

## References

- [1] Martín Abadi and Véronique Cortier. Deciding knowledge in security protocols under equational theories. In Josep Díaz, Juhani Karhumäki, Arto Lepistö, and Donald Sannella, editors, *Proceedings of the 31st International Colloquium on Automata, Languages and Programming, ICALP'2004 (Turku, Finland, July 12-16, 2004)*, volume 3142 of *LNCS*, pages 46–58. Springer-Verlag, Berlin-Heidelberg, 2004.
- [2] Michael Abbott, Thorsten Altenkirch, and Neil Ghani. Representing nested inductive types using  $w$ -types. In Josep Díaz, Juhani Karhumäki, Arto Lepistö, and Donald Sannella, editors, *Proceedings of the 31st International Colloquium on Automata, Languages and Programming, ICALP'2004 (Turku, Finland, July 12-16, 2004)*, volume 3142 of *LNCS*, pages 59–71. Springer-Verlag, Berlin-Heidelberg, 2004.
- [3] Parosh Abdulla, Pritha Mahata, and Richard Mayr. Decidability of zenoness, syntactic boundedness and token-liveness for dense-timed petri nets. In Kamal Lodaya and Meena Mahajan, editors, *Proceedings of the 24th International Conference on Foundations of Software Technology and Theoretical Computer Science, FSTTCS'2004 (Chennai, India, December 16-18, 2004)*, volume 3328 of *LNCS*, pages 58–70. Springer-Verlag, Berlin-Heidelberg, 2004.
- [4] James Abello, Stephen G. Kobourov, and Roman Yusufov. Visualizing large graphs with compound-fisheye views and treemaps. In János Pach, editor, *Proceedings of the 12th International Symposium on Graph Drawing, GD'2004 (New York, NY, USA, September 29 - October 2, 2004)*, volume 3383 of *LNCS*, pages 431–441. Springer-Verlag, Berlin-Heidelberg, 2004.
- [5] David J. Abraham, Katarína Cechlárová, David F. Manlove, and Kurt Mehlhorn. Pareto optimality in house allocation problems. In Rudolf Fleischer and Gerhard Trippen, editors, *Proceedings of the 15th International Symposium on Algorithms and Computation, ISAAC'2004 (Hong Kong, China, December 20-22, 2004)*, volume 3341 of *LNCS*, pages 3–15. Springer-Verlag, Berlin-Heidelberg, 2004.
- [6] Udo Adamy, Michael Hoffmann, József Solymosi, and Miloš Stojaković. Coloring octrees. In Kyung-Yong Chwa and J. Ian Munro, editors,

- Proceedings of the 10th Annual International Conference on Computing and Combinatorics, COCOON'2004 (Jeju Island, Korea, August 17-20, 2004)*, volume 3106 of *LNCS*, pages 62–71. Springer-Verlag, Berlin-Heidelberg, 2004.
- [7] Michaël Adélaïde and Claire Pagetti. On the urgency expressiveness. In Kamal Lodaya and Meena Mahajan, editors, *Proceedings of the 24th International Conference on Foundations of Software Technology and Theoretical Computer Science, FSTTCS'2004 (Chennai, India, December 16-18, 2004)*, volume 3328 of *LNCS*, pages 71–83. Springer-Verlag, Berlin-Heidelberg, 2004.
- [8] Bharat Adsul and Milind Sohoni. Asynchronous automata-theoretic characterization of aperiodic trace languages. In Kamal Lodaya and Meena Mahajan, editors, *Proceedings of the 24th International Conference on Foundations of Software Technology and Theoretical Computer Science, FSTTCS'2004 (Chennai, India, December 16-18, 2004)*, volume 3328 of *LNCS*, pages 84–96. Springer-Verlag, Berlin-Heidelberg, 2004.
- [9] Pankaj K. Agarwal, Lars Arge, Jeff Erickson, and Hai Yu. Efficient tradeoff schemes in data structures for querying moving objects. In Susanne Albers and Tomasz Radzik, editors, *Proceedings of the 12th Annual European Symposium on Algorithms, ESA'2004 (Bergen, Norway, September 14-17, 2004)*, volume 3221 of *LNCS*, pages 4–15. Springer-Verlag, Berlin-Heidelberg-New York, 2004.
- [10] Pankaj K. Agarwal and Nabil H. Mustafa. Independent set of intersection graphs of convex objects in 2d. In Torben Hagerup and Jyrki Katajainen, editors, *Proceedings of the 9th Scandinavian Workshop on Algorithm Theory, SWAT'2004 (Humblebæk, Denmark, July 8-10, 2004)*, volume 3111 of *LNCS*, pages 127–137. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2004.
- [11] Saurabh Agarwal and Gudmund Skovberg Frandsen. Binary gcd like algorithms for some complex quadratic rings. In Duncan Buell, editor, *Proceedings of the 6th International Symposium on Algorithmic Number Theory, ANTS'2004 (Burlington, VT, USA, June 13-18, 2004)*, volume 3076 of *LNCS*, pages 57–71. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2004.

- [12] Gagan Aggarwal, Tomás Feder, Rajeev Motwani, and An Zhu. Algorithms for multi-product pricing. In Josep Díaz, Juhani Karhumäki, Arto Lepistö, and Donald Sannella, editors, *Proceedings of the 31st International Colloquium on Automata, Languages and Programming, ICALP'2004 (Turku, Finland, July 12-16, 2004)*, volume 3142 of *LNCS*, pages 72–83. Springer-Verlag, Berlin-Heidelberg, 2004.
- [13] Hee-Kap Ahn, Peter Brass, Otfried Cheong, Hyeon-Suk Na, Chan-Su Shin, and Antoine Vigneron. Approximation algorithms for inscribing or circumscribing an axially symmetric polygon to a convex polygon. In Kyung-Yong Chwa and J. Ian Munro, editors, *Proceedings of the 10th Annual International Conference on Computing and Combinatorics, COCOON'2004 (Jeju Island, Korea, August 17-20, 2004)*, volume 3106 of *LNCS*, pages 259–267. Springer-Verlag, Berlin-Heidelberg, 2004.
- [14] Martin Aigner, Gianluca de Marco, and Manuela Montangero. The plurality problem with three colors. In Volker Diekert and Michel Habib, editors, *Proceedings of the 21st Annual Symposium on Theoretical Aspects of Computer Science, STACS'2004 (Montpellier, France, March 25-27, 2004)*, volume 2996 of *LNCS*, pages 513–521. Springer-Verlag, Berlin-Heidelberg-New York, 2004.
- [15] Nir Ailon, Bernard Chazelle, Seshadhri Comandur, and Ding Liu. Property-preserving data reconstruction. In Rudolf Fleischer and Gerhard Trippen, editors, *Proceedings of the 15th International Symposium on Algorithms and Computation, ISAAC'2004 (Hong Kong, China, December 20-22, 2004)*, volume 3341 of *LNCS*, pages 16–27. Springer-Verlag, Berlin-Heidelberg, 2004.
- [16] Tatsuya Akutsu. Algorithms for point set matching with  $k$ -differences. In Kyung-Yong Chwa and J. Ian Munro, editors, *Proceedings of the 10th Annual International Conference on Computing and Combinatorics, COCOON'2004 (Jeju Island, Korea, August 17-20, 2004)*, volume 3106 of *LNCS*, pages 249–258. Springer-Verlag, Berlin-Heidelberg, 2004.
- [17] Michael Alekhovich, Edward A. Hirsch, and Dmitry Itsykson. Exponential lower bounds for the running time of dpll algorithms on satisfiable formulas. In Josep Díaz, Juhani Karhumäki, Arto Lepistö, and Donald Sannella, editors, *Proceedings of the 31st International*

- Colloquium on Automata, Languages and Programming, ICALP'2004 (Turku, Finland, July 12-16, 2004)*, volume 3142 of *LNCS*, pages 84–96. Springer-Verlag, Berlin-Heidelberg, 2004.
- [18] Max A. Alekseyev and Pavel A. Pevzner. Genome halving problem revisited. In Kamal Lodaya and Meena Mahajan, editors, *Proceedings of the 24th International Conference on Foundations of Software Technology and Theoretical Computer Science, FSTTCS'2004 (Chennai, India, December 16-18, 2004)*, volume 3328 of *LNCS*, pages 1–15. Springer-Verlag, Berlin-Heidelberg, 2004.
- [19] Adrianna Alexander. Composition of temporal logic specifications. In Jordi Cortadella and Wolfgang Reisig, editors, *Proceedings of the 25th International Conference on Applications and Theory of Petri Nets, ICATPN'2004 (Bologna, Italy, June 21-25, 2004)*, volume 3099 of *LNCS*, pages 98–116. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2004.
- [20] Eric Allender, Harry Buhrman, and Michal Koucký. What can be efficiently reduced to the  $k$ -random strings? In Volker Diekert and Michel Habib, editors, *Proceedings of the 21st Annual Symposium on Theoretical Aspects of Computer Science, STACS'2004 (Montpellier, France, March 25-27, 2004)*, volume 2996 of *LNCS*, pages 584–595. Springer-Verlag, Berlin-Heidelberg-New York, 2004.
- [21] Noga Alon and Vera Asodi. Learning a hidden subgraph. In Josep Díaz, Juhani Karhumäki, Arto Lepistö, and Donald Sannella, editors, *Proceedings of the 31st International Colloquium on Automata, Languages and Programming, ICALP'2004 (Turku, Finland, July 12-16, 2004)*, volume 3142 of *LNCS*, pages 110–121. Springer-Verlag, Berlin-Heidelberg, 2004.
- [22] Greg Aloupis, Prosenjit Bose, and Pat Morin. Reconfiguring triangulations with edge flips and point moves. In János Pach, editor, *Proceedings of the 12th International Symposium on Graph Drawing, GD'2004 (New York, NY, USA, September 29 - October 2, 2004)*, volume 3383 of *LNCS*, pages 1–11. Springer-Verlag, Berlin-Heidelberg, 2004.
- [23] Rajeev Alur, Mikhail Bernadsky, and P. Madhusudan. Optimal reachability for weighted timed games. In Josep Díaz, Juhani Karhumäki,

- Arto Lepistö, and Donald Sannella, editors, *Proceedings of the 31st International Colloquium on Automata, Languages and Programming, ICALP'2004 (Turku, Finland, July 12-16, 2004)*, volume 3142 of *LNCS*, pages 122–133. Springer-Verlag, Berlin-Heidelberg, 2004.
- [24] Kazuyuki Amano and Akira Maruoka. On the monotone circuit complexity of quadratic boolean functions. In Rudolf Fleischer and Gerhard Trippen, editors, *Proceedings of the 15th International Symposium on Algorithms and Computation, ISAAC'2004 (Hong Kong, China, December 20-22, 2004)*, volume 3341 of *LNCS*, pages 28–40. Springer-Verlag, Berlin-Heidelberg, 2004.
- [25] Andris Ambainis, Martin Beaudry, Marats Golovkins, Arnolds Kikusts, Mark Mercer, and Denis Thérien. Algebraic results on quantum automata. In Volker Diekert and Michel Habib, editors, *Proceedings of the 21st Annual Symposium on Theoretical Aspects of Computer Science, STACS'2004 (Montpellier, France, March 25-27, 2004)*, volume 2996 of *LNCS*, pages 93–104. Springer-Verlag, Berlin-Heidelberg-New York, 2004.
- [26] Andris Ambainis, Kazuo Iwama, Akinori Kawachi, Hiroyuki Masuda, Raymond H. Putra, and Shigeru Yamashita. Quantum identification of boolean oracles. In Volker Diekert and Michel Habib, editors, *Proceedings of the 21st Annual Symposium on Theoretical Aspects of Computer Science, STACS'2004 (Montpellier, France, March 25-27, 2004)*, volume 2996 of *LNCS*, pages 105–116. Springer-Verlag, Berlin-Heidelberg-New York, 2004.
- [27] Klaus Ambos-Spies and Edgar Busse. Computational aspects of disjunctive sequences. In Jiří Fiala, Koubek, Václav, and Jan Kratochvíl, editors, *Proceedings of the 29th International Symposium on Mathematical Foundations of Computer Science, MFCS'2004 (Prague, Czech Republic, August 22-27, 2004)*, volume 3153 of *LNCS*, pages 711–722. Springer-Verlag, Berlin-Heidelberg, 2004.
- [28] Christoph Ambühl, Andrea E.F. Clementi, Miriam di Ianni, Nissan Lev-Tov, Angelo Monti, David Peleg, Gianluca Rossi, and Riccardo Silvestri. Efficient algorithms for low-energy bounded-hop broadcast in ad-hoc wireless networks. In Volker Diekert and Michel Habib, editors,

- Proceedings of the 21st Annual Symposium on Theoretical Aspects of Computer Science, STACS'2004 (Montpellier, France, March 25-27, 2004)*, volume 2996 of *LNCS*, pages 418–427. Springer-Verlag, Berlin-Heidelberg-New York, 2004.
- [29] Christoph Ambühl and Birgitta Weber. Parallel prefetching and caching is hard. In Volker Diekert and Michel Habib, editors, *Proceedings of the 21st Annual Symposium on Theoretical Aspects of Computer Science, STACS'2004 (Montpellier, France, March 25-27, 2004)*, volume 2996 of *LNCS*, pages 211–221. Springer-Verlag, Berlin-Heidelberg-New York, 2004.
- [30] Amihod Amir, Estrella Eisenberg, and Ely Porat. Swap and mismatch edit distance. In Susanne Albers and Tomasz Radzik, editors, *Proceedings of the 12th Annual European Symposium on Algorithms, ESA'2004 (Bergen, Norway, September 14-17, 2004)*, volume 3221 of *LNCS*, pages 16–27. Springer-Verlag, Berlin-Heidelberg-New York, 2004.
- [31] Amihod Amir, Oren Kapah, and Dekel Tsur. Faster two dimensional pattern matching with rotations. In Suleyman Cenk Sahinalp, S. Muthukrishnan, and Ugur Dogrusoz, editors, *Proceedings of the 15th Annual Symposium on Combinatorial Pattern Matching, CPM'2004 (Istanbul, Turkey, July 5-7, 2004)*, volume 3109 of *LNCS*, pages 409–419. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2004.
- [32] Amihod Amir and Igor Nor. Generalized function matching. In Rudolf Fleischer and Gerhard Trippen, editors, *Proceedings of the 15th International Symposium on Algorithms and Computation, ISAAC'2004 (Hong Kong, China, December 20-22, 2004)*, volume 3341 of *LNCS*, pages 41–52. Springer-Verlag, Berlin-Heidelberg, 2004.
- [33] Nir Andelman and Yishay Mansour. Auctions with budget constraints. In Torben Hagerup and Jyrki Katajainen, editors, *Proceedings of the 9th Scandinavian Workshop on Algorithm Theory, SWAT'2004 (Humlebæk, Denmark, July 8-10, 2004)*, volume 3111 of *LNCS*, pages 26–38. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2004.

