

References

- [1] Serge Abiteboul. A calculus and algebra for distributed data management. In Wolfgang Thomas and Pascal Weil, editors, *Proceedings of the 24th Annual Symposium on Theoretical Aspects of Computer Science, STACS'2007 (Aachen, Germany, February 22-24, 2007)*, volume 4393 of *LNCS*, pages 1–11. Springer-Verlag, Berlin-Heidelberg, 2007.
- [2] S.A. Abramov and M. Petkovšek. Analytic solutions of linear difference equations, formal series, and bottom summation. In Victor G. Ganzha, Ernst W. Mayr, and Evgenii V. Vorozhtsov, editors, *Proceedings of the 10th International Workshop on Computer Algebra in Scientific Computing, CASC'2007 (Bonn, Germany, September 16-20, 2007)*, volume 4770 of *LNCS*, pages 1–10. Springer-Verlag, Berlin-Heidelberg, 2007.
- [3] Samson Abramsky. Petri nets, discrete physics, and distributed quantum computation. In Jetty Kleijn and Alex Yakovlev, editors, *Proceedings of the 28th International Conference on Applications and Theory of Petri Nets and Other Models of Concurrency, ICATPN'2007 (Siedlce, Poland, June 25-29, 2007)*, volume 4546 of *LNCS*, pages 1–2. Springer-Verlag, Berlin-Heidelberg, 2007.
- [4] Faisal N. Abu-Khzam. Kernelization algorithms for d-hitting set problems. In Frank Dehne, Jörg-Rüdiger Sack, and Norbert Zeh, editors, *Proceedings of the 10th International Workshop on Algorithms and Data Structures, WADS'2007 (Halifax, Canada, August 15-17, 2007)*, volume 4619 of *LNCS*, pages 434–445. Springer-Verlag, Berlin-Heidelberg, 2007.
- [5] Jiří Adámek, Stefan Milius, and Jiří Velebil. What are iteration theories? In Luděk Kučera and Antonín Kučera, editors, *Proceedings of the 32nd International Symposium on Mathematical Foundations of Computer Science, MFCS'2007 (Český Krumloch, Czech Republic, August 26-31, 2007)*, volume 4708 of *LNCS*, pages 240–252. Springer-Verlag, Berlin-Heidelberg, 2007.
- [6] Ben Adida and Douglas Wikström. Offline/online mixing. In Lars Arge, Christian Cachin, Tomasz Jurdziński, and Andrzej Tarlecki, editors, *Proceedings of the 34th International Colloquium on Automata, Languages and Programming, ICALP'2007 (Wrocław, Poland, July 9-13,*

2007), volume 4596 of LNCS, pages 484–495. Springer-Verlag, Berlin-Heidelberg, 2007.

- [7] Foto Afrati. Rewriting conjunctive queries determined by views. In Luděk Kučera and Antonín Kučera, editors, *Proceedings of the 32nd International Symposium on Mathematical Foundations of Computer Science, MFCS'2007 (Český Krumloch, Czech Republic, August 26-31, 2007)*, volume 4708 of LNCS, pages 78–89. Springer-Verlag, Berlin-Heidelberg, 2007.
- [8] Peyman Afshani, Ehsan Chiniforooshan, Reza Dorrigiv, Arash Farzan, Mehdi Mirzazadeh, Narges Simjour, and Hamid Zarrabi-Zadeh. On the complexity of finding an unknown cut via vertex queries. In Guohui Lin, editor, *Proceedings of the 13th Annual International Conference on Computing and Combinatorics, COCOON'2007 (Banff, Canada, July 16-19, 2007)*, volume 4598 of LNCS, pages 459–469. Springer-Verlag, Berlin-Heidelberg, 2007.
- [9] Pankaj K. Agarwal. Modeling and analyzing massive terrain data sets. In Takeshi Tokuyama, editor, *Proceedings of the 18th International Symposium on Algorithms and Computation, ISAAC'2007 (Sendai, Japan December 17-19, 2007)*, volume 4835 of LNCS, pages 1–1. Springer-Verlag, Berlin-Heidelberg, 2007.
- [10] Manindra Agrawal, Thanh Minh Hoang, and Thomas Thierauf. The polynomially bounded perfect matching problem is in nc^2 . In Wolfgang Thomas and Pascal Weil, editors, *Proceedings of the 24th Annual Symposium on Theoretical Aspects of Computer Science, STACS'2007 (Aachen, Germany, February 22-24, 2007)*, volume 4393 of LNCS, pages 489–499. Springer-Verlag, Berlin-Heidelberg, 2007.
- [11] Hee-Kap Ahn, Mohammad Farshi, Christian Knauer, Michiel Smid, and Yajun Wang. Dilation-optimal edge deletion in polygonal cycles. In Takeshi Tokuyama, editor, *Proceedings of the 18th International Symposium on Algorithms and Computation, ISAAC'2007 (Sendai, Japan December 17-19, 2007)*, volume 4835 of LNCS, pages 88–99. Springer-Verlag, Berlin-Heidelberg, 2007.
- [12] Oswin Aichholzer, Franz Aurenhammer, Thomas Hackl, Bert Jüttler, Margot Oberneder, and Zbyněk Šír. Computational and structural

- advantages of circular boundary representation. In Frank Dehne, Jörg-Rüdiger Sack, and Norbert Zeh, editors, *Proceedings of the 10th International Workshop on Algorithms and Data Structures, WADS'2007 (Halifax, Canada, August 15-17, 2007)*, volume 4619 of *LNCS*, pages 374–385. Springer-Verlag, Berlin-Heidelberg, 2007.
- [13] Oswin Aichholzer, Thomas Hackl, Michael Hoffmann, Clemens Huemer, Attila Pór, Francisco Santos, Bettina Speckmann, and Birgit Vogtenhuber. Maximizing maximal angles for plane straight-line graphs. In Frank Dehne, Jörg-Rüdiger Sack, and Norbert Zeh, editors, *Proceedings of the 10th International Workshop on Algorithms and Data Structures, WADS'2007 (Halifax, Canada, August 15-17, 2007)*, volume 4619 of *LNCS*, pages 458–469. Springer-Verlag, Berlin-Heidelberg, 2007.
 - [14] Deepak Ajwani and Tobias Friedrich. Average-case analysis of on-line topological ordering. In Takeshi Tokuyama, editor, *Proceedings of the 18th International Symposium on Algorithms and Computation, ISAAC'2007 (Sendai, Japan December 17-19, 2007)*, volume 4835 of *LNCS*, pages 464–475. Springer-Verlag, Berlin-Heidelberg, 2007.
 - [15] Deepak Ajwani, Saurabh Ray, Raimund Seidel, and Hans Raj Tiwary. On computing the centroid of the vertices of an arrangement and related problems. In Frank Dehne, Jörg-Rüdiger Sack, and Norbert Zeh, editors, *Proceedings of the 10th International Workshop on Algorithms and Data Structures, WADS'2007 (Halifax, Canada, August 15-17, 2007)*, volume 4619 of *LNCS*, pages 519–528. Springer-Verlag, Berlin-Heidelberg, 2007.
 - [16] Alkiviadis A. Akritas, Adam W. Strzeboński, and Panagiotis S. Vigklas. Advances on the continued fractions method using better estimations of positive root bounds. In Victor G. Ganzha, Ernst W. Mayr, and Evgenii V. Vorozhtsov, editors, *Proceedings of the 10th International Workshop on Computer Algebra in Scientific Computing, CASC'2007 (Bonn, Germany, September 16-20, 2007)*, volume 4770 of *LNCS*, pages 24–30. Springer-Verlag, Berlin-Heidelberg, 2007.
 - [17] Alkiviadis G. Akritas and Gennadi I. Malaschonok. Computations in modules over commutative domains. In Victor G. Ganzha, Ernst W.

Mayr, and Evgenii V. Vorozhtsov, editors, *Proceedings of the 10th International Workshop on Computer Algebra in Scientific Computing, CASC'2007 (Bonn, Germany, September 16-20, 2007)*, volume 4770 of *LNCS*, pages 11–23. Springer-Verlag, Berlin-Heidelberg, 2007.

- [18] S. Akshay, Benedikt Bollig, and Paul Gastin. Automata and logics for timed message sequence charts. In V. Arvind and Sanjiva Prasad, editors, *Proceedings of the 27th International Conference on Foundations of Software Technology and Theoretical Computer Science, FSTTCS'2007 (New Delhi, India, December 12-14, 2007)*, volume 4855 of *LNCS*, pages 290–302. Springer-Verlag, Berlin-Heidelberg, 2007.
- [19] Susanne Albers and Tobias Jacobs. An experimental study of new and known online packet buffering algorithms. In Lars Arge, Michael Hoffmann, and Emo Welzl, editors, *Proceedings of the 15th Annual European Symposium on Algorithms, ESA'2007 (Eilat, Israel, October 8-10, 2007)*, volume 4698 of *LNCS*, pages 754–765. Springer-Verlag, Berlin-Heidelberg, 2007.
- [20] Noga Alon, Amin Coja-Oghlan, Hiệp Hà, Mihyun Kang, Vojtěch Rödl, and Mathias Schacht. Quasi-randomness and algorithmic regularity for graphs with general degree distributions. In Lars Arge, Christian Cachin, Tomasz Jurdziński, and Andrzej Tarlecki, editors, *Proceedings of the 34th International Colloquium on Automata, Languages and Programming, ICALP'2007 (Wrocław, Poland, July 9-13, 2007)*, volume 4596 of *LNCS*, pages 789–800. Springer-Verlag, Berlin-Heidelberg, 2007.
- [21] Noga Alon, Fedor V. Fomin, Gregory Gutin, Michael Krivelevich, and Saket Saurabh. Better algorithms and bounds for directed maximum leaf problems. In V. Arvind and Sanjiva Prasad, editors, *Proceedings of the 27th International Conference on Foundations of Software Technology and Theoretical Computer Science, FSTTCS'2007 (New Delhi, India, December 12-14, 2007)*, volume 4855 of *LNCS*, pages 316–327. Springer-Verlag, Berlin-Heidelberg, 2007.
- [22] Noga Alon, Fedor V. Fomin, Gregory Gutin, Michael Krivelevich, and Saket Saurabh. Parameterized algorithms for directed maximum leaf problems. In Lars Arge, Christian Cachin, Tomasz Jurdziński,

and Andrzej Tarlecki, editors, *Proceedings of the 34th International Colloquium on Automata, Languages and Programming, ICALP'2007 (Wrocław, Poland, July 9-13, 2007)*, volume 4596 of *LNCS*, pages 352–362. Springer-Verlag, Berlin-Heidelberg, 2007.

- [23] Noga Alon and Shai Gutner. Balanced families of perfect hash functions and their applications. In Lars Arge, Christian Cachin, Tomasz Jurdziński, and Andrzej Tarlecki, editors, *Proceedings of the 34th International Colloquium on Automata, Languages and Programming, ICALP'2007 (Wrocław, Poland, July 9-13, 2007)*, volume 4596 of *LNCS*, pages 435–446. Springer-Verlag, Berlin-Heidelberg, 2007.
- [24] Noga Alon and Shai Gutner. Linear time algorithms for finding a dominating set of fixed size in degenerated graphs. In Guohui Lin, editor, *Proceedings of the 13th Annual International Conference on Computing and Combinatorics, COCOON'2007 (Banff, Canada, July 16-19, 2007)*, volume 4598 of *LNCS*, pages 394–405. Springer-Verlag, Berlin-Heidelberg, 2007.
- [25] Noga Alon, Asaf Shapira, and Uri Stav. Can a graph have distinct regular partitions? In Guohui Lin, editor, *Proceedings of the 13th Annual International Conference on Computing and Combinatorics, COCOON'2007 (Banff, Canada, July 16-19, 2007)*, volume 4598 of *LNCS*, pages 428–438. Springer-Verlag, Berlin-Heidelberg, 2007.
- [26] Noga Alon and Raphael Yuster. Fast algorithms for maximum subset matching and all-pairs shortest paths in graphs with a (not so) small vertex cover. In Lars Arge, Michael Hoffmann, and Emo Welzl, editors, *Proceedings of the 15th Annual European Symposium on Algorithms, ESA '2007 (Eilat, Israel, October 8-10, 2007)*, volume 4698 of *LNCS*, pages 175–186. Springer-Verlag, Berlin-Heidelberg, 2007.
- [27] Greg Aloupis, Sébastien Collette, Mirela Damian, Erik D. Demaine, Robin Flatland, Stefan Langerman, Joseph O'Rourke, Suneeta Ramaswami, Vera Sacristán, and Stefanie Wuhrer. Linear reconfiguration of cube-style modular robots. In Takeshi Tokuyama, editor, *Proceedings of the 18th International Symposium on Algorithms and Computation, ISAAC'2007 (Sendai, Japan December 17-19, 2007)*, volume 4835 of *LNCS*, pages 208–219. Springer-Verlag, Berlin-Heidelberg, 2007.

- [28] Srinivas Aluru. The combinatorics of sequencing the corn genome. In Guohui Lin, editor, *Proceedings of the 13th Annual International Conference on Computing and Combinatorics, COCOON'2007 (Banff, Canada, July 16-19, 2007)*, volume 4598 of *LNCS*, pages 1–1. Springer-Verlag, Berlin-Heidelberg, 2007.
- [29] Christoph Ambühl, Monaldo Mastrolilli, Nikolaus Mutsanas, and Ola Svensson. Scheduling with precedence constraints of low fractional dimension. In Matteo Fischetti and David P. Williamson, editors, *Proceedings of the 12th International Conference on Integer Programming and Combinatorial Optimization, IPCO'2007 (Ithaka, NY, USA, June 25-27, 2007)*, volume 4513 of *LNCS*, pages 130–144. Springer-Verlag, Berlin-Heidelberg, 2007.
- [30] Omid Amini, Stéphane Pérennes, and Ignasi Sau. Hardness and approximation of traffic grooming. In Takeshi Tokuyama, editor, *Proceedings of the 18th International Symposium on Algorithms and Computation, ISAAC'2007 (Sendai, Japan December 17-19, 2007)*, volume 4835 of *LNCS*, pages 561–573. Springer-Verlag, Berlin-Heidelberg, 2007.
- [31] Amihood Amir, Johannes Fischer, and Moshe Lewenstein. Two-dimensional range minimum queries. In Bin Ma and Kaizhong Zhang, editors, *Proceedings of the 18th Annual Symposium on Combinatorial Pattern Matching, CPM'2007 (London, Canada, July 9-11, 2007)*, volume 4580 of *LNCS*, pages 286–294. Springer-Verlag, Berlin-Heidelberg, 2007.
- [32] Amihood Amir, Tzvika Hartman, Oren Kapah, Avivit Levy, and Ely Porat. On the cost of interchange rearrangement in strings. In Lars Arge, Michael Hoffmann, and Emo Welzl, editors, *Proceedings of the 15th Annual European Symposium on Algorithms, ESA'2007 (Eilat, Israel, October 8-10, 2007)*, volume 4698 of *LNCS*, pages 99–110. Springer-Verlag, Berlin-Heidelberg, 2007.
- [33] Amihood Amir, Oren Kapah, and Ely Porat. Deterministic length reduction: Fast convolution in sparse data and applications. In Bin Ma and Kaizhong Zhang, editors, *Proceedings of the 18th Annual Symposium on Combinatorial Pattern Matching, CPM'2007 (London, Canada, July 9-11, 2007)*, volume 4580 of *LNCS*, pages 183–194. Springer-Verlag, Berlin-Heidelberg, 2007.

- [34] Kent Andersen, Quentin Louveaux, Robert Weismantel, and Laurence A. Wolsey. Inequalities from two rows of a simplex tableau. In Matteo Fischetti and David P. Williamson, editors, *Proceedings of the 12th International Conference on Integer Programming and Combinatorial Optimization, IPCO'2007 (Ithaka, NY, USA, June 25-27, 2007)*, volume 4513 of *LNCS*, pages 1–15. Springer-Verlag, Berlin-Heidelberg, 2007.
- [35] Patrizio Angelini, Giuseppe Di Battista, and Maurizio Patrignani. Computing a minimum-depth planar graph embedding in $o(n^4)$ time. In Frank Dehne, Jörg-Rüdiger Sack, and Norbert Zeh, editors, *Proceedings of the 10th International Workshop on Algorithms and Data Structures, WADS'2007 (Halifax, Canada, August 15-17, 2007)*, volume 4619 of *LNCS*, pages 287–299. Springer-Verlag, Berlin-Heidelberg, 2007.
- [36] Barbara M. Anthony and Anupam Gupta. Infrastructure leasing problems. In Matteo Fischetti and David P. Williamson, editors, *Proceedings of the 12th International Conference on Integer Programming and Combinatorial Optimization, IPCO'2007 (Ithaka, NY, USA, June 25-27, 2007)*, volume 4513 of *LNCS*, pages 424–438. Springer-Verlag, Berlin-Heidelberg, 2007.
- [37] Alberto Apostolico and Claudia Tagliacollo. Optimal offline extraction of irredundant motif bases. In Guohui Lin, editor, *Proceedings of the 13th Annual International Conference on Computing and Combinatorics, COCOON'2007 (Banff, Canada, July 16-19, 2007)*, volume 4598 of *LNCS*, pages 360–371. Springer-Verlag, Berlin-Heidelberg, 2007.
- [38] Myrto Arapinis and Marie Duflot. Bounding messages for free in security protocols. In V. Arvind and Sanjiva Prasad, editors, *Proceedings of the 27th International Conference on Foundations of Software Technology and Theoretical Computer Science, FSTTCS'2007 (New Delhi, India, December 12-14, 2007)*, volume 4855 of *LNCS*, pages 376–387. Springer-Verlag, Berlin-Heidelberg, 2007.
- [39] Marcelo Arenas, Pablo Barceló, and Leonid Libkin. Regular languages of nested words: Fixed points, automata, and synchronization. In Lars

Arge, Christian Cachin, Tomasz Jurdziński, and Andrzej Tarlecki, editors, *Proceedings of the 34th International Colloquium on Automata, Languages and Programming, ICALP'2007 (Wrocław, Poland, July 9-13, 2007)*, volume 4596 of *LNCS*, pages 888–900. Springer-Verlag, Berlin-Heidelberg, 2007.

