

# Table of Contents

## Contributed Talks

Online Coloring of Intervals with Bandwidth .....	1
<i>Udo Adamy and Thomas Erlebach</i>	
Open Block Scheduling in Optical Communication Networks .....	13
<i>Alexander A. Ageev, Aleksei V. Fishkin, Alexander V. Kononov, and Sergey V. Sevastianov</i>	
Randomized Priority Algorithms .....	27
<i>Spyros Angelopoulos</i>	
Tradeoffs in Worst-Case Equilibria .....	41
<i>Baruch Awerbuch, Yossi Azar, Yossi Richter, and Dekel Tsur</i>	
Load Balancing of Temporary Tasks in the $\ell_p$ Norm .....	53
<i>Yossi Azar, Amir Epstein, and Leah Epstein</i>	
Simple On-Line Algorithms for Call Control in Cellular Networks .....	67
<i>Ioannis Caragiannis, Christos Kaklamanis, and Evi Papaioannou</i>	
Fractional and Integral Coloring of Locally-Symmetric Sets of Paths on Binary Trees .....	81
<i>Ioannis Caragiannis, Christos Kaklamanis, Pino Persiano, and Anastasios Sidiropoulos</i>	
A $\frac{5}{4}$ -Approximation Algorithm for Scheduling Identical Malleable Tasks ..	95
<i>Thomas Decker, Thomas Lücking, and Burkhard Monien</i>	
Optimal On-Line Algorithms to Minimize Makespan on Two Machines with Resource Augmentation .....	109
<i>Leah Epstein and Arik Ganot</i>	
Scheduling AND/OR-Networks on Identical Parallel Machines .....	123
<i>Thomas Erlebach, Vanessa Kääh, and Rolf H. Möhring</i>	
Combinatorial Interpretations of Dual Fitting and Primal Fitting .....	137
<i>Ari Freund and Dror Rawitz</i>	
On the Approximability of the Minimum Fundamental Cycle Basis Problem .....	151
<i>Giulia Galbiati and Edoardo Amaldi</i>	

The Pledge Algorithm Reconsidered under Errors in Sensors and Motion .....	165
<i>Tom Kamphans and Elmar Langetepe</i>	
The Online Matching Problem on a Line .....	179
<i>Elias Koutsoupias and Akash Nanavati</i>	
How to Whack Moles .....	192
<i>Sven O. Krumke, Nicole Megow, and Tjark Vredeveld</i>	
Online Deadline Scheduling: Team Adversary and Restart .....	206
<i>Jae-Ha Lee</i>	
Minimum Sum Multicoloring on the Edges of Trees .....	214
<i>Dániel Marx</i>	
Scheduling to Minimize Average Completion Time Revisited: Deterministic On-Line Algorithms .....	227
<i>Nicole Megow and Andreas S. Schulz</i>	
On-Line Extensible Bin Packing with Unequal Bin Sizes .....	235
<i>Deshi Ye and Guochuan Zhang</i>	
<b>ARACNE Talks</b>	
Energy Consumption in Radio Networks: Selfish Agents and Rewarding Mechanisms .....	248
<i>Christoph Ambühl, Andrea E.F. Clementi, Paolo Penna, Gianluca Rossi, and Riccardo Silvestri</i>	
Power Consumption Problems in Ad-Hoc Wireless Networks .....	252
<i>Ioannis Caragiannis, Christos Kaklamanis, and Panagiotis Kanellopoulos</i>	
A Combinatorial Approximation Algorithm for the Multicommodity Flow Problem .....	256
<i>David Coudert, Hervé Rivano, and Xavier Roche</i>	
Disk Graphs: A Short Survey .....	260
<i>Aleksei V. Fishkin</i>	
Combinatorial Techniques for Memory Power State Scheduling in Energy-Constrained Systems .....	265
<i>Claude Tadonki, Mitali Singh, Jose Rolim, and Viktor K. Prasanna</i>	
<b>Author Index</b> .....	269

Approximation and Online Algorithms

First International Workshop, WAOA 2003, Budapest,  
Hungary, September 16-18, 2003, Revised Papers

Jansen, K.; Solis-Oba, R. (Eds.)

2004, VIII, 268 p., Softcover

ISBN: 978-3-540-21079-5