- [34] Reid Andersen, Fan Chung, and Lincoln Lu. Drawing power law graphs. In János Pach, editor, *Proceedings of the 12th International Symposium on Graph Drawing, GD'2004 (New York, NY, USA, September 29 - October 2, 2004)*, volume 3383 of *LNCS*, pages 12–17. Springer-Verlag, Berlin-Heidelberg, 2004.
- [35] Mattias Andersson, Joachim Gudmundsson, and Christos Levcopoulos. Approximate distance oracles for graphs with dense clusters. In Rudolf Fleischer and Gerhard Trippen, editors, *Proceedings of the 15th International Symposium on Algorithms and Computation, ISAAC'2004 (Hong Kong, China, December 20-22, 2004)*, volume 3341 of *LNCS*, pages 53–64. Springer-Verlag, Berlin-Heidelberg, 2004.
- [36] Yves André, Anne-Cécile Caron, Denis Debarbieux, Yves Roos, and Sophie Tison. Extraction and implication of path constraints. In Jiří Fiala, Koubek, Václav, and Jan Kratochvíl, editors, *Proceedings of the 29th International Symposium on Mathematical Foundations of Computer Science, MFCS'2004 (Prague, Czech Republic, August 22-27, 2004)*, volume 3153 of *LNCS*, pages 863–875. Springer-Verlag, Berlin-Heidelberg, 2004.
- [37] Matthew Andrews and Lisa Zhang. Wavelength assignment in optical networks with fixed fiber capacity. In Josep Díaz, Juhani Karhumäki, Arto Lepistö, and Donald Sannella, editors, *Proceedings of the 31st International Colloquium on Automata, Languages and Programming, ICALP'2004 (Turku, Finland, July 12-16, 2004)*, volume 3142 of *LNCS*, pages 134–145. Springer-Verlag, Berlin-Heidelberg, 2004.
- [38] Elliot Anshelevich and Lisa Zhang. Path decomposition under a new cost measure with applications to optical network design. In Susanne Albers and Tomasz Radzik, editors, *Proceedings of the 12th Annual European Symposium on Algorithms, ESA'2004 (Bergen, Norway, September 14-17, 2004)*, volume 3221 of *LNCS*, pages 28–39. Springer-Verlag, Berlin-Heidelberg-New York, 2004.
- [39] Nicola Apollonio, Massimiliano Caramia, and Giuseppe F. Italiano. A stochastic location problem with applications to tele-diagnostic. In Juraj Hromkovič, Manfred Nagl, and Bernhard Westfechtel, editors, *Proceedings of the 30th International Workshop on Graph-Theoretic Concepts in Computer Science, WG'2004 (Bad Honnef, Germany, June*

- 21-23, 2004), volume 3353 of *LNCS*, pages 201–213. Springer-Verlag, Berlin-Heidelberg, 2004.
- [40] Nicola Apollonio and András Sebő. Minsquare factors and maxfix covers of graphs. In Daniel Bienstock and George Nemhauser, editors, *Proceedings of the 10th International Conference on Integer Programming and Combinatorial Optimization, IPCO'2004 (New York, NY, USA, June 7-11, 2004)*, volume 3064 of *LNCS*, pages 388–400. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2004.
- [41] Lars Arge. External geometric data structures. In Kyung-Yong Chwa and J. Ian Munro, editors, *Proceedings of the 10th Annual International Conference on Computing and Combinatorics, COCOON'2004 (Jeju Island, Korea, August 17-20, 2004)*, volume 3106 of *LNCS*, pages 1–1. Springer-Verlag, Berlin-Heidelberg, 2004.
- [42] Lars Arge, Ulrich Meyer, and Laura Toma. External memory algorithms for diameter and all-pairs shortest-paths on sparse graphs. In Josep Díaz, Juhani Karhumäki, Arto Lepistö, and Donald Sannella, editors, *Proceedings of the 31st International Colloquium on Automata, Languages and Programming, ICALP'2004 (Turku, Finland, July 12-16, 2004)*, volume 3142 of *LNCS*, pages 146–157. Springer-Verlag, Berlin-Heidelberg, 2004.
- [43] Lars Arge, Vasilis Samoladas, and Ke Yi. Optimal external memory planar point enclosure. In Susanne Albers and Tomasz Radzik, editors, *Proceedings of the 12th Annual European Symposium on Algorithms, ESA'2004 (Bergen, Norway, September 14-17, 2004)*, volume 3221 of *LNCS*, pages 40–52. Springer-Verlag, Berlin-Heidelberg-New York, 2004.
- [44] Lars Arge and Laura Toma. Simplified external memory algorithms for planar dags. In Torben Hagerup and Jyrki Katajainen, editors, *Proceedings of the 9th Scandinavian Workshop on Algorithm Theory, SWAT'2004 (Humblebæk, Denmark, July 8-10, 2004)*, volume 3111 of *LNCS*, pages 493–503. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2004.



- [45] Amitai Armon and Uri Zwick. Multicriteria global minimum cuts. In Rudolf Fleischer and Gerhard Trippen, editors, *Proceedings of the 15th International Symposium on Algorithms and Computation, ISAAC'2004 (Hong Kong, China, December 20-22, 2004)*, volume 3341 of *LNCS*, pages 65–76. Springer-Verlag, Berlin-Heidelberg, 2004.
- [46] Kristoffer Arnsfelt Hansen. Constant width planar computation characterizes  $\text{acc}^0$ . In Volker Diekert and Michel Habib, editors, *Proceedings of the 21st Annual Symposium on Theoretical Aspects of Computer Science, STACS'2004 (Montpellier, France, March 25-27, 2004)*, volume 2996 of *LNCS*, pages 44–55. Springer-Verlag, Berlin-Heidelberg-New York, 2004.
- [47] Boris Aronov, Tetsuo Asano, Naoki Katoh, Kurt Mehlhorn, and Takeshi Tokuyama. Polyline fitting of planar points under min-sum criteria. In Rudolf Fleischer and Gerhard Trippen, editors, *Proceedings of the 15th International Symposium on Algorithms and Computation, ISAAC'2004 (Hong Kong, China, December 20-22, 2004)*, volume 3341 of *LNCS*, pages 77–88. Springer-Verlag, Berlin-Heidelberg, 2004.
- [48] Boris Aronov, Tetsuo Asano, Yosuke Kikuchi, Subhas C. Nandy, Shinji Sasahara, and Takeaki Uno. A generalization of magic squares with applications to digital halftoning. In Rudolf Fleischer and Gerhard Trippen, editors, *Proceedings of the 15th International Symposium on Algorithms and Computation, ISAAC'2004 (Hong Kong, China, December 20-22, 2004)*, volume 3341 of *LNCS*, pages 89–100. Springer-Verlag, Berlin-Heidelberg, 2004.
- [49] V. Arvind and Piyush P. Kurur. On the complexity of computing units in a number field. In Duncan Buell, editor, *Proceedings of the 6th International Symposium on Algorithmic Number Theory, ANTS'2004 (Burlington, VT, USA, June 13-18, 2004)*, volume 3076 of *LNCS*, pages 72–86. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2004.
- [50] Tetsuo Asano, Naoki Katoh, Hisao Tamaki, and Takeshi Tokuyama. On geometric structure of global roundings for graphs and range spaces. In Torben Hagerup and Jyrki Katajainen, editors, *Proceedings of the 9th Scandinavian Workshop on Algorithm Theory, SWAT'2004*

- (*Humblebæk, Denmark, July 8-10, 2004*), volume 3111 of *LNCS*, pages 455–467. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2004.
- [51] Yasuhito Asano and Takao Nishizeki. Web-linkage viewer: Drawing links in the web based on a site-oriented framework. In Giuseppe Liotta, editor, *Proceedings of the 11th International Symposium on Graph Drawing, GD'2003 (Perugia, Italy, September 21-24, 2003)*, volume 2912 of *LNCS*, pages 498–499. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2004.
- [52] Eyjolfur Asgeirsson, Jonathan Berry, Cynthia A. Phillips, David J. Phillips, Cliff Stein, and Joel Wein. Scheduling an industrial production facility. In Daniel Bienstock and George Nemhauser, editors, *Proceedings of the 10th International Conference on Integer Programming and Combinatorial Optimization, IPCO'2004 (New York, NY, USA, June 7-11, 2004)*, volume 3064 of *LNCS*, pages 116–131. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2004.
- [53] Krishna B. Athreya, John M. Hitchcock, Jack H. Lutz, and Elvira Mayordomo. Effective strong dimension in algorithmic information and computational complexity. In Volker Diekert and Michel Habib, editors, *Proceedings of the 21st Annual Symposium on Theoretical Aspects of Computer Science, STACS'2004 (Montpellier, France, March 25-27, 2004)*, volume 2996 of *LNCS*, pages 632–643. Springer-Verlag, Berlin-Heidelberg-New York, 2004.
- [54] Robert Atkey. A  $\lambda$ -calculus for resource separation. In Josep Díaz, Juhani Karhumäki, Arto Lepistö, and Donald Sannella, editors, *Proceedings of the 31st International Colloquium on Automata, Languages and Programming, ICALP'2004 (Turku, Finland, July 12-16, 2004)*, volume 3142 of *LNCS*, pages 158–170. Springer-Verlag, Berlin-Heidelberg, 2004.
- [55] Vincenzo Auletta, Roberto De Prisco, Paolo Penna, and Giuseppe Persiano. The power of verification for one-parameter agents. In Josep Díaz, Juhani Karhumäki, Arto Lepistö, and Donald Sannella, editors, *Proceedings of the 31st International Colloquium on Automata, Languages and Programming, ICALP'2004 (Turku, Finland, July 12-16,*

- 2004), volume 3142 of *LNCS*, pages 171–182. Springer-Verlag, Berlin-Heidelberg, 2004.
- [56] Giorgio Ausiello, Marc Demange, Luigi Laura, and Vangelis Paschos. Algorithms for the on-line quota traveling salesman problem. In Kyung-Yong Chwa and J. Ian Munro, editors, *Proceedings of the 10th Annual International Conference on Computing and Combinatorics, COCOON'2004 (Jeju Island, Korea, August 17-20, 2004)*, volume 3106 of *LNCS*, pages 290–299. Springer-Verlag, Berlin-Heidelberg, 2004.
- [57] Pasquale Avella, Sara Mattia, and Antonio Sassano. Metric inequalities and the network loading problem. In Daniel Bienstock and George Nemhauser, editors, *Proceedings of the 10th International Conference on Integer Programming and Combinatorial Optimization, IPCO'2004 (New York, NY, USA, June 7-11, 2004)*, volume 3064 of *LNCS*, pages 16–32. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2004.
- [58] Adi Avidor and Michael Langberg. The multi-multiway cut problem. In Torben Hagerup and Jyrki Katajainen, editors, *Proceedings of the 9th Scandinavian Workshop on Algorithm Theory, SWAT'2004 (Humlebæk, Denmark, July 8-10, 2004)*, volume 3111 of *LNCS*, pages 273–284. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2004.
- [59] Baruch Awerbuch and Christian Scheideler. Group spreading: A protocol for provably secure distributed name service. In Josep Díaz, Juhani Karhumäki, Arto Lepistö, and Donald Sannella, editors, *Proceedings of the 31st International Colloquium on Automata, Languages and Programming, ICALP'2004 (Turku, Finland, July 12-16, 2004)*, volume 3142 of *LNCS*, pages 183–195. Springer-Verlag, Berlin-Heidelberg, 2004.
- [60] Yossi Azar and Arik Litichevsky. Maximizing throughput in multi-queue switches. In Susanne Albers and Tomasz Radzik, editors, *Proceedings of the 12th Annual European Symposium on Algorithms, ESA'2004 (Bergen, Norway, September 14-17, 2004)*, volume 3221 of *LNCS*, pages 53–64. Springer-Verlag, Berlin-Heidelberg-New York, 2004.

- [61] Yossi Azar and Yossi Richter. An improved algorithm for ciao switches. In Susanne Albers and Tomasz Radzik, editors, *Proceedings of the 12th Annual European Symposium on Algorithms, ESA'2004 (Bergen, Norway, September 14-17, 2004)*, volume 3221 of *LNCS*, pages 65–76. Springer-Verlag, Berlin-Heidelberg-New York, 2004.
- [62] Yossi Azar and Shai Taub. All-norm approximation for scheduling on identical machines. In Torben Hagerup and Jyrki Katajainen, editors, *Proceedings of the 9th Scandinavian Workshop on Algorithm Theory, SWAT'2004 (Humblebæk, Denmark, July 8-10, 2004)*, volume 3111 of *LNCS*, pages 298–310. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2004.
- [63] Shabnam Aziza and Therese Biedl. Hexagonal grid drawings: Algorithms and lower bounds. In János Pach, editor, *Proceedings of the 12th International Symposium on Graph Drawing, GD'2004 (New York, NY, USA, September 29 - October 2, 2004)*, volume 3383 of *LNCS*, pages 18–24. Springer-Verlag, Berlin-Heidelberg, 2004.
- [64] Franz Baader. A graph-theoretic generalization of the least common subsumer and the most specific concept in the description logic  $\epsilon l$ . In Juraj Hromkovič, Manfred Nagl, and Bernhard Westfechtel, editors, *Proceedings of the 30th International Workshop on Graph-Theoretic Concepts in Computer Science, WG'2004 (Bad Honnef, Germany, June 21-23, 2004)*, volume 3353 of *LNCS*, pages 177–188. Springer-Verlag, Berlin-Heidelberg, 2004.
- [65] Sebastian Bab and Arfst Nickelsen. One query reducibilities between partial information classes. In Jiří Fiala, Koubek, Václav, and Jan Kratochvíl, editors, *Proceedings of the 29th International Symposium on Mathematical Foundations of Computer Science, MFCS'2004 (Prague, Czech Republic, August 22-27, 2004)*, volume 3153 of *LNCS*, pages 404–415. Springer-Verlag, Berlin-Heidelberg, 2004.
- [66] Christian Bachmaier, Franz J. Brandenburg, and Michael Forster. Radial level planarity testing and embedding in linear time. In Giuseppe Liotta, editor, *Proceedings of the 11th International Symposium on Graph Drawing, GD'2003 (Perugia, Italy, September 21-24, 2003)*, volume 2912 of *LNCS*, pages 393–405. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2004.

- [67] Christian Bachmaier, Franz J. Brandenburg, Michael Forster, Paul Holleis, and Marcus Raitner. Gravisto: Graph visualization toolkit. In János Pach, editor, *Proceedings of the 12th International Symposium on Graph Drawing, GD'2004 (New York, NY, USA, September 29 - October 2, 2004)*, volume 3383 of *LNCS*, pages 502–503. Springer-Verlag, Berlin-Heidelberg, 2004.
- [68] Rolf Backofen and Anke Busch. Computational design of new and recombinant selenoproteins. In Suleyman Cenk Sahinalp, S. Muthukrishnan, and Ugur Dogrusoz, editors, *Proceedings of the 15th Annual Symposium on Combinatorial Pattern Matching, CPM'2004 (Istanbul, Turkey, July 5-7, 2004)*, volume 3109 of *LNCS*, pages 270–284. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2004.
- [69] Sang Won Bae and Kyung-Yong Chwa. Voronoi diagrams with a transportation network on the euclidean plane. In Rudolf Fleischer and Gerhard Trippen, editors, *Proceedings of the 15th International Symposium on Algorithms and Computation, ISAAC'2004 (Hong Kong, China, December 20-22, 2004)*, volume 3341 of *LNCS*, pages 101–112. Springer-Verlag, Berlin-Heidelberg, 2004.
- [70] Ricardo Baeza-Yates. A fast set intersection algorithm for sorted sequences. In Suleyman Cenk Sahinalp, S. Muthukrishnan, and Ugur Dogrusoz, editors, *Proceedings of the 15th Annual Symposium on Combinatorial Pattern Matching, CPM'2004 (Istanbul, Turkey, July 5-7, 2004)*, volume 3109 of *LNCS*, pages 400–408. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2004.
- [71] Fabien Baille, Evripidis Bampis, and Christian Laforest. Maximization of the size and the weight of schedules of degradable intervals. In Kyung-Yong Chwa and J. Ian Munro, editors, *Proceedings of the 10th Annual International Conference on Computing and Combinatorics, COCOON'2004 (Jeju Island, Korea, August 17-20, 2004)*, volume 3106 of *LNCS*, pages 219–228. Springer-Verlag, Berlin-Heidelberg, 2004.
- [72] Sebastian Bala. Regular language matching and other decidable cases of the satisfiability problem for constraints between regular open terms. In Volker Diekert and Michel Habib, editors, *Proceedings of*

- the 21st Annual Symposium on Theoretical Aspects of Computer Science, STACS'2004 (Montpellier, France, March 25-27, 2004)*, volume 2996 of *LNCS*, pages 596–607. Springer-Verlag, Berlin-Heidelberg-New York, 2004.
- [73] József Balogh and Gelasio Salazar. Improved bounds for the number of  $(\leq k)$ -sets, convex quadrilaterals, and the rectilinear crossing number of  $k_n$ . In János Pach, editor, *Proceedings of the 12th International Symposium on Graph Drawing, GD'2004 (New York, NY, USA, September 29 - October 2, 2004)*, volume 3383 of *LNCS*, pages 25–35. Springer-Verlag, Berlin-Heidelberg, 2004.
- [74] Nikhil Bansal, Mark Cieliebak, and Zsuzsanna Lipták. Efficient algorithms for finding submasses in weighted strings. In Suleyman Cenk Sahinalp, S. Muthukrishnan, and Ugur Dogrusoz, editors, *Proceedings of the 15th Annual Symposium on Combinatorial Pattern Matching, CPM'2004 (Istanbul, Turkey, July 5-7, 2004)*, volume 3109 of *LNCS*, pages 194–204. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2004.
- [75] Nikhil Bansal, Lisa K. Fleischer, Tracy Kimbrel, Mohammad Mahdian, Baruch Schieber, and Maxim Sviridenko. Further improvements in competitive guarantees for qos buffering. In Josep Díaz, Juhani Karhumäki, Arto Lepistö, and Donald Sannella, editors, *Proceedings of the 31st International Colloquium on Automata, Languages and Programming, ICALP'2004 (Turku, Finland, July 12-16, 2004)*, volume 3142 of *LNCS*, pages 196–207. Springer-Verlag, Berlin-Heidelberg, 2004.
- [76] Vikas Bansal, Friedhelm Meyer auf der Heide, and Christian Sohler. Labeling smart dust. In Susanne Albers and Tomasz Radzik, editors, *Proceedings of the 12th Annual European Symposium on Algorithms, ESA'2004 (Bergen, Norway, September 14-17, 2004)*, volume 3221 of *LNCS*, pages 77–88. Springer-Verlag, Berlin-Heidelberg-New York, 2004.
- [77] Régis Barbanchon and Etienne Grandjean. The minimal logically-defined  $np$ -complete problem. In Volker Diekert and Michel Habib, editors, *Proceedings of the 21st Annual Symposium on Theoretical Aspects of Computer Science, STACS'2004 (Montpellier, France, March*