- [40] Boris Aronov, Tetsuo Asano, and Stefan Funke. Optimal triangulation with steiner points. In Takeshi Tokuyama, editor, *Proceedings of the 18th International Symposium on Algorithms and Computation, ISAAC'2007 (Sendai, Japan December 17-19, 2007)*, volume 4835 of *LNCS*, pages 681–691. Springer-Verlag, Berlin-Heidelberg, 2007.
- [41] Jan Arpe and Rüdiger Reischuk. When does greedy learning of relevant attributes succeed? — a fourier-based characterization. In Guohui Lin, editor, *Proceedings of the 13th Annual International Conference on Computing and Combinatorics, COCOON'2007 (Banff, Canada, July 16-19, 2007)*, volume 4598 of *LNCS*, pages 296–306. Springer-Verlag, Berlin-Heidelberg, 2007.
- [42] Diego Arroyuelo and Gonzalo Navarro. A lempel-ziv text index on secondary storage. In Bin Ma and Kaizhong Zhang, editors, *Proceedings of the 18th Annual Symposium on Combinatorial Pattern Matching, CPM'2007 (London, Canada, July 9-11, 2007)*, volume 4580 of *LNCS*, pages 83–94. Springer-Verlag, Berlin-Heidelberg, 2007.
- [43] V. Arvind, Bireswar Das, and Johannes Köbler. The space complexity of k -tree isomorphism. In Takeshi Tokuyama, editor, *Proceedings of the 18th International Symposium on Algorithms and Computation, ISAAC'2007 (Sendai, Japan December 17-19, 2007)*, volume 4835 of *LNCS*, pages 822–833. Springer-Verlag, Berlin-Heidelberg, 2007.
- [44] V. Arvind and Partha Mukhopadhyay. The monomial ideal membership problem and polynomial identity testing. In Takeshi Tokuyama, editor, *Proceedings of the 18th International Symposium on Algorithms and Computation, ISAAC'2007 (Sendai, Japan December 17-19, 2007)*, volume 4835 of *LNCS*, pages 800–811. Springer-Verlag, Berlin-Heidelberg, 2007.
- [45] Yuichi Asahiro, Eiji Miyano, Toshihide Murata, and Hirotaka Ono. On approximation of bookmark assignments. In Luděk Kučera and An-

tonín Kučera, editors, *Proceedings of the 32nd International Symposium on Mathematical Foundations of Computer Science, MFCS'2007 (Český Krumlov, Czech Republic, August 26-31, 2007)*, volume 4708 of *LNCS*, pages 115–124. Springer-Verlag, Berlin-Heidelberg, 2007.

- [46] Tetsuo Asano, Shinnya Bitou, Mitsuo Motoki, and Nobuaki Usui. In-place algorithm for image rotation. In Takeshi Tokuyama, editor, *Proceedings of the 18th International Symposium on Algorithms and Computation, ISAAC'2007 (Sendai, Japan December 17-19, 2007)*, volume 4835 of *LNCS*, pages 704–715. Springer-Verlag, Berlin-Heidelberg, 2007.
- [47] Mikhail J. Atallah, Marina Blanton, Michael T. Goodrich, and Stanislas Polu. Discrepancy-sensitive dynamic fractional cascading, dominated maxima searching, and 2-d nearest neighbors in any minkowski metric. In Frank Dehne, Jörg-Rüdiger Sack, and Norbert Zeh, editors, *Proceedings of the 10th International Workshop on Algorithms and Data Structures, WADS'2007 (Halifax, Canada, August 15-17, 2007)*, volume 4619 of *LNCS*, pages 114–126. Springer-Verlag, Berlin-Heidelberg, 2007.
- [48] Alper Atamtürk and Vishnu Narayanan. Cuts for conic mixed-integer programming. In Matteo Fischetti and David P. Williamson, editors, *Proceedings of the 12th International Conference on Integer Programming and Combinatorial Optimization, IPCO'2007 (Ithaka, NY, USA, June 25-27, 2007)*, volume 4513 of *LNCS*, pages 16–29. Springer-Verlag, Berlin-Heidelberg, 2007.
- [49] Albert Atserias, Andrei Bulatov, and Victor Dalmau. On the power of k -consistency. In Lars Arge, Christian Cachin, Tomasz Jurdziński, and Andrzej Tarlecki, editors, *Proceedings of the 34th International Colloquium on Automata, Languages and Programming, ICALP'2007 (Wrocław, Poland, July 9-13, 2007)*, volume 4596 of *LNCS*, pages 279–290. Springer-Verlag, Berlin-Heidelberg, 2007.
- [50] Albert Atserias, Andrei Bulatov, and Anuj Dawar. Affine systems of equations and counting infinitary logic. In Lars Arge, Christian Cachin, Tomasz Jurdziński, and Andrzej Tarlecki, editors, *Proceedings of the*

34th International Colloquium on Automata, Languages and Programming, ICALP'2007 (Wrocław, Poland, July 9-13, 2007), volume 4596 of *LNCS*, pages 558–570. Springer-Verlag, Berlin-Heidelberg, 2007.

- [51] Dominique Attali, Herbert Edelsbrunner, John Harer, and Yuriy Mileyko. Alpha-beta witness complexes. In Frank Dehne, Jörg-Rüdiger Sack, and Norbert Zeh, editors, *Proceedings of the 10th International Workshop on Algorithms and Data Structures, WADS'2007 (Halifax, Canada, August 15-17, 2007)*, volume 4619 of *LNCS*, pages 386–397. Springer-Verlag, Berlin-Heidelberg, 2007.
- [52] Yonatan Aumann, Moshe Lewenstein, Noa Lewenstein, and Dekel Tsur. Finding witnesses by peeling. In Bin Ma and Kaizhong Zhang, editors, *Proceedings of the 18th Annual Symposium on Combinatorial Pattern Matching, CPM'2007 (London, Canada, July 9-11, 2007)*, volume 4580 of *LNCS*, pages 28–39. Springer-Verlag, Berlin-Heidelberg, 2007.
- [53] Giorgio Ausiello, Camil Demetrescu, Paolo G. Franciosa, Giuseppe F. Italiano, and Andrea Ribichini. Small stretch spanners in the streaming model: New algorithms and experiments. In Lars Arge, Michael Hoffmann, and Emo Welzl, editors, *Proceedings of the 15th Annual European Symposium on Algorithms, ESA'2007 (Eilat, Israel, October 8-10, 2007)*, volume 4698 of *LNCS*, pages 605–617. Springer-Verlag, Berlin-Heidelberg, 2007.
- [54] Dang Hoai Bac, Nguyen Binh, and Nguyen Xuan Quynh. Novel algebraic structure for cyclic codes. In Serdar Boztas and Hsiao-Feng (Francis) Lu, editors, *Proceedings of the 17th International Symposium on Applied Algebra, Algebraic Algorithms and Error-Correcting Codes, AAECC'2007 (Bangalore, India, December 16-20, 2007)*, volume 4851 of *LNCS*, pages 301–310. Springer-Verlag, Berlin-Heidelberg, 2007.
- [55] Emgad Bachoore and Hans L. Bodlaender. Weighted treewidth algorithmic techniques and results. In Takeshi Tokuyama, editor, *Proceedings of the 18th International Symposium on Algorithms and Computation, ISAAC'2007 (Sendai, Japan December 17-19, 2007)*, volume 4835 of *LNCS*, pages 893–903. Springer-Verlag, Berlin-Heidelberg, 2007.

- [56] Michael Backes, Markus Dürmuth, and Ralf Küsters. On simulability soundness and mapping soundness of symbolic cryptography. In V. Arvind and Sanjiva Prasad, editors, *Proceedings of the 27th International Conference on Foundations of Software Technology and Theoretical Computer Science, FSTTCS'2007 (New Delhi, India, December 12-14, 2007)*, volume 4855 of *LNCS*, pages 108–120. Springer-Verlag, Berlin-Heidelberg, 2007.
- [57] Werner Backes and Susanne Wetzel. An efficient lll gram using buffered transformations. In Victor G. Ganzha, Ernst W. Mayr, and Evgenii V. Vorozhtsov, editors, *Proceedings of the 10th International Workshop on Computer Algebra in Scientific Computing, CASC'2007 (Bonn, Germany, September 16-20, 2007)*, volume 4770 of *LNCS*, pages 31–44. Springer-Verlag, Berlin-Heidelberg, 2007.
- [58] Melanie Badent, Emilio Di Giacomo, and Giuseppe Liotta. Drawing colored graphs on colored points. In Frank Dehne, Jörg-Rüdiger Sack, and Norbert Zeh, editors, *Proceedings of the 10th International Workshop on Algorithms and Data Structures, WADS'2007 (Halifax, Canada, August 15-17, 2007)*, volume 4619 of *LNCS*, pages 102–113. Springer-Verlag, Berlin-Heidelberg, 2007.
- [59] Sang Won Bae, Chunseok Lee, Hee-Kap Ahn, Sunghee Choi, and Kyung-Yong Chwa. Maintaining extremal points and its applications to deciding optimal orientations. In Takeshi Tokuyama, editor, *Proceedings of the 18th International Symposium on Algorithms and Computation, ISAAC'2007 (Sendai, Japan December 17-19, 2007)*, volume 4835 of *LNCS*, pages 788–799. Springer-Verlag, Berlin-Heidelberg, 2007.
- [60] Sung Eun Bae and Tadao Takaoka. A sub-cubic time algorithm for the k -maximum subarray problem. In Takeshi Tokuyama, editor, *Proceedings of the 18th International Symposium on Algorithms and Computation, ISAAC'2007 (Sendai, Japan December 17-19, 2007)*, volume 4835 of *LNCS*, pages 751–762. Springer-Verlag, Berlin-Heidelberg, 2007.
- [61] Christel Baier, Nathalie Bertrand, Patricia Bouyer, Thomas Brihaye, and Marcus Größer. Probabilistic and topological semantics for timed automata. In V. Arvind and Sanjiva Prasad, editors, *Proceedings of the 27th International Conference on Foundations of Software Technology and Theoretical Computer Science, FSTTCS'2007 (New Delhi,*

India, December 12-14, 2007), volume 4855 of *LNCS*, pages 179–191. Springer-Verlag, Berlin-Heidelberg, 2007.

- [62] Egon Balas and Pierre Bonami. New variants of lift-and-project cut generation from the lp tableau: Open source implementation and testing. In Matteo Fischetti and David P. Williamson, editors, *Proceedings of the 12th International Conference on Integer Programming and Combinatorial Optimization, IPCO'2007 (Ithaka, NY, USA, June 25-27, 2007)*, volume 4513 of *LNCS*, pages 89–103. Springer-Verlag, Berlin-Heidelberg, 2007.
- [63] Nikhil Bansal, Niv Buchbinder, Anupam Gupta, and Joseph (seffi) Naor. An $o(\log^2 k)$ -competitive algorithm for metric bipartite matching. In Lars Arge, Michael Hoffmann, and Emo Welzl, editors, *Proceedings of the 15th Annual European Symposium on Algorithms, ESA'2007 (Eilat, Israel, October 8-10, 2007)*, volume 4698 of *LNCS*, pages 522–533. Springer-Verlag, Berlin-Heidelberg, 2007.
- [64] Nikhil Bansal, Ho-Leung Chan, and Kirk Pruhs. Competitive algorithms for due date scheduling. In Lars Arge, Christian Cachin, Tomasz Jurdziński, and Andrzej Tarlecki, editors, *Proceedings of the 34th International Colloquium on Automata, Languages and Programming, ICALP'2007 (Wrocław, Poland, July 9-13, 2007)*, volume 4596 of *LNCS*, pages 28–39. Springer-Verlag, Berlin-Heidelberg, 2007.
- [65] Philippe Baptiste, Marek Chrobak, and Christoph Dürr. Polynomial time algorithms for minimum energy scheduling. In Lars Arge, Michael Hoffmann, and Emo Welzl, editors, *Proceedings of the 15th Annual European Symposium on Algorithms, ESA'2007 (Eilat, Israel, October 8-10, 2007)*, volume 4698 of *LNCS*, pages 136–150. Springer-Verlag, Berlin-Heidelberg, 2007.
- [66] Amotz Bar-Noy, Panagiotis Cheilaris, Svetlana Olonetsky, and Shakhar Smorodinsky. Online conflict-free colorings for hypergraphs. In Lars Arge, Christian Cachin, Tomasz Jurdziński, and Andrzej Tarlecki, editors, *Proceedings of the 34th International Colloquium on Automata, Languages and Programming, ICALP'2007 (Wrocław, Poland, July 9-13, 2007)*, volume 4596 of *LNCS*, pages 219–230. Springer-Verlag, Berlin-Heidelberg, 2007.

- [67] Amotz Bar-Noy and Joanna Klukowska. Finding mobile data: Efficiency vs. location inaccuracy. In Lars Arge, Michael Hoffmann, and Emo Welzl, editors, *Proceedings of the 15th Annual European Symposium on Algorithms, ESA'2007 (Eilat, Israel, October 8-10, 2007)*, volume 4698 of *LNCS*, pages 111–122. Springer-Verlag, Berlin-Heidelberg, 2007.
- [68] Reuven Bar-Yehuda, Guy Flysher, Julián Mestre, and Dror Rawitz. Approximation of partial capacitated vertex cover. In Lars Arge, Michael Hoffmann, and Emo Welzl, editors, *Proceedings of the 15th Annual European Symposium on Algorithms, ESA'2007 (Eilat, Israel, October 8-10, 2007)*, volume 4698 of *LNCS*, pages 335–346. Springer-Verlag, Berlin-Heidelberg, 2007.
- [69] Jérémie Barbay, Luca Castelli Aleardi, Meng He, and J. Ian Munro. Succinct representation of labeled graphs. In Takeshi Tokuyama, editor, *Proceedings of the 18th International Symposium on Algorithms and Computation, ISAAC'2007 (Sendai, Japan December 17-19, 2007)*, volume 4835 of *LNCS*, pages 316–328. Springer-Verlag, Berlin-Heidelberg, 2007.
- [70] David Barbelli, George Kachergis, David Liben-Nowell, Anna Sallstrom, and Ben Sowell. Depth of field and cautious-greedy routing in social networks. In Takeshi Tokuyama, editor, *Proceedings of the 18th International Symposium on Algorithms and Computation, ISAAC'2007 (Sendai, Japan December 17-19, 2007)*, volume 4835 of *LNCS*, pages 574–586. Springer-Verlag, Berlin-Heidelberg, 2007.
- [71] Wilhelm Barth, Petra Mutzel, and Canan Yıldız. A new approximation algorithm for bend minimization in the kandinsky model. In Michael Kaufmann and Dorothea Wagner, editors, *Proceedings of the 14th International Symposium on Graph Drawing, GD'2006 (Karlsruhe, Germany, September 18-20, 2006)*, volume 4372 of *LNCS*, pages 343–354. Springer-Verlag, Berlin-Heidelberg, 2007.
- [72] Nicolas Baudru and Rémi Morin. Synthesis of safe message-passing systems. In V. Arvind and Sanjiva Prasad, editors, *Proceedings of the 27th International Conference on Foundations of Software Technology and Theoretical Computer Science, FSTTCS'2007 (New Delhi,*

India, December 12-14, 2007), volume 4855 of *LNCS*, pages 277–289. Springer-Verlag, Berlin-Heidelberg, 2007.

- [73] Cristina Bazgan, Hadrien Hugot, and Daniel Vanderpoorten. A practical efficient fptas for the 0-1 multi-objective knapsack problem. In Lars Arge, Michael Hoffmann, and Emo Welzl, editors, *Proceedings of the 15th Annual European Symposium on Algorithms, ESA'2007 (Eilat, Israel, October 8-10, 2007)*, volume 4698 of *LNCS*, pages 717–728. Springer-Verlag, Berlin-Heidelberg, 2007.
- [74] Paul Beame, Matei David, Toniann Pitassi, and Philipp Woelfel. Separating deterministic from nondeterministic nof multiparty communication complexity. In Lars Arge, Christian Cachin, Tomasz Jurdziński, and Andrzej Tarlecki, editors, *Proceedings of the 34th International Colloquium on Automata, Languages and Programming, ICALP'2007 (Wrocław, Poland, July 9-13, 2007)*, volume 4596 of *LNCS*, pages 134–145. Springer-Verlag, Berlin-Heidelberg, 2007.
- [75] M. Beccuti, G. Franceschinis, and S. Haddad. Markov decision petri net and markov decision well-formed net formalisms. In Jetty Kleijn and Alex Yakovlev, editors, *Proceedings of the 28th International Conference on Applications and Theory of Petri Nets and Other Models of Concurrency, ICATPN'2007 (Siedlce, Poland, June 25-29, 2007)*, volume 4546 of *LNCS*, pages 43–62. Springer-Verlag, Berlin-Heidelberg, 2007.
- [76] Nicolas Bedon and Chloé Rispal. Series-parallel languages on scattered and countable posets. In Luděk Kučera and Antonín Kučera, editors, *Proceedings of the 32nd International Symposium on Mathematical Foundations of Computer Science, MFCS'2007 (Český Krumlov, Czech Republic, August 26-31, 2007)*, volume 4708 of *LNCS*, pages 477–488. Springer-Verlag, Berlin-Heidelberg, 2007.
- [77] Christoph Behle, Andreas Krebs, and Mark Mercer. Linear circuits, two-variable logic and weakly blocked monoids. In Luděk Kučera and Antonín Kučera, editors, *Proceedings of the 32nd International Symposium on Mathematical Foundations of Computer Science, MFCS'2007 (Český Krumlov, Czech Republic, August 26-31, 2007)*, volume 4708 of *LNCS*, pages 147–158. Springer-Verlag, Berlin-Heidelberg, 2007.

