORS

NOVEN 2006

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Using Hard Problems To Create Pseudorandom Generators

Noam Nisan



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Using Hard Problems to Create Pseudorandom Generators Noam Nisan, 1988 This thesis describes two methods of constructing pseudorandom generators from hard problems

Using Hard Problems to Create Pseudorandom Generators B. Nisan, 1992

Algorithms and Computation Prosenjit K. Bose, Pat Morin, 2003-08-02 Annotation This book constitutes the refereed proceedings of the 13th Annual International Symposium on Algorithms and Computation ISAAC 2002 held in Vancouver BC Canada in November 2002 The 54 revised full papers presented together with 3 invited contributions were carefully reviewed and selected from close to 160 submissions The papers cover all relevant topics in algorithmics and computation in particular computational geometry algorithms and data structures approximation algorithms randomized algorithms graph drawing and graph algorithms combinatorial optimization computational biology computational finance cryptography and parallel and distributed algorithms

Automata, Languages and Programming Friedhelm Meyer auf der Heide, Burkhard Monien, 1996-06-26 This volume constitutes the refereed proceedings of the 23rd International Colloquium on Automata Languages and Programming ICALP 96 held at Paderborn Germany in July 1996 ICALP is an annual conference sponsored by the European Association on Theoretical Computer Science EATCS The proceedings contain 52 refereed papers selected from 172 submissions and 4 invited papers The papers cover the whole range of theoretical computer science they are organized in sections on Process Theory Fairness Domination and the u Calculus Logic and Algebra Languages and Processes Algebraic Complexity Graph Algorithms Automata Complexity Theory Combinatorics on Words Algorithms Lower Bounds Data Structures

Current Trends In Theoretical Computer Science - Entering The 21st Century Gheorghe Paun, Grzegorz Rozenberg, Arto Salomaa, 2001-02-12 The scientific developments at the end of the past millennium were dominated by the huge increase and diversity of disciplines with the common label computer science The theoretical foundations of such disciplines have become known as theoretical computer science This book highlights some key issues of theoretical computer science as they seem to us now at the beginning of the new millennium The text is based on columns and tutorials published in the Bulletin of the European Association for Theoretical Computer Science in the period 1995 2000 The columnists themselves selected the material they wanted for the book and the editors had a chance to update their work Indeed much of the material presented here appears in a form quite different from the original Since the presentation of most of the articles is reader friendly and does not presuppose much knowledge of the area the book constitutes suitable supplementary reading material for various courses in computer science

Complexity Theory Lane A. Hemaspaandra, Alan L. Selman, 1997-06-05 This volume provides a survey of the subject in the form of a collection of articles written by experts that together provides a comprehensive guide to research The editors aim has been to provide an accessible description of the current state of complexity theory and to demonstrate the breadth of techniques and results that make this subject so exciting Thus papers run the gamut from sublogarithmic space to exponential time and

from new combinatorial techniques to interactive proof systems

Genetic Programming John R. Koza, 1992 In this ground breaking book John Koza shows how this remarkable paradigm works and provides substantial empirical evidence that solutions to a great variety of problems from many different fields can be found by genetically breeding populations of computer programs Genetic programming may be more powerful than neural networks and other machine learning techniques able to solve problems in a wider range of disciplines In this ground breaking book John Koza shows how this remarkable paradigm works and provides substantial empirical evidence that solutions to a great variety of problems from many different fields can be found by genetically breeding populations of computer programs Genetic Programming contains a great many worked examples and includes a sample computer code that will allow readers to run their own programs In getting computers to solve problems without being explicitly programmed Koza stresses two points that seemingly different problems from a variety of fields can be reformulated as problems of program induction and that the recently developed genetic programming paradigm provides a way to search the space of possible computer programs for a highly fit individual computer program to solve the problems of program induction Good programs are found by evolving them in a computer against a fitness measure instead of by sitting down and writing them

STACS 96 Claude Puech, Rüdiger Reischuk, 1996-02-14 This book constitutes the refereed proceedings of the 13th Symposium on Theoretical Aspects of Computer Science STACS 96 held in Grenoble France in February 1996 The 52 revised papers presented were selected from a total of 185 submissions also included are three invited papers The volume addresses all current aspects of theoretical computer science and is organized in sections on complexity theory automata theory parallel algorithms learning parallel and distributed systems cryptography logic and database theory algorithms semantics and program verification and communication complexity

Report, 1988

Randomization and Approximation Techniques in Computer Science Jose Rolim, 1997-06-25 Astronomy is the oldest and most fundamental of the natural sciences From the early beginnings of civilization astronomers have attempted to explain not only what the Universe is and how it works but also how it started how it evolved to the present day and how it will develop in the future The author a well known astronomer himself describes the evolution of astronomical ideas briefly discussing most of the instrumental developments Using numerous figures to elucidate the mechanisms involved the book starts with the astronomical ideas of the Egyptian and Mesopotamian philosophers moves on to the Greek period and then to the golden age of astronomy i e to Copernicus Galileo Kepler and Newton and ends with modern theories of cosmology Written with undergraduate students in mind this book gives a fascinating survey of astronomical thinking

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