- 25-27, 2004), volume 2996 of *LNCS*, pages 338–349. Springer-Verlag, Berlin-Heidelberg-New York, 2004.
- [78] João Paulo Barros and Luís Gomes. On the use of coloured petri nets for object-oriented design. In Jordi Cortadella and Wolfgang Reisig, editors, *Proceedings of the 25th International Conference on Applications and Theory of Petri Nets, ICATPN'2004 (Bologna, Italy, June 21-25, 2004)*, volume 3099 of *LNCS*, pages 117–136. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2004.
- [79] Yair Bartal. Graph decomposition lemmas and their role in metric embedding methods. In Susanne Albers and Tomasz Radzik, editors, *Proceedings of the 12th Annual European Symposium on Algorithms, ESA'2004 (Bergen, Norway, September 14-17, 2004)*, volume 3221 of *LNCS*, pages 89–97. Springer-Verlag, Berlin-Heidelberg-New York, 2004.
- [80] Yair Bartal, Francis Y.L. Chin, Marek Chrobak, Stanley P.Y. Fung, Wojciech Jawor, Ron Lavi, Jiří Sgall, and Tomáš Tichý. Online competitive algorithms for maximizing weighted throughput of unit jobs. In Volker Diekert and Michel Habib, editors, *Proceedings of the 21st Annual Symposium on Theoretical Aspects of Computer Science, STACS'2004 (Montpellier, France, March 25-27, 2004)*, volume 2996 of *LNCS*, pages 187–198. Springer-Verlag, Berlin-Heidelberg-New York, 2004.
- [81] Tamar Barzuya, Jacques S. Beckmann, Ron Shamir, and Itsik Pe'er. Computational problems in perfect phylogeny haplotyping: Xor-genotypes and tag snps. In Suleyman Cenk Sahinalp, S. Muthukrishnan, and Ugur Dogrusoz, editors, *Proceedings of the 15th Annual Symposium on Combinatorial Pattern Matching, CPM'2004 (Istanbul, Turkey, July 5-7, 2004)*, volume 3109 of *LNCS*, pages 14–31. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2004.
- [82] Abdolali Basiri, Andreas Enge, Jean-Charles Faugère, and Nicolas Gürel. Implementing the arithmetic of  $c_{3,4}$  curves. In Duncan Buell, editor, *Proceedings of the 6th International Symposium on Algorithmic Number Theory, ANTS'2004 (Burlington, VT, USA, June 13-18,*

- 2004), volume 3076 of *LNCS*, pages 87–101. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2004.
- [83] Holger Bast, Kurt Mehlhorn, Guido Schäfer, and Hisao Tamaki. Matching algorithms are fast in sparse random graphs. In Volker Diekert and Michel Habib, editors, *Proceedings of the 21st Annual Symposium on Theoretical Aspects of Computer Science, STACS'2004 (Montpellier, France, March 25-27, 2004)*, volume 2996 of *LNCS*, pages 81–92. Springer-Verlag, Berlin-Heidelberg-New York, 2004.
- [84] Saugata Basu, Raghavan Dhandapani, and Richard Pollack. On the realizable weaving patterns of polynomial curves in  $r^3$ . In János Pach, editor, *Proceedings of the 12th International Symposium on Graph Drawing, GD'2004 (New York, NY, USA, September 29 - October 2, 2004)*, volume 3383 of *LNCS*, pages 36–42. Springer-Verlag, Berlin-Heidelberg, 2004.
- [85] Thomas Baudel, Bruno Haible, and Georg Sander. Visual data mining with ilog discovery. In Giuseppe Liotta, editor, *Proceedings of the 11th International Symposium on Graph Drawing, GD'2003 (Perugia, Italy, September 21-24, 2003)*, volume 2912 of *LNCS*, pages 502–503. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2004.
- [86] Markus Bauer and Gunnar W. Klau. Structural alignment of two rna sequences with lagrangian relaxation. In Rudolf Fleischer and Gerhard Trippen, editors, *Proceedings of the 15th International Symposium on Algorithms and Computation, ISAAC'2004 (Hong Kong, China, December 20-22, 2004)*, volume 3341 of *LNCS*, pages 113–123. Springer-Verlag, Berlin-Heidelberg, 2004.
- [87] Nadine Baumann and Ekkehard Köhler. Approximating earliest arrival flows with flow-dependent transit times. In Jiří Fiala, Koubek, Václav, and Jan Kratochvíl, editors, *Proceedings of the 29th International Symposium on Mathematical Foundations of Computer Science, MFCS'2004 (Prague, Czech Republic, August 22-27, 2004)*, volume 3153 of *LNCS*, pages 599–610. Springer-Verlag, Berlin-Heidelberg, 2004.



- [88] Michael Baur and Ulrik Brandes. Crossing reduction in circular layouts. In Juraj Hromkovič, Manfred Nagl, and Bernhard Westfechtel, editors, *Proceedings of the 30th International Workshop on Graph-Theoretic Concepts in Computer Science, WG'2004 (Bad Honnef, Germany, June 21-23, 2004)*, volume 3353 of *LNCS*, pages 332–343. Springer-Verlag, Berlin-Heidelberg, 2004.
- [89] Michael Baur, Ulrik Brandes, Marco Gaertler, and Dorothea Wagner. Drawing the as graph in 2.5 dimensions. In János Pach, editor, *Proceedings of the 12th International Symposium on Graph Drawing, GD'2004 (New York, NY, USA, September 29 - October 2, 2004)*, volume 3383 of *LNCS*, pages 43–48. Springer-Verlag, Berlin-Heidelberg, 2004.
- [90] Cristina Bazgan, Bruno Escoffier, and Vangelis Th. Paschos. Polyapx- and ptas-completeness in standard and differential approximation. In Rudolf Fleischer and Gerhard Trippen, editors, *Proceedings of the 15th International Symposium on Algorithms and Computation, ISAAC'2004 (Hong Kong, China, December 20-22, 2004)*, volume 3341 of *LNCS*, pages 124–136. Springer-Verlag, Berlin-Heidelberg, 2004.
- [91] Marie-Pierre Béal, Francesca Fiorenzi, and Dominique Perrin. A hierarchy of irreducible sofic shifts. In Jiří Fiala, Koubek, Václav, and Jan Kratochvíl, editors, *Proceedings of the 29th International Symposium on Mathematical Foundations of Computer Science, MFCS'2004 (Prague, Czech Republic, August 22-27, 2004)*, volume 3153 of *LNCS*, pages 611–622. Springer-Verlag, Berlin-Heidelberg, 2004.
- [92] Marie-Pierre Béal, Francesca Fiorenzi, and Dominique Perrin. The syntactic graph of a sofic shift. In Volker Diekert and Michel Habib, editors, *Proceedings of the 21st Annual Symposium on Theoretical Aspects of Computer Science, STACS'2004 (Montpellier, France, March 25-27, 2004)*, volume 2996 of *LNCS*, pages 282–293. Springer-Verlag, Berlin-Heidelberg-New York, 2004.
- [93] Martin Beaudry, José M. Fernandez, and Markus Holzer. A common algebraic description for probabilistic and quantum computations. In Jiří Fiala, Koubek, Václav, and Jan Kratochvíl, editors, *Proceedings of the 29th International Symposium on Mathematical Foundations of Computer Science, MFCS'2004 (Prague, Czech Republic, August*

- 22-27, 2004), volume 3153 of *LNCS*, pages 851–862. Springer-Verlag, Berlin-Heidelberg, 2004.
- [94] Luca Becchetti. Modeling locality: A probabilistic analysis of lru and fwf. In Susanne Albers and Tomasz Radzik, editors, *Proceedings of the 12th Annual European Symposium on Algorithms, ESA'2004 (Bergen, Norway, September 14-17, 2004)*, volume 3221 of *LNCS*, pages 98–109. Springer-Verlag, Berlin-Heidelberg-New York, 2004.
- [95] Rene Beier and Berthold Vöcking. An experimental study of random knapsack problems. In Susanne Albers and Tomasz Radzik, editors, *Proceedings of the 12th Annual European Symposium on Algorithms, ESA'2004 (Bergen, Norway, September 14-17, 2004)*, volume 3221 of *LNCS*, pages 616–627. Springer-Verlag, Berlin-Heidelberg-New York, 2004.
- [96] Wolfgang W. Bein, Leah Epstein, Lawrence L. Larmore, and John Noga. Optimally competitive list batching. In Torben Hagerup and Jyrki Katajainen, editors, *Proceedings of the 9th Scandinavian Workshop on Algorithm Theory, SWAT'2004 (Humblebæk, Denmark, July 8-10, 2004)*, volume 3111 of *LNCS*, pages 77–89. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2004.
- [97] Michael A. Bekos, Michael Kaufmann, Antonios Symvonis, and Alexander Wolff. Boundary labeling: Models and efficient algorithms for rectangular maps. In János Pach, editor, *Proceedings of the 12th International Symposium on Graph Drawing, GD'2004 (New York, NY, USA, September 29 - October 2, 2004)*, volume 3383 of *LNCS*, pages 49–59. Springer-Verlag, Berlin-Heidelberg, 2004.
- [98] Fredrik Bengtsson and Jingsen Chen. Efficient algorithms for  $k$  maximum sums. In Rudolf Fleischer and Gerhard Trippen, editors, *Proceedings of the 15th International Symposium on Algorithms and Computation, ISAAC'2004 (Hong Kong, China, December 20-22, 2004)*, volume 3341 of *LNCS*, pages 137–148. Springer-Verlag, Berlin-Heidelberg, 2004.
- [99] Josh Berdine, Cristiano Calcagno, and Peter W. O'Hearn. A decidable fragment of separation logic. In Kamal Lodaya and Meena Mahajan, editors, *Proceedings of the 24th International Conference on*

*Foundations of Software Technology and Theoretical Computer Science, FSTTCS'2004 (Chennai, India, December 16-18, 2004)*, volume 3328 of *LNCS*, pages 97–109. Springer-Verlag, Berlin-Heidelberg, 2004.

- [100] Sergey Bereg. Equipartitions of measures by 2-fans. In Rudolf Fleischer and Gerhard Trippen, editors, *Proceedings of the 15th International Symposium on Algorithms and Computation, ISAAC'2004 (Hong Kong, China, December 20-22, 2004)*, volume 3341 of *LNCS*, pages 149–158. Springer-Verlag, Berlin-Heidelberg, 2004.
- [101] N. Berger, C. Borgs, J.T. Chayes, R.M. D'Souza, and R.D. Kleinberg. Competition-induced preferential attachment. In Josep Díaz, Juhani Karhumäki, Arto Lepistö, and Donald Sannella, editors, *Proceedings of the 31st International Colloquium on Automata, Languages and Programming, ICALP'2004 (Turku, Finland, July 12-16, 2004)*, volume 3142 of *LNCS*, pages 208–221. Springer-Verlag, Berlin-Heidelberg, 2004.
- [102] Anne Bergeron, Julia Mixtacki, and Jens Stoye. Reversal distance without hurdles and fortresses. In Suleyman Cenk Sahinalp, S. Muthukrishnan, and Ugur Dogrusoz, editors, *Proceedings of the 15th Annual Symposium on Combinatorial Pattern Matching, CPM'2004 (Istanbul, Turkey, July 5-7, 2004)*, volume 3109 of *LNCS*, pages 388–399. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2004.
- [103] Piotr Berman, Bhaskar DasGupta, and Ming-Yang Kao. Tight approximability results for test set problems in bioinformatics. In Torben Hagerup and Jyrki Katajainen, editors, *Proceedings of the 9th Scandinavian Workshop on Algorithm Theory, SWAT'2004 (Humblebæk, Denmark, July 8-10, 2004)*, volume 3111 of *LNCS*, pages 39–50. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2004.
- [104] Piotr Berman, Bhaskar DasGupta, Dhruv Mubayi, Robert Sloan, György Turán, and Yi Zhang. The protein sequence design problem in canonical model on 2d and 3d lattices. In Suleyman Cenk Sahinalp, S. Muthukrishnan, and Ugur Dogrusoz, editors, *Proceedings of the 15th Annual Symposium on Combinatorial Pattern Matching, CPM'2004 (Istanbul, Turkey, July 5-7, 2004)*, volume 3109 of

*LNCS*, pages 244–253. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2004.

- [105] Vincent Bernardi, Bruno Durand, Enrico Formenti, and Jarkko Kari. A new dimension sensitive property for cellular automata. In Jiří Fiala, Koubek, Václav, and Jan Kratochvíl, editors, *Proceedings of the 29th International Symposium on Mathematical Foundations of Computer Science, MFCS'2004 (Prague, Czech Republic, August 22-27, 2004)*, volume 3153 of *LNCS*, pages 416–426. Springer-Verlag, Berlin-Heidelberg, 2004.
- [106] P. Berrizbeitia, S. Müller, and H.C. Williams. Pseudocubes and primality testing. In Duncan Buell, editor, *Proceedings of the 6th International Symposium on Algorithmic Number Theory, ANTS'2004 (Burlington, VT, USA, June 13-18, 2004)*, volume 3076 of *LNCS*, pages 102–116. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2004.
- [107] Vincent Berry and François Nicolas. Maximum agreement and compatible supertrees. In Suleyman Cenk Sahinalp, S. Muthukrishnan, and Ugur Dogrusoz, editors, *Proceedings of the 15th Annual Symposium on Combinatorial Pattern Matching, CPM'2004 (Istanbul, Turkey, July 5-7, 2004)*, volume 3109 of *LNCS*, pages 205–219. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2004.
- [108] Alberto Bertoni, Christian Choffrut, Massimiliano Goldwurm, and Violetta Lonati. Local limit distributions in pattern statistics: Beyond the markovian models. In Volker Diekert and Michel Habib, editors, *Proceedings of the 21st Annual Symposium on Theoretical Aspects of Computer Science, STACS'2004 (Montpellier, France, March 25-27, 2004)*, volume 2996 of *LNCS*, pages 117–128. Springer-Verlag, Berlin-Heidelberg-New York, 2004.
- [109] Dimitris Bertsimas and Aurélie Thiele. A robust optimization approach to supply chain management. In Daniel Bienstock and George Nemhauser, editors, *Proceedings of the 10th International Conference on Integer Programming and Combinatorial Optimization, IPCO'2004 (New York, NY, USA, June 7-11, 2004)*, volume 3064

of *LNCS*, pages 86–100. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2004.

- [110] Stéphane Bessy and Stéphan Thomassé. Three min-max theorems concerning cyclic orders of strong digraphs. In Daniel Bienstock and George Nemhauser, editors, *Proceedings of the 10th International Conference on Integer Programming and Combinatorial Optimization, IPCO'2004 (New York, NY, USA, June 7-11, 2004)*, volume 3064 of *LNCS*, pages 132–138. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2004.
- [111] Olaf Beyersdorff. Representable disjoint  $np$ -pairs. In Kamal Lodaya and Meena Mahajan, editors, *Proceedings of the 24th International Conference on Foundations of Software Technology and Theoretical Computer Science, FSTTCS'2004 (Chennai, India, December 16-18, 2004)*, volume 3328 of *LNCS*, pages 122–134. Springer-Verlag, Berlin-Heidelberg, 2004.
- [112] Alina Beygelzimer and Mitsunori Ogihara. The enumerability of collapses to  $nc$ . In Jiří Fiala, Koubek, Václav, and Jan Kratochvíl, editors, *Proceedings of the 29th International Symposium on Mathematical Foundations of Computer Science, MFCS'2004 (Prague, Czech Republic, August 22-27, 2004)*, volume 3153 of *LNCS*, pages 346–355. Springer-Verlag, Berlin-Heidelberg, 2004.
- [113] Ankur Bhargava and S. Rao Kosaraju. An algorithm for computing dna walks. In Susanne Albers and Tomasz Radzik, editors, *Proceedings of the 12th Annual European Symposium on Algorithms, ESA'2004 (Bergen, Norway, September 14-17, 2004)*, volume 3221 of *LNCS*, pages 110–121. Springer-Verlag, Berlin-Heidelberg-New York, 2004.
- [114] Therese Biedl, Masud Hasan, and Alejandro López-Ortiz. Efficient view point selection for silhouettes of convex polyhedra. In Jiří Fiala, Koubek, Václav, and Jan Kratochvíl, editors, *Proceedings of the 29th International Symposium on Mathematical Foundations of Computer Science, MFCS'2004 (Prague, Czech Republic, August 22-27, 2004)*, volume 3153 of *LNCS*, pages 735–747. Springer-Verlag, Berlin-Heidelberg, 2004.