- [78] Rene Beier, Heiko Röglin, and Berthold Vöcking. The smoothed number of pareto optimal solutions in bicriteria integer optimization. In Matteo Fischetti and David P. Williamson, editors, *Proceedings of the 12th International Conference on Integer Programming and Combinatorial Optimization, IPCO'2007 (Ithaka, NY, USA, June 25-27, 2007)*, volume 4513 of *LNCS*, pages 53–67. Springer-Verlag, Berlin-Heidelberg, 2007.
- [79] Wolfgang Bein, Lawrence L. Larmore, and John Noga. Equitable revisited. In Lars Arge, Michael Hoffmann, and Emo Welzl, editors, *Proceedings of the 15th Annual European Symposium on Algorithms, ESA '2007 (Eilat, Israel, October 8-10, 2007)*, volume 4698 of *LNCS*, pages 419–426. Springer-Verlag, Berlin-Heidelberg, 2007.
- [80] Walid Belkhir and Luigi Santocanale. Undirected graphs of entanglement 2. In V. Arvind and Sanjiva Prasad, editors, *Proceedings of the 27th International Conference on Foundations of Software Technology and Theoretical Computer Science, FSTTCS'2007 (New Delhi, India, December 12-14, 2007)*, volume 4855 of *LNCS*, pages 508–519. Springer-Verlag, Berlin-Heidelberg, 2007.
- [81] Paul Bell and Igor Potapov. Reachability problems in quaternion matrix and rotation semigroups. In Luděk Kučera and Antonín Kučera, editors, *Proceedings of the 32nd International Symposium on Mathematical Foundations of Computer Science, MFCS'2007 (Český Krumlov, Czech Republic, August 26-31, 2007)*, volume 4708 of *LNCS*, pages 346–358. Springer-Verlag, Berlin-Heidelberg, 2007.
- [82] Mihir Bellare, Chanathip Namprempre, and Gregory Neven. Unrestricted aggregate signatures. In Lars Arge, Christian Cachin, Tomasz Jurdziński, and Andrzej Tarlecki, editors, *Proceedings of the 34th International Colloquium on Automata, Languages and Programming, ICALP'2007 (Wrocław, Poland, July 9-13, 2007)*, volume 4596 of *LNCS*, pages 411–422. Springer-Verlag, Berlin-Heidelberg, 2007.
- [83] Mihir Bellare and Thomas Ristenpart. Hash functions in the dedicated-key setting: Design choices and mpp transforms. In Lars Arge, Christian Cachin, Tomasz Jurdziński, and Andrzej Tarlecki, editors, *Proceedings of the 34th International Colloquium on Automata, Languages and*

Programming, ICALP'2007 (Wrocław, Poland, July 9-13, 2007), volume 4596 of *LNCS*, pages 399–410. Springer-Verlag, Berlin-Heidelberg, 2007.

- [84] Michael Benedikt and Alan Jeffrey. Efficient and expressive tree filters. In V. Arvind and Sanjiva Prasad, editors, *Proceedings of the 27th International Conference on Foundations of Software Technology and Theoretical Computer Science, FSTTCS'2007 (New Delhi, India, December 12-14, 2007)*, volume 4855 of *LNCS*, pages 461–472. Springer-Verlag, Berlin-Heidelberg, 2007.
- [85] Israel Beniaminy, Zeev Nutov, and Meir Ovadia. Approximating interval scheduling problems with bounded profits. In Lars Arge, Michael Hoffmann, and Emo Welzl, editors, *Proceedings of the 15th Annual European Symposium on Algorithms, ESA'2007 (Eilat, Israel, October 8-10, 2007)*, volume 4698 of *LNCS*, pages 487–497. Springer-Verlag, Berlin-Heidelberg, 2007.
- [86] Marc Benkert, Bojan Djordjevic, Joachim Gudmundsson, and Thomas Wolle. Finding popular places. In Takeshi Tokuyama, editor, *Proceedings of the 18th International Symposium on Algorithms and Computation, ISAAC'2007 (Sendai, Japan December 17-19, 2007)*, volume 4835 of *LNCS*, pages 776–787. Springer-Verlag, Berlin-Heidelberg, 2007.
- [87] Marc Benkert, Martin Nöllenburg, Takeaki Uno, and Alexander Wolff. Minimizing intra-edge crossings in wiring diagrams and public transportation maps. In Michael Kaufmann and Dorothea Wagner, editors, *Proceedings of the 14th International Symposium on Graph Drawing, GD'2006 (Karlsruhe, Germany, September 18-20, 2006)*, volume 4372 of *LNCS*, pages 270–281. Springer-Verlag, Berlin-Heidelberg, 2007.
- [88] Maxime Benoît-Gagné and Sylvie Hamel. A new and faster method of sorting by transpositions. In Bin Ma and Kaizhong Zhang, editors, *Proceedings of the 18th Annual Symposium on Combinatorial Pattern Matching, CPM'2007 (London, Canada, July 9-11, 2007)*, volume 4580 of *LNCS*, pages 131–141. Springer-Verlag, Berlin-Heidelberg, 2007.
- [89] Eric Berberich, Efi Fogel, Dan Halperin, Kurt Mehlhorn, and Ron Wein. Sweeping and maintaining two-dimensional arrangements on surfaces: A first step. In Lars Arge, Michael Hoffmann, and Emo Welzl,

editors, *Proceedings of the 15th Annual European Symposium on Algorithms, ESA'2007 (Eilat, Israel, October 8-10, 2007)*, volume 4698 of *LNCS*, pages 645–656. Springer-Verlag, Berlin-Heidelberg, 2007.

- [90] Ainhoa Berciano, María José Jiménez, and Pedro Real. On the computation of a a_∞ -maps. In Victor G. Ganzha, Ernst W. Mayr, and Evgenii V. Vorozhtsov, editors, *Proceedings of the 10th International Workshop on Computer Algebra in Scientific Computing, CASC'2007 (Bonn, Germany, September 16-20, 2007)*, volume 4770 of *LNCS*, pages 45–57. Springer-Verlag, Berlin-Heidelberg, 2007.
- [91] Petra Berenbrink, Tom Friedetzky, Iman Hajirasouliha, and Zengjian Hu. Convergence to equilibria in distributed, selfish reallocation processes with weighted tasks. In Lars Arge, Michael Hoffmann, and Emo Welzl, editors, *Proceedings of the 15th Annual European Symposium on Algorithms, ESA'2007 (Eilat, Israel, October 8-10, 2007)*, volume 4698 of *LNCS*, pages 41–52. Springer-Verlag, Berlin-Heidelberg, 2007.
- [92] Petra Berenbrink and Oliver Schulte. Evolutionary equilibrium in bayesian routing games: Specialization and niche formation. In Lars Arge, Michael Hoffmann, and Emo Welzl, editors, *Proceedings of the 15th Annual European Symposium on Algorithms, ESA'2007 (Eilat, Israel, October 8-10, 2007)*, volume 4698 of *LNCS*, pages 29–40. Springer-Verlag, Berlin-Heidelberg, 2007.
- [93] André Berger and Michelangelo Grigni. Minimum weight 2-edge-connected spanning subgraphs in planar graphs. In Lars Arge, Christian Cachin, Tomasz Jurdziński, and Andrzej Tarlecki, editors, *Proceedings of the 34th International Colloquium on Automata, Languages and Programming, ICALP'2007 (Wrocław, Poland, July 9-13, 2007)*, volume 4596 of *LNCS*, pages 90–101. Springer-Verlag, Berlin-Heidelberg, 2007.
- [94] Rudolf Berghammer and Gunther Schmidt. Algebraic visualization of relations using relview. In Victor G. Ganzha, Ernst W. Mayr, and Evgenii V. Vorozhtsov, editors, *Proceedings of the 10th International Workshop on Computer Algebra in Scientific Computing, CASC'2007 (Bonn, Germany, September 16-20, 2007)*, volume 4770 of *LNCS*, pages 58–72. Springer-Verlag, Berlin-Heidelberg, 2007.

- [95] Gr  ory Berhuy and Fr  d  rique Oggier. Space-time codes from crossed product algebras of degree 4. In Serdar Bozta   and Hsiao-Feng (Francis) Lu, editors, *Proceedings of the 17th International Symposium on Applied Algebra, Algebraic Algorithms and Error-Correcting Codes, AAECC'2007 (Bangalore, India, December 16-20, 2007)*, volume 4851 of *LNCS*, pages 90–99. Springer-Verlag, Berlin-Heidelberg, 2007.
- [96] Piotr Berman and Shiva Prasad Kasiviswanathan. Faster approximation of distances in graphs. In Frank Dehne, J  rg-R  diger Sack, and Norbert Zeh, editors, *Proceedings of the 10th International Workshop on Algorithms and Data Structures, WADS'2007 (Halifax, Canada, August 15-17, 2007)*, volume 4619 of *LNCS*, pages 541–552. Springer-Verlag, Berlin-Heidelberg, 2007.
- [97] Daniel J. Bernstein. The tangent fft. In Serdar Bozta   and Hsiao-Feng (Francis) Lu, editors, *Proceedings of the 17th International Symposium on Applied Algebra, Algebraic Algorithms and Error-Correcting Codes, AAECC'2007 (Bangalore, India, December 16-20, 2007)*, volume 4851 of *LNCS*, pages 291–300. Springer-Verlag, Berlin-Heidelberg, 2007.
- [98] Daniel J. Bernstein and Tanja Lange. Inverted edwards coordinates. In Serdar Bozta   and Hsiao-Feng (Francis) Lu, editors, *Proceedings of the 17th International Symposium on Applied Algebra, Algebraic Algorithms and Error-Correcting Codes, AAECC'2007 (Bangalore, India, December 16-20, 2007)*, volume 4851 of *LNCS*, pages 20–27. Springer-Verlag, Berlin-Heidelberg, 2007.
- [99] Jean Berstel, Luc Boasson, Olivier Carton, and Isabelle Fagnot. A first investigation of sturmian trees. In Wolfgang Thomas and Pascal Weil, editors, *Proceedings of the 24th Annual Symposium on Theoretical Aspects of Computer Science, STACS'2007 (Aachen, Germany, February 22-24, 2007)*, volume 4393 of *LNCS*, pages 73–84. Springer-Verlag, Berlin-Heidelberg, 2007.
- [100] Alberto Bertoni, Massimiliano Goldwurm, and Violetta Lonati. On the complexity of unary tiling-recognizable picture languages. In Wolfgang Thomas and Pascal Weil, editors, *Proceedings of the 24th Annual Symposium on Theoretical Aspects of Computer Science, STACS'2007*

(Aachen, Germany, February 22-24, 2007), volume 4393 of LNCS, pages 381–392. Springer-Verlag, Berlin-Heidelberg, 2007.

- [101] Dietmar Berwanger. Admissibility in infinite games. In Wolfgang Thomas and Pascal Weil, editors, *Proceedings of the 24th Annual Symposium on Theoretical Aspects of Computer Science, STACS'2007 (Aachen, Germany, February 22-24, 2007)*, volume 4393 of LNCS, pages 188–199. Springer-Verlag, Berlin-Heidelberg, 2007.
- [102] Olaf Beyersdorff. The deduction theorem for strong propositional proof systems. In V. Arvind and Sanjiva Prasad, editors, *Proceedings of the 27th International Conference on Foundations of Software Technology and Theoretical Computer Science, FSTTCS'2007 (New Delhi, India, December 12-14, 2007)*, volume 4855 of LNCS, pages 241–252. Springer-Verlag, Berlin-Heidelberg, 2007.
- [103] Binay Bhattacharya, Yuzhuang Hu, and Alexander Kononov. Approximation algorithms for the black and white traveling salesman problem. In Guohui Lin, editor, *Proceedings of the 13th Annual International Conference on Computing and Combinatorics, COCOON'2007 (Banff, Canada, July 16-19, 2007)*, volume 4598 of LNCS, pages 559–567. Springer-Verlag, Berlin-Heidelberg, 2007.
- [104] Binay Bhattacharya and Qiaosheng Shi. Optimal algorithms for the weighted p -center problems on the real line for small p . In Frank Dehne, Jörg-Rüdiger Sack, and Norbert Zeh, editors, *Proceedings of the 10th International Workshop on Algorithms and Data Structures, WADS'2007 (Halifax, Canada, August 15-17, 2007)*, volume 4619 of LNCS, pages 529–540. Springer-Verlag, Berlin-Heidelberg, 2007.
- [105] Therese Biedl and Franz J. Brandenburg. Partitions of graphs into trees. In Michael Kaufmann and Dorothea Wagner, editors, *Proceedings of the 14th International Symposium on Graph Drawing, GD'2006 (Karlsruhe, Germany, September 18-20, 2006)*, volume 4372 of LNCS, pages 430–439. Springer-Verlag, Berlin-Heidelberg, 2007.
- [106] Therese Biedl, Masud Hasan, and Alejandro López-Ortiz. Reconstructing convex polygons and polyhedra from edge and face counts in orthogonal projections. In V. Arvind and Sanjiva Prasad, editors, *Proceedings*

of the 27th International Conference on Foundations of Software Technology and Theoretical Computer Science, FSTTCS'2007 (New Delhi, India, December 12-14, 2007), volume 4855 of LNCS, pages 400–411. Springer-Verlag, Berlin-Heidelberg, 2007.

- [107] Therese Biedl, Anna Lubiw, and Michael Spriggs. Cauchy’s theorem and edge lengths of convex polyhedra. In Frank Dehne, Jörg-Rüdiger Sack, and Norbert Zeh, editors, *Proceedings of the 10th International Workshop on Algorithms and Data Structures, WADS’2007 (Halifax, Canada, August 15-17, 2007)*, volume 4619 of LNCS, pages 398–409. Springer-Verlag, Berlin-Heidelberg, 2007.
- [108] Marcin Bienkowski and Jarosław Kutyłowski. The k -resource problem on uniform and on uniformly decomposable metric spaces. In Frank Dehne, Jörg-Rüdiger Sack, and Norbert Zeh, editors, *Proceedings of the 10th International Workshop on Algorithms and Data Structures, WADS’2007 (Halifax, Canada, August 15-17, 2007)*, volume 4619 of LNCS, pages 337–348. Springer-Verlag, Berlin-Heidelberg, 2007.
- [109] Laurent Bienvenu. Kolmogorov-loveland stochasticity and kolmogorov complexity. In Wolfgang Thomas and Pascal Weil, editors, *Proceedings of the 24th Annual Symposium on Theoretical Aspects of Computer Science, STACS’2007 (Aachen, Germany, February 22-24, 2007)*, volume 4393 of LNCS, pages 260–271. Springer-Verlag, Berlin-Heidelberg, 2007.
- [110] Laurent Bienvenu and Wolfgang Merkle. Reconciling data compression and kolmogorov complexity. In Lars Arge, Christian Cachin, Tomasz Jurdziński, and Andrzej Tarlecki, editors, *Proceedings of the 34th International Colloquium on Automata, Languages and Programming, ICALP’2007 (Wrocław, Poland, July 9-13, 2007)*, volume 4596 of LNCS, pages 643–654. Springer-Verlag, Berlin-Heidelberg, 2007.
- [111] Philip Bille, Rolf Fagerberg, and Inge Li Gørtz. Improved approximate string matching and regular expression matching on ziv-lempel compressed texts. In Bin Ma and Kaizhong Zhang, editors, *Proceedings of the 18th Annual Symposium on Combinatorial Pattern Matching, CPM’2007 (London, Canada, July 9-11, 2007)*, volume 4580 of LNCS, pages 52–62. Springer-Verlag, Berlin-Heidelberg, 2007.

