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Nota di contenuto	The Path Taken for k-Path / Andreas Bjorklund -- Randomized Techniques for Parameterized Algorithms / Daniel Marx -- Finding a Maximum Induced Degenerate Subgraph Faster Than $2n$ / Marcin Pilipczuk and Micha Pilipczuk -- The Exponential Time Hypothesis and the Parameterized Clique Problem / Yijia Chen, Kord Eickmeyer and Jorg Flum -- New Results on Polynomial Inapproximability and Fixed Parameter Approximability of edge dominating set / Bruno Escoffier, Jerome Monnot, Vangelis Th. Paschos and Mingyu Xiao -- A New Algorithm for Parameterized MAX-SAT / Ivan Bliznets and Alexander Golovnev -- Restricted and Swap Common Superstring: A Parameterized View / Paola Bonizzoni, Riccardo Dondi, Giancarlo Mauri and Italo Zoppis -- Nonblocker in H-Minor Free Graphs: Kernelization

Meets Discharging / ukasz Kowalik -- Some Definitorial Suggestions for Parameterized Proof Complexity / Jorg Flum and Moritz Muller -- An Exact Algorithm for Subset Feedback Vertex Set on Chordal Graphs / Petr A. Golovach, Pinar Heggernes, Dieter Kratsch and Reza Saei -- Preprocessing Subgraph and Minor Problems: When Does a Small Vertex Cover Help? / Fedor V. Fomin, Bart M. P. Jansen and Micha Pilipczuk -- A Polynomial-Time Algorithm for Planar Multicuts with Few Source-Sink Pairs / Cedric Bentz -- Instance Compression for the Polynomial Hierarchy and beyond / Chiranjit Chakraborty and Rahul Santhanam -- Polynomial Time and Parameterized Approximation Algorithms for Boxicity / Abhijin Adiga, Jasine Babu and L. Sunil Chandran -- Homomorphic Hashing for Sparse Coefficient Extraction / Petteri Kaski, Mikko Koivisto and Jesper Nederlof -- Fast Monotone Summation over Disjoint Sets / Petteri Kaski, Mikko Koivisto and Janne H. Korhonen -- Weighted Counting of  $k$ -Matchings Is  $\#W[1]$ -Hard / Markus Blaser and Radu Curticapean -- Computing Directed Pathwidth in  $O(1.89^n)$  Time / Kenta Kitsunai, Yasuaki Kobayashi, Keita Komuro, Hisao Tamaki and Toshihiro Tano -- MSOL Restricted Contractibility to Planar Graphs / James Abello, Pavel Klavik, Jan Kratochvil and Tomas Vyskocil -- On the Space Complexity of Parameterized Problems / Michael Elberfeld, Christoph Stockhusen and Till Tantau -- On Tractable Parameterizations of Graph Isomorphism / Adam Bouland, Anuj Dawar and Eryk Kopczynski -- Parameterized Algorithmics and Computational Experiments for Finding 2-Clubs / Sepp Hartung, Christian Komusiewicz and Andre Nichterlein -- Finding Dense Subgraphs of Sparse Graphs / Christian Komusiewicz and Manuel Sorge -- Enumerating Neighbour and Closest Strings / Naomi Nishimura and Narges Simjour -- An Improved Kernel for the Undirected Planar Feedback Vertex Set Problem / Faisal N. Abu-Khzam and Mazen Bou Khuzam.

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### Sommario/riassunto

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.

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