- [115] Therese Biedl, Anna Lubiw, and Michael J. Spriggs. Angles and lengths in reconfigurations of polygons and polyhedra. In Jiří Fiala, Koubek, Václav, and Jan Kratochvíl, editors, *Proceedings of the 29th International Symposium on Mathematical Foundations of Computer Science, MFCS'2004 (Prague, Czech Republic, August 22-27, 2004)*, volume 3153 of *LNCS*, pages 748–759. Springer-Verlag, Berlin-Heidelberg, 2004.
- [116] Thomas Bietenhader and Yoshio Okamoto. Core stability of minimum coloring games. In Juraj Hromkovič, Manfred Nagl, and Bernhard Westfechtel, editors, *Proceedings of the 30th International Workshop on Graph-Theoretic Concepts in Computer Science, WG'2004 (Bad Honnef, Germany, June 21-23, 2004)*, volume 3353 of *LNCS*, pages 389–401. Springer-Verlag, Berlin-Heidelberg, 2004.
- [117] Davide Bilò and Guido Proietti. Augmenting the edge-connectivity of a spider tree. In Rudolf Fleischer and Gerhard Trippen, editors, *Proceedings of the 15th International Symposium on Algorithms and Computation, ISAAC'2004 (Hong Kong, China, December 20-22, 2004)*, volume 3341 of *LNCS*, pages 159–171. Springer-Verlag, Berlin-Heidelberg, 2004.
- [118] Vittorio Bilò, Michele Flammini, Giovanna Melideo, and Luca Moscardelli. On nash equilibria for multicast transmissions in ad-hoc wireless networks. In Rudolf Fleischer and Gerhard Trippen, editors, *Proceedings of the 15th International Symposium on Algorithms and Computation, ISAAC'2004 (Hong Kong, China, December 20-22, 2004)*, volume 3341 of *LNCS*, pages 172–183. Springer-Verlag, Berlin-Heidelberg, 2004.
- [119] Andreas Björklund, Thore Husfeldt, and Sanjeev Khanna. Approximating longest directed paths and cycles. In Josep Díaz, Juhani Karhumäki, Arto Lepistö, and Donald Sannella, editors, *Proceedings of the 31st International Colloquium on Automata, Languages and Programming, ICALP'2004 (Turku, Finland, July 12-16, 2004)*, volume 3142 of *LNCS*, pages 222–233. Springer-Verlag, Berlin-Heidelberg, 2004.
- [120] Henrik Björklund, Sven Sandberg, and Sergei Vorobyov. A combinatorial strongly subexponential strategy improvement algorithm for mean

- payoff games. In Jiří Fiala, Koubek, Václav, and Jan Kratochvíl, editors, *Proceedings of the 29th International Symposium on Mathematical Foundations of Computer Science, MFCS'2004 (Prague, Czech Republic, August 22-27, 2004)*, volume 3153 of *LNCS*, pages 673–685. Springer-Verlag, Berlin-Heidelberg, 2004.
- [121] Guillaume Blin, Guillaume Fertin, and Stéphane Vialette. New results for the 2-interval pattern problem. In Suleyman Cenk Sahinalp, S. Muthukrishnan, and Ugur Dogrusoz, editors, *Proceedings of the 15th Annual Symposium on Combinatorial Pattern Matching, CPM'2004 (Istanbul, Turkey, July 5-7, 2004)*, volume 3109 of *LNCS*, pages 311–322. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2004.
- [122] Carlo Blundo, Paolo D'Arco, and Alfredo De Santis. Definitions and bounds for self-healing key distribution schemes. In Josep Díaz, Juhani Karhumäki, Arto Lepistö, and Donald Sannella, editors, *Proceedings of the 31st International Colloquium on Automata, Languages and Programming, ICALP'2004 (Turku, Finland, July 12-16, 2004)*, volume 3142 of *LNCS*, pages 234–245. Springer-Verlag, Berlin-Heidelberg, 2004.
- [123] Hans-Joachim Böckenhauer and Dirk Bongartz. Protein folding in the hp model on grid lattices with diagonals. In Jiří Fiala, Koubek, Václav, and Jan Kratochvíl, editors, *Proceedings of the 29th International Symposium on Mathematical Foundations of Computer Science, MFCS'2004 (Prague, Czech Republic, August 22-27, 2004)*, volume 3153 of *LNCS*, pages 227–238. Springer-Verlag, Berlin-Heidelberg, 2004.
- [124] Hans L. Bodlaender and Fedor V. Fomin. Equitable colorings of bounded treewidth graphs. In Jiří Fiala, Koubek, Václav, and Jan Kratochvíl, editors, *Proceedings of the 29th International Symposium on Mathematical Foundations of Computer Science, MFCS'2004 (Prague, Czech Republic, August 22-27, 2004)*, volume 3153 of *LNCS*, pages 180–190. Springer-Verlag, Berlin-Heidelberg, 2004.
- [125] Hans L. Bodlaender and Arie M.C.A. Koster. On the maximum cardinality search lower bound for treewidth. In Juraj Hromkovič, Manfred

- Nagl, and Bernhard Westfechtel, editors, *Proceedings of the 30th International Workshop on Graph-Theoretic Concepts in Computer Science, WG'2004 (Bad Honnef, Germany, June 21-23, 2004)*, volume 3353 of *LNCS*, pages 81–92. Springer-Verlag, Berlin-Heidelberg, 2004.
- [126] Hans L. Bodlaender, Arie M.C.A. Koster, and Thomas Wolle. Contraction and treewidth lower bounds. In Susanne Albers and Tomasz Radzik, editors, *Proceedings of the 12th Annual European Symposium on Algorithms, ESA'2004 (Bergen, Norway, September 14-17, 2004)*, volume 3221 of *LNCS*, pages 628–639. Springer-Verlag, Berlin-Heidelberg-New York, 2004.
- [127] Elmar Böhler, Christian Glaßer, Bernhard Schwarz, and Klaus Wagner. Generation problems. In Jiří Fiala, Koubek, Václav, and Jan Kratochvíl, editors, *Proceedings of the 29th International Symposium on Mathematical Foundations of Computer Science, MFCS'2004 (Prague, Czech Republic, August 22-27, 2004)*, volume 3153 of *LNCS*, pages 392–403. Springer-Verlag, Berlin-Heidelberg, 2004.
- [128] Elmar Böhler, Edith Hemaspaandra, Steffen Reith, and Heribert Vollmer. The complexity of boolean constraint isomorphism. In Volker Diekert and Michel Habib, editors, *Proceedings of the 21st Annual Symposium on Theoretical Aspects of Computer Science, STACS'2004 (Montpellier, France, March 25-27, 2004)*, volume 2996 of *LNCS*, pages 164–175. Springer-Verlag, Berlin-Heidelberg-New York, 2004.
- [129] Mikołaj Bojańczyk and Thomas Colcombet. Tree-walking automata cannot be determinized. In Josep Díaz, Juhani Karhumäki, Arto Lepistö, and Donald Sannella, editors, *Proceedings of the 31st International Colloquium on Automata, Languages and Programming, ICALP'2004 (Turku, Finland, July 12-16, 2004)*, volume 3142 of *LNCS*, pages 246–256. Springer-Verlag, Berlin-Heidelberg, 2004.
- [130] Eduardo Bonelli, Adriana Compagnoni, Mariangiola Dezani-Ciancaglini, and Pablo Garralda. Boxed ambients with communication interfaces. In Jiří Fiala, Koubek, Václav, and Jan Kratochvíl, editors, *Proceedings of the 29th International Symposium on Mathematical Foundations of Computer Science, MFCS'2004 (Prague, Czech Republic, August 22-27, 2004)*, volume 3153 of *LNCS*, pages 119–148. Springer-Verlag, Berlin-Heidelberg, 2004.



- [131] Nicolas Bonichon, Stefan Felsner, and Mohamed Mosbah. Convex drawings of 3-connected plane graphs. In János Pach, editor, *Proceedings of the 12th International Symposium on Graph Drawing, GD'2004 (New York, NY, USA, September 29 - October 2, 2004)*, volume 3383 of *LNCS*, pages 60–70. Springer-Verlag, Berlin-Heidelberg, 2004.
- [132] Nicolas Bonichon, Cyril Gavoille, Nicolas Hanusse, Dominique Poulahon, and Gilles Schaeffer. Planar graphs, via well-orderly maps and trees. In Juraj Hromkovič, Manfred Nagl, and Bernhard Westfechtel, editors, *Proceedings of the 30th International Workshop on Graph-Theoretic Concepts in Computer Science, WG'2004 (Bad Honnef, Germany, June 21-23, 2004)*, volume 3353 of *LNCS*, pages 270–284. Springer-Verlag, Berlin-Heidelberg, 2004.
- [133] E. Boros, K. Elbassioni, V. Gurvich, and L. Khachiyan. Enumerating minimal dicuts and strongly connected subgraphs and related geometric problems. In Daniel Bienstock and George Nemhauser, editors, *Proceedings of the 10th International Conference on Integer Programming and Combinatorial Optimization, IPCO'2004 (New York, NY, USA, June 7-11, 2004)*, volume 3064 of *LNCS*, pages 152–162. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2004.
- [134] Endre Boros, Khaled Elbassioni, and Vladimir Gurvich. Algorithms for generating minimal blockers of perfect matchings in bipartite graphs and related problems. In Susanne Albers and Tomasz Radzik, editors, *Proceedings of the 12th Annual European Symposium on Algorithms, ESA'2004 (Bergen, Norway, September 14-17, 2004)*, volume 3221 of *LNCS*, pages 122–133. Springer-Verlag, Berlin-Heidelberg-New York, 2004.
- [135] Endre Boros, Khaled Elbassioni, Vladimir Gurvich, Leonid Khachiyan, and Kazuhisa Makino. Generating paths and cuts in multi-pole (di)graphs. In Jiří Fiala, Koubek, Václav, and Jan Kratochvíl, editors, *Proceedings of the 29th International Symposium on Mathematical Foundations of Computer Science, MFCS'2004 (Prague, Czech Republic, August 22-27, 2004)*, volume 3153 of *LNCS*, pages 298–309. Springer-Verlag, Berlin-Heidelberg, 2004.

- [136] Prosenjit Bose, Ferran Hurtado, Eduardo Rivera-Campo, and David R. Wood. Partitions of complete geometric graphs into plane trees. In János Pach, editor, *Proceedings of the 12th International Symposium on Graph Drawing, GD'2004 (New York, NY, USA, September 29 - October 2, 2004)*, volume 3383 of *LNCS*, pages 71–81. Springer-Verlag, Berlin-Heidelberg, 2004.
- [137] Ahmed Bouajjani and Antoine Meyer. Symbolic reachability analysis of higher-order context-free processes. In Kamal Lodaya and Meena Mahajan, editors, *Proceedings of the 24th International Conference on Foundations of Software Technology and Theoretical Computer Science, FSTTCS'2004 (Chennai, India, December 16-18, 2004)*, volume 3328 of *LNCS*, pages 135–147. Springer-Verlag, Berlin-Heidelberg, 2004.
- [138] Béatrice Bouchou, Denio Duarte, Mírian Halfeld Ferrari Alves, Dominique Laurent, and Martin A. Musicante. Schema evolution for xml: A consistency-preserving approach. In Jiří Fiala, Koubek, Václav, and Jan Kratochvíl, editors, *Proceedings of the 29th International Symposium on Mathematical Foundations of Computer Science, MFCS'2004 (Prague, Czech Republic, August 22-27, 2004)*, volume 3153 of *LNCS*, pages 876–888. Springer-Verlag, Berlin-Heidelberg, 2004.
- [139] Pierre Boudes. Projecting games on hypercoherences. In Josep Díaz, Juhani Karhumäki, Arto Lepistö, and Donald Sannella, editors, *Proceedings of the 31st International Colloquium on Automata, Languages and Programming, ICALP'2004 (Turku, Finland, July 12-16, 2004)*, volume 3142 of *LNCS*, pages 257–268. Springer-Verlag, Berlin-Heidelberg, 2004.
- [140] Olivier Bournez and Emmanuel Hainry. An analog characterization of elementarily computable functions over the real numbers. In Josep Díaz, Juhani Karhumäki, Arto Lepistö, and Donald Sannella, editors, *Proceedings of the 31st International Colloquium on Automata, Languages and Programming, ICALP'2004 (Turku, Finland, July 12-16, 2004)*, volume 3142 of *LNCS*, pages 269–280. Springer-Verlag, Berlin-Heidelberg, 2004.
- [141] Patricia Bouyer, Franck Cassez, Emmanuel Fleury, and Kim G. Larsen. Optimal strategies in priced timed game automata. In Kamal Lodaya

- and Meena Mahajan, editors, *Proceedings of the 24th International Conference on Foundations of Software Technology and Theoretical Computer Science, FSTTCS'2004 (Chennai, India, December 16-18, 2004)*, volume 3328 of *LNCS*, pages 148–160. Springer-Verlag, Berlin-Heidelberg, 2004.
- [142] Joan Boyar and Paul Medvedev. The relative worst order ratio applied to seat reservation. In Torben Hagerup and Jyrki Katajainen, editors, *Proceedings of the 9th Scandinavian Workshop on Algorithm Theory, SWAT'2004 (Humblebæk, Denmark, July 8-10, 2004)*, volume 3111 of *LNCS*, pages 90–101. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2004.
- [143] John M. Boyer. Additional pc-tree planarity conditions. In János Pach, editor, *Proceedings of the 12th International Symposium on Graph Drawing, GD'2004 (New York, NY, USA, September 29 - October 2, 2004)*, volume 3383 of *LNCS*, pages 82–88. Springer-Verlag, Berlin-Heidelberg, 2004.
- [144] John M. Boyer, Pier Francesco Cortese, Maurizio Patrignani, and Giuseppe Di Battista. Stop minding your p's and q's: Implementing a fast and simple dfs-based planarity testing and embedding algorithm. In Giuseppe Liotta, editor, *Proceedings of the 11th International Symposium on Graph Drawing, GD'2003 (Perugia, Italy, September 21-24, 2003)*, volume 2912 of *LNCS*, pages 25–36. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2004.
- [145] Matthew Brand, Sarah Frisken, Neal Lesh, Joe Marks, Daniel Nikovski, Ron Perry, and Jonathan Yedidia. Theory and applied computing: Observations and anecdotes. In Jiří Fiala, Koubek, Václav, and Jan Kratochvíl, editors, *Proceedings of the 29th International Symposium on Mathematical Foundations of Computer Science, MFCS'2004 (Prague, Czech Republic, August 22-27, 2004)*, volume 3153 of *LNCS*, pages 106–118. Springer-Verlag, Berlin-Heidelberg, 2004.
- [146] Franz Brandenburg, David Eppstein, Michael T. Goodrich, Stephen Kobourov, Giuseppe Liotta, and Petra Mutzel. Selected open problems in graph drawing. In Giuseppe Liotta, editor, *Proceedings of the 11th International Symposium on Graph Drawing, GD'2003 (Perugia, Italy, September 21-24, 2003)*, volume 2912 of *LNCS*, pages