- [112] Philip Bille, Anna Pagh, and Rasmus Pagh. Fast evaluation of union-intersection expressions. In Takeshi Tokuyama, editor, *Proceedings of the 18th International Symposium on Algorithms and Computation, ISAAC'2007 (Sendai, Japan December 17-19, 2007)*, volume 4835 of *LNCS*, pages 739–750. Springer-Verlag, Berlin-Heidelberg, 2007.
- [113] Davide Bilò, Jörg Derungs, Luciano Gualà, Guido Proietti, and Peter Widmayer. Locating facilities on a network to minimize their average service radius. In Takeshi Tokuyama, editor, *Proceedings of the 18th International Symposium on Algorithms and Computation, ISAAC'2007 (Sendai, Japan December 17-19, 2007)*, volume 4835 of *LNCS*, pages 587–598. Springer-Verlag, Berlin-Heidelberg, 2007.
- [114] Vittorio Bilò. The price of nash equilibria in multicast transmissions games. In Takeshi Tokuyama, editor, *Proceedings of the 18th International Symposium on Algorithms and Computation, ISAAC'2007 (Sendai, Japan December 17-19, 2007)*, volume 4835 of *LNCS*, pages 390–401. Springer-Verlag, Berlin-Heidelberg, 2007.
- [115] Vittorio Bilò and Michele Flammini. Extending the notion of rationality of selfish agents: Second order nash equilibria. In Luděk Kučera and Antonín Kučera, editors, *Proceedings of the 32nd International Symposium on Mathematical Foundations of Computer Science, MFCS'2007 (Český Krumloch, Czech Republic, August 26-31, 2007)*, volume 4708 of *LNCS*, pages 621–632. Springer-Verlag, Berlin-Heidelberg, 2007.
- [116] Henrik Björklund and Mikołaj Bojańczyk. Bounded depth data trees. In Lars Arge, Christian Cachin, Tomasz Jurdziński, and Andrzej Tarlecki, editors, *Proceedings of the 34th International Colloquium on Automata, Languages and Programming, ICALP'2007 (Wrocław, Poland, July 9-13, 2007)*, volume 4596 of *LNCS*, pages 862–874. Springer-Verlag, Berlin-Heidelberg, 2007.
- [117] Henrik Björklund and Mikołaj Bojańczyk. Shuffle expressions and words with nested data. In Luděk Kučera and Antonín Kučera, editors, *Proceedings of the 32nd International Symposium on Mathematical Foundations of Computer Science, MFCS'2007 (Český Krumloch, Czech Republic, August 26-31, 2007)*, volume 4708 of *LNCS*, pages 750–761. Springer-Verlag, Berlin-Heidelberg, 2007.

- [118] Francine Blanchet-Sadri, Joshua D. Gafni, and Kevin H. Wilson. Correlations of partial words. In Wolfgang Thomas and Pascal Weil, editors, *Proceedings of the 24th Annual Symposium on Theoretical Aspects of Computer Science, STACS'2007 (Aachen, Germany, February 22-24, 2007)*, volume 4393 of *LNCS*, pages 97–108. Springer-Verlag, Berlin-Heidelberg, 2007.
- [119] Markus Bläser and Holger Dell. Complexity of the cover polynomial. In Lars Arge, Christian Cachin, Tomasz Jurdziński, and Andrzej Tarlecki, editors, *Proceedings of the 34th International Colloquium on Automata, Languages and Programming, ICALP'2007 (Wrocław, Poland, July 9-13, 2007)*, volume 4596 of *LNCS*, pages 801–812. Springer-Verlag, Berlin-Heidelberg, 2007.
- [120] Markus Bläser and Andreas Meyer de Voltaire. Semisimple algebras of almost minimal rank over the reals. In Luděk Kučera and Antonín Kučera, editors, *Proceedings of the 32nd International Symposium on Mathematical Foundations of Computer Science, MFCS'2007 (Český Krumlov, Czech Republic, August 26-31, 2007)*, volume 4708 of *LNCS*, pages 669–680. Springer-Verlag, Berlin-Heidelberg, 2007.
- [121] Yvonne Bleischwitz, Burkhard Monien, Florian Schoppmann, and Karsten Tiemann. The power of two prices: Beyond cross-monotonicity. In Luděk Kučera and Antonín Kučera, editors, *Proceedings of the 32nd International Symposium on Mathematical Foundations of Computer Science, MFCS'2007 (Český Krumlov, Czech Republic, August 26-31, 2007)*, volume 4708 of *LNCS*, pages 657–668. Springer-Verlag, Berlin-Heidelberg, 2007.
- [122] Johannes Blömer and Stefanie Naewe. Sampling methods for shortest vectors, closest vectors and successive minima. In Lars Arge, Christian Cachin, Tomasz Jurdziński, and Andrzej Tarlecki, editors, *Proceedings of the 34th International Colloquium on Automata, Languages and Programming, ICALP'2007 (Wrocław, Poland, July 9-13, 2007)*, volume 4596 of *LNCS*, pages 65–77. Springer-Verlag, Berlin-Heidelberg, 2007.
- [123] Avrim Blum, Amin Coja-Oghlan, Alan Frieze, and Shuheng Zhou. Separating populations with wide data: A spectral analysis. In Takeshi Tokuyama, editor, *Proceedings of the 18th International Symposium on*

Algorithms and Computation, ISAAC'2007 (Sendai, Japan December 17-19, 2007), volume 4835 of *LNCS*, pages 439–451. Springer-Verlag, Berlin-Heidelberg, 2007.

- [124] Manuel Bodirsky, Hubie Chen, Jan Kára, and Timo von Oertzen. Maximal infinite-valued constraint languages. In Lars Arge, Christian Cachin, Tomasz Jurdziński, and Andrzej Tarlecki, editors, *Proceedings of the 34th International Colloquium on Automata, Languages and Programming, ICALP'2007 (Wrocław, Poland, July 9-13, 2007)*, volume 4596 of *LNCS*, pages 546–557. Springer-Verlag, Berlin-Heidelberg, 2007.
- [125] Hans L. Bodlaender. A cubic kernel for feedback vertex set. In Wolfgang Thomas and Pascal Weil, editors, *Proceedings of the 24th Annual Symposium on Theoretical Aspects of Computer Science, STACS'2007 (Aachen, Germany, February 22-24, 2007)*, volume 4393 of *LNCS*, pages 320–331. Springer-Verlag, Berlin-Heidelberg, 2007.
- [126] Hans L. Bodlaender, Michael R. Fellows, Michael A. Langston, Mark A. Ragan, Frances A. Rosamond, and Mark Weyer. Quadratic kernelization for convex recoloring of trees. In Guohui Lin, editor, *Proceedings of the 13th Annual International Conference on Computing and Combinatorics, COCOON'2007 (Banff, Canada, July 16-19, 2007)*, volume 4598 of *LNCS*, pages 86–96. Springer-Verlag, Berlin-Heidelberg, 2007.
- [127] Bernard Boigelot and Julien Brusten. A generalization of cobham's theorem to automata over real numbers. In Lars Arge, Christian Cachin, Tomasz Jurdziński, and Andrzej Tarlecki, editors, *Proceedings of the 34th International Colloquium on Automata, Languages and Programming, ICALP'2007 (Wrocław, Poland, July 9-13, 2007)*, volume 4596 of *LNCS*, pages 813–824. Springer-Verlag, Berlin-Heidelberg, 2007.
- [128] Mikołaj Bojańczyk and Piotr Hoffman. Reachability in unions of commutative rewriting systems is decidable. In Wolfgang Thomas and Pascal Weil, editors, *Proceedings of the 24th Annual Symposium on Theoretical Aspects of Computer Science, STACS'2007 (Aachen, Germany, February 22-24, 2007)*, volume 4393 of *LNCS*, pages 622–633. Springer-Verlag, Berlin-Heidelberg, 2007.

- [129] Benedikt Bollig, Dietrich Kuske, and Ingmar Meinecke. Propositional dynamic logic for message-passing systems. In V. Arvind and Sanjiva Prasad, editors, *Proceedings of the 27th International Conference on Foundations of Software Technology and Theoretical Computer Science, FSTTCS'2007 (New Delhi, India, December 12-14, 2007)*, volume 4855 of *LNCS*, pages 303–315. Springer-Verlag, Berlin-Heidelberg, 2007.
- [130] Paul Bonsma and Luis Cereceda. Finding paths between graph colourings: Pspace-completeness and superpolynomial distances. In Luděk Kučera and Antonín Kučera, editors, *Proceedings of the 32nd International Symposium on Mathematical Foundations of Computer Science, MFCS'2007 (Český Krumlov, Czech Republic, August 26-31, 2007)*, volume 4708 of *LNCS*, pages 738–749. Springer-Verlag, Berlin-Heidelberg, 2007.
- [131] Magdalene G. Borgelt, Marc van Kreveld, and Jun Luo. Geodesic disks and clustering in a simple polygon. In Takeshi Tokuyama, editor, *Proceedings of the 18th International Symposium on Algorithms and Computation, ISAAC'2007 (Sendai, Japan December 17-19, 2007)*, volume 4835 of *LNCS*, pages 656–667. Springer-Verlag, Berlin-Heidelberg, 2007.
- [132] Endre Boros, Konrad Borys, Khaled Elbassioni, Vladimir Gurvich, Kazuhisa Makino, and Gabor Rudolf. Generating minimal k -vertex connected spanning subgraphs. In Guohui Lin, editor, *Proceedings of the 13th Annual International Conference on Computing and Combinatorics, COCOON'2007 (Banff, Canada, July 16-19, 2007)*, volume 4598 of *LNCS*, pages 222–231. Springer-Verlag, Berlin-Heidelberg, 2007.
- [133] Glencora Borradaile, Philip N. Klein, and Claire Mathieu. Steiner tree in planar graphs: An $o(n \log n)$ approximation scheme with singly-exponential dependence on epsilon. In Frank Dehne, Jörg-Rüdiger Sack, and Norbert Zeh, editors, *Proceedings of the 10th International Workshop on Algorithms and Data Structures, WADS'2007 (Halifax, Canada, August 15-17, 2007)*, volume 4619 of *LNCS*, pages 275–286. Springer-Verlag, Berlin-Heidelberg, 2007.
- [134] Prosenjit Bose, Paz Carmi, Mathieu Couture, Michiel Smid, and Daming Xu. On a family of strong geometric spanners that admit local

- routing strategies. In Frank Dehne, Jörg-Rüdiger Sack, and Norbert Zeh, editors, *Proceedings of the 10th International Workshop on Algorithms and Data Structures, WADS'2007 (Halifax, Canada, August 15-17, 2007)*, volume 4619 of *LNCS*, pages 300–311. Springer-Verlag, Berlin-Heidelberg, 2007.
- [135] Prosenjit Bose, Aaron Lee, and Michiel Smid. On generalized diamond spanners. In Frank Dehne, Jörg-Rüdiger Sack, and Norbert Zeh, editors, *Proceedings of the 10th International Workshop on Algorithms and Data Structures, WADS'2007 (Halifax, Canada, August 15-17, 2007)*, volume 4619 of *LNCS*, pages 325–336. Springer-Verlag, Berlin-Heidelberg, 2007.
 - [136] Dragan Bošnački, Edith Elkind, Blaise Genest, and Doron Peled. On commutativity based edge lean search. In Lars Arge, Christian Cachin, Tomasz Jurdziński, and Andrzej Tarlecki, editors, *Proceedings of the 34th International Colloquium on Automata, Languages and Programming, ICALP'2007 (Wrocław, Poland, July 9-13, 2007)*, volume 4596 of *LNCS*, pages 158–170. Springer-Verlag, Berlin-Heidelberg, 2007.
 - [137] Fabiano C. Botelho, Rasmus Pagh, and Nivio Ziviani. Simple and space-efficient minimal perfect hash functions. In Frank Dehne, Jörg-Rüdiger Sack, and Norbert Zeh, editors, *Proceedings of the 10th International Workshop on Algorithms and Data Structures, WADS'2007 (Halifax, Canada, August 15-17, 2007)*, volume 4619 of *LNCS*, pages 139–150. Springer-Verlag, Berlin-Heidelberg, 2007.
 - [138] Mathilde Bouvel, Dominique Rossin, and Stéphane Vialette. Longest common separable pattern among permutations. In Bin Ma and Kaizhong Zhang, editors, *Proceedings of the 18th Annual Symposium on Combinatorial Pattern Matching, CPM'2007 (London, Canada, July 9-11, 2007)*, volume 4580 of *LNCS*, pages 316–327. Springer-Verlag, Berlin-Heidelberg, 2007.
 - [139] M. Boyer and O.H. Roux. Comparison of the expressiveness of arc, place and transition time petri nets. In Jetty Kleijn and Alex Yakovlev, editors, *Proceedings of the 28th International Conference on Applications and Theory of Petri Nets and Other Models of Concurrency, ICATPN'2007 (Siedlce, Poland, June 25-29, 2007)*, volume 4546 of *LNCS*, pages 63–82. Springer-Verlag, Berlin-Heidelberg, 2007.

- [140] Laura Bozzelli and Salvatore La Torre. Decision problems for lower/upper bound parametric timed automata. In Lars Arge, Christian Cachin, Tomasz Jurdziński, and Andrzej Tarlecki, editors, *Proceedings of the 34th International Colloquium on Automata, Languages and Programming, ICALP'2007 (Wrocław, Poland, July 9-13, 2007)*, volume 4596 of *LNCS*, pages 925–936. Springer-Verlag, Berlin-Heidelberg, 2007.
- [141] Carl Bracken, Eimear Byrne, Nadya Markin, and Gary McGuire. Determining the nonlinearity of a new family of apn functions. In Serdar Boztaş and Hsiao-Feng (Francis) Lu, editors, *Proceedings of the 17th International Symposium on Applied Algebra, Algebraic Algorithms and Error-Correcting Codes, AAECC'2007 (Bangalore, India, December 16-20, 2007)*, volume 4851 of *LNCS*, pages 72–79. Springer-Verlag, Berlin-Heidelberg, 2007.
- [142] U. Brandes, C. Erten, J. Fowler, F. Frati, M. Geyer, C. Gutwenger, S. Hong, M. Kaufmann, S.G. Kobourov, G. Liotta, P. Mutzel, and A. Symvonis. Colored simultaneous geometric embeddings. In Guohui Lin, editor, *Proceedings of the 13th Annual International Conference on Computing and Combinatorics, COCOON'2007 (Banff, Canada, July 16-19, 2007)*, volume 4598 of *LNCS*, pages 254–263. Springer-Verlag, Berlin-Heidelberg, 2007.
- [143] Ulrik Brandes, Daniel Delling, Marco Gaertler, Robert Görke, Martin Hoefer, Zoran Nikoloski, and Dorothea Wagner. On finding graph clusterings with maximum modularity. In Andreas Brandstädt, Dieter Kratsch, and Haiko Müller, editors, *Proceedings of the 33rd International Workshop on Graph-Theoretic Concepts in Computer Science, WG'2007 (Dornburg, Germany, June 21-23, 2007)*, volume 4769 of *LNCS*, pages 121–132. Springer-Verlag, Berlin-Heidelberg, 2007.
- [144] Ulrik Brandes and Christian Pich. Eigensolver methods for progressive multidimensional scaling of large data. In Michael Kaufmann and Dorothea Wagner, editors, *Proceedings of the 14th International Symposium on Graph Drawing, GD'2006 (Karlsruhe, Germany, September 18-20, 2006)*, volume 4372 of *LNCS*, pages 42–53. Springer-Verlag, Berlin-Heidelberg, 2007.

- [145] Ulrik Brandes and Barbara Schlieper. Angle and distance constraints on tree drawings. In Michael Kaufmann and Dorothea Wagner, editors, *Proceedings of the 14th International Symposium on Graph Drawing, GD'2006 (Karlsruhe, Germany, September 18-20, 2006)*, volume 4372 of *LNCS*, pages 54–65. Springer-Verlag, Berlin-Heidelberg, 2007.
- [146] Andreas Brandstädt and Peter Wagner. On (k, l) -leaf powers. In Luděk Kučera and Antonín Kučera, editors, *Proceedings of the 32nd International Symposium on Mathematical Foundations of Computer Science, MFCS'2007 (Český Krumlov, Czech Republic, August 26-31, 2007)*, volume 4708 of *LNCS*, pages 525–535. Springer-Verlag, Berlin-Heidelberg, 2007.
- [147] Felix Brandt, Felix Fischer, and Markus Holzer. Symmetries and the complexity of pure nash equilibrium. In Wolfgang Thomas and Pascal Weil, editors, *Proceedings of the 24th Annual Symposium on Theoretical Aspects of Computer Science, STACS'2007 (Aachen, Germany, February 22-24, 2007)*, volume 4393 of *LNCS*, pages 212–223. Springer-Verlag, Berlin-Heidelberg, 2007.
- [148] Maria Bras-Amorós and Michael E. O'Sullivan. Extended norm-trace codes with optimized correction capability. In Serdar Boztaş and Hsiao-Feng (Francis) Lu, editors, *Proceedings of the 17th International Symposium on Applied Algebra, Algebraic Algorithms and Error-Correcting Codes, AAECC'2007 (Bangalore, India, December 16-20, 2007)*, volume 4851 of *LNCS*, pages 337–346. Springer-Verlag, Berlin-Heidelberg, 2007.
- [149] Peter Brass, Kyue D. Kim, Hyeyon-Suk Na, and Chan-Su Shin. Escaping off-line searchers and a discrete isoperimetric theorem. In Takeshi Tokuyama, editor, *Proceedings of the 18th International Symposium on Algorithms and Computation, ISAAC'2007 (Sendai, Japan December 17-19, 2007)*, volume 4835 of *LNCS*, pages 65–74. Springer-Verlag, Berlin-Heidelberg, 2007.
- [150] Janina Brenner and Guido Schäfer. Cost sharing methods for makespan and completion time scheduling. In Wolfgang Thomas and Pascal Weil, editors, *Proceedings of the 24th Annual Symposium on Theoretical Aspects of Computer Science, STACS'2007 (Aachen, Germany, February*

22-24, 2007), volume 4393 of *LNCS*, pages 670–681. Springer-Verlag, Berlin-Heidelberg, 2007.

