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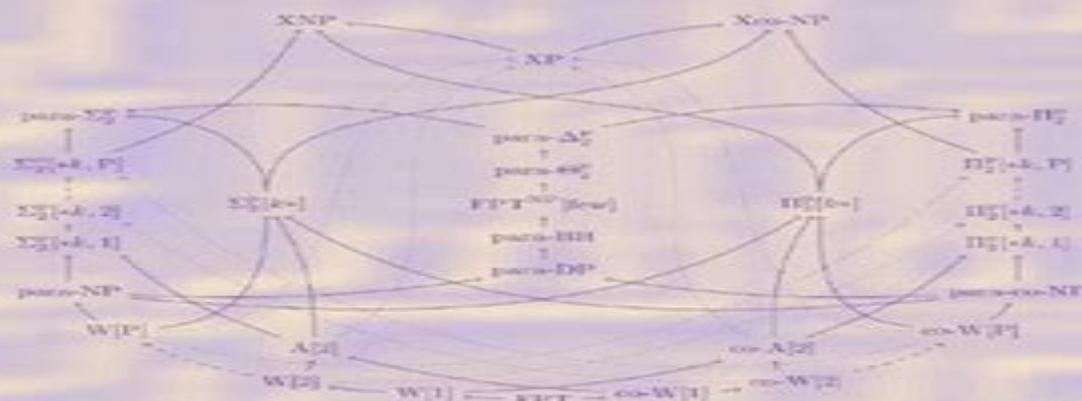
Parameterized Complexity in the Polynomial Hierarchy

Extending Parameterized Complexity Theory to Higher Levels of the Hierarchy

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Martin Grohe,Rolf Niedermeier

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Parameterized Complexity Theory J. Flum,M. Grohe,2006-05-01 Parameterized complexity theory is a recent branch of computational complexity theory that provides a framework for a refined analysis of hard algorithmic problems The central notion of the theory fixed parameter tractability has led to the development of various new algorithmic techniques and a whole new theory of intractability This book is a state of the art introduction to both algorithmic techniques for fixed parameter tractability and the structural theory of parameterized complexity classes and it presents detailed proofs of recent advanced results that have not appeared in book form before Several chapters are each devoted to intractability algorithmic techniques for designing fixed parameter tractable algorithms and bounded fixed parameter tractability and subexponential time complexity The treatment is comprehensive and the reader is supported with exercises notes a detailed index and some background on complexity theory and logic The book will be of interest to computer scientists mathematicians and graduate students engaged with algorithms and problem complexity   **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 Caber net Medot 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 parame terized 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 3 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 Complexity in the Polynomial Hierarchy* Ronald de Haan,2019-12-30 Parameterized Complexity in the Polynomial Hierarchy was co recipient of the E W Beth Dissertation Prize 2017 for outstanding dissertations in the fields of logic language and information This work extends the theory of parameterized complexity to higher levels of the Polynomial Hierarchy PH For problems at higher levels of the PH a promising solving approach is to develop fixed parameter tractable reductions to SAT and to subsequently use a SAT solving algorithm to solve the problem In this dissertation a theoretical toolbox is developed that can be used to classify in which cases this is possible The use of this toolbox is illustrated by applying it to analyze a wide range of problems from various areas of computer science and artificial intelligence   **Parameterized Complexity**