- 515–539. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2004.
- [147] Franz J. Brandenburg, Ulrik Brandes, Peter Eades, and Joe Marks. Graph drawing contest report. In Giuseppe Liotta, editor, *Proceedings of the 11th International Symposium on Graph Drawing, GD'2003 (Perugia, Italy, September 21-24, 2003)*, volume 2912 of *LNCS*, pages 504–508. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2004.
- [148] Franz J. Brandenburg, Christian A. Duncan, Emden Gansner, and Stephen G. Kobourov. Graph-drawing contest report. In János Pach, editor, *Proceedings of the 12th International Symposium on Graph Drawing, GD'2004 (New York, NY, USA, September 29 - October 2, 2004)*, volume 3383 of *LNCS*, pages 512–516. Springer-Verlag, Berlin-Heidelberg, 2004.
- [149] Ulrik Brandes, Sabine Cornelsen, and Dorothea Wagner. Characterizing families of cuts that can be represented by axis-parallel rectangles. In Giuseppe Liotta, editor, *Proceedings of the 11th International Symposium on Graph Drawing, GD'2003 (Perugia, Italy, September 21-24, 2003)*, volume 2912 of *LNCS*, pages 357–368. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2004.
- [150] Ulrik Brandes, Tim Dwyer, and Falk Schreiber. Visualizing related metabolic pathways in two and a half dimensions. In Giuseppe Liotta, editor, *Proceedings of the 11th International Symposium on Graph Drawing, GD'2003 (Perugia, Italy, September 21-24, 2003)*, volume 2912 of *LNCS*, pages 111–122. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2004.
- [151] Ulrik Brandes and Jürgen Lerner. Structural similarity in graphs — a relaxation approach for role assignment. In Rudolf Fleischer and Gerhard Trippen, editors, *Proceedings of the 15th International Symposium on Algorithms and Computation, ISAAC'2004 (Hong Kong, China, December 20-22, 2004)*, volume 3341 of *LNCS*, pages 184–195. Springer-Verlag, Berlin-Heidelberg, 2004.
- [152] Ulrik Brandes and Christian Pich. Graphml transformation. In János Pach, editor, *Proceedings of the 12th International Symposium on*

- Graph Drawing, GD'2004 (New York, NY, USA, September 29 - October 2, 2004)*, volume 3383 of *LNCS*, pages 89–99. Springer-Verlag, Berlin-Heidelberg, 2004.
- [153] Marcus Brazil, Pawel Winter, and Martin Zachariasen. Flexibility of steiner trees in uniform orientation metrics. In Rudolf Fleischer and Gerhard Trippen, editors, *Proceedings of the 15th International Symposium on Algorithms and Computation, ISAAC'2004 (Hong Kong, China, December 20-22, 2004)*, volume 3341 of *LNCS*, pages 196–208. Springer-Verlag, Berlin-Heidelberg, 2004.
- [154] Stina Bridgeman. Graphex: An improved graph translation service. In Giuseppe Liotta, editor, *Proceedings of the 11th International Symposium on Graph Drawing, GD'2003 (Perugia, Italy, September 21-24, 2003)*, volume 2912 of *LNCS*, pages 307–313. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2004.
- [155] Valentin E. Brimkov, Reneta P. Barneva, Reinhard Klette, and Joseph Straight. Efficient computation of the lovász theta function for a class of circulant graphs. In Juraj Hromkovič, Manfred Nagl, and Bernhard Westfechtel, editors, *Proceedings of the 30th International Workshop on Graph-Theoretic Concepts in Computer Science, WG'2004 (Bad Honnef, Germany, June 21-23, 2004)*, volume 3353 of *LNCS*, pages 285–295. Springer-Verlag, Berlin-Heidelberg, 2004.
- [156] Carlos Brito, Eli Gafni, and Shailesh Vaya. An information theoretic lower bound for broadcasting in radio networks. In Volker Diekert and Michel Habib, editors, *Proceedings of the 21st Annual Symposium on Theoretical Aspects of Computer Science, STACS'2004 (Montpellier, France, March 25-27, 2004)*, volume 2996 of *LNCS*, pages 534–546. Springer-Verlag, Berlin-Heidelberg-New York, 2004.
- [157] Gerth Stølting Brodal. Cache-oblivious algorithms and data structures. In Torben Hagerup and Jyrki Katajainen, editors, *Proceedings of the 9th Scandinavian Workshop on Algorithm Theory, SWAT'2004 (Humbæk, Denmark, July 8-10, 2004)*, volume 3111 of *LNCS*, pages 3–13. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2004.

- [158] Gerth Stølting Brodal, Rolf Fagerberg, Ulrich Meyer, and Norbert Zeh. Cache-oblivious data structures and algorithms for undirected breadth-first search and shortest paths. In Torben Hagerup and Jyrki Katajainen, editors, *Proceedings of the 9th Scandinavian Workshop on Algorithm Theory, SWAT'2004 (Humblebæk, Denmark, July 8-10, 2004)*, volume 3111 of *LNCS*, pages 480–492. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2004.
- [159] Hajo Broersma, Fedor V. Fomin, and Gerhard J. Woeginger. Parallel knock-out schemes in networks. In Jiří Fiala, Koubek, Václav, and Jan Kratochvíl, editors, *Proceedings of the 29th International Symposium on Mathematical Foundations of Computer Science, MFCS'2004 (Prague, Czech Republic, August 22-27, 2004)*, volume 3153 of *LNCS*, pages 204–214. Springer-Verlag, Berlin-Heidelberg, 2004.
- [160] Hajo J. Broersma, Daniel Paulusma, Gerard J.M. Smit, Frank Vlaardingerbroek, and Gerhard J. Woeginger. The computational complexity of the minimum weight processor assignment problem. In Juraj Hromkovič, Manfred Nagl, and Bernhard Westfechtel, editors, *Proceedings of the 30th International Workshop on Graph-Theoretic Concepts in Computer Science, WG'2004 (Bad Honnef, Germany, June 21-23, 2004)*, volume 3353 of *LNCS*, pages 189–200. Springer-Verlag, Berlin-Heidelberg, 2004.
- [161] Reinier Bröker and Peter Stevenhagen. Elliptic curves with a given number of points. In Duncan Buell, editor, *Proceedings of the 6th International Symposium on Algorithmic Number Theory, ANTS'2004 (Burlington, VT, USA, June 13-18, 2004)*, volume 3076 of *LNCS*, pages 117–131. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2004.
- [162] N. Bruin and E.V. Flynn. Rational divisors in rational divisor classes. In Duncan Buell, editor, *Proceedings of the 6th International Symposium on Algorithmic Number Theory, ANTS'2004 (Burlington, VT, USA, June 13-18, 2004)*, volume 3076 of *LNCS*, pages 132–139. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2004.
- [163] Glenn Bruns and Patrice Godefroid. Model checking with multi-valued logics. In Josep Díaz, Juhani Karhumäki, Arto Lepistö, and

- Donald Sannella, editors, *Proceedings of the 31st International Colloquium on Automata, Languages and Programming, ICALP'2004 (Turku, Finland, July 12-16, 2004)*, volume 3142 of *LNCS*, pages 281–293. Springer-Verlag, Berlin-Heidelberg, 2004.
- [164] Christoph Buchheim and Michael Jünger. An integer programming approach to fuzzy symmetry detection. In Giuseppe Liotta, editor, *Proceedings of the 11th International Symposium on Graph Drawing, GD'2003 (Perugia, Italy, September 21-24, 2003)*, volume 2912 of *LNCS*, pages 166–177. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2004.
- [165] Harry Buhrman, Hartmut Klauck, Nikolai Vereshchagin, and Paul Vitányi. Individual communication complexity. In Volker Diekert and Michel Habib, editors, *Proceedings of the 21st Annual Symposium on Theoretical Aspects of Computer Science, STACS'2004 (Montpellier, France, March 25-27, 2004)*, volume 2996 of *LNCS*, pages 19–30. Springer-Verlag, Berlin-Heidelberg-New York, 2004.
- [166] Andrei Bulatov and Martin Grohe. The complexity of partition functions. In Josep Díaz, Juhani Karhumäki, Arto Lepistö, and Donald Sannella, editors, *Proceedings of the 31st International Colloquium on Automata, Languages and Programming, ICALP'2004 (Turku, Finland, July 12-16, 2004)*, volume 3142 of *LNCS*, pages 294–306. Springer-Verlag, Berlin-Heidelberg, 2004.
- [167] Costas Busch, Malik Magdon-Ismail, Marios Mavronicolas, and Paul Spirakis. Direct routing: Algorithms and complexity. In Susanne Albers and Tomasz Radzik, editors, *Proceedings of the 12th Annual European Symposium on Algorithms, ESA'2004 (Bergen, Norway, September 14-17, 2004)*, volume 3221 of *LNCS*, pages 134–145. Springer-Verlag, Berlin-Heidelberg-New York, 2004.
- [168] Nadia Busi, Maurizio Gabbrielli, and Gianluigi Zavattaro. Comparing recursion, replication, and iteration in process calculi. In Josep Díaz, Juhani Karhumäki, Arto Lepistö, and Donald Sannella, editors, *Proceedings of the 31st International Colloquium on Automata, Languages and Programming, ICALP'2004 (Turku, Finland, July 12-16, 2004)*, volume 3142 of *LNCS*, pages 307–319. Springer-Verlag, Berlin-Heidelberg, 2004.

- [169] Nadia Busi and Roberto Gorrieri. Positive non-interference in elementary and trace nets. In Jordi Cortadella and Wolfgang Reisig, editors, *Proceedings of the 25th International Conference on Applications and Theory of Petri Nets, ICATPN'2004 (Bologna, Italy, June 21-25, 2004)*, volume 3099 of *LNCS*, pages 1–16. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2004.
- [170] Doron Bustan, Orna Kupferman, and Moshe Y. Vardi. A measured collapse of the modal *mu*-calculus alternation hierarchy. In Volker Diekert and Michel Habib, editors, *Proceedings of the 21st Annual Symposium on Theoretical Aspects of Computer Science, STACS'2004 (Montpellier, France, March 25-27, 2004)*, volume 2996 of *LNCS*, pages 522–533. Springer-Verlag, Berlin-Heidelberg-New York, 2004.
- [171] Yanga Byun and Kyungsook Han. Dna secondary structures for probe design. In János Pach, editor, *Proceedings of the 12th International Symposium on Graph Drawing, GD'2004 (New York, NY, USA, September 29 - October 2, 2004)*, volume 3383 of *LNCS*, pages 504–507. Springer-Verlag, Berlin-Heidelberg, 2004.
- [172] Sergio Cabello, Erik D. Demaine, and Günter Rote. Planar embeddings of graphs with specified edge lengths. In Giuseppe Liotta, editor, *Proceedings of the 11th International Symposium on Graph Drawing, GD'2003 (Perugia, Italy, September 21-24, 2003)*, volume 2912 of *LNCS*, pages 283–294. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2004.
- [173] Jin-Yi Cai, Venkatesan T. Chakaravarthy, and Dieter van Melkebeek. Time-space tradeoff in derandomizing probabilistic logspace. In Volker Diekert and Michel Habib, editors, *Proceedings of the 21st Annual Symposium on Theoretical Aspects of Computer Science, STACS'2004 (Montpellier, France, March 25-27, 2004)*, volume 2996 of *LNCS*, pages 571–583. Springer-Verlag, Berlin-Heidelberg-New York, 2004.
- [174] Jin-Yi Cai and Osamu Watanabe. Random access to advice strings and collapsing results. In Rudolf Fleischer and Gerhard Trippen, editors, *Proceedings of the 15th International Symposium on Algorithms and Computation, ISAAC'2004 (Hong Kong, China, December 20-22, 2004)*, volume 3341 of *LNCS*, pages 209–220. Springer-Verlag, Berlin-Heidelberg, 2004.



- [175] Tiziana Calamoneri and Annalisa Massini. Nearly optimal three dimensional layout of hypercube networks. In Giuseppe Liotta, editor, *Proceedings of the 11th International Symposium on Graph Drawing, GD'2003 (Perugia, Italy, September 21-24, 2003)*, volume 2912 of *LNCS*, pages 247–258. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2004.
- [176] Frank Calegari and William A. Stein. Conjectures about discriminants of hecke algebras of prime level. In Duncan Buell, editor, *Proceedings of the 6th International Symposium on Algorithmic Number Theory, ANTS'2004 (Burlington, VT, USA, June 13-18, 2004)*, volume 3076 of *LNCS*, pages 140–152. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2004.
- [177] Gruia Calinescu. Bounding the payment of approximate truthful mechanisms. In Rudolf Fleischer and Gerhard Trippen, editors, *Proceedings of the 15th International Symposium on Algorithms and Computation, ISAAC'2004 (Hong Kong, China, December 20-22, 2004)*, volume 3341 of *LNCS*, pages 221–233. Springer-Verlag, Berlin-Heidelberg, 2004.
- [178] Gruia Calinescu and Alexander Zelikovsky. The polymatroid steiner problems. In Rudolf Fleischer and Gerhard Trippen, editors, *Proceedings of the 15th International Symposium on Algorithms and Computation, ISAAC'2004 (Hong Kong, China, December 20-22, 2004)*, volume 3341 of *LNCS*, pages 234–245. Springer-Verlag, Berlin-Heidelberg, 2004.
- [179] Ioannis Caragiannis, Aleksei Fishkin, Christos Kaklamanis, and Evi Papaioannou. Online algorithms for disk graphs. In Jiří Fiala, Koubek, Václav, and Jan Kratochvíl, editors, *Proceedings of the 29th International Symposium on Mathematical Foundations of Computer Science, MFCS'2004 (Prague, Czech Republic, August 22-27, 2004)*, volume 3153 of *LNCS*, pages 215–226. Springer-Verlag, Berlin-Heidelberg, 2004.
- [180] Ioannis Caragiannis and Christos Kaklamanis. Approximate path coloring with applications to wavelength assignment in wdm optical networks. In Volker Diekert and Michel Habib, editors, *Proceedings of the 21st Annual Symposium on Theoretical Aspects of Computer Science, STACS'2004 (Montpellier, France, March 25-27, 2004)*, volume

2996 of *LNCS*, pages 258–269. Springer-Verlag, Berlin-Heidelberg-New York, 2004.

- [181] Marco Carbone, Mogens Nielsen, and Vladimiro Sassone. A calculus for trust management. In Kamal Lodaya and Meena Mahajan, editors, *Proceedings of the 24th International Conference on Foundations of Software Technology and Theoretical Computer Science, FSTTCS'2004 (Chennai, India, December 16-18, 2004)*, volume 3328 of *LNCS*, pages 161–173. Springer-Verlag, Berlin-Heidelberg, 2004.
- [182] Paz Carmi and Matthew J. Katz. Power assignment in radio networks with two power levels. In Torben Hagerup and Jyrki Katajainen, editors, *Proceedings of the 9th Scandinavian Workshop on Algorithm Theory, SWAT'2004 (Humblebæk, Denmark, July 8-10, 2004)*, volume 3111 of *LNCS*, pages 431–441. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2004.
- [183] Douglas E. Carroll and Ashish Goel. Lower bounds for embedding into distributions over excluded minor graph families. In Susanne Albers and Tomasz Radzik, editors, *Proceedings of the 12th Annual European Symposium on Algorithms, ESA'2004 (Bergen, Norway, September 14-17, 2004)*, volume 3221 of *LNCS*, pages 146–156. Springer-Verlag, Berlin-Heidelberg-New York, 2004.
- [184] Jakub Černý, Zdeněk Dvořák, Vít Jelínek, and Jan Kára. Noncrossing hamiltonian paths in geometric graphs. In Giuseppe Liotta, editor, *Proceedings of the 11th International Symposium on Graph Drawing, GD'2003 (Perugia, Italy, September 21-24, 2003)*, volume 2912 of *LNCS*, pages 86–97. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2004.
- [185] Ho-Leung Chan, Wing-Kai Hon, and Tak-Wah Lam. Compressed index for a dynamic collection of texts. In Suleyman Cenk Sahinalp, S. Muthukrishnan, and Ugur Dogrusoz, editors, *Proceedings of the 15th Annual Symposium on Combinatorial Pattern Matching, CPM'2004 (Istanbul, Turkey, July 5-7, 2004)*, volume 3109 of *LNCS*, pages 445–456. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2004.