- [151] Davide Bresolin, Angelo Montanari, and Pietro Sala. An optimal tableau-based decision algorithm for propositional neighborhood logic. In Wolfgang Thomas and Pascal Weil, editors, *Proceedings of the 24th Annual Symposium on Theoretical Aspects of Computer Science, STACS'2007 (Aachen, Germany, February 22-24, 2007)*, volume 4393 of *LNCS*, pages 549–560. Springer-Verlag, Berlin-Heidelberg, 2007.
- [152] Mathieu Brévilliers, Nicolas Chevallier, and Dominique Schmitt. Triangulations of line segment sets in the plane. In V. Arvind and Sanjiva Prasad, editors, *Proceedings of the 27th International Conference on Foundations of Software Technology and Theoretical Computer Science, FSTTCS'2007 (New Delhi, India, December 12-14, 2007)*, volume 4855 of *LNCS*, pages 388–399. Springer-Verlag, Berlin-Heidelberg, 2007.
- [153] Thomas Brihaye, Thomas A. Henzinger, Vinayak S. Prabhu, and Jean-François Raskin. Minimum-time reachability in timed games. In Lars Arge, Christian Cachin, Tomasz Jurdziński, and Andrzej Tarlecki, editors, *Proceedings of the 34th International Colloquium on Automata, Languages and Programming, ICALP'2007 (Wrocław, Poland, July 9-13, 2007)*, volume 4596 of *LNCS*, pages 825–837. Springer-Verlag, Berlin-Heidelberg, 2007.
- [154] Gerth Stølting Brodal, Rolf Fagerberg, Irene Finocchi, Fabrizio Grandoni, Giuseppe F. Italiano, Allan Grønlund Jørgensen, Gabriel Moruz, and Thomas Mølhave. Optimal resilient dynamic dictionaries. In Lars Arge, Michael Hoffmann, and Emo Welzl, editors, *Proceedings of the 15th Annual European Symposium on Algorithms, ESA '2007 (Eilat, Israel, October 8-10, 2007)*, volume 4698 of *LNCS*, pages 347–358. Springer-Verlag, Berlin-Heidelberg, 2007.
- [155] Gerth Stølting Brodal, Loukas Georgiadis, Kristoffer Arnsfelt Hansen, and Irit Katriel. Dynamic matchings in convex bipartite graphs. In Luděk Kučera and Antonín Kučera, editors, *Proceedings of the 32nd International Symposium on Mathematical Foundations of Computer Science, MFCS'2007 (Český Krumlov, Czech Republic, August 26-31, 2007)*, volume 4708 of *LNCS*, pages 406–417. Springer-Verlag, Berlin-Heidelberg, 2007.

- [156] Gerth Stølting Brodal and Allan Grønlund Jørgensen. A linear time algorithm for the k maximal sums problem. In Luděk Kučera and Antonín Kučera, editors, *Proceedings of the 32nd International Symposium on Mathematical Foundations of Computer Science, MFCS'2007 (Český Krumlov, Czech Republic, August 26-31, 2007)*, volume 4708 of *LNCS*, pages 442–453. Springer-Verlag, Berlin-Heidelberg, 2007.
- [157] Niv Buchbinder, Kamal Jain, and Joseph (Seffi) Naor. Online primal-dual algorithms for maximizing ad-auctions revenue. In Lars Arge, Michael Hoffmann, and Emo Welzl, editors, *Proceedings of the 15th Annual European Symposium on Algorithms, ESA'2007 (Eilat, Israel, October 8-10, 2007)*, volume 4698 of *LNCS*, pages 253–264. Springer-Verlag, Berlin-Heidelberg, 2007.
- [158] Kevin Buchin, Christian Knauer, Klaus Kriegel, André Schulz, and Raimund Seidel. On the number of cycles in planar graphs. In Guohui Lin, editor, *Proceedings of the 13th Annual International Conference on Computing and Combinatorics, COCOON'2007 (Banff, Canada, July 16-19, 2007)*, volume 4598 of *LNCS*, pages 97–107. Springer-Verlag, Berlin-Heidelberg, 2007.
- [159] Binh-Minh Bui-Xuan, Michel Habib, Vincent Limouzy, and Fabien de Montgolfier. Unifying two graph decompositions with modular decomposition. In Takeshi Tokuyama, editor, *Proceedings of the 18th International Symposium on Algorithms and Computation, ISAAC'2007 (Sendai, Japan December 17-19, 2007)*, volume 4835 of *LNCS*, pages 52–64. Springer-Verlag, Berlin-Heidelberg, 2007.
- [160] Chiranjeeb Buragohain, Subhash Suri, Csaba D. Tóth, and Yunhong Zhou. Improved throughput bounds for interference-aware routing in wireless networks. In Guohui Lin, editor, *Proceedings of the 13th Annual International Conference on Computing and Combinatorics, COCOON'2007 (Banff, Canada, July 16-19, 2007)*, volume 4598 of *LNCS*, pages 210–221. Springer-Verlag, Berlin-Heidelberg, 2007.
- [161] Peter Bürgisser. On defining integers in the counting hierarchy and proving arithmetic circuit lower bounds. In Wolfgang Thomas and Pascal Weil, editors, *Proceedings of the 24th Annual Symposium on*

Theoretical Aspects of Computer Science, STACS'2007 (Aachen, Germany, February 22-24, 2007), volume 4393 of *LNCS*, pages 133–144. Springer-Verlag, Berlin-Heidelberg, 2007.

- [162] Peter Bürgisser and Felipe Cucker. Exotic quantifiers, complexity classes, and complete problems. In Lars Arge, Christian Cachin, Tomasz Jurdziński, and Andrzej Tarlecki, editors, *Proceedings of the 34th International Colloquium on Automata, Languages and Programming, ICALP'2007 (Wrocław, Poland, July 9-13, 2007)*, volume 4596 of *LNCS*, pages 207–218. Springer-Verlag, Berlin-Heidelberg, 2007.
- [163] Luciana S. Buriol, Gereon Frahling, Stefano Leonardi, and Christian Sohler. Estimating clustering indexes in data streams. In Lars Arge, Michael Hoffmann, and Emo Welzl, editors, *Proceedings of the 15th Annual European Symposium on Algorithms, ESA'2007 (Eilat, Israel, October 8-10, 2007)*, volume 4698 of *LNCS*, pages 618–632. Springer-Verlag, Berlin-Heidelberg, 2007.
- [164] Sergiu Bursuc, Hubert Comon-Lundh, and Stéphanie Delaune. Associative-commutative deducibility constraints. In Wolfgang Thomas and Pascal Weil, editors, *Proceedings of the 24th Annual Symposium on Theoretical Aspects of Computer Science, STACS'2007 (Aachen, Germany, February 22-24, 2007)*, volume 4393 of *LNCS*, pages 634–645. Springer-Verlag, Berlin-Heidelberg, 2007.
- [165] Arthur H. Busch and Garth Isaak. Recognizing bipartite tolerance graphs in linear time. In Andreas Brandstädt, Dieter Kratsch, and Haiko Müller, editors, *Proceedings of the 33rd International Workshop on Graph-Theoretic Concepts in Computer Science, WG'2007 (Dornburg, Germany, June 21-23, 2007)*, volume 4769 of *LNCS*, pages 12–20. Springer-Verlag, Berlin-Heidelberg, 2007.
- [166] Costas Busch and Srikanta Tirthapura. A deterministic algorithm for summarizing asynchronous streams over a sliding window. In Wolfgang Thomas and Pascal Weil, editors, *Proceedings of the 24th Annual Symposium on Theoretical Aspects of Computer Science, STACS'2007 (Aachen, Germany, February 22-24, 2007)*, volume 4393 of *LNCS*, pages 465–476. Springer-Verlag, Berlin-Heidelberg, 2007.

- [167] Jin-Yi Cai and Pinyan Lu. Holographic algorithms: The power of dimensionality resolved. In Lars Arge, Christian Cachin, Tomasz Jurzkiński, and Andrzej Tarlecki, editors, *Proceedings of the 34th International Colloquium on Automata, Languages and Programming, ICALP'2007 (Wrocław, Poland, July 9-13, 2007)*, volume 4596 of *LNCS*, pages 631–642. Springer-Verlag, Berlin-Heidelberg, 2007.
- [168] Jin-Yi Cai and Pinyan Lu. On symmetric signatures in holographic algorithms. In Wolfgang Thomas and Pascal Weil, editors, *Proceedings of the 24th Annual Symposium on Theoretical Aspects of Computer Science, STACS'2007 (Aachen, Germany, February 22-24, 2007)*, volume 4393 of *LNCS*, pages 429–440. Springer-Verlag, Berlin-Heidelberg, 2007.
- [169] Gruia Calinescu, Chandra Chekuri, Martin Pál, and Jan Vondrák. Maximizing a submodular set function subject to a matroid constraint. In Matteo Fischetti and David P. Williamson, editors, *Proceedings of the 12th International Conference on Integer Programming and Combinatorial Optimization, IPCO'2007 (Ithaka, NY, USA, June 25-27, 2007)*, volume 4513 of *LNCS*, pages 182–196. Springer-Verlag, Berlin-Heidelberg, 2007.
- [170] Justin Cappos, Alejandro Estrella-Balderrama, J. Joseph Fowler, and Stephen G. Kobourov. Simultaneous graph embedding with bends and circular arcs. In Michael Kaufmann and Dorothea Wagner, editors, *Proceedings of the 14th International Symposium on Graph Drawing, GD'2006 (Karlsruhe, Germany, September 18-20, 2006)*, volume 4372 of *LNCS*, pages 95–107. Springer-Verlag, Berlin-Heidelberg, 2007.
- [171] Ioannis Caragiannis. Wavelength management in wdm rings to maximize the number of connections. In Wolfgang Thomas and Pascal Weil, editors, *Proceedings of the 24th Annual Symposium on Theoretical Aspects of Computer Science, STACS'2007 (Aachen, Germany, February 22-24, 2007)*, volume 4393 of *LNCS*, pages 61–72. Springer-Verlag, Berlin-Heidelberg, 2007.
- [172] Ioannis Caragiannis, Michele Flammini, and Luca Moscardelli. An exponential improvement on the mst heuristic for minimum energy broadcasting in ad hoc wireless networks. In Lars Arge, Christian Cachin,

Tomasz Jurdziński, and Andrzej Tarlecki, editors, *Proceedings of the 34th International Colloquium on Automata, Languages and Programming, ICALP'2007 (Wrocław, Poland, July 9-13, 2007)*, volume 4596 of *LNCS*, pages 447–458. Springer-Verlag, Berlin-Heidelberg, 2007.

- [173] Jean Cardinal, Erik D. Demaine, Samuel Fiorini, Gwenaël Joret, Stefan Langerman, Ilan Newman, and Oren Weimann. The stackelberg minimum spanning tree game. In Frank Dehne, Jörg-Rüdiger Sack, and Norbert Zeh, editors, *Proceedings of the 10th International Workshop on Algorithms and Data Structures, WADS'2007 (Halifax, Canada, August 15-17, 2007)*, volume 4619 of *LNCS*, pages 64–76. Springer-Verlag, Berlin-Heidelberg, 2007.
- [174] Josiah Carlson and David Eppstein. Trees with convex faces and optimal angles. In Michael Kaufmann and Dorothea Wagner, editors, *Proceedings of the 14th International Symposium on Graph Drawing, GD'2006 (Karlsruhe, Germany, September 18-20, 2006)*, volume 4372 of *LNCS*, pages 77–88. Springer-Verlag, Berlin-Heidelberg, 2007.
- [175] Paz Carmi, Matthew J. Katz, and Nissan Lev-Tov. Covering points by unit disks of fixed location. In Takeshi Tokuyama, editor, *Proceedings of the 18th International Symposium on Algorithms and Computation, ISAAC'2007 (Sendai, Japan December 17-19, 2007)*, volume 4835 of *LNCS*, pages 644–655. Springer-Verlag, Berlin-Heidelberg, 2007.
- [176] Rodolfo Carvajal, Martín Matamala, Ivan Rapaport, and Nicolas Schabanel. Small alliances in graphs. In Luděk Kučera and Antonín Kučera, editors, *Proceedings of the 32nd International Symposium on Mathematical Foundations of Computer Science, MFCS'2007 (Český Krumlov, Czech Republic, August 26-31, 2007)*, volume 4708 of *LNCS*, pages 218–227. Springer-Verlag, Berlin-Heidelberg, 2007.
- [177] Matthew Cary, Atri Rudra, and Ashish Sabharwal. Paper retraction: On the hardness of embeddings between two finite metrics. In Lars Arge, Christian Cachin, Tomasz Jurdziński, and Andrzej Tarlecki, editors, *Proceedings of the 34th International Colloquium on Automata, Languages and Programming, ICALP'2007 (Wrocław, Poland, July 9-13, 2007)*, volume 4596 of *LNCS*, pages 949–949. Springer-Verlag, Berlin-Heidelberg, 2007.

- [178] John Case and Samuel E. Moelius III. Properties complementary to program self-reference. In Luděk Kučera and Antonín Kučera, editors, *Proceedings of the 32nd International Symposium on Mathematical Foundations of Computer Science, MFCS'2007 (Český Krumloch, Czech Republic, August 26-31, 2007)*, volume 4708 of *LNCS*, pages 253–263. Springer-Verlag, Berlin-Heidelberg, 2007.
- [179] Luis Cereceda, Jan van den Heuvel, and Matthew Johnson. Mixing 3-colourings in bipartite graphs. In Andreas Brandstädt, Dieter Kratsch, and Haiko Müller, editors, *Proceedings of the 33rd International Workshop on Graph-Theoretic Concepts in Computer Science, WG'2007 (Dornburg, Germany, June 21-23, 2007)*, volume 4769 of *LNCS*, pages 166–177. Springer-Verlag, Berlin-Heidelberg, 2007.
- [180] Julien Cervelle and Pierre Guillon. Towards a rice theorem on traces of cellular automata. In Luděk Kučera and Antonín Kučera, editors, *Proceedings of the 32nd International Symposium on Mathematical Foundations of Computer Science, MFCS'2007 (Český Krumloch, Czech Republic, August 26-31, 2007)*, volume 4708 of *LNCS*, pages 310–319. Springer-Verlag, Berlin-Heidelberg, 2007.
- [181] Amit Chakrabarti and Anna Shubina. Nearly private information retrieval. In Luděk Kučera and Antonín Kučera, editors, *Proceedings of the 32nd International Symposium on Mathematical Foundations of Computer Science, MFCS'2007 (Český Krumloch, Czech Republic, August 26-31, 2007)*, volume 4708 of *LNCS*, pages 383–393. Springer-Verlag, Berlin-Heidelberg, 2007.
- [182] Pierre Chambart and Philippe Schnoebelen. Post embedding problem is not primitive recursive, with applications to channel systems. In V. Arvind and Sanjiva Prasad, editors, *Proceedings of the 27th International Conference on Foundations of Software Technology and Theoretical Computer Science, FSTTCS'2007 (New Delhi, India, December 12-14, 2007)*, volume 4855 of *LNCS*, pages 265–276. Springer-Verlag, Berlin-Heidelberg, 2007.
- [183] Chi-Yuan Chan, Hung-I Yu, Wing-Kai Hon, and Biing-Feng Wang. A faster query algorithm for the text fingerprinting problem. In Lars Arge, Michael Hoffmann, and Emo Welzl, editors, *Proceedings of the*

15th Annual European Symposium on Algorithms, ESA'2007 (Eilat, Israel, October 8-10, 2007), volume 4698 of *LNCS*, pages 123–135. Springer-Verlag, Berlin-Heidelberg, 2007.

- [184] Nishanth Chandran, Jens Groth, and Amit Sahai. Ring signatures of sub-linear size without random oracles. In Lars Arge, Christian Cachin, Tomasz Jurdziński, and Andrzej Tarlecki, editors, *Proceedings of the 34th International Colloquium on Automata, Languages and Programming, ICALP'2007 (Wrocław, Poland, July 9-13, 2007)*, volume 4596 of *LNCS*, pages 423–434. Springer-Verlag, Berlin-Heidelberg, 2007.
- [185] Ching-Lueh Chang and Yuh-Dauh Lyuu. Efficient testing of forecasts. In Guohui Lin, editor, *Proceedings of the 13th Annual International Conference on Computing and Combinatorics, COCOON'2007 (Banff, Canada, July 16-19, 2007)*, volume 4598 of *LNCS*, pages 285–295. Springer-Verlag, Berlin-Heidelberg, 2007.
- [186] Maw-Shang Chang and Ming-Tat Ko. The 3-steiner root problem. In Andreas Brandstädt, Dieter Kratsch, and Haiko Müller, editors, *Proceedings of the 33rd International Workshop on Graph-Theoretic Concepts in Computer Science, WG'2007 (Dornburg, Germany, June 21-23, 2007)*, volume 4769 of *LNCS*, pages 109–120. Springer-Verlag, Berlin-Heidelberg, 2007.
- [187] Irène Charon, Gérard Cohen, Olivier Hudry, and Antoine Lobstein. Links between discriminating and identifying codes in the binary hamming space. In Serdar Boztaş and Hsiao-Feng (Francis) Lu, editors, *Proceedings of the 17th International Symposium on Applied Algebra, Algebraic Algorithms and Error-Correcting Codes, AAECC'2007 (Bangalore, India, December 16-20, 2007)*, volume 4851 of *LNCS*, pages 267–270. Springer-Verlag, Berlin-Heidelberg, 2007.
- [188] Krishnendu Chatterjee. Markov decision processes with multiple long-run average objectives. In V. Arvind and Sanjiva Prasad, editors, *Proceedings of the 27th International Conference on Foundations of Software Technology and Theoretical Computer Science, FSTTCS'2007 (New Delhi, India, December 12-14, 2007)*, volume 4855 of *LNCS*, pages 473–484. Springer-Verlag, Berlin-Heidelberg, 2007.