Applied in Algorithmic Game Theory Mahdi Parsa,2011 Abstract The modern mathematical treatment of the study of decisions taken by participants whose interests are in conflict is now generally labeled as 2game theory3 To understand these interactions the theory provides some solution concepts An important such a concept is the notion of Nash equilibrium which provides a way of predicting the behavior of strategic participants in situations of conflicts However many decision problems regarding to the computation of Nash equilibrium are computationally hard Motivated by these hardness results we study the parameterized complexity of the Nash equilibrium In parameterized complexity one considers computational problems in a twodimensional setting the first dimension is the usual input size n the second dimension is a positive integer k the parameter A problem is fixed parameter tractable FPT if it can be solved in time f k nO 1 where f denotes a computable possibly exponential function We show that some decision problems regarding to the computation of Nash equilibrium are hard even in parameterized complexity theory However we provide FPT algorithms for some other problems relevant to the computation of Nash equilibrium   *Parameterized and Exact Computation* Gregory Gutin,Stefan Szeider,2013-11-29 This book constitutes the thoroughly refereed post conference proceedings of the 8th International Symposium on Parameterized and Exact Computation IPEC 2013 in Sophia Antipolis France in September 2013 The 29 revised full papers presented were carefully reviewed and selected from 58 submissions The topics addressed cover research in all aspects of parameterized exact algorithms and complexity including but are 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   Theory and Applications of Models of Computation Jan Kratochvil,Angsheng Li,Jiri Fiala,Petr Kolman,2010-05-20 This book constitutes the refereed proceedings of the 7th International Conference on Theory and Applications of Models of Computation TAMC 2010 held in Prague Czech Republic in June 2010 The 35 revised full papers presented together with 5 contributions of special sessions as well as 2 plenary talks were carefully reviewed and selected from 76 submissions The papers address the three main themes of the conference which were computability complexity and algorithms and present current research in these fields with aspects to theoretical computer science algorithmic mathematics and applications to the physical sciences   **Parameterized Complexity** Rodney G. Downey,M.R. Fellows,Michael Ralph Fellows,1999 This monograph presents an approach to complexity theory which offers a means of analyzing algorithms in terms of their tractability The authors consider the problem in terms of parameterized languages and taking k slices of the language In doing so the reader is introduced to new classes of algorithms which may be analyzed more precisely than heretofore The authors have made the book as self contained as possible and a lot of background material is included As a result computer scientists mathematicians and graduate students interested in the design and analysis of algorithms will find much of interest in this book   Language and Automata Theory

and Applications Adrian-Horia Dediu,Carlos Martín-Vide,Shunsuke Inenaga,2011-05-19 This book constitutes the refereed proceedings of the 5th International Conference on Language and Automata Theory and Applications LATA 2011 held in Tarragona Spain in May 2011 The 36 revised full papers presented together with four invited articles were carefully selected from 91 submissions Among the topics covered are algebraic language theory automata and logic systems analysis systems verifications computational complexity decidability unification graph transformations language based cryptography and applications in data mining computational learning and pattern recognition **STACS 2002** Helmut Alt,Afonso Ferreira,2003-08-03 This book constitutes the refereed proceedings of the 19th Annual Symposium on Theoretical Aspects of Computer Science STACS 2002 held in Antibes Juan les Pins France in March 2002 The 50 revised full papers presented together with three invited papers were carefully reviewed and selected from a total of 209 submissions The book offers topical sections on algorithms current challenges computational and structural complexity automata and formal languages and logic in computer science **ECAI 2016** G.A. Kaminka,M. Fox,P. Bouquet,2016-08-24 Artificial Intelligence continues to be one of the most exciting and fast developing fields of computer science This book presents the 177 long papers and 123 short papers accepted for ECAI 2016 the latest edition of the biennial European Conference on Artificial Intelligence Europe s premier venue for presenting scientific results in AI The conference was held in The Hague the Netherlands from August 29 to September 2 2016 ECAI 2016 also incorporated the conference on Prestigious Applications of Intelligent Systems PAIS 2016 and the Starting AI Researcher Symposium STAIRS The papers from PAIS are included in this volume the papers from STAIRS are published in a separate volume in the Frontiers in Artificial Intelligence and Applications FAIA series Organized by the European Association for Artificial Intelligence EurAI and the Benelux Association for Artificial Intelligence BNVKI the ECAI conference provides an opportunity for researchers to present and hear about the very best research in contemporary AI This proceedings will be of interest to all those seeking an overview of the very latest innovations and developments in this field **Invitation to Fixed-Parameter Algorithms** Rolf Niedermeier,2006-02-02 This research level text is an application oriented introduction to the growing and highly topical area of the development and analysis of efficient fixed parameter algorithms for optimally solving computationally hard combinatorial problems The book is divided into three parts a broad introduction that provides the general philosophy and motivation followed by coverage of algorithmic methods developed over the years in fixed parameter algorithmics forming the core of the book and a discussion of the essentials from parameterized hardness theory with a focus on W 1 hardness which parallels NP hardness then stating some relations to polynomial time approximation algorithms and finishing up with a list of selected case studies to show the wide range of applicability of the presented methodology Aimed at graduate and research mathematicians programmers algorithm designers and computer scientists the book introduces the basic techniques and results and provides a fresh view on this highly innovative field of algorithmic research **Parameterized and Exact Computation** Marek Cygan,Pinar

