#### Fedor V. Fomin Dieter Kratsch

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# Exact Exponential Algorithms



## **Exact Exponential Algorithms Author Fedor V Fomin Dec 201**

Fedor V. Fomin, Dieter Kratsch

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**Exact Exponential Algorithms** Fedor V. Fomin, Dieter Kratsch, 2010-10-26 For a long time computer scientists have distinguished between fast and slow algo rithms Fast or good algorithms are the algorithms that run in polynomial time which means that the number of steps required for the algorithm to solve a problem is bounded by some polynomial in the length of the input All other algorithms are slow or bad The running time of slow algorithms is usually exponential This book is about bad algorithms. There are several reasons why we are interested in exponential time algorithms. Most of us believe that there are many natural problems which cannot be solved by polynomial time algorithms. The most famous and oldest family of hard problems is the family of NP complete problems Most likely there are no polynomial time algorithms solving these hard problems and in the worst case scenario the exponential running time is unavoidable Every combinatorial problem is solvable in nite time by enumerating all possi ble solutions i e by brute force search But is brute force search always unavoid able De nitely not Already in the nineteen sixties and seventies it was known that some NP complete problems can be solved signi cantly faster than by brute force search Three classic examples are the following algorithms for the TRAVELLING SALESMAN problem MAXIMUM INDEPENDENT SET and COLORING Parameterized Algorithms Marek Cygan, Fedor V. Fomin, Łukasz Kowalik, Daniel Lokshtanov, Dániel Marx, Marcin Pilipczuk, Michał Pilipczuk, Saket Saurabh, 2015-07-20 This comprehensive textbook presents a clean and coherent account of most fundamental tools and techniques in Parameterized Algorithms and is a self contained guide to the area The book covers many of the recent developments of the field including application of important separators branching based on linear programming Cut Count to obtain faster algorithms on tree decompositions algorithms based on representative families of matroids and use of the Strong Exponential Time Hypothesis A number of older results are revisited and explained in a modern and didactic way The book provides a toolbox of algorithmic techniques Part I is an overview of basic techniques each chapter discussing a certain algorithmic paradigm The material covered in this part can be used for an introductory course on fixed parameter tractability Part II discusses more advanced and specialized algorithmic ideas bringing the reader to the cutting edge of current research Part III presents complexity results and lower bounds giving negative evidence by way of W 1 hardness the Exponential Time Hypothesis and kernelization lower bounds All the results and concepts are introduced at a level accessible to graduate students and advanced undergraduate students Every chapter is accompanied by exercises many with hints while the bibliographic notes point to original publications and related work

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