- [189] Krishnendu Chatterjee. Stochastic müller games are pspace-complete. In V. Arvind and Sanjiva Prasad, editors, *Proceedings of the 27th International Conference on Foundations of Software Technology and Theoretical Computer Science, FSTTCS'2007 (New Delhi, India, December 12-14, 2007)*, volume 4855 of *LNCS*, pages 436–448. Springer-Verlag, Berlin-Heidelberg, 2007.
- [190] Arkadev Chatopadhyay, Andreas Krebs, Michal Koucký, Mario Szegedy, Pascal Tesson, and Denis Thérien. Languages with bounded multiparty communication complexity. In Wolfgang Thomas and Pascal Weil, editors, *Proceedings of the 24th Annual Symposium on Theoretical Aspects of Computer Science, STACS'2007 (Aachen, Germany, February 22-24, 2007)*, volume 4393 of *LNCS*, pages 500–511. Springer-Verlag, Berlin-Heidelberg, 2007.
- [191] Amitabh Chaudhary, Danny Z. Chen, Rudolf Fleischer, Xiaobo S. Hu, Jian Li, Michael T. Niemier, Zhiyi Xie, and Hong Zhu. Approximating the maximum sharing problem. In Frank Dehne, Jörg-Rüdiger Sack, and Norbert Zeh, editors, *Proceedings of the 10th International Workshop on Algorithms and Data Structures, WADS'2007 (Halifax, Canada, August 15-17, 2007)*, volume 4619 of *LNCS*, pages 52–63. Springer-Verlag, Berlin-Heidelberg, 2007.
- [192] Bernard Chazelle. Ushering in a new era of algorithm design. In Lars Arge, Christian Cachin, Tomasz Jurdziński, and Andrzej Tarlecki, editors, *Proceedings of the 34th International Colloquium on Automata, Languages and Programming, ICALP'2007 (Wrocław, Poland, July 9-13, 2007)*, volume 4596 of *LNCS*, pages 1–1. Springer-Verlag, Berlin-Heidelberg, 2007.
- [193] Changbo Chen, Oleg Golubitsky, François Lemaire, Marc Maza, and Wei Pan. Comprehensive triangular decomposition. In Victor G. Ganzha, Ernst W. Mayr, and Evgenii V. Vorozhtsov, editors, *Proceedings of the 10th International Workshop on Computer Algebra in Scientific Computing, CASC'2007 (Bonn, Germany, September 16-20, 2007)*, volume 4770 of *LNCS*, pages 73–101. Springer-Verlag, Berlin-Heidelberg, 2007.
- [194] Danny Z. Chen, Mark A. Healy, Chao Wang, and Xiaodong Wu. A new field splitting algorithm for intensity-modulated radiation ther-

- apy. In Guohui Lin, editor, *Proceedings of the 13th Annual International Conference on Computing and Combinatorics, COCOON'2007 (Banff, Canada, July 16-19, 2007)*, volume 4598 of *LNCS*, pages 4–15. Springer-Verlag, Berlin-Heidelberg, 2007.
- [195] Danny Z. Chen and Ewa Misiołek. Finding many optimal paths without growing any optimal path trees. In Guohui Lin, editor, *Proceedings of the 13th Annual International Conference on Computing and Combinatorics, COCOON'2007 (Banff, Canada, July 16-19, 2007)*, volume 4598 of *LNCS*, pages 232–242. Springer-Verlag, Berlin-Heidelberg, 2007.
- [196] Eric Y. Chen. Geometric streaming algorithms with a sorting primitive. In Takeshi Tokuyama, editor, *Proceedings of the 18th International Symposium on Algorithms and Computation, ISAAC'2007 (Sendai, Japan December 17-19, 2007)*, volume 4835 of *LNCS*, pages 512–524. Springer-Verlag, Berlin-Heidelberg, 2007.
- [197] Gang Chen, Simon J. Puglisi, and W.F. Smyth. Fast and practical algorithms for computing all the runs in a string. In Bin Ma and Kaizhong Zhang, editors, *Proceedings of the 18th Annual Symposium on Combinatorial Pattern Matching, CPM'2007 (London, Canada, July 9-11, 2007)*, volume 4580 of *LNCS*, pages 307–315. Springer-Verlag, Berlin-Heidelberg, 2007.
- [198] Jianer Chen, Fedor V. Fomin, Yang Liu, Songjian Lu, and Yngve Vil-langer. Improved algorithms for the feedback vertex set problems. In Frank Dehne, Jörg-Rüdiger Sack, and Norbert Zeh, editors, *Proceedings of the 10th International Workshop on Algorithms and Data Structures, WADS'2007 (Halifax, Canada, August 15-17, 2007)*, volume 4619 of *LNCS*, pages 422–433. Springer-Verlag, Berlin-Heidelberg, 2007.
- [199] Jianer Chen, Yang Liu, and Songjian Lu. An improved parameterized algorithm for the minimum node multiway cut problem. In Frank Dehne, Jörg-Rüdiger Sack, and Norbert Zeh, editors, *Proceedings of the 10th International Workshop on Algorithms and Data Structures, WADS'2007 (Halifax, Canada, August 15-17, 2007)*, volume 4619 of *LNCS*, pages 495–506. Springer-Verlag, Berlin-Heidelberg, 2007.

- [200] Jianer Chen and Songjian Lu. Improved algorithms for weighted and unweighted set splitting problems. In Guohui Lin, editor, *Proceedings of the 13th Annual International Conference on Computing and Combinatorics, COCOON'2007 (Banff, Canada, July 16-19, 2007)*, volume 4598 of *LNCS*, pages 537–547. Springer-Verlag, Berlin-Heidelberg, 2007.
- [201] Jiang Chen and Ke Yi. Dynamic structures for top- k queries on uncertain data. In Takeshi Tokuyama, editor, *Proceedings of the 18th International Symposium on Algorithms and Computation, ISAAC'2007 (Sendai, Japan December 17-19, 2007)*, volume 4835 of *LNCS*, pages 427–438. Springer-Verlag, Berlin-Heidelberg, 2007.
- [202] Shihyen Chen and Kaizhong Zhang. An improved algorithm for tree edit distance incorporating structural linearity. In Guohui Lin, editor, *Proceedings of the 13th Annual International Conference on Computing and Combinatorics, COCOON'2007 (Banff, Canada, July 16-19, 2007)*, volume 4598 of *LNCS*, pages 482–492. Springer-Verlag, Berlin-Heidelberg, 2007.
- [203] Zhixiang Chen, Bin Fu, Jinhui Xu, Boting Yang, Zhiyu Zhao, and Binhai Zhu. Non-breaking similarity of genomes with gene repetitions. In Bin Ma and Kaizhong Zhang, editors, *Proceedings of the 18th Annual Symposium on Combinatorial Pattern Matching, CPM'2007 (London, Canada, July 9-11, 2007)*, volume 4580 of *LNCS*, pages 119–130. Springer-Verlag, Berlin-Heidelberg, 2007.
- [204] Otfried Cheong, Hazel Everett, Marc Glisse, Joachim Gudmundsson, Samuel Hornus, Sylvain Lazard, Mira Lee, and Heyeon-Suk Na. Farthest-polygon voronoi diagrams. In Lars Arge, Michael Hoffmann, and Emo Welzl, editors, *Proceedings of the 15th Annual European Symposium on Algorithms, ESA'2007 (Eilat, Israel, October 8-10, 2007)*, volume 4698 of *LNCS*, pages 407–418. Springer-Verlag, Berlin-Heidelberg, 2007.
- [205] Patrick Chervet and Igor Walukiewicz. Minimizing variants of visibly pushdown automata. In Luděk Kučera and Antonín Kučera, editors, *Proceedings of the 32nd International Symposium on Mathematical Foundations of Computer Science, MFCS'2007 (Český Krumloch,*

Czech Republic, August 26-31, 2007), volume 4708 of *LNCS*, pages 135–146. Springer-Verlag, Berlin-Heidelberg, 2007.

- [206] Yannick Chevalier and Mounira Kourjeh. Key substitution in the symbolic analysis of cryptographic protocols. In V. Arvind and Sanjiva Prasad, editors, *Proceedings of the 27th International Conference on Foundations of Software Technology and Theoretical Computer Science, FSTTCS'2007 (New Delhi, India, December 12-14, 2007)*, volume 4855 of *LNCS*, pages 121–132. Springer-Verlag, Berlin-Heidelberg, 2007.
- [207] Dmytro Chibisov, Victor Ganzha, Ernst W. Mayr, and Evgenii V. Vorozhtsov. Stability investigation of a difference scheme for incompressible navier-stokes equations. In Victor G. Ganzha, Ernst W. Mayr, and Evgenii V. Vorozhtsov, editors, *Proceedings of the 10th International Workshop on Computer Algebra in Scientific Computing, CASC'2007 (Bonn, Germany, September 16-20, 2007)*, volume 4770 of *LNCS*, pages 102–117. Springer-Verlag, Berlin-Heidelberg, 2007.
- [208] Andrew Childs, Aram W. Harrow, and Paweł Wocjan. Weak fourier-schur sampling, the hidden subgroup problem, and the quantum collision problem. In Wolfgang Thomas and Pascal Weil, editors, *Proceedings of the 24th Annual Symposium on Theoretical Aspects of Computer Science, STACS'2007 (Aachen, Germany, February 22-24, 2007)*, volume 4393 of *LNCS*, pages 598–609. Springer-Verlag, Berlin-Heidelberg, 2007.
- [209] Markus Chimani and Carsten Gutwenger. Algorithms for the hypergraph and the minor crossing number problems. In Takeshi Tokuyama, editor, *Proceedings of the 18th International Symposium on Algorithms and Computation, ISAAC'2007 (Sendai, Japan December 17-19, 2007)*, volume 4835 of *LNCS*, pages 184–195. Springer-Verlag, Berlin-Heidelberg, 2007.
- [210] Markus Chimani, Maria Kandyba, and Petra Mutzel. A new ilp formulation for 2-root-connected prize-collecting steiner networks. In Lars Arge, Michael Hoffmann, and Emo Welzl, editors, *Proceedings of the 15th Annual European Symposium on Algorithms, ESA'2007 (Eilat, Israel, October 8-10, 2007)*, volume 4698 of *LNCS*, pages 681–692. Springer-Verlag, Berlin-Heidelberg, 2007.

- [211] Francis Y.L. Chin. Online frequency assignment in wireless communication networks. In Guohui Lin, editor, *Proceedings of the 13th Annual International Conference on Computing and Combinatorics, COCOON'2007 (Banff, Canada, July 16-19, 2007)*, volume 4598 of *LNCS*, pages 2–2. Springer-Verlag, Berlin-Heidelberg, 2007.
- [212] Francis Y.L. Chin, Yong Zhang, and Hong Zhu. A 1-local 13/9-competitive algorithm for multicoloring hexagonal graphs. In Guohui Lin, editor, *Proceedings of the 13th Annual International Conference on Computing and Combinatorics, COCOON'2007 (Banff, Canada, July 16-19, 2007)*, volume 4598 of *LNCS*, pages 526–536. Springer-Verlag, Berlin-Heidelberg, 2007.
- [213] F.Y.L. Chin, H.F. Ting, and Y. Zhang. A constant-competitive algorithm for online ovsf code assignment. In Takeshi Tokuyama, editor, *Proceedings of the 18th International Symposium on Algorithms and Computation, ISAAC'2007 (Sendai, Japan December 17-19, 2007)*, volume 4835 of *LNCS*, pages 452–463. Springer-Verlag, Berlin-Heidelberg, 2007.
- [214] Benny Chor, Michael Fellows, Mark A. Ragan, Igor Razgon, Frances Rosamond, and Sagi Snir. Connected coloring completion for general graphs: Algorithms and complexity. In Guohui Lin, editor, *Proceedings of the 13th Annual International Conference on Computing and Combinatorics, COCOON'2007 (Banff, Canada, July 16-19, 2007)*, volume 4598 of *LNCS*, pages 75–85. Springer-Verlag, Berlin-Heidelberg, 2007.
- [215] George Christodoulou, Laurent Gourvès, and Fanny Pascual. Scheduling selfish tasks: About the performance of truthful algorithms. In Guohui Lin, editor, *Proceedings of the 13th Annual International Conference on Computing and Combinatorics, COCOON'2007 (Banff, Canada, July 16-19, 2007)*, volume 4598 of *LNCS*, pages 187–197. Springer-Verlag, Berlin-Heidelberg, 2007.
- [216] George Christodoulou, Elias Koutsoupias, and Annamária Kovács. Mechanism design for fractional scheduling on unrelated machines. In Lars Arge, Christian Cachin, Tomasz Jurdziński, and Andrzej Tarlecki, editors, *Proceedings of the 34th International Colloquium on Automata, Languages and Programming, ICALP'2007 (Wrocław, Poland,*

July 9-13, 2007), volume 4596 of *LNCS*, pages 40–52. Springer-Verlag, Berlin-Heidelberg, 2007.

- [217] Matthew Chu, Sampath Kannan, and Andrew McGregor. Checking and spot-checking the correctness of priority queues. In Lars Arge, Christian Cachin, Tomasz Jurdziński, and Andrzej Tarlecki, editors, *Proceedings of the 34th International Colloquium on Automata, Languages and Programming, ICALP'2007 (Wrocław, Poland, July 9-13, 2007)*, volume 4596 of *LNCS*, pages 728–739. Springer-Verlag, Berlin-Heidelberg, 2007.
- [218] Ochbadrakh Chuluunbaatar, Alexander Gusev, Vladimir Gerdt, Michail Kaschiev, Vitaly Rostovtsev, Valentin Samoilov, Tatyana Tupikova, and Sergue Vinitsky. A symbolic-numerical algorithm for solving the eigenvalue problem for a hydrogen atom in the magnetic field: Cylindrical coordinates. In Victor G. Ganzha, Ernst W. Mayr, and Evgenii V. Vorozhtsov, editors, *Proceedings of the 10th International Workshop on Computer Algebra in Scientific Computing, CASC'2007 (Bonn, Germany, September 16-20, 2007)*, volume 4770 of *LNCS*, pages 118–133. Springer-Verlag, Berlin-Heidelberg, 2007.
- [219] Vašek Chvátal. How to be fickle. In Luděk Kučera and Antonín Kučera, editors, *Proceedings of the 32nd International Symposium on Mathematical Foundations of Computer Science, MFCS'2007 (Český Krumlov, Czech Republic, August 26-31, 2007)*, volume 4708 of *LNCS*, pages 1–1. Springer-Verlag, Berlin-Heidelberg, 2007.
- [220] Gianfranco Ciardo, Gerald Lüttgen, and Andy Jinqing Yu. Improving static variable orders via invariants. In Jetty Kleijn and Alex Yakovlev, editors, *Proceedings of the 28th International Conference on Applications and Theory of Petri Nets and Other Models of Concurrency, ICATPN'2007 (Siedlce, Poland, June 25-29, 2007)*, volume 4546 of *LNCS*, pages 83–103. Springer-Verlag, Berlin-Heidelberg, 2007.
- [221] Ferdinando Cicalese and José Amgarten Quitzau. 2-stage fault tolerant interval group testing. In Takeshi Tokuyama, editor, *Proceedings of the 18th International Symposium on Algorithms and Computation, ISAAC'2007 (Sendai, Japan December 17-19, 2007)*, volume 4835 of *LNCS*, pages 858–868. Springer-Verlag, Berlin-Heidelberg, 2007.

- [222] Ali Çivril, Malik Magdon-Ismail, and Eli Bocek-Rivele. Ssde: Fast graph drawing using sampled spectral distance embedding. In Michael Kaufmann and Dorothea Wagner, editors, *Proceedings of the 14th International Symposium on Graph Drawing, GD'2006 (Karlsruhe, Germany, September 18-20, 2006)*, volume 4372 of *LNCS*, pages 30–41. Springer-Verlag, Berlin-Heidelberg, 2007.
- [223] Andrea E.F. Clementi, Angelo Monti, Francesco Pasquale, and Riccardo Silvestri. Optimal gossiping in directed geometric radio networks in presence of dynamical faults. In Luděk Kučera and Antonín Kučera, editors, *Proceedings of the 32nd International Symposium on Mathematical Foundations of Computer Science, MFCS'2007 (Český Krumlov, Czech Republic, August 26-31, 2007)*, volume 4708 of *LNCS*, pages 430–441. Springer-Verlag, Berlin-Heidelberg, 2007.
- [224] Peter Clifford and Raphaël Clifford. Self-normalised distance with don't cares. In Bin Ma and Kaizhong Zhang, editors, *Proceedings of the 18th Annual Symposium on Combinatorial Pattern Matching, CPM'2007 (London, Canada, July 9-11, 2007)*, volume 4580 of *LNCS*, pages 63–70. Springer-Verlag, Berlin-Heidelberg, 2007.
- [225] Raphaël Clifford, Klim Efremenko, Ely Porat, and Amir Rothschild. k -mismatch with don't cares. In Lars Arge, Michael Hoffmann, and Emo Welzl, editors, *Proceedings of the 15th Annual European Symposium on Algorithms, ESA'2007 (Eilat, Israel, October 8-10, 2007)*, volume 4698 of *LNCS*, pages 151–162. Springer-Verlag, Berlin-Heidelberg, 2007.
- [226] Amin Coja-Oghlan, Michael Krivelevich, and Dan Vilenchik. Why almost all k -colorable graphs are easy. In Wolfgang Thomas and Pascal Weil, editors, *Proceedings of the 24th Annual Symposium on Theoretical Aspects of Computer Science, STACS'2007 (Aachen, Germany, February 22-24, 2007)*, volume 4393 of *LNCS*, pages 121–132. Springer-Verlag, Berlin-Heidelberg, 2007.
- [227] Amin Coja-Oghlan, Konstantinos Panagiotou, and Angelika Steger. On the chromatic number of random graphs. In Lars Arge, Christian Cachin, Tomasz Jurdziński, and Andrzej Tarlecki, editors, *Proceedings of the 34th International Colloquium on Automata, Languages and*

Programming, ICALP'2007 (Wrocław, Poland, July 9-13, 2007), volume 4596 of *LNCS*, pages 777–788. Springer-Verlag, Berlin-Heidelberg, 2007.

