

Contents

A Faster FPT Algorithm and a Smaller Kernel for BLOCK GRAPH VERTEX DELETION	1
<i>Akanksha Agrawal, Sudeshna Kolay, Daniel Lokshantov, and Saket Saurabh</i>	
A Middle Curve Based on Discrete Fréchet Distance.	14
<i>Hee-Kap Ahn, Helmut Alt, Maike Buchin, Eunjin Oh, Ludmila Scharf, and Carola Wenk</i>	
Comparison-Based FIFO Buffer Management in QoS Switches.	27
<i>Kamal Al-Bawani, Matthias Englert, and Matthias Westermann</i>	
Scheduling on Power-Heterogeneous Processors	41
<i>Susanne Albers, Evripidis Bampis, Dimitrios Letsios, Giorgio Lucarelli, and Richard Stotz</i>	
Period Recovery over the Hamming and Edit Distances.	55
<i>Amihoud Amir, Mika Amit, Gad M. Landau, and Dina Sokol</i>	
Chasing Convex Bodies and Functions	68
<i>Antonios Antoniadis, Neal Barcelo, Michael Nugent, Kirk Pruhs, Kevin Schewior, and Michele Scquizzato</i>	
Parameterized Lower Bounds and Dichotomy Results for the NP-completeness of H -free Edge Modification Problems	82
<i>N.R. Aravind, R.B. Sandeep, and Naveen Sivadasan</i>	
Parameterized Complexity of RED BLUE SET COVER for Lines	96
<i>Pradeesha Ashok, Sudeshna Kolay, and Saket Saurabh</i>	
Tight Bounds for Beacon-Based Coverage in Simple Rectilinear Polygons . . .	110
<i>Sang Won Bae, Chan-Su Shin, and Antoine Vigneron</i>	
On Mobile Agent Verifiable Problems	123
<i>Evangelos Bampas and David Ilcinkas</i>	
Computing Maximal Layers of Points in $E^{f(n)}$	138
<i>Indranil Banerjee and Dana Richards</i>	
On the Total Number of Bends for Planar Octilinear Drawings.	152
<i>Michael A. Bekos, Michael Kaufmann, and Robert Krug</i>	

Bidirectional Variable-Order de Bruijn Graphs	164
<i>Djamal Belazzougui, Travis Gagie, Veli Mäkinen, Marco Previtali, and Simon J. Puglisi</i>	
The Read/Write Protocol Complex Is Collapsible	179
<i>Fernando Benavides and Sergio Rajsbaum</i>	
The I/O Complexity of Computing Prime Tables	192
<i>Michael A. Bender, Rezaul Chowdhury, Alexander Conway, Martín Farach-Colton, Pramod Ganapathi, Rob Johnson, Samuel McCauley, Bertrand Simon, and Shikha Singh</i>	
Increasing Diamonds	207
<i>Olivier Bodini, Matthieu Dien, Xavier Fontaine, Antoine Genitrini, and Hsien-Kuei Hwang</i>	
Scheduling Transfers of Resources over Time: Towards Car-Sharing with Flexible Drop-Offs.	220
<i>Kateřina Böhmová, Yann Disser, Matúš Mihalák, and Rastislav Šrámek</i>	
A 0.821-Ratio Purely Combinatorial Algorithm for Maximum k -vertex Cover in Bipartite Graphs	235
<i>Édouard Bonnet, Bruno Escoffier, Vangelis Th. Paschos, and Georgios Stamoulis</i>	
Improved Spanning Ratio for Low Degree Plane Spanners	249
<i>Prosenjit Bose, Darryl Hill, and Michiel Smid</i>	
Constructing Consistent Digital Line Segments	263
<i>Iffat Chowdhury and Matt Gibson</i>	
Faster Information Gathering in Ad-Hoc Radio Tree Networks	275
<i>Marek Chrobak and Kevin P. Costello</i>	
Stabbing Circles for Sets of Segments in the Plane	290
<i>Mercè Claverol, Elena Khramtcova, Evanthia Papadopoulou, Maria Saumell, and Carlos Seara</i>	
Faster Algorithms to Enumerate Hypergraph Transversals	306
<i>Manfred Cochefert, Jean-François Couturier, Serge Gaspers, and Dieter Kratsch</i>	
Listing Acyclic Orientations of Graphs with Single and Multiple Sources. . . .	319
<i>Alessio Conte, Roberto Grossi, Andrea Marino, and Romeo Rizzi</i>	
Linear-Time Sequence Comparison Using Minimal Absent Words & Applications	334
<i>Maxime Crochemore, Gabriele Fici, Robert Mercas, and Solon P. Pissis</i>	

