Madhu Sudan

Efficient Checking of Polynomials and Proofs and the Hardness of Approximation Problems

```
program T(f,0);
Repeat O(\frac{1}{\delta^2}) times
Pick x,h\in_R F^m and t\in_R F
Let p=O(x,h)
Verify that p(t)=f(x+t*h)
Reject if the test fails
```

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STACS 2001 Afonso Ferreira, Horst Reichel, 2001-02-07 This book constitutes the refereed proceedings of the 18th Annual Symposium on Theoretical Aspects of Computer Science STACS 2001 held in Dresden Germany in February 2001 The 46 revised full papers presented together with three invited papers were carefully reviewed and selected from a total of 153 submissions The papers address foundational aspects from all current areas of theoretical computer science including algorithms data structures automata formal languages complexity verification logic graph theory optimization etc

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One notable example is the type of approximation that arises in numer ical analysis or in computational geometry from the fact that we cannot perform computations with arbitrary precision and we have to truncate the representation of real numbers In other cases we use to approximate complex mathematical objects by simpler ones for example we sometimes represent non linear functions by means of piecewise linear ones The need to solve difficult optimization problems is another reason that forces us to deal with approximation In particular when a problem is computationally hard i e the only way we know to solve it is by making use of an algorithm that runs in exponential time it may be practically unfeasible to try to compute the exact solution because it might require months or years of machine time even with the help of powerful parallel computers In such cases we may decide to restrict ourselves to compute a solution that though not being an optimal one nevertheless is close to the optimum and may be determined in polynomial time We call this type of solution an approximate solution and the corresponding algorithm a polynomial time approximation algorithm Most combinatorial optimization problems of great practical relevance are indeed computationally intractable in the above sense In formal terms they are classified as Np hard optimization problems The Mathematics of Paul Erdős I Ronald L. Graham, Jaroslav Nešetřil, Steve Butler, 2013-08-04 This is the most comprehensive survey of the mathematical life of the legendary Paul Erd s 1913 1996 one of the most versatile and prolific mathematicians of our time For the first time all the main areas of Erd's research are covered in a single project Because of overwhelming response from the mathematical community the project now occupies over 1000 pages arranged into two volumes These volumes contain both high level research articles as well as key articles that survey some of the cornerstones of Erd's work each written by a leading world specialist in the field A special chapter Early Days rare photographs and art related to Erd's complement this striking collection A unique contribution is the bibliography on Erd's publications the most comprehensive ever published This new edition dedicated to the 100th anniversary of Paul Erd's birth contains updates on many of the articles from the two volumes of the first edition several new articles from prominent mathematicians a new introduction more biographical information about Paul Erd s and an updated list of publications The first volume contains the unique chapter Early Days which features personal memories of Paul Erd's by a number of his colleagues. The other three chapters cover number theory random methods and geometry All of these chapters are essentially updated most notably the geometry chapter that covers the recent solution of the problem on the number of distinct distances in finite planar sets which was the most popular of Erd s favorite geometry problems Randomization and Approximation Techniques in Computer Science Michael Luby, Jose Rolim, Maria Serna, 2003-05-20 This book constitutes the refereed proceedings of the Second International Workshop on Randomization and Approximation Techniques in Computer Science RANDOM 98 held in Barcelona Spain in October 1998 The 26 revised full papers presented were carefully reviewed and selected for inclusion in the proceedings Also included are three invited contributions Among the topics addressed are graph computation derandomization pattern matching computational geometry approximation algorithms search algorithms sorting and networking algorithms **First European Congress of Mathematics** Anthony Joseph, 1994 Approximation, Randomization, and Combinatorial Optimization. Algorithms and Techniques Leslie Ann Goldberg, Klaus Jansen, R. Ravi, José D.P. Rolim, 2011-08-05 This book constitutes the joint refereed proceedings of the 14th International Workshop on Approximation Algorithms for Combinatorial Optimization Problems APPROX 2011 and the 15th International Workshop on Randomization and Computation RANDOM 2011 held in Princeton New Jersey USA in August 2011 The volume presents 29 revised full papers of the APPROX 2011 workshop selected from 66 submissions and 29 revised full papers of the RANDOM 2011 workshop selected from 64 submissions They were carefully reviewed and selected for inclusion in the book In addition two abstracts of invited talks are included APPROX focuses on algorithmic and complexity issues surrounding the development of efficient approximate solutions to computationally difficult problems RANDOM is concerned with applications of randomness to computational and combinatorial problems *Advances in Cryptology - EUROCRYPT 2000* Bart Preneel,2003-06-26 This book constitutes the refereed proceedings of the International Conference on the Theory and Application of Cryptographic Techniques EUROCRYPT 2000 held in Bruges Belgium in May 2000 The 39 revised full papers presented were carefully selected from a total of 150 submissions during a highly competitive reviewing process The book is divided in topical sections

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