References

[1] Mohamed Ibrahim Abouelhoda and Enno Ohlebusch. Multiple genome alignment: Chaining algorithms revisited. In Ricardo Baeza-Yates, Edgar Chávez, and Maxime Crochmeore, editors, *Proceedings of the 14th Annual Symposium on Combinatorial Pattern Matching, CPM'2003 (Morelia, Michoacán, Mexico, June 25-27, 2003)*, volume 2676 of *LNCS*, pages 1–16. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[2] David J. Abraham, Robert W. Irving, and David F. Manlove. The student-project allocation problem. In Toshihide Ibaraki, Naoki Katoh, and Hirotaka Ono, editors, *Proceedings of the 14th International Symposium on Algorithms and Computation, ISAAC'2003 (Kyoto, Japan, December 15-17, 2003)*, volume 2906 of *LNCS*, pages 474–484. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[3] Faisal N. Abu-Khzam and Michael A. Langston. Graph coloring and the immersion order. In Tandy Warnow and Binhai Zhu, editors, *Proceedings of the 9th Annual International Conference on Computing and Combinatorics, COCOON'2003 (Big Sky, MT, USA, July 25-28, 2003)*, volume 2697 of *LNCS*, pages 394–403. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[4] Joep Aerts, Jan Korst, and Frits Spieksma. Approximation of a retrieval problem for parallel disks. In Rossella Petreschi, Giuseppe Persiano, and Riccardo Silvestri, editors, *Proceedings of the 5th Italian Conference of Algorithms and Complexity, CIAC'2003 (Rome, Italy, May 28-30, 2003)*, volume 2653 of *LNCS*, pages 178–188. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[5] Pankaj K. Agarwal, Lars Arge, Jun Yang, and Ke Yi. I/o-efficient structures for orthogonal range-max and stabbing-max queries. In Giuseppe Di Battista and Uri Zwick, editors, *Proceedings of the 11th Annual European Symposium on Algorithms, ESA'2003 (Budapest, Hungary, September 16-19, 2003)*, volume 2832 of *LNCS*, pages 7–18. Springer-

Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[6] Pankaj K. Agarwal, Shankar Krishnan, Nabil H. Mustafa, and Suresh Venkatasubramanian. Streaming geometric optimization using graphics hardware. In Giuseppe Di Battista and Uri Zwick, editors, *Proceedings of the 11th Annual European Symposium on Algorithms, ESA'2003 (Budapest, Hungary, September 16-19, 2003)*, volume 2832 of *LNCS*, pages 544–555. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[7] Alexander Ageev, Yinyu Ye, and Jiawei Zhang. Improved combinatorial approximation algorithms for the k-level facility location problem. In Jos C.M. Baeten, Jan Karel Lenstra, Joachim Parrow, and Gerhard J. Woeginger, editors, *Proceedings of the 30th International Colloquium on Automata, Languages and Programming, ICALP'2003 (Eindhoven, The Netherlands, June 30 - July 4, 2003)*, volume 2719 of *LNCS*, pages 145–156. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[8] Oswin Aichholzer, Franz Aurenhammer, and Hannes Krasser. Adapting (pseudo)-triangulations with a near-linear number of edge flips. In Frank Dehne, Jörg-Rüdiger Sack, and Michiel Smid, editors, *Proceedings of the 8th International Workshop on Algorithms and Data Structures, WADS'2003 (ottawa, Ontario, Canada, July 30 - August 1, 2003)*, volume 2748 of *LNCS*, pages 12–24. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[9] Oswin Aichholzer, Günter Rote, Bettina Speckmann, and Ileana Streinu. The zigzag path of a pseudo-triangulation. In Frank Dehne, Jörg-Rüdiger Sack, and Michiel Smid, editors, *Proceedings of the 8th International Workshop on Algorithms and Data Structures, WADS'2003 (ottawa, Ontario, Canada, July 30 - August 1, 2003)*, volume 2748 of *LNCS*, pages 377–388. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[10] M. Ajmone Marsan, M. Garetto, R. Lo Cigno, and M. Meo. Colored gspn models for the qos design of internet subnets. In Wil van der Aalst and Eike Best, editors, *Proceedings of the 24th International Conference on Applications and Theory of Petri Nets,*