Heggernes,2014-12-02 This book constitutes the thoroughly refereed post conference proceedings of the 9th International Symposium on Parameterized and Exact Computation IPEC 2014 in Wroclaw Poland in September 2014 The 27 revised full papers presented together with one invited paper were carefully reviewed and selected from 42 submissions The topics addressed cover research in all aspects of parameterized exact algorithms and complexity including but are 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 exponential time computation and implementation issues of parameterized and exact exponential time algorithms *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 Saarbr cken 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 *Parameterized and Exact Computation* Martin Grohe,Rolf Niedermeier,2008-04-25 This book constitutes the refereed proceedings of the Third International Workshop on Parameterized and Exact Computation IWPEC 2008 held in Victoria Canada in May 2008 co located with the 40th ACM Symposium on Theory of Computing STOC 2008 The 17 revised full papers presented together with 3 invited lectures were carefully reviewed and selected from 32 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 parameterized complexity theory relationship between parameterized complexity and traditional complexity classifications applications of parameterized computation implementation and experiments high performance computing and fixed parameter tractability *Proceedings of the ...ACM Symposium on Theory of Computing* ,2007 Computational Complexity ,2003 This is an annual conference that deals with computational complexity in very broad terms Complexity 2003 looks into topics such as complexity classes algebraic complexity proof complexity interactive proof systems Kolmogorov complexity Reducibility communication complexity complexity and logic nonapproximability cryptographic complexity complexity and learning quantum computation circuits and other concrete computational models *The Multivariate Algorithmic Revolution and Beyond* Hans L. Bodlaender,Rodney Downey,Fedor V. Fomin,Dániel Marx,2012-06-16 Parameterized complexity is currently a thriving field in complexity theory and algorithm design A significant part of the success of the field can be attributed to Michael R Fellows This Festschrift has been published in honor

of Mike Fellows on the occasion of his 60th birthday It contains 20 papers that showcase the important scientific contributions of this remarkable man describes the history of the field of parameterized complexity and also reflects on other parts of Mike Fellows s unique and broad range of interests including his work on the popularization of discrete mathematics for young children The volume contains several surveys that introduce the reader to the field of parameterized complexity and discuss important notions results and developments in this field **Parameterized and Exact Computation** Dimitrios M. Thilikos,Gerhard J. Woeginger,2012-08-30 This book constitutes the refereed proceedings of the 7th International Symposium on Parameterized and Exact Computation IPEC 2012 in Ljubljana Slovenia in September 2012 The 21 revised full papers presented together with 2 keynote talks were carefully reviewed and selected from 37 submissions The topics addressed cover research in all aspects of parameterized exact algorithms and complexity including but are 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 *Structural Complexity and Recursion-theoretic Methods in Logic Programming* ,1993 **43rd Annual IEEE Symposium on Foundations of Computer Science** ,2002 Collects the 77 papers presented during the November 2002 symposium on the mathematical foundations of computing Among the topics are abstract combinatorial programs and efficient property testers a lower bound for testing 3 colorability in bounded degree graphs a spectral algorithm for learning

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