

Contents

| | |
|---|-----|
| Practical Variable Length Gap Pattern Matching | 1 |
| <i>Johannes Bader, Simon Gog, and Matthias Petri</i> | |
| Fast Exact Computation of Isochrones in Road Networks. | 17 |
| <i>Moritz Baum, Valentin Buchhold, Julian Dibbelt, and Dorothea Wagner</i> | |
| Dynamic Time-Dependent Route Planning in Road Networks with User Preferences. | 33 |
| <i>Moritz Baum, Julian Dibbelt, Thomas Pajor, and Dorothea Wagner</i> | |
| UKP5: A New Algorithm for the Unbounded Knapsack Problem | 50 |
| <i>Henrique Becker and Luciana S. Buriol</i> | |
| Lempel-Ziv Decoding in External Memory. | 63 |
| <i>Djamal Belazzougui, Juha Kärkkäinen, Dominik Kempa, and Simon J. Puglisi</i> | |
| A Practical Method for the Minimum Genus of a Graph: Models and Experiments | 75 |
| <i>Stephan Beyer, Markus Chimani, Ivo Hedtke, and Michal Kotrbčik</i> | |
| Compact Flow Diagrams for State Sequences | 89 |
| <i>Kevin Buchin, Maike Buchin, Joachim Gudmundsson, Michael Horton, and Stef Sijben</i> | |
| Practical Dynamic Entropy-Compressed Bitvectors with Applications | 105 |
| <i>Joshimar Cordova and Gonzalo Navarro</i> | |
| Accelerating Local Search for the Maximum Independent Set Problem | 118 |
| <i>Jakob Dahlum, Sebastian Lamm, Peter Sanders, Christian Schulz, Darren Strash, and Renato F. Werneck</i> | |
| Computing Nonsimple Polygons of Minimum Perimeter | 134 |
| <i>Sándor P. Fekete, Andreas Haas, Michael Hemmer, Michael Hoffmann, Irina Kostitsyna, Dominik Krupke, Florian Maurer, Joseph S.B. Mitchell, Arne Schmidt, Christiane Schmidt, and Julian Troegel</i> | |
| Sparse Subgraphs for 2-Connectivity in Directed Graphs | 150 |
| <i>Loukas Georgiadis, Giuseppe F. Italiano, Aikaterini Karanasiou, Charis Papadopoulos, and Nikos Parotsidis</i> | |
| Worst-Case-Efficient Dynamic Arrays in Practice | 167 |
| <i>Jyrki Katajainen</i> | |

On the Solution of Circulant Weighing Matrices Problems Using Algorithm Portfolios on Multi-core Processors 184
Ilias S. Kotsireas, Panos M. Pardalos, Konstantinos E. Parsopoulos, and Dimitris Souravlias

Engineering Hybrid DenseZDDs 201
Taito Lee, Shuhei Denzumi, and Kunihiko Sadakane

Steiner Tree Heuristic in the Euclidean d-Space Using Bottleneck Distances . . . 217
Stephan S. Lorenzen and Pawel Winter

Tractable Pathfinding for the Stochastic On-Time Arrival Problem 231
Mehrdad Niknami and Samitha Samaranyake

An Experimental Evaluation of Fast Approximation Algorithms for the Maximum Satisfiability Problem 246
Matthias Poloczek and David P. Williamson

Experimental Analysis of Algorithms for Coflow Scheduling 262
Zhen Qiu, Clifford Stein, and Yuan Zhong

An Empirical Study of Online Packet Scheduling Algorithms 278
Nourhan Sakr and Cliff Stein

Advanced Multilevel Node Separator Algorithms 294
Peter Sanders and Christian Schulz

A Merging Heuristic for the Rectangle Decomposition of Binary Matrices . . . 310
Julien Subercaze, Christophe Gravier, and Pierre-Olivier Rocher

CHICO: A Compressed Hybrid Index for Repetitive Collections 326
Daniel Valenzuela

Fast Scalable Construction of (Minimal Perfect Hash) Functions 339
Marco Genuzio, Giuseppe Ottaviano, and Sebastiano Vigna

Better Partitions of Protein Graphs for Subsystem Quantum Chemistry 353
Moritz von Looz, Mario Wolter, Christoph R. Jacob, and Henning Meyerhenke

Online Algorithm for Approximate Quantile Queries on Sliding Windows . . . 369
Chun-Nam Yu, Michael Crouch, Ruichuan Chen, and Alessandra Sala

Author Index 385



<http://www.springer.com/978-3-319-38850-2>

Experimental Algorithms

15th International Symposium, SEA 2016, St.
Petersburg, Russia, June 5-8, 2016, Proceedings

Goldberg, A.V.; Kulikov, A.S. (Eds.)

2016, XVI, 386 p. 96 illus., Softcover

ISBN: 978-3-319-38850-2