

Table of Contents

Invited Presentations

On Salesmen, Repairmen, Spiders, and Other Traveling Agents	1
<i>G. Ausiello, S. Leonardi, A. Marchetti-Spaccamela</i>	
Computing a Diameter-Constrained Minimum Spanning Tree in Parallel . .	17
<i>N. Deo, A. Abdalla</i>	
Algorithms for a Simple Point Placement Problem	32
<i>J. Redstone, W.L. Ruzzo</i>	
Duality in ATM Layout Problems	44
<i>S. Zaks</i>	

Regular Presentations

The Independence Number of Random Interval Graphs	59
<i>W.F. de la Vega</i>	
Online Strategies for Backups	63
<i>P. Damaschke</i>	
Towards the Notion of Stability of Approximation for Hard Optimization Tasks and the Traveling Salesman Problem	72
<i>H.-J. Böckenhauer, J. Hromkovič, R. Klasing, S. Seibert, W. Unger</i>	
Semantical Counting Circuits	87
<i>F. Noilhan, M. Santha</i>	
The Hardness of Placing Street Names in a Manhattan Type Map	102
<i>S. Seibert, W. Unger</i>	
Labeling Downtown	113
<i>G. Neyer, F. Wagner</i>	
The Online Dial-a-Ride Problem under Reasonable Load	125
<i>D. Hauptmeier, S.O. Krumke, J. Rambau</i>	
The Online-TSP against Fair Adversaries	137
<i>M. Blom, S.O. Krumke, W. de Paepe, L. Stougie</i>	
QuickHeapsort, an Efficient Mix of Classical Sorting Algorithms	150
<i>D. Cantone, G. Cincotti</i>	

Triangulations without Minimum-Weight Drawing	163
<i>C.A. Wang, F.Y. Chin, B. Yang</i>	
Faster Exact Solutions for MAX2SAT	174
<i>J. Gramm, R. Niedermeier</i>	
Dynamically Maintaining the Widest k -Dense Corridor	187
<i>S.C. Nandy, T. Harayama, T. Asano</i>	
Reconstruction of Discrete Sets from Three or More X-Rays	199
<i>E. Barcucci, S. Brunetti, A. Del Lungo, M. Nivat</i>	
Modified Binary Searching for Static Tables	211
<i>D. Merlini, R. Sprugnoli, M.C. Verrì</i>	
An Efficient Algorithm for the Approximate Median Selection Problem ...	226
<i>S. Battiato, D. Cantone, D. Catalano, G. Cincotti, M. Hofri</i>	
Extending the Implicit Computational Complexity Approach to the Sub-elementary Time-Space Classes	239
<i>E. Covino, G. Pani, S. Caporaso</i>	
Group Updates for Red-Black Trees	253
<i>S. Hanke, E. Soisalon-Soininen</i>	
Approximating SVP_{∞} to within Almost-Polynomial Factors Is NP-Hard ..	263
<i>I. Dinur</i>	
Convergence Analysis of Simulated Annealing-Based Algorithms Solving Flow Shop Scheduling Problems	277
<i>K. Steinhöfel, A. Albrecht, C.K. Wong</i>	
On the Lovász Number of Certain Circulant Graphs	291
<i>V.E. Brimkov, B. Codenotti, V. Crespi, M. Leoncini</i>	
Speeding Up Pattern Matching by Text Compression	306
<i>Y. Shibata, T. Kida, S. Fukamachi, M. Takeda, A. Shinohara, T. Shinohara, S. Arikawa</i>	
Author Index	317

Algorithms and Complexity

4th Italian Conference, CIAC 2000 Rome, Italy, March

1-3, 2000 Proceedings

Bongiovanni, G.; Gambosi, G.; Petreschi, R. (Eds.)

2000, VIII, 324 p., Softcover

ISBN: 978-3-540-67159-6