- [186] Hubert Chan. A parameterized algorithm for upward planarity testing. In Susanne Albers and Tomasz Radzik, editors, *Proceedings of the 12th Annual European Symposium on Algorithms, ESA'2004 (Bergen, Norway, September 14-17, 2004)*, volume 3221 of *LNCS*, pages 157–168. Springer-Verlag, Berlin-Heidelberg-New York, 2004.
- [187] M.Y. Chan, Danny Chen, Francis Y.L. Chin, and Cao An Wang. Construction of the nearest neighbor embracing graph of a point set. In Torben Hagerup and Jyrki Katajainen, editors, *Proceedings of the 9th Scandinavian Workshop on Algorithm Theory, SWAT'2004 (Humblebæk, Denmark, July 8-10, 2004)*, volume 3111 of *LNCS*, pages 150–160. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2004.
- [188] Timothy M. Chan and Bashir S. Sadjad. Geometric optimization problems over sliding windows. In Rudolf Fleischer and Gerhard Trippen, editors, *Proceedings of the 15th International Symposium on Algorithms and Computation, ISAAC'2004 (Hong Kong, China, December 20-22, 2004)*, volume 3341 of *LNCS*, pages 246–258. Springer-Verlag, Berlin-Heidelberg, 2004.
- [189] Wun-Tat Chan, Tak-Wah Lam, Hing-Fung Ting, and Prudence W.H. Wong. New results on on-demand broadcasting with deadline via job scheduling with cancellation. In Kyung-Yong Chwa and J. Ian Munro, editors, *Proceedings of the 10th Annual International Conference on Computing and Combinatorics, COCOON'2004 (Jeju Island, Korea, August 17-20, 2004)*, volume 3106 of *LNCS*, pages 210–218. Springer-Verlag, Berlin-Heidelberg, 2004.
- [190] Wun-Tat Chan and Prudence W.H. Wong. On-line windows scheduling of temporary items. In Rudolf Fleischer and Gerhard Trippen, editors, *Proceedings of the 15th International Symposium on Algorithms and Computation, ISAAC'2004 (Hong Kong, China, December 20-22, 2004)*, volume 3341 of *LNCS*, pages 259–270. Springer-Verlag, Berlin-Heidelberg, 2004.
- [191] L. Sunil Chandran and N.S. Narayanaswamy. On the arrangement of cliques in chordal graphs with respect to the cuts. In Kyung-Yong Chwa and J. Ian Munro, editors, *Proceedings of the 10th Annual International*

- Conference on Computing and Combinatorics, COCOON'2004 (Jeju Island, Korea, August 17-20, 2004)*, volume 3106 of *LNCS*, pages 151–160. Springer-Verlag, Berlin-Heidelberg, 2004.
- [192] Vijay Chandru, Ramesh Hariharan, and Narasimha M. Krishnakumar. Short-cuts on star, source and planar unfoldings. In Kamal Lodaya and Meena Mahajan, editors, *Proceedings of the 24th International Conference on Foundations of Software Technology and Theoretical Computer Science, FSTTCS'2004 (Chennai, India, December 16-18, 2004)*, volume 3328 of *LNCS*, pages 174–185. Springer-Verlag, Berlin-Heidelberg, 2004.
- [193] Claudine Chaouiya, Elisabeth Remy, Paul Ruet, and Denis Thieffry. Qualitative modelling of genetic networks: From logical regulatory graphs to standard petri nets. In Jordi Cortadella and Wolfgang Reisig, editors, *Proceedings of the 25th International Conference on Applications and Theory of Petri Nets, ICATPN'2004 (Bologna, Italy, June 21-25, 2004)*, volume 3099 of *LNCS*, pages 137–156. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2004.
- [194] Chao Chen and Ho-Lun Cheng. Superimposing voronoi complexes for shape deformation. In Rudolf Fleischer and Gerhard Trippen, editors, *Proceedings of the 15th International Symposium on Algorithms and Computation, ISAAC'2004 (Hong Kong, China, December 20-22, 2004)*, volume 3341 of *LNCS*, pages 330–341. Springer-Verlag, Berlin-Heidelberg, 2004.
- [195] Danny Z. Chen, Jinhee Chun, Naoki Katoh, and Takeshi Tokuyama. Efficient algorithms for approximating a multi-dimensional voxel terrain by a unimodal terrain. In Kyung-Yong Chwa and J. Ian Munro, editors, *Proceedings of the 10th Annual International Conference on Computing and Combinatorics, COCOON'2004 (Jeju Island, Korea, August 17-20, 2004)*, volume 3106 of *LNCS*, pages 238–248. Springer-Verlag, Berlin-Heidelberg, 2004.
- [196] Danny Z. Chen, Xiaobo S. Hu, Shuang Luan, Shahid A. Naqvi, Chao Wang, and Cedric X. Yu. Generalized geometric approaches for leaf sequencing problems in radiation therapy. In Rudolf Fleischer and

- Gerhard Trippen, editors, *Proceedings of the 15th International Symposium on Algorithms and Computation, ISAAC'2004 (Hong Kong, China, December 20-22, 2004)*, volume 3341 of *LNCS*, pages 271–281. Springer-Verlag, Berlin-Heidelberg, 2004.
- [197] Hsin-Fu Chen and Maw-Shang Chang. An efficient exact algorithm for the minimum ultrametric tree problem. In Rudolf Fleischer and Gerhard Trippen, editors, *Proceedings of the 15th International Symposium on Algorithms and Computation, ISAAC'2004 (Hong Kong, China, December 20-22, 2004)*, volume 3341 of *LNCS*, pages 282–293. Springer-Verlag, Berlin-Heidelberg, 2004.
- [198] Hubie Chen and Martin Pál. Optimization, games, and quantified constraint satisfaction. In Jiří Fiala, Koubek, Václav, and Jan Kratochvíl, editors, *Proceedings of the 29th International Symposium on Mathematical Foundations of Computer Science, MFCS'2004 (Prague, Czech Republic, August 22-27, 2004)*, volume 3153 of *LNCS*, pages 239–250. Springer-Verlag, Berlin-Heidelberg, 2004.
- [199] Jianer Chen, Xiuzhen Huang, Iyad A. Kanj, and Ge Xia. Polynomial time approximation schemes and parameterized complexity. In Jiří Fiala, Koubek, Václav, and Jan Kratochvíl, editors, *Proceedings of the 29th International Symposium on Mathematical Foundations of Computer Science, MFCS'2004 (Prague, Czech Republic, August 22-27, 2004)*, volume 3153 of *LNCS*, pages 500–512. Springer-Verlag, Berlin-Heidelberg, 2004.
- [200] Kuan-Yu Chen and Kun-Mao Chao. On the range maximum-sum segment query problem. In Rudolf Fleischer and Gerhard Trippen, editors, *Proceedings of the 15th International Symposium on Algorithms and Computation, ISAAC'2004 (Hong Kong, China, December 20-22, 2004)*, volume 3341 of *LNCS*, pages 294–305. Springer-Verlag, Berlin-Heidelberg, 2004.
- [201] Ning Chen, Xiaotie Deng, Xiaoming Sun, and Andrew Chi-Chih Yao. Dynamic price sequence and incentive compatibility. In Josep Díaz, Juhani Karhumäki, Arto Lepistö, and Donald Sannella, editors, *Proceedings of the 31st International Colloquium on Automata, Languages and Programming, ICALP'2004 (Turku, Finland, July 12-16,*

- 2004), volume 3142 of *LNCS*, pages 320–331. Springer-Verlag, Berlin-Heidelberg, 2004.
- [202] Ning Chen, Xiaotie Deng, Xiaoming Sun, and Andrew Chi-Chih Yao. Fisher equilibrium price with a class of concave utility functions. In Susanne Albers and Tomasz Radzik, editors, *Proceedings of the 12th Annual European Symposium on Algorithms, ESA'2004 (Bergen, Norway, September 14-17, 2004)*, volume 3221 of *LNCS*, pages 169–179. Springer-Verlag, Berlin-Heidelberg-New York, 2004.
- [203] Xujin Chen and Wenan Zang. An efficient algorithm for finding maximum cycle packings in reducible flow graphs. In Rudolf Fleischer and Gerhard Trippen, editors, *Proceedings of the 15th International Symposium on Algorithms and Computation, ISAAC'2004 (Hong Kong, China, December 20-22, 2004)*, volume 3341 of *LNCS*, pages 306–317. Springer-Verlag, Berlin-Heidelberg, 2004.
- [204] Zhenming Chen, Vikas Singh, and Jinhui Xu. Efficient job scheduling algorithms with multi-type contentions. In Rudolf Fleischer and Gerhard Trippen, editors, *Proceedings of the 15th International Symposium on Algorithms and Computation, ISAAC'2004 (Hong Kong, China, December 20-22, 2004)*, volume 3341 of *LNCS*, pages 318–329. Springer-Verlag, Berlin-Heidelberg, 2004.
- [205] Zhi-Zhong Chen. New bounds on the number of edges in a  $k$ -map graph. In Kyung-Yong Chwa and J. Ian Munro, editors, *Proceedings of the 10th Annual International Conference on Computing and Combinatorics, COCOON'2004 (Jeju Island, Korea, August 17-20, 2004)*, volume 3106 of *LNCS*, pages 319–328. Springer-Verlag, Berlin-Heidelberg, 2004.
- [206] Zhi-Zhong Chen and Tatsuie Tsukiji. Computing bounded-degree phylogenetic roots of disconnected graphs. In Juraj Hromkovič, Manfred Nagl, and Bernhard Westfechtel, editors, *Proceedings of the 30th International Workshop on Graph-Theoretic Concepts in Computer Science, WG'2004 (Bad Honnef, Germany, June 21-23, 2004)*, volume 3353 of *LNCS*, pages 308–319. Springer-Verlag, Berlin-Heidelberg, 2004.
- [207] James Cheney. The complexity of equivariant unification. In Josep Díaz, Juhani Karhumäki, Arto Lepistö, and Donald Sannella, editors,

- Proceedings of the 31st International Colloquium on Automata, Languages and Programming, ICALP'2004 (Turku, Finland, July 12-16, 2004)*, volume 3142 of *LNCS*, pages 332–344. Springer-Verlag, Berlin-Heidelberg, 2004.
- [208] Ho-lun Cheng and Tony Tan. Subdividing alpha complex. In Kamal Lodaya and Meena Mahajan, editors, *Proceedings of the 24th International Conference on Foundations of Software Technology and Theoretical Computer Science, FSTTCS'2004 (Chennai, India, December 16-18, 2004)*, volume 3328 of *LNCS*, pages 186–197. Springer-Verlag, Berlin-Heidelberg, 2004.
- [209] Qi Cheng and Ming-Deh Huang. On partial lifting and the elliptic curve discrete logarithm problem. In Rudolf Fleischer and Gerhard Trippen, editors, *Proceedings of the 15th International Symposium on Algorithms and Computation, ISAAC'2004 (Hong Kong, China, December 20-22, 2004)*, volume 3341 of *LNCS*, pages 342–351. Springer-Verlag, Berlin-Heidelberg, 2004.
- [210] Joseph Cheriyan and Mohammad R. Salavatipour. Hardness and approximation results for packing steiner trees. In Susanne Albers and Tomasz Radzik, editors, *Proceedings of the 12th Annual European Symposium on Algorithms, ESA'2004 (Bergen, Norway, September 14-17, 2004)*, volume 3221 of *LNCS*, pages 180–191. Springer-Verlag, Berlin-Heidelberg-New York, 2004.
- [211] Francis Y.L. Chin, Jianbo Qian, and Cao An Wang. Progress on maximum weight triangulation. In Kyung-Yong Chwa and J. Ian Munro, editors, *Proceedings of the 10th Annual International Conference on Computing and Combinatorics, COCOON'2004 (Jeju Island, Korea, August 17-20, 2004)*, volume 3106 of *LNCS*, pages 53–61. Springer-Verlag, Berlin-Heidelberg, 2004.
- [212] Miroslav Chlebík and Janka Chlebíková. Approximation hardness of dominating set problems. In Susanne Albers and Tomasz Radzik, editors, *Proceedings of the 12th Annual European Symposium on Algorithms, ESA'2004 (Bergen, Norway, September 14-17, 2004)*, volume 3221 of *LNCS*, pages 192–203. Springer-Verlag, Berlin-Heidelberg-New York, 2004.

- [213] Miroslav Chlebík and Janka Chlebíková. Improvement of nemhauser-trotter theorem and its applications in parametrized complexity. In Torben Hagerup and Jyrki Katajainen, editors, *Proceedings of the 9th Scandinavian Workshop on Algorithm Theory, SWAT'2004 (Humblebæk, Denmark, July 8-10, 2004)*, volume 3111 of *LNCS*, pages 174–186. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2004.
- [214] Miroslav Chlebík and Janka Chlebíková. On approximation hardness of the minimum 2sat-deletion problem. In Jiří Fiala, Koubek, Václav, and Jan Kratochvíl, editors, *Proceedings of the 29th International Symposium on Mathematical Foundations of Computer Science, MFCS'2004 (Prague, Czech Republic, August 22-27, 2004)*, volume 3153 of *LNCS*, pages 263–273. Springer-Verlag, Berlin-Heidelberg, 2004.
- [215] Vicky Choi and Navin Goyal. A combinatorial shape matching algorithm for rigid protein docking. In Suleyman Cenk Sahinalp, S. Muthukrishnan, and Ugur Dogrusoz, editors, *Proceedings of the 15th Annual Symposium on Combinatorial Pattern Matching, CPM'2004 (Istanbul, Turkey, July 5-7, 2004)*, volume 3109 of *LNCS*, pages 285–296. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2004.
- [216] Benny Chor, Mike Fellows, and David Juedes. Linear kernels in linear time, or how to save  $k$  colors in  $o(n^2)$  steps. In Juraj Hromkovič, Manfred Nagl, and Bernhard Westfechtel, editors, *Proceedings of the 30th International Workshop on Graph-Theoretic Concepts in Computer Science, WG'2004 (Bad Honnef, Germany, June 21-23, 2004)*, volume 3353 of *LNCS*, pages 257–269. Springer-Verlag, Berlin-Heidelberg, 2004.
- [217] Stirling Chow and Frank Ruskey. Drawing area-proportional venn and euler diagrams. In Giuseppe Liotta, editor, *Proceedings of the 11th International Symposium on Graph Drawing, GD'2003 (Perugia, Italy, September 21-24, 2003)*, volume 2912 of *LNCS*, pages 466–477. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2004.
- [218] George Christodoulou, Elias Koutsoupias, and Akash Nanavati. Coordination mechanisms. In Josep Díaz, Juhani Karhumäki, Arto Lep-



- istö, and Donald Sannella, editors, *Proceedings of the 31st International Colloquium on Automata, Languages and Programming, ICALP'2004 (Turku, Finland, July 12-16, 2004)*, volume 3142 of *LNCS*, pages 345–357. Springer-Verlag, Berlin-Heidelberg, 2004.
- [219] Marek Chrobak, Wojciech Jawor, Jiří Sgall, and Tomáš Tichý. Improved online algorithms for buffer management in qos switches. In Susanne Albers and Tomasz Radzik, editors, *Proceedings of the 12th Annual European Symposium on Algorithms, ESA'2004 (Bergen, Norway, September 14-17, 2004)*, volume 3221 of *LNCS*, pages 204–215. Springer-Verlag, Berlin-Heidelberg-New York, 2004.
- [220] Marek Chrobak, Wojciech Jawor, Jiří Sgall, and Tomáš Tichý. Online scheduling of equal-length jobs: Randomization and restarts help. In Josep Díaz, Juhani Karhumäki, Arto Lepistö, and Donald Sannella, editors, *Proceedings of the 31st International Colloquium on Automata, Languages and Programming, ICALP'2004 (Turku, Finland, July 12-16, 2004)*, volume 3142 of *LNCS*, pages 358–370. Springer-Verlag, Berlin-Heidelberg, 2004.
- [221] Marek Chrobak and Jiří Sgall. Erratum to "analysis of the harmonic algorithm for three servers". In Volker Diekert and Michel Habib, editors, *Proceedings of the 21st Annual Symposium on Theoretical Aspects of Computer Science, STACS'2004 (Montpellier, France, March 25-27, 2004)*, volume 2996 of *LNCS*, pages 656–656. Springer-Verlag, Berlin-Heidelberg-New York, 2004. Originally in Proceedings of the 20th Annual Symposium on Theoretical Aspects of Computer Science, STACS'2003, 2003, 247-259.
- [222] Jen-Hui Chuang, Chun-Cheng Lin, and Hsu-Chun Yen. Drawing graphs with nonuniform nodes using potential fields. In Giuseppe Liotta, editor, *Proceedings of the 11th International Symposium on Graph Drawing, GD'2003 (Perugia, Italy, September 21-24, 2003)*, volume 2912 of *LNCS*, pages 460–465. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2004.
- [223] Kyung-Yong Chwa, Byung-Cheol Jo, Christian Knauer, Esther Moet, René van Oostrum, and Chan-Su Shin. Guarding art galleries by guarding witnesses. In Rudolf Fleischer and Gerhard Trippen, editors, *Proceedings of the 15th International Symposium on Algorithms*

- and Computation, *ISAAC'2004* (Hong Kong, China, December 20-22, 2004), volume 3341 of *LNCS*, pages 352–363. Springer-Verlag, Berlin-Heidelberg, 2004.
- [224] Gianfranco Ciardo. Reachability set generation for petri nets: Can brute force be smart? In Jordi Cortadella and Wolfgang Reisig, editors, *Proceedings of the 25th International Conference on Applications and Theory of Petri Nets, ICATPN'2004* (Bologna, Italy, June 21-25, 2004), volume 3099 of *LNCS*, pages 17–34. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2004.
- [225] Ferdinando Cicalese, Christian Deppe, and Daniele Mundici.  $q$ -ary ulam-rényi game with weighted constrained lies. In Kyung-Yong Chwa and J. Ian Munro, editors, *Proceedings of the 10th Annual International Conference on Computing and Combinatorics, COCOON'2004* (Jeju Island, Korea, August 17-20, 2004), volume 3106 of *LNCS*, pages 82–91. Springer-Verlag, Berlin-Heidelberg, 2004.
- [226] Gianni Codato and Matteo Fischetti. Combinatorial benders' cuts. In Daniel Bienstock and George Nemhauser, editors, *Proceedings of the 10th International Conference on Integer Programming and Combinatorial Optimization, IPCO'2004* (New York, NY, USA, June 7-11, 2004), volume 3064 of *LNCS*, pages 178–195. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2004.
- [227] Bruno Codenotti and Kasturi Varadarajan. Efficient computation of equilibrium prices for markets with leontief utilities. In Josep Díaz, Juhani Karhumäki, Arto Lepistö, and Donald Sannella, editors, *Proceedings of the 31st International Colloquium on Automata, Languages and Programming, ICALP'2004* (Turku, Finland, July 12-16, 2004), volume 3142 of *LNCS*, pages 371–382. Springer-Verlag, Berlin-Heidelberg, 2004.
- [228] David Cohen, Martin Cooper, Peter Jeavons, and Andrei Krokhin. Identifying efficiently solvable cases of max csp. In Volker Diekert and Michel Habib, editors, *Proceedings of the 21st Annual Symposium on Theoretical Aspects of Computer Science, STACS'2004* (Montpellier, France, March 25-27, 2004), volume 2996 of *LNCS*, pages 152–163. Springer-Verlag, Berlin-Heidelberg-New York, 2004.

