

# Table of Contents

<b>Invited Lecture:</b> On the Expected Runtime and the Success Probability of Evolutionary Algorithms . . . . .	1
<i>Ingo Wegener</i>	
<b>Invited Lecture:</b> $n$ Points and One Line: Analysis of Randomized Games . . . . .	11
<i>Emo Welzl</i>	
Approximating Call-Scheduling Makespan in All-Optical Networks . . . . .	13
<i>Luca Becchetti, Miriam Di Ianni, and Alberto Marchetti-Spaccamela</i>	
New Spectral Lower Bounds on the Bisection Width of Graphs . . . . .	23
<i>Sergei L. Bezrukov, Robert Elsässer, Burkhard Monien, Robert Preis, and Jean-Pierre Tillich</i>	
Traversing Directed Eulerian Mazes . . . . .	35
<i>Sandeep Bhatt, Shimon Even, David Greenberg, and Rafi Tayar</i>	
On the Space and Access Complexity of Computation DAGs . . . . .	47
<i>Gianfranco Bilardi, Andrea Pietracaprina, and Paolo D’Alberto</i>	
Approximating the Treewidth of AT-Free Graphs . . . . .	59
<i>Vincent Bouchitté and Ioan Todinca</i>	
Split-Perfect Graphs: Characterizations and Algorithmic Use . . . . .	71
<i>Andreas Brandstädt and Van Bang Le</i>	
Coarse Grained Parallel Algorithms for Detecting Convex Bipartite Graphs . . . . .	83
<i>Edson Cáceres, Albert Chan, Frank Dehne, and Giuseppe Prencipe</i>	
Networks with Small Stretch Number . . . . .	95
<i>Serafino Cicerone and Gabriele Di Stefano</i>	
Efficient Dispersion Algorithms for Geometric Intersection Graphs . . . . .	107
<i>Peter Damaschke</i>	
Optimizing Cost Flows by Modifying Arc Costs and Capacities . . . . .	116
<i>Ingo Demginsky, Hartmut Noltemeier, and Hans-Christoph Wirth</i>	
Update Networks and Their Routing Strategies . . . . .	127
<i>Michael J. Dinneen and Bakhadyr Khousseinov</i>	
Computing Input Multiplicity in Anonymous Synchronous Networks with Dynamic Faults . . . . .	137
<i>Stefan Dobrev</i>	

Diameter of the Knödel Graph . . . . . 149  
*Guillaume Fertin, André Raspaud, Heiko Schröder, Ondrej Sýkora, and Imrich Vrto*

On the Domination Search Number . . . . . 161  
*Fedor Fomin, Dieter Kratsch, and Haiko Müller*

Efficient Communication in Unknown Networks . . . . . 172  
*Luisa Gargano, Andrzej Pelc, Stephane Perennes, and Ugo Vaccaro*

Graph Coloring on a Coarse Grained Multiprocessor . . . . . 184  
*Assefaw Hadish Gebremedhin, Isabelle Guérin Lassous, Jens Gustedt, and Jan Arne Telle*

The Tree-Width of Clique-Width Bounded Graphs Without  $K_{n,n}$  . . . . . 196  
*Frank Gurski and Egon Wanke*

Tree Spanners for Subgraphs and Related Tree Covering Problems . . . . . 206  
*Dagmar Handke and Guy Kortsarz*

Minimal Size of Piggybacked Information for Tracking Causality:  
 A Graph-Based Characterization . . . . . 218  
*Jean Michel Hélarý and Giovanna Melideo*

The Expressive Power and Complexity of Dynamic Process Graphs . . . . . 230  
*Andreas Jakoby, Maciej Liškiewicz, and Rüdiger Reischuk*

Bandwidth of Split and Circular Permutation Graphs . . . . . 243  
*Ton Kloks, Dieter Kratsch, Yvan Le Borgne, and Haiko Müller*

Recognizing Graphs without Asteroidal Triples . . . . . 255  
*Ekkehard Köhler*

Budget Constrained Minimum Cost Connected Medians . . . . . 267  
*Goran Konjevod, Sven O. Krumke, and Madhav Marathe*

Coloring Mixed Hypertrees . . . . . 279  
*Daniel Král', Jan Kratochvíl, Andrzej Proskurowski, and Heinz-Jürgen Voss*

A Linear-Time Algorithm to Find Independent Spanning Trees in Maximal  
 Planar Graphs . . . . . 290  
*Sayaka Nagai and Shin-ichi Nakano*

Optimal Fault-Tolerant Routings for  $k$ -Connected Graphs with Smaller  
 Routing Tables . . . . . 302  
*Koichi Wada and Wei Chen*

**Author Index** . . . . . 315



<http://www.springer.com/978-3-540-41183-3>

Graph-Theoretic Concepts in Computer Science  
26th International Workshop, WG 2000 Konstanz,  
Germany, June 15-17, 2000 Proceedings  
Brandes, U.; Wagner, D. (Eds.)  
2000, X, 313 p., Softcover  
ISBN: 978-3-540-41183-3