The Grandmama de Bruijn Sequence for Binary Strings.	347
<i>Patrick Baxter Dragon, Oscar I. Hernandez, and Aaron Williams</i>	
Compressing Bounded Degree Graphs.	362
<i>Pål Grønås Drange, Markus Dregi, and R.B. Sandeep</i>	
Random Partial Match in Quad- K -d Trees	376
<i>A. Duch, G. Lau, and C. Martínez</i>	
From Discrepancy to Majority	390
<i>David Eppstein and Daniel S. Hirschberg</i>	
On the Planar Split Thickness of Graphs	403
<i>David Eppstein, Philipp Kindermann, Stephen Kobourov, Giuseppe Liotta, Anna Lubiw, Aude Maignan, Debajyoti Mondal, Hamideh Vosoughpour, Sue Whitesides, and Stephen Wismath</i>	
A Bounded-Risk Mechanism for the Kidney Exchange Game.	416
<i>Hossein Esfandiari and Guy Kortsarz</i>	
Tight Approximations of Degeneracy in Large Graphs.	429
<i>Martín Farach-Colton and Meng-Tsung Tsai</i>	
Improved Approximation Algorithms for Capacitated Fault-Tolerant k -Center.	441
<i>Cristina G. Fernandes, Samuel P. de Paula, and Lehlilton L.C. Pedrosa</i>	
Bundled Crossings in Embedded Graphs	454
<i>Martin Fink, John Hershberger, Subhash Suri, and Kevin Verbeek</i>	
Probabilistic Analysis of the Dual Next-Fit Algorithm for Bin Covering	469
<i>Carsten Fischer and Heiko Röglin</i>	
Deterministic Sparse Suffix Sorting on Rewritable Texts	483
<i>Johannes Fischer, Tomohiro I., and Dominik Köppl</i>	
Minimizing the Number of Opinions for Fault-Tolerant Distributed Decision Using Well-Quasi Orderings	497
<i>Pierre Fraigniaud, Sergio Rajsbaum, and Corentin Travers</i>	
Unshuffling Permutations.	509
<i>Samuele Giraudo and Stéphane Vialette</i>	
Generating Random Spanning Trees via Fast Matrix Multiplication.	522
<i>Nicholas J.A. Harvey and Keyulu Xu</i>	
Routing in Unit Disk Graphs	536
<i>Haim Kaplan, Wolfgang Mulzer, Liam Roditty, and Paul Seiferth</i>	

Graph Drawings with One Bend and Few Slopes	549
<i>Kolja Knauer and Bartosz Walczak</i>	
Edge-Editing to a Dense and a Sparse Graph Class	562
<i>Michal Kotrbčík, Rastislav Kráľovič, and Sebastian Ordyniak</i>	
Containment and Evasion in Stochastic Point Data	576
<i>Nirman Kumar and Subhash Suri</i>	
Tree Compression Using String Grammars	590
<i>Moses Ganardi, Danny Hucce, Markus Lohrey, and Eric Noeth</i>	
Trees and Languages with Periodic Signature	605
<i>Victor Marsault and Jacques Sakarovitch</i>	
Rank Reduction of Directed Graphs by Vertex and Edge Deletions	619
<i>Syed Mohammad Meesum and Saket Saurabh</i>	
New Deterministic Algorithms for Solving Parity Games	634
<i>Matthias Mnich, Heiko Röglin, and Clemens Rösner</i>	
Computing a Geodesic Two-Center of Points in a Simple Polygon	646
<i>Eunjin Oh, Sang Won Bae, and Hee-Kap Ahn</i>	
Simple Approximation Algorithms for Balanced MAX 2SAT	659
<i>Alice Paul, Matthias Poloczek, and David P. Williamson</i>	
A Parameterized Algorithm for MIXED-CUT	672
<i>Ashutosh Rai, M.S. Ramanujan, and Saket Saurabh</i>	
$(k, n - k)$ -MAX-CUT: An $\mathcal{O}^*(2^p)$ -Time Algorithm and a Polynomial Kernel . . .	686
<i>Saket Saurabh and Meirav Zehavi</i>	
Independent Set of Convex Polygons: From n^ϵ to $1 + \epsilon$ via Shrinking	700
<i>Andreas Wiese</i>	
Author Index	713

LATIN 2016: Theoretical Informatics

12th Latin American Symposium, Ensenada, Mexico,

April 11-15, 2016, Proceedings

Kranakis, E.; Navarro, G.; Chávez, E. (Eds.)

2016, XXVI, 714 p. 114 illus., Softcover

ISBN: 978-3-662-49528-5