

MONOGRAPHS IN COMPUTER SCIENCE

PARAMETERIZED COMPLEXITY

R.G. Downey
M.R. Fellows



Springer

Parameterized Complexity Monographs In Computer Science

Rodney G. Downey, M.R. Fellows



Parameterized Complexity Monographs In Computer Science:

Parameterized Complexity Rodney G. Downey, M.R. Fellows, 2012-12-06 The idea for this book was conceived over the second bottle of Villa Maria's Cabernet Medoc 89 at the dinner of the Australasian Combinatorics Conference held at Palmerston North New Zealand in December 1990 where the authors first met and discovered they had a number of interests in common Initially we embarked on a small project to try to formulate reductions to address the apparent parameterized intractability of DOMINATING SET and to introduce a structure in which to frame our answers Having spent several months trying to get the definitions for the reductions right they now seem so obvious we turned to our tattered copies of Garey and Johnson's work [239] We were stunned to find that virtually none of the classical reductions worked in the parameterized setting We then wondered if we'd be able to find any interesting reductions Several years many more bottles so many papers and reductions later it seemed that we had unwittingly stumbled upon what we believe is a truly central and new area of complexity theory It seemed to us that the material would be of great interest to people working in areas where exact algorithms for a small range of parameters are natural and useful e.g. Molecular Biology VLSI design The tractability theory was rich with distinctive and powerful techniques The intractability theory seemed to have a deep structure and techniques all of its own

Parameterized and Exact Computation Dániel Marx, Peter Rossmanith, 2012-03-16 This book constitutes the thoroughly refereed post conference proceedings of the 6th International Symposium on Parameterized and Exact Computation IPEC 2011 in Saarbrücken Germany in September 2011 The 21 revised full papers presented were carefully reviewed and selected from 40 submissions The topics addressed cover research in all aspects of parameterized and exact computation and complexity including but not limited to new techniques for the design and analysis of parameterized and exact algorithms fixed parameter tractability results parameterized complexity theory relationship between parameterized complexity and traditional complexity classifications applications of parameterized and exact computation and implementation issues of parameterized and exact algorithms

SOFSEM 2015: Theory and Practice of Computer Science Giuseppe Italiano, Tiziana Margaria-Steffen, Jaroslav Pokorný, Jean-Jacques Quisquater, Roger Wattenhofer, 2015-01-14 This book constitutes the proceedings of the 41st International Conference on Current Trends in Theory and Practice of Computer Science held in Písek Czech Republic during January 24-29 2015 The book features 8 invited talks and 42 regular papers which were carefully reviewed and selected from 101 submissions The papers are organized in topical sections named foundations of computer science software and Web engineering data information and knowledge engineering and cryptography security and verification

Graph-Theoretic Concepts in Computer Science Łukasz Kowalik, Michał Pilipczuk, Paweł Rzażewski, 2021-09-20 This book constitutes the proceedings of the 47th International Workshop on Graph Theoretic Concepts in Computer Science which was held during June 23-25 2021 The conference was planned to take place in Warsaw Poland but changed to an online event due to the COVID-19 pandemic The 30 full papers included in this volume

were carefully reviewed and selected from 73 submissions The conference aims to merge theory and practice by demonstrating how concepts from graph theory can be applied to various areas in computer science or by extracting new graph theoretic problems from applications Chapter Bears with Hats and Independence Polynomials is available open access under a Creative Commons Attribution 4.0 International License via link [springer.com](https://www.springer.com) Chapters 1, 6 and 22 are available open access under a Creative Commons Attribution 4.0 International License via link [springer.com](https://www.springer.com)

Handbook of Graph Theory, Combinatorial Optimization, and Algorithms Krishnaiyan "KT" Thulasiraman, Subramanian Arumugam, Andreas Brandstädt, Takao Nishizeki, 2016-01-05 The fusion between graph theory and combinatorial optimization has led to theoretically profound and practically useful algorithms yet there is no book that currently covers both areas together Handbook of Graph Theory Combinatorial Optimization and Algorithms is the first to present a unified comprehensive treatment of both graph theory and combinatorial optimization

Graph-Theoretic Concepts in Computer Science Andreas Brandstädt, Ekkehard Köhler, Klaus Meer, 2018-09-01 This book constitutes the revised selected papers of the 44th International Workshop on Graph Theoretic Concepts in Computer Science WG 2018 held in Cottbus Germany in June 2018 The 30 full papers presented in this volume were carefully reviewed and selected from 66 submissions They cover a wide range of areas aiming at connecting theory and applications by demonstrating how graph theoretic concepts can be applied in various areas of computer science Another focus is on presenting recent results and on identifying and exploring promising directions of future research

Optimization Theory, Decision Making, and Operations Research Applications Athanasios Migdalas, Angelo Sifaleras, Christos K Georgiadis, Jason Papathanasiou, Emmanouil Stiakakis, 2012-11-28 These proceedings consist of 30 selected research papers based on results presented at the 10th Balkan Conference 1st International Symposium on Operational Research BALCOR 2011 held in Thessaloniki Greece September 22-24 2011 BALCOR is an established biennial conference attended by a large number of faculty researchers and students from the Balkan countries but also from other European and Mediterranean countries as well Over the past decade the BALCOR conference has facilitated the exchange of scientific and technical information on the subject of Operations Research and related fields such as Mathematical Programming Game Theory Multiple Criteria Decision Analysis Information Systems Data Mining and more in order to promote international scientific cooperation The carefully selected and refereed papers present important recent developments and modern applications and will serve as excellent reference for students researchers and practitioners in these disciplines

Mathematical Foundations of Computer Science 2010 Petr Hliněný, Antonín Kucera, 2010-08-10 This volume constitutes the refereed proceedings of the 35th International Symposium on Mathematical Foundations of Computer Science MFCS 2010 held in Brno Czech Republic in August 2010 The 56 revised full papers presented together with 5 invited talks were carefully reviewed and selected from 149 submissions Topics covered include algorithmic game theory algorithmic learning theory algorithms and data structures automata grammars and formal

languages bioinformatics complexity computational geometry computer assisted reasoning concurrency theory cryptography and security databases and knowledge based systems formal specifications and program development foundations of computing logic in computer science mobile computing models of computation networks parallel and distributed computing quantum computing semantics and verification of programs and theoretical issues in artificial intelligence *LATIN 2002: Theoretical Informatics* Sergio Rajsbaum, 2003-07-31 This book constitutes the refereed proceedings of the 5th International Symposium Latin American Theoretical Informatics LATIN 2002 held in Cancun Mexico in April 2002 The 44 revised full papers presented together with a tutorial and 7 abstracts of invited contributions were carefully reviewed and selected from a total of 104 submissions The papers presented are devoted to a broad range of topics from theoretical computer science and mathematical foundations with a certain focus on algorithmics and computations related to discrete structures

Algorithms and Data Structures Frank Dehne, Jörg Rüdiger Sack, Michiel Smid, 2003-10-02 The refereed proceedings of the 8th International Workshop on Algorithms and Data Structures WADS 2003 held in Ottawa Ontario Canada in July August 2003 The 40 revised full papers presented together with 4 invited papers were carefully reviewed and selected from 126 submissions A broad variety of current aspects in algorithmics and data structures is addressed

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