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Parameterized and Exact Computation

4th International Workshop, IWPEC 2009
Copenhagen, Denmark, September 10-11, 2009
Revised Selected Papers

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Preface

The Workshop on Parameterized and Exact Computation (IWPEC) is an international workshop series that covers research in all aspects of parameterized and exact algorithms and complexity, and especially encourages the study of parameterized and exact computations for real-world applications and algorithmic engineering. The goal of the workshop is to present recent research results, including significant work-in-progress, and to identify and explore directions for future research.

IWPEC 2009 was the fourth workshop in the series, held in Copenhagen, Denmark, during September 10-11, 2009. The workshop was part of ALGO 2009, which also hosted the 17th European Symposium on Algorithms (ESA 2009), the 9th Workshop on Algorithmic Approaches for Transportation Modelling, Optimization, and Systems (ATMOS 2009), and the 7th Workshop on Approximation and Online Algorithms (WAOA 2009). Three previous meetings of the IWPEC series were held in Bergen, Norway, 2004, Zürich, Switzerland, 2006, and Victoria, Canada, 2008.

At IWPEC 2009, we had two plenary speakers, Noga Alon (Tel Aviv University, Israel) and Hans Bodlaender (Utrecht University, The Netherlands), giving 50-minute talks each. Professor Alon spoke on “Color Coding, Balanced Hashing and Approximate Counting,” and Professor Bodlaender on “Kernelization: New Upper and Lower Bound Techniques.” Their respective abstracts accompanying the talks are included in these proceedings.

In response to the Call for Papers, 52 papers were submitted. Each submission was reviewed by at least three reviewers (most by at least four). The reviewers were either Program Committee members or invited external reviewers. The Program Committee held electronic meetings using the EasyChair system, went through thorough discussions, and selected 25 of the submissions for presentation at the workshop and inclusion in this LNCS volume.

We are very grateful to the Program Committee, and the external reviewers they called on, for the hard work and expertise which they brought to the difficult selection process. We also wish to thank all the authors who submitted their work for our consideration. Special thanks go to Thore Husfeldt for the local organization of the ALGO 2009 conference in Copenhagen.

Finally, we would like to thank the members of the Editorial Board of *Lecture Notes in Computer Science* and the Editors at Springer for their encouragement and cooperation throughout the preparation of these proceedings.

November 2009

Jianer Chen
Fedor Fomin

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Table of Contents

Balanced Hashing, Color Coding and Approximate Counting (Invited Talk)	1
<i>Noga Alon and Shai Gutner</i>	
Kernelization: New Upper and Lower Bound Techniques (Invited Talk)	17
<i>Hans L. Bodlaender</i>	
A Faster Fixed-Parameter Approach to Drawing Binary Tanglegrams ...	38
<i>Sebastian Böcker, Falk Hüffner, Anke Truss, and Magnus Wahlström</i>	
Planar Capacitated Dominating Set Is $W[1]$ -Hard	50
<i>Hans L. Bodlaender, Daniel Lokshantov, and Eelko Penninkx</i>	
Boolean-Width of Graphs	61
<i>Binh-Minh Bui-Xuan, Jan Arne Telle, and Martin Vatshelle</i>	
The Complexity of Satisfiability of Small Depth Circuits	75
<i>Chris Calabro, Russell Impagliazzo, and Ramamohan Paturi</i>	
On Finding Directed Trees with Many Leaves	86
<i>Jean Daligault and Stéphan Thomassé</i>	
Bounded-Degree Techniques Accelerate Some Parameterized Graph Algorithms	98
<i>Peter Damaschke</i>	
Pareto Complexity of Two-Parameter FPT Problems: A Case Study for Partial Vertex Cover	110
<i>Peter Damaschke</i>	
What Makes Equitable Connected Partition Easy	122
<i>Rosa Enciso, Michael R. Fellows, Jiong Guo, Iyad Kanj, Frances Rosamond, and Ondřej Suchý</i>	
Improved Induced Matchings in Sparse Graphs	134
<i>Rok Erman, Łukasz Kowalik, Matjaž Krnc, and Tomasz Waleń</i>	
Well-Quasi-Orders in Subclasses of Bounded Treewidth Graphs	149
<i>Michael R. Fellows, Danny Hermelin, and Frances A. Rosamond</i>	
An Exact Algorithm for the Maximum Leaf Spanning Tree Problem	161
<i>Henning Fernau, Joachim Kneis, Dieter Kratsch, Alexander Langer, Mathieu Liedloff, Daniel Raible, and Peter Rossmanith</i>	

An Exponential Time 2-Approximation Algorithm for Bandwidth	173
<i>Martin Fürer, Serge Gaspers, and Shiva Prasad Kasiviswanathan</i>	
On Digraph Width Measures in Parameterized Algorithmics	185
<i>Robert Ganian, Petr Hliněný, Joachim Kneis, Alexander Langer, Jan Obdržálek, and Peter Rossmanith</i>	
The Parameterized Complexity of Some Geometric Problems in Unbounded Dimension	198
<i>Panos Giannopoulos, Christian Knauer, and Günter Rote</i>	
Paths of Bounded Length and Their Cuts: Parameterized Complexity and Algorithms	210
<i>Petr A. Golovach and Dimitrios M. Thilikos</i>	
Fixed-Parameter Algorithms in Analysis of Heuristics for Extracting Networks in Linear Programs	222
<i>Gregory Gutin, Daniel Karapetyan, and Igor Razgon</i>	
A Probabilistic Approach to Problems Parameterized above or below Tight Bounds	234
<i>Gregory Gutin, Eun Jung Kim, Stefan Szeider, and Anders Yeo</i>	
Polynomial Kernels and Faster Algorithms for the Dominating Set Problem on Graphs with an Excluded Minor	246
<i>Shai Gutner</i>	
Partitioning into Sets of Bounded Cardinality	258
<i>Mikko Koivisto</i>	
Two Edge Modification Problems without Polynomial Kernels	264
<i>Stefan Kratsch and Magnus Wahlström</i>	
On the Directed Degree-Preserving Spanning Tree Problem	276
<i>Daniel Lokshantov, Venkatesh Raman, Saket Saurabh, and Somnath Sikdar</i>	
Even Faster Algorithm for SET SPLITTING!	288
<i>Daniel Lokshantov and Saket Saurabh</i>	
Stable Assignment with Couples: Parameterized Complexity and Local Search	300
<i>Dániel Marx and Ildikó Schlotter</i>	
Improved Parameterized Algorithms for the Kemeny Aggregation Problem	312
<i>Narges Simjour</i>	
Computing Pathwidth Faster Than 2^n	324
<i>Karol Suchan and Yngve Villanger</i>	
Author Index	337