- [228] Thomas Colcombet. A combinatorial theorem for trees — applications to monadic logic and infinite structures. In Lars Arge, Christian Cachin, Tomasz Jurdziński, and Andrzej Tarlecki, editors, *Proceedings of the 34th International Colloquium on Automata, Languages and Programming, ICALP'2007 (Wrocław, Poland, July 9-13, 2007)*, volume 4596 of *LNCS*, pages 901–912. Springer-Verlag, Berlin-Heidelberg, 2007.
- [229] Michele Conforti, Marco Di Summa, and Laurence A. Wolsey. The intersection of continuous mixing polyhedra and the continuous mixing polyhedron with flows. In Matteo Fischetti and David P. Williamson, editors, *Proceedings of the 12th International Conference on Integer Programming and Combinatorial Optimization, IPCO'2007 (Ithaka, NY, USA, June 25-27, 2007)*, volume 4513 of *LNCS*, pages 352–366. Springer-Verlag, Berlin-Heidelberg, 2007.
- [230] Michele Conforti, Bert Gerards, and Giacomo Zambelli. Mixed-integer vertex covers on bipartite graphs. In Matteo Fischetti and David P. Williamson, editors, *Proceedings of the 12th International Conference on Integer Programming and Combinatorial Optimization, IPCO'2007 (Ithaka, NY, USA, June 25-27, 2007)*, volume 4513 of *LNCS*, pages 324–336. Springer-Verlag, Berlin-Heidelberg, 2007.
- [231] Véronique Cortier, Jérémie Delaitre, and Stéphanie Delaune. Safely composing security protocols. In V. Arvind and Sanjiva Prasad, editors, *Proceedings of the 27th International Conference on Foundations of Software Technology and Theoretical Computer Science, FSTTCS'2007 (New Delhi, India, December 12-14, 2007)*, volume 4855 of *LNCS*, pages 352–363. Springer-Verlag, Berlin-Heidelberg, 2007.
- [232] Judicaël Courant, Cristian Ene, and Yassine Lakhnech. Computationally sound typing for non-interference: The case of deterministic encryption. In V. Arvind and Sanjiva Prasad, editors, *Proceedings of the 27th International Conference on Foundations of Software Technology and Theoretical Computer Science, FSTTCS'2007 (New Delhi,*

India, December 12-14, 2007), volume 4855 of *LNCS*, pages 364–375. Springer-Verlag, Berlin-Heidelberg, 2007.

- [233] Bruno Courcelle and Mamadou Moustapha Kanté. Graph operations characterizing rank-width and balanced graph expressions. In Andreas Brandstädt, Dieter Kratsch, and Haiko Müller, editors, *Proceedings of the 33rd International Workshop on Graph-Theoretic Concepts in Computer Science, WG'2007 (Dornburg, Germany, June 21-23, 2007)*, volume 4769 of *LNCS*, pages 66–75. Springer-Verlag, Berlin-Heidelberg, 2007.
- [234] Bruno Courcelle and Andrew Twigg. Compact forbidden-set routing. In Wolfgang Thomas and Pascal Weil, editors, *Proceedings of the 24th Annual Symposium on Theoretical Aspects of Computer Science, STACS'2007 (Aachen, Germany, February 22-24, 2007)*, volume 4393 of *LNCS*, pages 37–48. Springer-Verlag, Berlin-Heidelberg, 2007.
- [235] Maxime Crochemore and Lucian Ilie. Analysis of maximal repetitions in strings. In Luděk Kučera and Antonín Kučera, editors, *Proceedings of the 32nd International Symposium on Mathematical Foundations of Computer Science, MFCS'2007 (Český Krumloch, Czech Republic, August 26-31, 2007)*, volume 4708 of *LNCS*, pages 465–476. Springer-Verlag, Berlin-Heidelberg, 2007.
- [236] Maxime Crochemore, Costas S. Iliopoulos, and M. Sohel Rahman. Finding patterns in given intervals. In Luděk Kučera and Antonín Kučera, editors, *Proceedings of the 32nd International Symposium on Mathematical Foundations of Computer Science, MFCS'2007 (Český Krumloch, Czech Republic, August 26-31, 2007)*, volume 4708 of *LNCS*, pages 645–656. Springer-Verlag, Berlin-Heidelberg, 2007.
- [237] William H. Cunningham and Jim Geelen. On integer programming and the branch-width of the constraint matrix. In Matteo Fischetti and David P. Williamson, editors, *Proceedings of the 12th International Conference on Integer Programming and Combinatorial Optimization, IPCO'2007 (Ithaka, NY, USA, June 25-27, 2007)*, volume 4513 of *LNCS*, pages 158–166. Springer-Verlag, Berlin-Heidelberg, 2007.
- [238] Artur Czumaj and Christian Sohler. Small space representations for metric min-sum k -clustering and their applications. In Wolfgang

- Thomas and Pascal Weil, editors, *Proceedings of the 24th Annual Symposium on Theoretical Aspects of Computer Science, STACS'2007 (Aachen, Germany, February 22-24, 2007)*, volume 4393 of *LNCS*, pages 536–548. Springer-Verlag, Berlin-Heidelberg, 2007.
- [239] Artur Czumaj and Xin Wang. Fast message dissemination in random geometric ad-hoc radio networks. In Takeshi Tokuyama, editor, *Proceedings of the 18th International Symposium on Algorithms and Computation, ISAAC'2007 (Sendai, Japan December 17-19, 2007)*, volume 4835 of *LNCS*, pages 220–231. Springer-Verlag, Berlin-Heidelberg, 2007.
 - [240] A. Czygrinow and M. Hańkowiak. Distributed approximation algorithms for weighted problems in minor-closed families. In Guohui Lin, editor, *Proceedings of the 13th Annual International Conference on Computing and Combinatorics, COCOON'2007 (Banff, Canada, July 16-19, 2007)*, volume 4598 of *LNCS*, pages 515–525. Springer-Verlag, Berlin-Heidelberg, 2007.
 - [241] Peter Damaschke. Segmenting strings homogeneously via trees. In Andreas Brandstädt, Dieter Kratsch, and Haiko Müller, editors, *Proceedings of the 33rd International Workshop on Graph-Theoretic Concepts in Computer Science, WG'2007 (Dornburg, Germany, June 21-23, 2007)*, volume 4769 of *LNCS*, pages 214–225. Springer-Verlag, Berlin-Heidelberg, 2007.
 - [242] Peter Damaschke. The union of minimal hitting sets: Parameterized combinatorial bounds and counting. In Wolfgang Thomas and Pascal Weil, editors, *Proceedings of the 24th Annual Symposium on Theoretical Aspects of Computer Science, STACS'2007 (Aachen, Germany, February 22-24, 2007)*, volume 4393 of *LNCS*, pages 332–343. Springer-Verlag, Berlin-Heidelberg, 2007.
 - [243] Ivan Damgård. A “proof-reading” of some issues in cryptography. In Lars Arge, Christian Cachin, Tomasz Jurdziński, and Andrzej Tarlecki, editors, *Proceedings of the 34th International Colloquium on Automata, Languages and Programming, ICALP'2007 (Wrocław, Poland, July 9-13, 2007)*, volume 4596 of *LNCS*, pages 2–11. Springer-Verlag, Berlin-Heidelberg, 2007.

- [244] Cornelia Dangelmayr and Stefan Felsner. Chordal graphs as intersection graphs of pseudosegments. In Michael Kaufmann and Dorothea Wagner, editors, *Proceedings of the 14th International Symposium on Graph Drawing, GD'2006 (Karlsruhe, Germany, September 18-20, 2006)*, volume 4372 of *LNCS*, pages 208–219. Springer-Verlag, Berlin-Heidelberg, 2007.
- [245] Emilie Danna, Mary Fenelon, Zonghao Gu, and Roland Wunderling. Generating multiple solutions for mixed integer programming problems. In Matteo Fischetti and David P. Williamson, editors, *Proceedings of the 12th International Conference on Integer Programming and Combinatorial Optimization, IPCO'2007 (Ithaka, NY, USA, June 25-27, 2007)*, volume 4513 of *LNCS*, pages 280–294. Springer-Verlag, Berlin-Heidelberg, 2007.
- [246] M. Prem Laxman Das and Kripasindhu Sikdar. On the computation of non-uniform input for list decoding on bezerra-garcia tower. In Serdar Boztaş and Hsiao-Feng (Francis) Lu, editors, *Proceedings of the 17th International Symposium on Applied Algebra, Algebraic Algorithms and Error-Correcting Codes, AAECC'2007 (Bangalore, India, December 16-20, 2007)*, volume 4851 of *LNCS*, pages 237–246. Springer-Verlag, Berlin-Heidelberg, 2007.
- [247] Sanjeeb Dash, Ricardo Fukasawa, and Oktay Günlük. On a generalization of the master cyclic group polyhedron. In Matteo Fischetti and David P. Williamson, editors, *Proceedings of the 12th International Conference on Integer Programming and Combinatorial Optimization, IPCO'2007 (Ithaka, NY, USA, June 25-27, 2007)*, volume 4513 of *LNCS*, pages 197–209. Springer-Verlag, Berlin-Heidelberg, 2007.
- [248] Sanjeeb Dash, Oktay Günlük, and Andrea Lodi. On the mir closure of polyhedra. In Matteo Fischetti and David P. Williamson, editors, *Proceedings of the 12th International Conference on Integer Programming and Combinatorial Optimization, IPCO'2007 (Ithaka, NY, USA, June 25-27, 2007)*, volume 4513 of *LNCS*, pages 337–351. Springer-Verlag, Berlin-Heidelberg, 2007.
- [249] Anuj Dawar. Finite model theory on tame classes of structures. In Luděk Kučera and Antonín Kučera, editors, *Proceedings of the 32nd*

International Symposium on Mathematical Foundations of Computer Science, MFCS'2007 (Český Krumloch, Czech Republic, August 26-31, 2007), volume 4708 of *LNCS*, pages 2–12. Springer-Verlag, Berlin-Heidelberg, 2007.

- [250] Anuj Dawar, Martin Grohe, Stephan Kreutzer, and Nicole Schweikardt. Model theory makes formulas large. In Lars Arge, Christian Cachin, Tomasz Jurdziński, and Andrzej Tarlecki, editors, *Proceedings of the 34th International Colloquium on Automata, Languages and Programming, ICALP'2007 (Wrocław, Poland, July 9-13, 2007)*, volume 4596 of *LNCS*, pages 913–924. Springer-Verlag, Berlin-Heidelberg, 2007.
- [251] Alfredo De Santis, Anna Lisa Ferrara, and Barbara Masucci. Efficient provably-secure hierarchical key assignment schemes. In Luděk Kučera and Antonín Kučera, editors, *Proceedings of the 32nd International Symposium on Mathematical Foundations of Computer Science, MFCS'2007 (Český Krumloch, Czech Republic, August 26-31, 2007)*, volume 4708 of *LNCS*, pages 371–382. Springer-Verlag, Berlin-Heidelberg, 2007.
- [252] Emilio De Santis, Fabrizio Grandoni, and Alessandro Panconesi. Fast low degree connectivity of ad-hoc networks via percolation. In Lars Arge, Michael Hoffmann, and Emo Welzl, editors, *Proceedings of the 15th Annual European Symposium on Algorithms, ESA'2007 (Eilat, Israel, October 8-10, 2007)*, volume 4698 of *LNCS*, pages 206–217. Springer-Verlag, Berlin-Heidelberg, 2007.
- [253] Nenad Dedic and Payman Mohassel. Constant-round private database queries. In Lars Arge, Christian Cachin, Tomasz Jurdziński, and Andrzej Tarlecki, editors, *Proceedings of the 34th International Colloquium on Automata, Languages and Programming, ICALP'2007 (Wrocław, Poland, July 9-13, 2007)*, volume 4596 of *LNCS*, pages 255–266. Springer-Verlag, Berlin-Heidelberg, 2007.
- [254] Martin Delacourt and Victor Poupet. Real time language recognition on 2d cellular automata: Dealing with non-convex neighborhoods. In Luděk Kučera and Antonín Kučera, editors, *Proceedings of the 32nd International Symposium on Mathematical Foundations of Computer Science, MFCS'2007 (Český Krumloch, Czech Republic, August 26-31,*

- 2007), volume 4708 of *LNCS*, pages 298–309. Springer-Verlag, Berlin-Heidelberg, 2007.
- [255] Stéphanie Delaune, Steve Kremer, and Mark Ryan. Symbolic bisimulation for the applied pi calculus. In V. Arvind and Sanjiva Prasad, editors, *Proceedings of the 27th International Conference on Foundations of Software Technology and Theoretical Computer Science, FSTTCS’2007 (New Delhi, India, December 12-14, 2007)*, volume 4855 of *LNCS*, pages 133–145. Springer-Verlag, Berlin-Heidelberg, 2007.
 - [256] Erik D. Demaine, Shay Mozes, Benjamin Rossman, and Oren Weimann. An optimal decomposition algorithm for tree edit distance. In Lars Arge, Christian Cachin, Tomasz Jurdziński, and Andrzej Tarlecki, editors, *Proceedings of the 34th International Colloquium on Automata, Languages and Programming, ICALP’2007 (Wrocław, Poland, July 9-13, 2007)*, volume 4596 of *LNCS*, pages 146–157. Springer-Verlag, Berlin-Heidelberg, 2007.
 - [257] Camil Demetrescu, Bruno Escoffier, Gabriel Moruz, and Andrea Ribičini. Adapting parallel algorithms to the w-stream model, with applications to graph problems. In Luděk Kučera and Antonín Kučera, editors, *Proceedings of the 32nd International Symposium on Mathematical Foundations of Computer Science, MFCS’2007 (Český Krumlov, Czech Republic, August 26-31, 2007)*, volume 4708 of *LNCS*, pages 194–205. Springer-Verlag, Berlin-Heidelberg, 2007.
 - [258] Xiaotie Deng, Kazuo Iwama, Qi Qi, Aries Wei Sun, and Toyotaka Tasaka. Properties of symmetric incentive compatible auctions. In Guohui Lin, editor, *Proceedings of the 13th Annual International Conference on Computing and Combinatorics, COCOON’2007 (Banff, Canada, July 16-19, 2007)*, volume 4598 of *LNCS*, pages 264–273. Springer-Verlag, Berlin-Heidelberg, 2007.
 - [259] Nachum Dershowitz and Iddo Tzameret. Complexity of propositional proofs under a promise. In Lars Arge, Christian Cachin, Tomasz Jurdziński, and Andrzej Tarlecki, editors, *Proceedings of the 34th International Colloquium on Automata, Languages and Programming, ICALP’2007 (Wrocław, Poland, July 9-13, 2007)*, volume 4596 of *LNCS*, pages 291–302. Springer-Verlag, Berlin-Heidelberg, 2007.

