## Table of Contents

### Contributed Talks

**Online Coloring of Intervals with Bandwidth** ........................................ 1  
*Udo Adamy and Thomas Erlebach*

**Open Block Scheduling in Optical Communication Networks** ........... 13  
*A. A. Ageev, A. V. Fishkin, A. V. Kononov, and S. V. Sevastianov*

**Randomized Priority Algorithms** .................................................. 27  
*Spyros Angelopoulos*

**Tradeoffs in Worst-Case Equilibria** ........................................ 41  
*Baruch Awerbuch, Yossi Azar, Yossi Richter, and Dekel Tsur*

**Load Balancing of Temporary Tasks in the $\ell_p$ Norm** .............. 53  
*Yossi Azar, Amir Epstein, and Leah Epstein*

**Simple On-Line Algorithms for Call Control in Cellular Networks** . . . 67  
*Ioannis Caragiannis, Christos Kaklamanis, and Evi Papaioannou*

**Fractional and Integral Coloring of Locally-Symmetric Sets**  
of Paths on Binary Trees .......................................................... 81  
*Ioannis Caragiannis, Christos Kaklamanis, Pino Persiano, and Anastasios Sidiropoulos*

**A $\frac{5}{4}$-Approximation Algorithm for Scheduling Identical Malleable Tasks** .................................................. 95  
*Thomas Decker, Thomas Lücking, and Burkhard Monien*

**Optimal On-Line Algorithms to Minimize Makespan**  
on Two Machines with Resource Augmentation ............................... 109  
*Leah Epstein and Arik Ganot*

**Scheduling AND/OR-Networks on Identical Parallel Machines** ....... 123  
*Thomas Erlebach, Vanessa Kääb, and Rolf H. Möhring*

**Combinatorial Interpretations of Dual Fitting and Primal Fitting** .... 137  
*Ari Freund and Dror Rawitz*

**On the Approximability of the Minimum Fundamental**  
Cycle Basis Problem ................................................................. 151  
*Giulia Galbiati and Edoardo Amaldi*
The Pledge Algorithm Reconsidered under Errors in Sensors and Motion .................................................. 165
   Tom Kamphans and Elmar Langetepe

The Online Matching Problem on a Line ......................... 179
   Elias Koutsoupias and Akash Nanavati

How to Whack Moles .................................................. 192
   Sven O. Krumke, Nicole Megow, and Tjark Vredeveld

Online Deadline Scheduling: Team Adversary and Restart ........ 206
   Jae-Ha Lee

Minimum Sum Multicoloring on the Edges of Trees ............ 214
   Dániel Marx

Scheduling to Minimize Average Completion Time Revisited:
   Deterministic On-Line Algorithms ................................ 227
   Nicole Megow and Andreas S. Schulz

On-Line Extensible Bin Packing with Unequal Bin Sizes ........ 235
   Deshi Ye and Guochuan Zhang

ARACNE Talks

Energy Consumption in Radio Networks:
   Selfish Agents and Rewarding Mechanisms ....................... 248
   Christoph Ambühl, Andrea E.F. Clementi, Paolo Penna,
   Gianluca Rossi, and Riccardo Silvestri

Power Consumption Problems in Ad-Hoc Wireless Networks........ 252
   Ioannis Caragiannis, Christos Kaklamanis,
   and Panagiotis Kanellopoulos

A Combinatorial Approximation Algorithm
   for the Multicommodity Flow Problem .......................... 256
   David Coudert, Hervé Rivano, and Xavier Roche

Disk Graphs: A Short Survey ........................................ 260
   Aleksei V. Fishkin

Combinatorial Techniques for Memory Power State Scheduling
   in Energy-Constrained Systems ................................. 265
   Claude Tadonki, Mitali Singh, Jose Rolim, and Viktor K. Prasanna

Author Index ......................................................... 269