- [229] Rami Cohen, Dror Rawitz, and Danny Raz. Time dependent multi scheduling of multicast. In Susanne Albers and Tomasz Radzik, editors, *Proceedings of the 12th Annual European Symposium on Algorithms, ESA'2004 (Bergen, Norway, September 14-17, 2004)*, volume 3221 of *LNCS*, pages 216–227. Springer-Verlag, Berlin-Heidelberg-New York, 2004.
- [230] Reuven Cohen and David Peleg. Convergence properties of the gravitational algorithm in asynchronous robot systems. In Susanne Albers and Tomasz Radzik, editors, *Proceedings of the 12th Annual European Symposium on Algorithms, ESA'2004 (Bergen, Norway, September 14-17, 2004)*, volume 3221 of *LNCS*, pages 228–239. Springer-Verlag, Berlin-Heidelberg-New York, 2004.
- [231] Amin Coja-Oghlan. Coloring semirandom graphs optimally. In Josep Díaz, Juhani Karhumäki, Arto Lepistö, and Donald Sannella, editors, *Proceedings of the 31st International Colloquium on Automata, Languages and Programming, ICALP'2004 (Turku, Finland, July 12-16, 2004)*, volume 3142 of *LNCS*, pages 383–395. Springer-Verlag, Berlin-Heidelberg, 2004.
- [232] Thomas Colcombet and Christof Löding. On the expressiveness of deterministic transducers over infinite trees. In Volker Diekert and Michel Habib, editors, *Proceedings of the 21st Annual Symposium on Theoretical Aspects of Computer Science, STACS'2004 (Montpellier, France, March 25-27, 2004)*, volume 2996 of *LNCS*, pages 428–439. Springer-Verlag, Berlin-Heidelberg-New York, 2004.
- [233] Richard Cole and David C. Kandathil. The average case analysis of partition sorts. In Susanne Albers and Tomasz Radzik, editors, *Proceedings of the 12th Annual European Symposium on Algorithms, ESA'2004 (Bergen, Norway, September 14-17, 2004)*, volume 3221 of *LNCS*, pages 240–251. Springer-Verlag, Berlin-Heidelberg-New York, 2004.
- [234] Michele Conforti, Anna Galluccio, and Guido Proietti. Edge-connectivity augmentation and network matrices. In Juraj Hromkovič, Manfred Nagl, and Bernhard Westfechtel, editors, *Proceedings of the 30th International Workshop on Graph-Theoretic Concepts in*

- Computer Science, WG'2004 (Bad Honnef, Germany, June 21-23, 2004)*, volume 3353 of *LNCS*, pages 355–364. Springer-Verlag, Berlin-Heidelberg, 2004.
- [235] Derek G. Corneil. Lexicographic breadth first search — a survey. In Juraj Hromkovič, Manfred Nagl, and Bernhard Westfechtel, editors, *Proceedings of the 30th International Workshop on Graph-Theoretic Concepts in Computer Science, WG'2004 (Bad Honnef, Germany, June 21-23, 2004)*, volume 3353 of *LNCS*, pages 1–19. Springer-Verlag, Berlin-Heidelberg, 2004.
- [236] Sabine Cornelsen and Gabriele di Stefano. Treelike comparability graphs: Characterization, recognition, and applications. In Juraj Hromkovič, Manfred Nagl, and Bernhard Westfechtel, editors, *Proceedings of the 30th International Workshop on Graph-Theoretic Concepts in Computer Science, WG'2004 (Bad Honnef, Germany, June 21-23, 2004)*, volume 3353 of *LNCS*, pages 46–57. Springer-Verlag, Berlin-Heidelberg, 2004.
- [237] José R. Correa and Andreas S. Schulz. Single machine scheduling with precedence constraints. In Daniel Bienstock and George Nemhauser, editors, *Proceedings of the 10th International Conference on Integer Programming and Combinatorial Optimization, IPCO'2004 (New York, NY, USA, June 7-11, 2004)*, volume 3064 of *LNCS*, pages 283–297. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2004.
- [238] José R. Correa, Andreas S. Schulz, and Nicolás E. Stier Moses. Computational complexity, fairness, and the price of anarchy of the maximum latency problem. In Daniel Bienstock and George Nemhauser, editors, *Proceedings of the 10th International Conference on Integer Programming and Combinatorial Optimization, IPCO'2004 (New York, NY, USA, June 7-11, 2004)*, volume 3064 of *LNCS*, pages 59–73. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2004.
- [239] Pier Francesco Cortese, Giuseppe Di Battista, Maurizio Patrignani, and Maurizio Pizzonia. Clustering cycles into cycles of clusters. In János Pach, editor, *Proceedings of the 12th International Symposium*

on Graph Drawing, *GD'2004* (New York, NY, USA, September 29 - October 2, 2004), volume 3383 of *LNCS*, pages 100–110. Springer-Verlag, Berlin-Heidelberg, 2004.

- [240] Mitre Costa Dourado, Fábio Protti, and Jayme Luiz Szwarcfiter. Characterization and recognition of generalized clique-helly graphs. In Juraj Hromkovič, Manfred Nagl, and Bernhard Westfechtel, editors, *Proceedings of the 30th International Workshop on Graph-Theoretic Concepts in Computer Science, WG'2004* (Bad Honnef, Germany, June 21-23, 2004), volume 3353 of *LNCS*, pages 344–354. Springer-Verlag, Berlin-Heidelberg, 2004.
- [241] Marcel Crasmaru, Christian Glaßer, Kenneth W. Regan, and Samik Sengupta. A protocol for serializing unique strategies. In Jiří Fiala, Koubek, Václav, and Jan Kratochvíl, editors, *Proceedings of the 29th International Symposium on Mathematical Foundations of Computer Science, MFCS'2004* (Prague, Czech Republic, August 22-27, 2004), volume 3153 of *LNCS*, pages 660–672. Springer-Verlag, Berlin-Heidelberg, 2004.
- [242] Christophe Crespelle and Christophe Paul. Fully-dynamic recognition algorithm and certificate for directed cographs. In Juraj Hromkovič, Manfred Nagl, and Bernhard Westfechtel, editors, *Proceedings of the 30th International Workshop on Graph-Theoretic Concepts in Computer Science, WG'2004* (Bad Honnef, Germany, June 21-23, 2004), volume 3353 of *LNCS*, pages 93–104. Springer-Verlag, Berlin-Heidelberg, 2004.
- [243] Maxime Crochemore, Chiara Epifanio, Roberto Grossi, and Filippo Mignosi. A trie-based approach for compacting automata. In Suleyman Cenk Sahinalp, S. Muthukrishnan, and Ugur Dogrusoz, editors, *Proceedings of the 15th Annual Symposium on Combinatorial Pattern Matching, CPM'2004* (Istanbul, Turkey, July 5-7, 2004), volume 3109 of *LNCS*, pages 145–158. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2004.
- [244] Miklós Csűrös. Performing local similarity searches with variable length seeds. In Suleyman Cenk Sahinalp, S. Muthukrishnan, and Ugur Dogrusoz, editors, *Proceedings of the 15th Annual Symposium on Combinatorial Pattern Matching, CPM'2004* (Istanbul, Turkey, July 5-7,

- 2004), volume 3109 of *LNCS*, pages 373–387. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2004.
- [245] Artur Czumaj and Christian Sohler. Sublinear-time approximation for clustering via random sampling. In Josep Díaz, Juhani Karhumäki, Arto Lepistö, and Donald Sannella, editors, *Proceedings of the 31st International Colloquium on Automata, Languages and Programming, ICALP'2004 (Turku, Finland, July 12-16, 2004)*, volume 3142 of *LNCS*, pages 396–407. Springer-Verlag, Berlin-Heidelberg, 2004.
- [246] Andrzej Czygrinow, Michał Hańcówki, and Edyta Szymańska. A fast distributed algorithm for approximating the maximum matching. In Susanne Albers and Tomasz Radzik, editors, *Proceedings of the 12th Annual European Symposium on Algorithms, ESA'2004 (Bergen, Norway, September 14-17, 2004)*, volume 3221 of *LNCS*, pages 252–263. Springer-Verlag, Berlin-Heidelberg-New York, 2004.
- [247] Robert Dąbrowski and Wojtek Plandowski. Solving two-variable word equations. In Josep Díaz, Juhani Karhumäki, Arto Lepistö, and Donald Sannella, editors, *Proceedings of the 31st International Colloquium on Automata, Languages and Programming, ICALP'2004 (Turku, Finland, July 12-16, 2004)*, volume 3142 of *LNCS*, pages 408–419. Springer-Verlag, Berlin-Heidelberg, 2004.
- [248] Ovidiu Daescu and Jun Luo. Cutting out polygons with lines and rays. In Rudolf Fleischer and Gerhard Trippen, editors, *Proceedings of the 15th International Symposium on Algorithms and Computation, ISAAC'2004 (Hong Kong, China, December 20-22, 2004)*, volume 3341 of *LNCS*, pages 669–680. Springer-Verlag, Berlin-Heidelberg, 2004.
- [249] H.K. Dai and H.C. Su. On  $p$ -norm based locality measures of space-filling curves. In Rudolf Fleischer and Gerhard Trippen, editors, *Proceedings of the 15th International Symposium on Algorithms and Computation, ISAAC'2004 (Hong Kong, China, December 20-22, 2004)*, volume 3341 of *LNCS*, pages 364–376. Springer-Verlag, Berlin-Heidelberg, 2004.
- [250] Valentina Damerow and Christian Sohler. Extreme points under random noise. In Susanne Albers and Tomasz Radzik, editors, *Proceedings of the 12th Annual European Symposium on Algorithms, ESA'2004*

- (Bergen, Norway, September 14-17, 2004), volume 3221 of *LNCS*, pages 264–274. Springer-Verlag, Berlin-Heidelberg-New York, 2004.
- [251] Zhe Dang, Oscar H. Ibarra, Pierluigi San Pietro, and Gaoyan Xie. Real-counter automata and their decision problems. In Kamal Lodaya and Meena Mahajan, editors, *Proceedings of the 24th International Conference on Foundations of Software Technology and Theoretical Computer Science, FSTTCS'2004 (Chennai, India, December 16-18, 2004)*, volume 3328 of *LNCS*, pages 198–210. Springer-Verlag, Berlin-Heidelberg, 2004.
- [252] Zhe Dang, Oscar H. Ibarra, and Jianwen Su. Composability of infinite-state activity automata. In Rudolf Fleischer and Gerhard Trippen, editors, *Proceedings of the 15th International Symposium on Algorithms and Computation, ISAAC'2004 (Hong Kong, China, December 20-22, 2004)*, volume 3341 of *LNCS*, pages 377–388. Springer-Verlag, Berlin-Heidelberg, 2004.
- [253] Evgeny Dantsin, Edward A. Hirsch, and Alexander Wolpert. Algorithms for sat based on search in hamming balls. In Volker Diekert and Michel Habib, editors, *Proceedings of the 21st Annual Symposium on Theoretical Aspects of Computer Science, STACS'2004 (Montpellier, France, March 25-27, 2004)*, volume 2996 of *LNCS*, pages 141–151. Springer-Verlag, Berlin-Heidelberg-New York, 2004.
- [254] Sanjeeb Dash and Oktay Günlük. Valid inequalities based on simple mixed-integer sets. In Daniel Bienstock and George Nemhauser, editors, *Proceedings of the 10th International Conference on Integer Programming and Combinatorial Optimization, IPCO'2004 (New York, NY, USA, June 7-11, 2004)*, volume 3064 of *LNCS*, pages 33–45. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2004.
- [255] Eugene Davydov and Serafim Batzoglou. A computational model for rna multiple structural alignment. In Suleyman Cenk Sahinalp, S. Muthukrishnan, and Ugur Dogrusoz, editors, *Proceedings of the 15th Annual Symposium on Combinatorial Pattern Matching, CPM'2004 (Istanbul, Turkey, July 5-7, 2004)*, volume 3109 of *LNCS*, pages 254–269. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2004.

- [256] Anuj Dawar, Philippa Gardner, and Giorgio Ghelli. Adjunct elimination through games in static ambient logic. In Kamal Lodaya and Meena Mahajan, editors, *Proceedings of the 24th International Conference on Foundations of Software Technology and Theoretical Computer Science, FSTTCS'2004 (Chennai, India, December 16-18, 2004)*, volume 3328 of *LNCS*, pages 211–223. Springer-Verlag, Berlin-Heidelberg, 2004.
- [257] Anuj Dawar, Erich Grädel, and Stephan Kreutzer. Backtracking games and inflationary fixed points. In Josep Díaz, Juhani Karhumäki, Arto Lepistö, and Donald Sannella, editors, *Proceedings of the 31st International Colloquium on Automata, Languages and Programming, ICALP'2004 (Turku, Finland, July 12-16, 2004)*, volume 3142 of *LNCS*, pages 420–432. Springer-Verlag, Berlin-Heidelberg, 2004.
- [258] Anuj Dawar and David Janin. On the bisimulation invariant fragment of monadic  $\sigma_1$  in the finite. In Kamal Lodaya and Meena Mahajan, editors, *Proceedings of the 24th International Conference on Foundations of Software Technology and Theoretical Computer Science, FSTTCS'2004 (Chennai, India, December 16-18, 2004)*, volume 3328 of *LNCS*, pages 224–236. Springer-Verlag, Berlin-Heidelberg, 2004.
- [259] J.A. De Loera, D. Haws, R. Hemmecke, P. Huggins, and R. Yoshida. Three kinds of integer programming algorithms based on barvinok's rational functions. In Daniel Bienstock and George Nemhauser, editors, *Proceedings of the 10th International Conference on Integer Programming and Combinatorial Optimization, IPCO'2004 (New York, NY, USA, June 7-11, 2004)*, volume 3064 of *LNCS*, pages 244–255. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2004.
- [260] Jesus De Loera and Shmuel Onn. All rational polytopes are transportation polytopes and all polytopal integer sets are contingency tables. In Daniel Bienstock and George Nemhauser, editors, *Proceedings of the 10th International Conference on Integer Programming and Combinatorial Optimization, IPCO'2004 (New York, NY, USA, June 7-11, 2004)*, volume 3064 of *LNCS*, pages 338–351. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2004.