- [260] Jörg Derungs, Riko Jacob, and Peter Widmayer. Approximate shortest paths guided by a small index. In Frank Dehne, Jörg-Rüdiger Sack, and Norbert Zeh, editors, *Proceedings of the 10th International Workshop on Algorithms and Data Structures, WADS'2007 (Halifax, Canada, August 15-17, 2007)*, volume 4619 of *LNCS*, pages 553–564. Springer-Verlag, Berlin-Heidelberg, 2007.
- [261] Ajay Deshpande, Taejung Kim, Erik D. Demaine, and Sanjay E. Sarma. A pseudopolynomial time $o(\log n)$ -approximation algorithm for art gallery problems. In Frank Dehne, Jörg-Rüdiger Sack, and Norbert Zeh, editors, *Proceedings of the 10th International Workshop on Algorithms and Data Structures, WADS'2007 (Halifax, Canada, August 15-17, 2007)*, volume 4619 of *LNCS*, pages 163–174. Springer-Verlag, Berlin-Heidelberg, 2007.
- [262] Oliver Deussen. The algorithmic beauty of digital nature. In Michael Kaufmann and Dorothea Wagner, editors, *Proceedings of the 14th International Symposium on Graph Drawing, GD'2006 (Karlsruhe, Germany, September 18-20, 2006)*, volume 4372 of *LNCS*, pages 5–7. Springer-Verlag, Berlin-Heidelberg, 2007.
- [263] Santanu S. Dey and Jean-Philippe P. Richard. Sequential-merge facets for two-dimensional group problems. In Matteo Fischetti and David P. Williamson, editors, *Proceedings of the 12th International Conference on Integer Programming and Combinatorial Optimization, IPCO'2007 (Ithaka, NY, USA, June 25-27, 2007)*, volume 4513 of *LNCS*, pages 30–42. Springer-Verlag, Berlin-Heidelberg, 2007.
- [264] Anna Deytseva. On the representation of the differential operator in bases of periodic coiflets and it's application. In Victor G. Ganzha, Ernst W. Mayr, and Evgenii V. Vorozhtsov, editors, *Proceedings of the 10th International Workshop on Computer Algebra in Scientific Computing, CASC'2007 (Bonn, Germany, September 16-20, 2007)*, volume 4770 of *LNCS*, pages 448–457. Springer-Verlag, Berlin-Heidelberg, 2007.
- [265] Giuseppe Di Battista, Guido Drovandi, and Fabrizio Frati. How to draw a clustered tree. In Frank Dehne, Jörg-Rüdiger Sack, and Norbert Zeh, editors, *Proceedings of the 10th International Workshop on Algorithms and Data Structures, WADS'2007 (Halifax, Canada, August 15-17, 2007)*, volume 4619 of *LNCS*, pages 553–564. Springer-Verlag, Berlin-Heidelberg, 2007.

- 15-17, 2007), volume 4619 of *LNCS*, pages 89–101. Springer-Verlag, Berlin-Heidelberg, 2007.
- [266] Emilio Di Giacomo, Walter Didimo, and Giuseppe Liotta. Radial drawings of graphs: Geometric constraints and trade-offs. In Michael Kaufmann and Dorothea Wagner, editors, *Proceedings of the 14th International Symposium on Graph Drawing, GD'2006 (Karlsruhe, Germany, September 18-20, 2006)*, volume 4372 of *LNCS*, pages 355–366. Springer-Verlag, Berlin-Heidelberg, 2007.
 - [267] Emilio Di Giacomo, Walter Didimo, Giuseppe Liotta, Henk Meijer, Francesco Trotta, and Stephen K. Wismath. k -colored point-set embeddability of outerplanar graphs. In Michael Kaufmann and Dorothea Wagner, editors, *Proceedings of the 14th International Symposium on Graph Drawing, GD'2006 (Karlsruhe, Germany, September 18-20, 2006)*, volume 4372 of *LNCS*, pages 318–329. Springer-Verlag, Berlin-Heidelberg, 2007.
 - [268] Emilio Di Giacomo, Luca Grilli, and Giuseppe Liotta. Drawing bipartite graphs on two curves. In Michael Kaufmann and Dorothea Wagner, editors, *Proceedings of the 14th International Symposium on Graph Drawing, GD'2006 (Karlsruhe, Germany, September 18-20, 2006)*, volume 4372 of *LNCS*, pages 380–385. Springer-Verlag, Berlin-Heidelberg, 2007.
 - [269] Krzysztof Diks and Piotr Sankowski. Dynamic plane transitive closure. In Lars Arge, Michael Hoffmann, and Emo Welzl, editors, *Proceedings of the 15th Annual European Symposium on Algorithms, ESA'2007 (Eilat, Israel, October 8-10, 2007)*, volume 4698 of *LNCS*, pages 594–604. Springer-Verlag, Berlin-Heidelberg, 2007.
 - [270] Michael B. Dillencourt, David Eppstein, and Michael T. Goodrich. Choosing colors for geometric graphs via color space embeddings. In Michael Kaufmann and Dorothea Wagner, editors, *Proceedings of the 14th International Symposium on Graph Drawing, GD'2006 (Karlsruhe, Germany, September 18-20, 2006)*, volume 4372 of *LNCS*, pages 294–305. Springer-Verlag, Berlin-Heidelberg, 2007.
 - [271] Jihuan Ding, Tomáš Ebenlendr, Jiří Sgall, and Guochuan Zhang. Online scheduling of equal-length jobs on parallel machines. In Lars Arge,

Michael Hoffmann, and Emo Welzl, editors, *Proceedings of the 15th Annual European Symposium on Algorithms, ESA'2007 (Eilat, Israel, October 8-10, 2007)*, volume 4698 of *LNCS*, pages 427–438. Springer-Verlag, Berlin-Heidelberg, 2007.

- [272] Benjamin Doerr. Randomly rounding rationals with cardinality constraints and derandomizations. In Wolfgang Thomas and Pascal Weil, editors, *Proceedings of the 24th Annual Symposium on Theoretical Aspects of Computer Science, STACS'2007 (Aachen, Germany, February 22-24, 2007)*, volume 4393 of *LNCS*, pages 441–452. Springer-Verlag, Berlin-Heidelberg, 2007.
- [273] Frederic Dorn. How to use planarity efficiently: New tree-decomposition based algorithms. In Andreas Brandstädt, Dieter Kratsch, and Haiko Müller, editors, *Proceedings of the 33rd International Workshop on Graph-Theoretic Concepts in Computer Science, WG'2007 (Dornburg, Germany, June 21-23, 2007)*, volume 4769 of *LNCS*, pages 280–291. Springer-Verlag, Berlin-Heidelberg, 2007.
- [274] Frederic Dorn, Fedor V. Fomin, and Dimitrios M. Thilikos. Subexponential parameterized algorithms. In Lars Arge, Christian Cachin, Tomasz Jurdziński, and Andrzej Tarlecki, editors, *Proceedings of the 34th International Colloquium on Automata, Languages and Programming, ICALP'2007 (Wrocław, Poland, July 9-13, 2007)*, volume 4596 of *LNCS*, pages 15–27. Springer-Verlag, Berlin-Heidelberg, 2007.
- [275] Reza Dorrigiv, Alejandro López-Ortiz, and J. Ian Munro. On the relative dominance of paging algorithms. In Takeshi Tokuyama, editor, *Proceedings of the 18th International Symposium on Algorithms and Computation, ISAAC'2007 (Sendai, Japan December 17-19, 2007)*, volume 4835 of *LNCS*, pages 488–499. Springer-Verlag, Berlin-Heidelberg, 2007.
- [276] Jean-Eudes Duchesne, Mathieu Giraud, and Nadia El-Mabrouk. Seed-based exclusion method for non-coding rna gene search. In Guohui Lin, editor, *Proceedings of the 13th Annual International Conference on Computing and Combinatorics, COCOON'2007 (Banff, Canada, July 16-19, 2007)*, volume 4598 of *LNCS*, pages 27–39. Springer-Verlag, Berlin-Heidelberg, 2007.

- [277] William Duckworth and Michele Zito. Uncover low degree vertices and minimise the mess: Independent sets in random regular graphs. In Luděk Kučera and Antonín Kučera, editors, *Proceedings of the 32nd International Symposium on Mathematical Foundations of Computer Science, MFCS'2007 (Český Krumloch, Czech Republic, August 26-31, 2007)*, volume 4708 of *LNCS*, pages 56–66. Springer-Verlag, Berlin-Heidelberg, 2007.
- [278] Adrian Dumitrescu and Csaba D. Tóth. Distinct triangle areas in a planar point set. In Matteo Fischetti and David P. Williamson, editors, *Proceedings of the 12th International Conference on Integer Programming and Combinatorial Optimization, IPCO'2007 (Ithaka, NY, USA, June 25-27, 2007)*, volume 4513 of *LNCS*, pages 119–129. Springer-Verlag, Berlin-Heidelberg, 2007.
- [279] Adrian Dumitrescu and Csaba D. Tóth. Light orthogonal networks with constant geometric dilation. In Wolfgang Thomas and Pascal Weil, editors, *Proceedings of the 24th Annual Symposium on Theoretical Aspects of Computer Science, STACS'2007 (Aachen, Germany, February 22-24, 2007)*, volume 4393 of *LNCS*, pages 175–187. Springer-Verlag, Berlin-Heidelberg, 2007.
- [280] Christian A. Duncan, Gunnar Klau, Stephen G. Kobourov, and Georg Sander. Graph-drawing contest report. In Michael Kaufmann and Dorothea Wagner, editors, *Proceedings of the 14th International Symposium on Graph Drawing, GD'2006 (Karlsruhe, Germany, September 18-20, 2006)*, volume 4372 of *LNCS*, pages 448–452. Springer-Verlag, Berlin-Heidelberg, 2007.
- [281] Laurent Dupont, Michael Hemmer, Sylvain Petitjean, and Elmar Schömer. Complete, exact and efficient implementation for computing the adjacency graph of an arrangement of quadrics. In Lars Arge, Michael Hoffmann, and Emo Welzl, editors, *Proceedings of the 15th Annual European Symposium on Algorithms, ESA '2007 (Eilat, Israel, October 8-10, 2007)*, volume 4698 of *LNCS*, pages 633–644. Springer-Verlag, Berlin-Heidelberg, 2007.
- [282] Stephane Durocher and Christophe Paul. Kinetic maintenance of mobile k -centres on trees. In Takeshi Tokuyama, editor, *Proceedings of*

the 18th International Symposium on Algorithms and Computation, ISAAC'2007 (Sendai, Japan December 17-19, 2007), volume 4835 of *LNCS*, pages 341–352. Springer-Verlag, Berlin-Heidelberg, 2007.

- [283] Christoph Dürr and Nguyen Kim Thang. Nash equilibria in voronoi games on graphs. In Lars Arge, Michael Hoffmann, and Emo Welzl, editors, *Proceedings of the 15th Annual European Symposium on Algorithms, ESA '2007 (Eilat, Israel, October 8-10, 2007)*, volume 4698 of *LNCS*, pages 17–28. Springer-Verlag, Berlin-Heidelberg, 2007.
- [284] Zdeněk Dvořák, Daniel Král', and Robin Thomas. Coloring triangle-free graphs on surfaces. In Takeshi Tokuyama, editor, *Proceedings of the 18th International Symposium on Algorithms and Computation, ISAAC'2007 (Sendai, Japan December 17-19, 2007)*, volume 4835 of *LNCS*, pages 2–4. Springer-Verlag, Berlin-Heidelberg, 2007.
- [285] Tim Dwyer, Kim Marriott, and Peter J. Stuckey. Fast node overlap removal — correction. In Michael Kaufmann and Dorothea Wagner, editors, *Proceedings of the 14th International Symposium on Graph Drawing, GD'2006 (Karlsruhe, Germany, September 18-20, 2006)*, volume 4372 of *LNCS*, pages 446–447. Springer-Verlag, Berlin-Heidelberg, 2007.
- [286] Tim Dwyer, Kim Marriott, and Michael Wybrow. Integrating edge routing into force-directed layout. In Michael Kaufmann and Dorothea Wagner, editors, *Proceedings of the 14th International Symposium on Graph Drawing, GD'2006 (Karlsruhe, Germany, September 18-20, 2006)*, volume 4372 of *LNCS*, pages 8–19. Springer-Verlag, Berlin-Heidelberg, 2007.
- [287] Stefan Eckhardt, Andreas Michael Mühling, and Johannes Nowak. Fast lowest common ancestor computations in dags. In Lars Arge, Michael Hoffmann, and Emo Welzl, editors, *Proceedings of the 15th Annual European Symposium on Algorithms, ESA '2007 (Eilat, Israel, October 8-10, 2007)*, volume 4698 of *LNCS*, pages 705–716. Springer-Verlag, Berlin-Heidelberg, 2007.
- [288] Victor F. Edneral. An algorithm for construction of normal forms. In Victor G. Ganzha, Ernst W. Mayr, and Evgenii V. Vorozhtsov, editors,

Proceedings of the 10th International Workshop on Computer Algebra in Scientific Computing, CASC'2007 (Bonn, Germany, September 16-20, 2007), volume 4770 of *LNCS*, pages 134–142. Springer-Verlag, Berlin-Heidelberg, 2007.

- [289] Hartmut Ehrig, Kathrin Hoffmann, Julia Padberg, Ulrike Prange, and Claudia Ermel. Independence of net transformations and token firing in reconfigurable place/transition systems. In Jetty Kleijn and Alex Yakovlev, editors, *Proceedings of the 28th International Conference on Applications and Theory of Petri Nets and Other Models of Concurrency, ICATPN'2007 (Siedlce, Poland, June 25-29, 2007)*, volume 4546 of *LNCS*, pages 104–123. Springer-Verlag, Berlin-Heidelberg, 2007.
- [290] Raphael Eidenbenz, Yvonne Anne Oswald, Stefan Schmid, and Roger Wattenhofer. Manipulation in games. In Takeshi Tokuyama, editor, *Proceedings of the 18th International Symposium on Algorithms and Computation, ISAAC'2007 (Sendai, Japan December 17-19, 2007)*, volume 4835 of *LNCS*, pages 365–376. Springer-Verlag, Berlin-Heidelberg, 2007.
- [291] Khaled Elbassioni, René Sitters, and Yan Zhang. A quasi-ptas for profit-maximizing pricing on line graphs. In Lars Arge, Michael Hoffmann, and Emo Welzl, editors, *Proceedings of the 15th Annual European Symposium on Algorithms, ESA'2007 (Eilat, Israel, October 8-10, 2007)*, volume 4698 of *LNCS*, pages 451–462. Springer-Verlag, Berlin-Heidelberg, 2007.
- [292] Michael Elkin. Streaming and fully dynamic centralized algorithms for constructing and maintaining sparse spanners. In Lars Arge, Christian Cachin, Tomasz Jurdziński, and Andrzej Tarlecki, editors, *Proceedings of the 34th International Colloquium on Automata, Languages and Programming, ICALP'2007 (Wrocław, Poland, July 9-13, 2007)*, volume 4596 of *LNCS*, pages 716–727. Springer-Verlag, Berlin-Heidelberg, 2007.
- [293] Robert Elsässer and Thomas Sauerwald. Broadcasting vs. mixing and information dissemination on cayley graphs. In Wolfgang Thomas and Pascal Weil, editors, *Proceedings of the 24th Annual Symposium on*

Theoretical Aspects of Computer Science, STACS'2007 (Aachen, Germany, February 22-24, 2007), volume 4393 of *LNCS*, pages 163–174. Springer-Verlag, Berlin-Heidelberg, 2007.

- [294] P. Embury and A. Rao. A path to hadamard matrices. In Serdar Boztaş and Hsiao-Feng (Francis) Lu, editors, *Proceedings of the 17th International Symposium on Applied Algebra, Algebraic Algorithms and Error-Correcting Codes, AAECC'2007 (Bangalore, India, December 16-20, 2007)*, volume 4851 of *LNCS*, pages 281–290. Springer-Verlag, Berlin-Heidelberg, 2007.
- [295] David Eppstein. *st*-planar learning spaces. In Michael Kaufmann and Dorothea Wagner, editors, *Proceedings of the 14th International Symposium on Graph Drawing, GD'2006 (Karlsruhe, Germany, September 18-20, 2006)*, volume 4372 of *LNCS*, pages 282–293. Springer-Verlag, Berlin-Heidelberg, 2007.
- [296] David Eppstein and Michael T. Goodrich. Space-efficient straggler identification in round-trip data streams via newton's identities and invertible bloom filters. In Frank Dehne, Jörg-Rüdiger Sack, and Norbert Zeh, editors, *Proceedings of the 10th International Workshop on Algorithms and Data Structures, WADS'2007 (Halifax, Canada, August 15-17, 2007)*, volume 4619 of *LNCS*, pages 637–648. Springer-Verlag, Berlin-Heidelberg, 2007.
- [297] David Eppstein, Marc van Kreveld, Elena Mumford, and Bettina Speckmann. Edges and switches, tunnels and bridges. In Frank Dehne, Jörg-Rüdiger Sack, and Norbert Zeh, editors, *Proceedings of the 10th International Workshop on Algorithms and Data Structures, WADS'2007 (Halifax, Canada, August 15-17, 2007)*, volume 4619 of *LNCS*, pages 77–88. Springer-Verlag, Berlin-Heidelberg, 2007.
- [298] Leah Epstein and Rob van Stee. Improved results for a memory allocation problem. In Frank Dehne, Jörg-Rüdiger Sack, and Norbert Zeh, editors, *Proceedings of the 10th International Workshop on Algorithms and Data Structures, WADS'2007 (Halifax, Canada, August 15-17, 2007)*, volume 4619 of *LNCS*, pages 362–373. Springer-Verlag, Berlin-Heidelberg, 2007.

- [299] Jeff Erickson. Finding small holes: A brief foray into computational topology. In Frank Dehne, Jörg-Rüdiger Sack, and Norbert Zeh, editors, *Proceedings of the 10th International Workshop on Algorithms and Data Structures, WADS'2007 (Halifax, Canada, August 15-17, 2007)*, volume 4619 of *LNCS*, pages 1–1. Springer-Verlag, Berlin-Heidelberg, 2007.
- [300] Bruno Escoffier, Laurent Gourvès, and Jérôme Monnot. Complexity and approximation results for the connected vertex cover problem. In Andreas Brandstädt, Dieter Kratsch, and Haiko Müller, editors, *Proceedings of the 33rd International Workshop on Graph-Theoretic Concepts in Computer Science, WG'2007 (Dornburg, Germany, June 21-23, 2007)*, volume 4769 of *LNCS*, pages 202–213. Springer-Verlag, Berlin-Heidelberg, 2007.