ICATPN'2003 (Eindhoven, The Netherlands, June 23-27, 2003), volume 2679 of *LNCS*, pages 36–36. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[11] Ali Al-Shabibi, Didier Buchs, Mathieu Buffo, Stanislav Chachkov, Ang Chen, and David Hurzeler. Prototyping object oriented specifications. In Wil van der Aalst and Eike Best, editors, *Proceedings of the 24th International Conference on Applications and Theory of Petri Nets, ICATPN'2003 (Eindhoven, The Netherlands, June 23-27, 2003)*, volume 2679 of *LNCS*, pages 473–482. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[12] Susanne Albers and Markus Büttner. Integrated prefetching and caching with read and write requests. In Frank Dehne, Jörg-Rüdiger Sack, and Michiel Smid, editors, *Proceedings of the 8th International Workshop on Algorithms and Data Structures, WADS'2003 (ottawa, Ontario, Canada, July 30 - August 1, 2003)*, volume 2748 of *LNCS*, pages 162–173. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[13] Susanne Albers and Rob van Stee. A study of integrated document and connection caching. In Jos C.M. Baeten, Jan Karel Lenstra, Joachim Parrow, and Gerhard J. Woeginger, editors, *Proceedings of the 30th International Colloquium on Automata, Languages and Programming, ICALP'2003 (Eindhoven, The Netherlands, June 30 - July 4, 2003)*, volume 2719 of *LNCS*, pages 653–667. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[14] Mansoor Alicherry and Randeep Bhatia. Line system design and a generalized coloring problem. In Giuseppe Di Battista and Uri Zwick, editors, *Proceedings of the 11th Annual European Symposium on Algorithms, ESA'2003 (Budapest, Hungary, September 16-19, 2003)*, volume 2832 of *LNCS*, pages 19–30. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[15] Tom Altman, Yoshihide Igarashi, and Michiko Omori. A turn function scheme realized in the asynchronous single-writer/multi-reader shared memory model. In Toshihide Ibaraki, Naoki Katoh, and Hirotaka Ono, editors, *Proceedings of the 14th International Symposium*

on Algorithms and Computation, ISAAC'2003 (Kyoto, Japan, December 15-17, 2003), volume 2906 of *LNCS*, pages 454–463. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[16] C. Àlvarez, M. Blesa, J. Díaz, A. Fernández, and M. Serna. Adversarial models for priority-based networks. In Branislav Rovan and Peter Vojtáš, editors, *Proceedings of the 28th International Symposium on Mathematical Foundations of Computer Science, MFCS'2003 (Bratislava, Slovakia, August 25-29, 2003)*, volume 2747 of *LNCS*, pages 142–151. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[17] Kazuyuki Amano and Akira Maruoka. On optimal merging networks. In Branislav Rovan and Peter Vojtáš, editors, *Proceedings of the 28th International Symposium on Mathematical Foundations of Computer Science, MFCS'2003 (Bratislava, Slovakia, August 25-29, 2003)*, volume 2747 of *LNCS*, pages 152–161. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[18] Kazuyuki Amano and Akira Maruoka. Some properties of mod_m circuits computing simple functions. In Rossella Petreschi, Giuseppe Persiano, and Riccardo Silvestri, editors, *Proceedings of the 5th Italian Conference of Algorithms and Complexity, CIAC'2003 (Rome, Italy, May 28-30, 2003)*, volume 2653 of *LNCS*, pages 227–237. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[19] Klaus Ambos-Spies. Problems which cannot be reduced to any proper subproblems. In Branislav Rovan and Peter Vojtáš, editors, *Proceedings of the 28th International Symposium on Mathematical Foundations of Computer Science, MFCS'2003 (Bratislava, Slovakia, August 25-29, 2003)*, volume 2747 of *LNCS*, pages 162–168. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[20] Amihood Amir, Yonatan Aumann, Richard Cole, Moshe Lewenstein, and Ely Porat. Function matching: Algorithms, applications, and a lower bound. In Jos C.M. Baeten, Jan Karel Lenstra, Joachim Parrow, and Gerhard J. Woeginger, editors, *Proceedings of the*