- [261] Alfredo De Santis, Giovanni Di Crescenzo, and Giuseppe Persiano. On  $nc^1$  boolean circuit composition of non-interactive perfect zero-knowledge. In Jiří Fiala, Koubek, Václav, and Jan Kratochvíl, editors, *Proceedings of the 29th International Symposium on Mathematical Foundations of Computer Science, MFCS'2004 (Prague, Czech Republic, August 22-27, 2004)*, volume 3153 of *LNCS*, pages 356–367. Springer-Verlag, Berlin-Heidelberg, 2004.
- [262] Alice M. Dean, Ellen Gethner, and Joan P. Hutchinson. Unit bar-visibility layouts of triangulated polygons. In János Pach, editor, *Proceedings of the 12th International Symposium on Graph Drawing, GD'2004 (New York, NY, USA, September 29 - October 2, 2004)*, volume 3383 of *LNCS*, pages 111–121. Springer-Verlag, Berlin-Heidelberg, 2004.
- [263] Vladimir G. Deĭneko, Michael Hoffmann, Yoshio Okamoto, and Gerhard J. Woeginger. The traveling salesman problem with few inner points. In Kyung-Yong Chwa and J. Ian Munro, editors, *Proceedings of the 10th Annual International Conference on Computing and Combinatorics, COCOON'2004 (Jeju Island, Korea, August 17-20, 2004)*, volume 3106 of *LNCS*, pages 268–277. Springer-Verlag, Berlin-Heidelberg, 2004.
- [264] Olaf Delgado-Friedrichs. Barycentric drawings of periodic graphs. In Giuseppe Liotta, editor, *Proceedings of the 11th International Symposium on Graph Drawing, GD'2003 (Perugia, Italy, September 21-24, 2003)*, volume 2912 of *LNCS*, pages 178–189. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2004.
- [265] Erik D. Demaine. Puzzles, art, and magic with algorithms. In Rudolf Fleischer and Gerhard Trippen, editors, *Proceedings of the 15th International Symposium on Algorithms and Computation, ISAAC'2004 (Hong Kong, China, December 20-22, 2004)*, volume 3341 of *LNCS*, pages 1–1. Springer-Verlag, Berlin-Heidelberg, 2004.
- [266] Erik D. Demaine and MohammadTaghi Hajiaghayi. Fast algorithms for hard graph problems: Bidimensionality, minors, and local treewidth. In János Pach, editor, *Proceedings of the 12th International Symposium on Graph Drawing, GD'2004 (New York, NY, USA, September*

- 29 - October 2, 2004), volume 3383 of *LNCS*, pages 517–533. Springer-Verlag, Berlin-Heidelberg, 2004.
- [267] Erik D. Demaine, MohammadTaghi Hajiaghayi, and Dimitrios M. Thilikos. The bidimensional theory of bounded-genus graphs. In Jiří Fiala, Koubek, Václav, and Jan Kratochvíl, editors, *Proceedings of the 29th International Symposium on Mathematical Foundations of Computer Science, MFCS'2004 (Prague, Czech Republic, August 22-27, 2004)*, volume 3153 of *LNCS*, pages 191–203. Springer-Verlag, Berlin-Heidelberg, 2004.
- [268] Camil Demetrescu, Irene Finocchi, and Giuseppe F. Italiano. Engineering and visualizing algorithms. In Giuseppe Liotta, editor, *Proceedings of the 11th International Symposium on Graph Drawing, GD'2003 (Perugia, Italy, September 21-24, 2003)*, volume 2912 of *LNCS*, pages 509–513. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2004.
- [269] Xiaotie Deng and Guojun Li. A ptas for embedding hypergraph in a cycle. In Josep Díaz, Juhani Karhumäki, Arto Lepistö, and Donald Sannella, editors, *Proceedings of the 31st International Colloquium on Automata, Languages and Programming, ICALP'2004 (Turku, Finland, July 12-16, 2004)*, volume 3142 of *LNCS*, pages 433–444. Springer-Verlag, Berlin-Heidelberg, 2004.
- [270] Yuxin Deng and Davide Sangiorgi. Towards an algebraic theory of typed mobile processes. In Josep Díaz, Juhani Karhumäki, Arto Lepistö, and Donald Sannella, editors, *Proceedings of the 31st International Colloquium on Automata, Languages and Programming, ICALP'2004 (Turku, Finland, July 12-16, 2004)*, volume 3142 of *LNCS*, pages 445–456. Springer-Verlag, Berlin-Heidelberg, 2004.
- [271] Jörg Desel, Gabriel Juhás, and Christian Neumair. Finite unfoldings of unbounded petri nets. In Jordi Cortadella and Wolfgang Reisig, editors, *Proceedings of the 25th International Conference on Applications and Theory of Petri Nets, ICATPN'2004 (Bologna, Italy, June 21-25, 2004)*, volume 3099 of *LNCS*, pages 157–176. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2004.

- [272] Anders Dessmark, Jesper Jansson, Andrzej Lingas, and Eva-Marta Lundell. Polynomial-time algorithms for the ordered maximum agreement subtree problem. In Suleyman Cenk Sahinalp, S. Muthukrishnan, and Ugur Dogrusoz, editors, *Proceedings of the 15th Annual Symposium on Combinatorial Pattern Matching, CPM'2004 (Istanbul, Turkey, July 5-7, 2004)*, volume 3109 of *LNCS*, pages 220–229. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2004.
- [273] Anders Dessmark, Andrzej Lingas, and Eva-Marta Lundell. Subexponential-time framework for optimal embeddings of graphs in integer lattices. In Torben Hagerup and Jyrki Katajainen, editors, *Proceedings of the 9th Scandinavian Workshop on Algorithm Theory, SWAT'2004 (Humblebæk, Denmark, July 8-10, 2004)*, volume 3111 of *LNCS*, pages 248–259. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2004.
- [274] Nikhil R. Devanur, Richard J. Lipton, and Nisheeth K. Vishnoi. On the complexity of hilbert's 17th problem. In Kamal Lodaya and Meena Mahajan, editors, *Proceedings of the 24th International Conference on Foundations of Software Technology and Theoretical Computer Science, FSTTCS'2004 (Chennai, India, December 16-18, 2004)*, volume 3328 of *LNCS*, pages 237–249. Springer-Verlag, Berlin-Heidelberg, 2004.
- [275] Kedar Dhamdhere, Anupam Gupta, and R. Ravi. Approximation algorithms for minimizing average distortion. In Volker Diekert and Michel Habib, editors, *Proceedings of the 21st Annual Symposium on Theoretical Aspects of Computer Science, STACS'2004 (Montpellier, France, March 25-27, 2004)*, volume 2996 of *LNCS*, pages 234–245. Springer-Verlag, Berlin-Heidelberg-New York, 2004.
- [276] Giuseppe Di Battista, Federico Mariani, Maurizio Patrignani, and Maurizio Pizzonia. Bgplay: A system for visualizing the interdomain routing evolution. In Giuseppe Liotta, editor, *Proceedings of the 11th International Symposium on Graph Drawing, GD'2003 (Perugia, Italy, September 21-24, 2003)*, volume 2912 of *LNCS*, pages 295–306. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2004.

- [277] Emilio Di Giacomo. Drawing series-parallel graphs on restricted integer 3d grids. In Giuseppe Liotta, editor, *Proceedings of the 11th International Symposium on Graph Drawing, GD'2003 (Perugia, Italy, September 21-24, 2003)*, volume 2912 of *LNCS*, pages 238–246. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2004.
- [278] Emilio Di Giacomo and Walter Didimo. Straight-line drawings of 2-outerplanar graphs on two curves. In Giuseppe Liotta, editor, *Proceedings of the 11th International Symposium on Graph Drawing, GD'2003 (Perugia, Italy, September 21-24, 2003)*, volume 2912 of *LNCS*, pages 419–424. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2004.
- [279] Emilio Di Giacomo, Walter Didimo, Giuseppe Liotta, and Henk Meijer. Computing radial drawings on the minimum number of circles. In János Pach, editor, *Proceedings of the 12th International Symposium on Graph Drawing, GD'2004 (New York, NY, USA, September 29 - October 2, 2004)*, volume 3383 of *LNCS*, pages 251–261. Springer-Verlag, Berlin-Heidelberg, 2004.
- [280] Emilio Di Giacomo, Walter Didimo, Giuseppe Liotta, and Matthew Suderman. Hamiltonian-with-handles graphs and the  $k$ -spine drawability problem. In János Pach, editor, *Proceedings of the 12th International Symposium on Graph Drawing, GD'2004 (New York, NY, USA, September 29 - October 2, 2004)*, volume 3383 of *LNCS*, pages 262–272. Springer-Verlag, Berlin-Heidelberg, 2004.
- [281] Emilio Di Giacomo and Henk Meijer. Track drawings of graphs with constant queue number. In Giuseppe Liotta, editor, *Proceedings of the 11th International Symposium on Graph Drawing, GD'2003 (Perugia, Italy, September 21-24, 2003)*, volume 2912 of *LNCS*, pages 214–225. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2004.
- [282] Josep Díaz, Maria Serna, and Dimitrios M. Thilikos. Fixed parameter algorithms for counting and deciding bounded restrictive list  $h$ -colorings. In Susanne Albers and Tomasz Radzik, editors, *Proceedings of the 12th Annual European Symposium on Algorithms, ESA'2004*

- (*Bergen, Norway, September 14-17, 2004*), volume 3221 of *LNCS*, pages 275–286. Springer-Verlag, Berlin-Heidelberg-New York, 2004.
- [283] Matthew Dickerson, David Eppstein, Michael T. Goodrich, and Jeremy Yu Meng. Confluent drawings: Visualizing non-planar diagrams in a planar way. In Giuseppe Liotta, editor, *Proceedings of the 11th International Symposium on Graph Drawing, GD'2003 (Perugia, Italy, September 21-24, 2003)*, volume 2912 of *LNCS*, pages 1–12. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2004.
- [284] Martin Dietzfelbinger. *Primality Testing in Polynomial Time — From Randomized Algorithms to “PRIMES is in P”*, volume 3000 of *LNCS*. Springer-Verlag, Berlin-Heidelberg-New York-Hong-Kong-London-Milan-Paris-Tokyo, 2004.
- [285] Dino Distefano, Joost-Pieter Katoen, and Arend Rensink. Who is pointing when to whom? on the automated verification of linked list structures. In Kamal Lodaya and Meena Mahajan, editors, *Proceedings of the 24th International Conference on Foundations of Software Technology and Theoretical Computer Science, FSTTCS'2004 (Chennai, India, December 16-18, 2004)*, volume 3328 of *LNCS*, pages 250–262. Springer-Verlag, Berlin-Heidelberg, 2004.
- [286] Benjamin Doerr, Nils Hebbinghaus, and Sören Werth. Improved bounds and schemes for the declustering problem. In Jiří Fiala, Koubek, Václav, and Jan Kratochvíl, editors, *Proceedings of the 29th International Symposium on Mathematical Foundations of Computer Science, MFCS'2004 (Prague, Czech Republic, August 22-27, 2004)*, volume 3153 of *LNCS*, pages 760–771. Springer-Verlag, Berlin-Heidelberg, 2004.
- [287] Ugur Dogrusoz, Erhan Giral, Ahmet Cetintas, Ali Civril, and Emek Demir. A compound graph layout algorithm for biological pathways. In János Pach, editor, *Proceedings of the 12th International Symposium on Graph Drawing, GD'2004 (New York, NY, USA, September 29 - October 2, 2004)*, volume 3383 of *LNCS*, pages 442–447. Springer-Verlag, Berlin-Heidelberg, 2004.

- [288] Michael Dom, Jiong Guo, Falk Hüffner, and Rolf Niedermeier. Error compensation in leaf root problems. In Rudolf Fleischer and Gerhard Trippen, editors, *Proceedings of the 15th International Symposium on Algorithms and Computation, ISAAC'2004 (Hong Kong, China, December 20-22, 2004)*, volume 3341 of *LNCS*, pages 389–401. Springer-Verlag, Berlin-Heidelberg, 2004.
- [289] Michael Domaratzki and Kai Salomaa. Decidability of trajectory-based equations. In Jiří Fiala, Koubek, Václav, and Jan Kratochvíl, editors, *Proceedings of the 29th International Symposium on Mathematical Foundations of Computer Science, MFCS'2004 (Prague, Czech Republic, August 22-27, 2004)*, volume 3153 of *LNCS*, pages 723–734. Springer-Verlag, Berlin-Heidelberg, 2004.
- [290] Rod Downey. Some recent progress in algorithmic randomness. In Jiří Fiala, Koubek, Václav, and Jan Kratochvíl, editors, *Proceedings of the 29th International Symposium on Mathematical Foundations of Computer Science, MFCS'2004 (Prague, Czech Republic, August 22-27, 2004)*, volume 3153 of *LNCS*, pages 42–83. Springer-Verlag, Berlin-Heidelberg, 2004.
- [291] Feodor Dragan, Chenyu Yan, and Derek G. Corneil. Collective tree spanners and routing in at-free related graphs. In Juraj Hromkovič, Manfred Nagl, and Bernhard Westfechtel, editors, *Proceedings of the 30th International Workshop on Graph-Theoretic Concepts in Computer Science, WG'2004 (Bad Honnef, Germany, June 21-23, 2004)*, volume 3353 of *LNCS*, pages 68–80. Springer-Verlag, Berlin-Heidelberg, 2004.
- [292] Feodor F. Dragan and Irina Lomonosov. On compact and efficient routing in certain graph classes. In Rudolf Fleischer and Gerhard Trippen, editors, *Proceedings of the 15th International Symposium on Algorithms and Computation, ISAAC'2004 (Hong Kong, China, December 20-22, 2004)*, volume 3341 of *LNCS*, pages 402–414. Springer-Verlag, Berlin-Heidelberg, 2004.
- [293] Feodor F. Dragan, Chenyu Yan, and Irina Lomonosov. Collective tree spanners of graphs. In Torben Hagerup and Jyrki Katajainen, editors, *Proceedings of the 9th Scandinavian Workshop on Algorithm Theory, SWAT'2004 (Humblebæk, Denmark, July 8-10, 2004)*, volume 3111

of *LNCS*, pages 64–76. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2004.

- [294] Ying Du, Danny Z. Chen, and Xiaodong Wu. Approximation algorithms for multicommodity flow and normalized cut problems: Implementations and experimental study. In Kyung-Yong Chwa and J. Ian Munro, editors, *Proceedings of the 10th Annual International Conference on Computing and Combinatorics, COCOON'2004 (Jeju Island, Korea, August 17-20, 2004)*, volume 3106 of *LNCS*, pages 112–121. Springer-Verlag, Berlin-Heidelberg, 2004.
- [295] Amalia Duch. Randomized insertion and deletion in point quad trees. In Rudolf Fleischer and Gerhard Trippen, editors, *Proceedings of the 15th International Symposium on Algorithms and Computation, ISAAC'2004 (Hong Kong, China, December 20-22, 2004)*, volume 3341 of *LNCS*, pages 415–426. Springer-Verlag, Berlin-Heidelberg, 2004.
- [296] Philippe Duchon, Nicolas Hanusse, Nasser Saheb, and Akka Zemmari. Broadcast in the rendezvous model. In Volker Diekert and Michel Habib, editors, *Proceedings of the 21st Annual Symposium on Theoretical Aspects of Computer Science, STACS'2004 (Montpellier, France, March 25-27, 2004)*, volume 2996 of *LNCS*, pages 559–570. Springer-Verlag, Berlin-Heidelberg-New York, 2004.
- [297] Vida Dujmović, Henning Fernau, and Michael Kaufmann. Fixed parameter algorithms for one-sided crossing minimization revisited. In Giuseppe Liotta, editor, *Proceedings of the 11th International Symposium on Graph Drawing, GD'2003 (Perugia, Italy, September 21-24, 2003)*, volume 2912 of *LNCS*, pages 332–344. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2004.
- [298] Vida Dujmović, Matthew Suderman, and David R. Wood. Really straight graph drawings. In János Pach, editor, *Proceedings of the 12th International Symposium on Graph Drawing, GD'2004 (New York, NY, USA, September 29 - October 2, 2004)*, volume 3383 of *LNCS*, pages 122–132. Springer-Verlag, Berlin-Heidelberg, 2004.
- [299] Vida Dujmović and David R. Wood. Three-dimensional grid drawings with sub-quadratic volume. In Giuseppe Liotta, editor, *Proceedings of*

*the 11th International Symposium on Graph Drawing, GD'2003 (Perugia, Italy, September 21-24, 2003)*, volume 2912 of *LNCS*, pages 190–201. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2004.