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Randomization Methods in Algorithm Design

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Panos Pardalos
Sanguthevar Rajasekaran
José Rolim
Editors



American Mathematical Society

**Randomization Methods In Algorithm Design Dimacs
Workshop December 12 14 1997**

Patrick Vollmar



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Randomization Methods in Algorithm Design Panos M. Pardalos, Sanguthevar Rajasekaran, 1999 This volume is based on proceedings held during the DIMACS workshop on Randomization Methods in Algorithm Design in December 1997 at Princeton The workshop was part of the DIMACS Special Year on Discrete Probability It served as an interdisciplinary research workshop that brought together a mix of leading theorists algorithmists and practitioners working in the theory and implementation aspects of algorithms involving randomization Randomization has played an important role in the design of both sequential and parallel algorithms The last decade has witnessed tremendous growth in the area of randomized algorithms During this period randomized algorithms went from being a tool in computational number theory to finding widespread applications in many problem domains Major topics covered include randomization techniques for linear and integer programming problems randomization in the design of approximate algorithms for combinatorial problems randomization in parallel and distributed algorithms practical implementation of randomized algorithms de randomization issues and pseudo random generators This volume focuses on theory and implementation aspects of algorithms involving randomization It would be suitable as a graduate or advanced graduate text

Handbook of Approximation Algorithms and Metaheuristics Teofilo F. Gonzalez, 2018-05-15 Handbook of Approximation Algorithms and Metaheuristics Second Edition reflects the tremendous growth in the field over the past two decades Through contributions from leading experts this handbook provides a comprehensive introduction to the underlying theory and methodologies as well as the various applications of approximation algorithms and metaheuristics Volume 1 of this two volume set deals primarily with methodologies and traditional applications It includes restriction relaxation local ratio approximation schemes randomization tabu search evolutionary computation local search neural networks and other metaheuristics It also explores multi objective optimization reoptimization sensitivity analysis and stability Traditional applications covered include bin packing multi dimensional packing Steiner trees traveling salesperson scheduling and related problems Volume 2 focuses on the contemporary and emerging applications of methodologies to problems in combinatorial optimization computational geometry and graphs problems as well as in large scale and emerging application areas It includes approximation algorithms and heuristics for clustering networks sensor and wireless communication bioinformatics search streams virtual communities and more About the Editor Teofilo F Gonzalez is a professor emeritus of computer science at the University of California Santa Barbara He completed his Ph D in 1975 from the University of Minnesota He taught at the University of Oklahoma the Pennsylvania State University and the University of Texas at Dallas before joining the UCSB computer science faculty in 1984 He spent sabbatical leaves at the Monterrey Institute of Technology and Higher Education and Utrecht University He is known for his highly cited pioneering research in the hardness of approximation for his sublinear and best possible approximation algorithm for k tMM clustering for introducing the open shop scheduling problem as well as algorithms for its

solution that have found applications in numerous research areas as well as for his research on problems in the areas of job scheduling graph algorithms computational geometry message communication wire routing etc Frontiers in Nature-Inspired Industrial Optimization Mahdi Khosravy, Neeraj Gupta, Nilesh Patel, 2021-08-06 The book provides a collection of recent applications of nature inspired optimization in industrial fields Different optimization techniques have been deployed and different problems have been effectively analyzed The valuable contributions from researchers focus on three ultimate goals i improving the accuracy of these techniques ii achieving higher speed and lower computational complexity and iii working on their proposed applications The book is helpful for active researchers and practitioners in the field *The Cumulative Book Index*, 1999 **American Book Publishing Record Cumulative 1998** R R Bowker Publishing, 1999-03 **Subject Guide to Books in Print**, 2001 *Books In Print 2004-2005* Ed Bowker Staff, Staff Bowker, Ed, 2004 **Index of Conference Proceedings** British Library. Document Supply Centre, 1999 **Annual ACM Symposium on Parallel Algorithms and Architectures**, 1999 *The IEEE Computer Society's 12th Annual International Symposium on Modeling, Analysis, and Simulation of Computer and Telecommunications Systems (MASCOTS 2004)*, 2004 MASCOTS 2004 looks at how models can be calibrated and validated against real world observations The papers explore wireless and mobile networks networks and protocols stochastic models queueing networks Internet architecture and applications P2P systems routing algorithms and storage systems **SPAA**, 1999 **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 *Randomization and Approximation Techniques in Computer Science* Jose D.P. Rolim, Salil Vadhan, 2003-08-03 This book constitutes the refereed proceedings of the 6th International Workshop on Randomization and Approximation Techniques in Computer Science RANDOM 2002 held in Cambridge MA USA in September 2002 The 21 revised full papers presented were carefully reviewed and selected from 48 submissions Among the topics addressed are coding geometric computations graph colorings random hypergraphs graph computations lattice computations proof systems probabilistic algorithms derandomization constraint satisfaction and web graphs analysis **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

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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

Randomization and Approximation Techniques in Computer Science Jose D.P. Rolim, Salil Vadhan, 2002-08-28 This book constitutes the refereed proceedings of the 6th International Workshop on Randomization and Approximation Techniques in Computer Science RANDOM 2002 held in Cambridge MA USA in September 2002 The 21 revised full papers presented were carefully reviewed and selected from 48 submissions Among the topics addressed are coding geometric computations graph colorings random hypergraphs graph computations lattice computations proof systems probabilistic algorithms derandomization constraint satisfaction and web graphs analysis

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