30th International Colloquium on Automata, Languages and Programming, ICALP'2003 (Eindhoven, The Netherlands, June 30 - July 4, 2003), volume 2719 of *LNCS*, pages 929–942. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[21] Amihood Amir, Ayelet Butman, Maxime Crochemore, Gad M. Landau, and Malka Schaps. Two-dimensional pattern matching with rotations. In Ricardo Baeza-Yates, Edgar Chávez, and Maxime Crochmeore, editors, *Proceedings of the 14th Annual Symposium on Combinatorial Pattern Matching, CPM'2003 (Morelia, Michoacán, Mexico, June 25-27, 2003)*, volume 2676 of *LNCS*, pages 17–31. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[22] Amihood Amir, Ayelet Butman, Moshe Lewenstein, and Ely Porat. Real two dimensional scaled matching. In Frank Dehne, Jörg-Rüdiger Sack, and Michiel Smid, editors, *Proceedings of the 8th International Workshop on Algorithms and Data Structures, WADS'2003 (ottawa, Ontario, Canada, July 30 - August 1, 2003)*, volume 2748 of *LNCS*, pages 353–364. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[23] Amihood Amir, Gad M. Landau, Moshe Lewenstein, and Dina Sokol. Dynamic text and static pattern matching. In Frank Dehne, Jörg-Rüdiger Sack, and Michiel Smid, editors, *Proceedings of the 8th International Workshop on Algorithms and Data Structures, WADS'2003 (ottawa, Ontario, Canada, July 30 - August 1, 2003)*, volume 2748 of *LNCS*, pages 340–352. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[24] R. Saiand Thomas Erlebach Anand. Routing and call control algorithms for ring networks. In Frank Dehne, Jörg-Rüdiger Sack, and Michiel Smid, editors, *Proceedings of the 8th International Workshop on Algorithms and Data Structures, WADS'2003 (ottawa, Ontario, Canada, July 30 - August 1, 2003)*, volume 2748 of *LNCS*, pages 186–197. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[25] Siva Anantharaman, Paliath Narendran, and Michael Rusinowitch. Acid-unification is nexptime-decidable. In Branislav Rovan and Pe-

ter Vojtáš, editors, *Proceedings of the 28th International Symposium on Mathematical Foundations of Computer Science, MFCS'2003 (Bratislava, Slovakia, August 25-29, 2003)*, volume 2747 of *LNCS*, pages 169–178. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[26] Davide Ancona, Sonia Fagorzi, Eugenio Moggi, and Elena Zucca. Mixin modules and computational effects. In Jos C.M. Baeten, Jan Karel Lenstra, Joachim Parrow, and Gerhard J. Woeginger, editors, *Proceedings of the 30th International Colloquium on Automata, Languages and Programming, ICALP'2003 (Eindhoven, The Netherlands, June 30 - July 4, 2003)*, volume 2719 of *LNCS*, pages 224–238. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[27] Mattias Andersson, Joachim Gudmundsson, and Christos Levcopoulos. Chips on wafers. In Frank Dehne, Jörg-Rüdiger Sack, and Michiel Smid, editors, *Proceedings of the 8th International Workshop on Algorithms and Data Structures, WADS'2003 (ottawa, Ontario, Canada, July 30 - August 1, 2003)*, volume 2748 of *LNCS*, pages 412–423. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[28] Luís Antunes and Lance Fortnow. Sophistication revisited. In Jos C.M. Baeten, Jan Karel Lenstra, Joachim Parrow, and Gerhard J. Woeginger, editors, *Proceedings of the 30th International Colloquium on Automata, Languages and Programming, ICALP'2003 (Eindhoven, The Netherlands, June 30 - July 4, 2003)*, volume 2719 of *LNCS*, pages 267–277. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[29] Claudio Arbib, Michele Flammini, and Fabrizio Marinelli. Minimum flow time graph ordering. In Hans L. Bodlaender, editor, *Proceedings of the 29th International Workshop on Graph-Theoretic Concepts in Computer Science, WG'2003 (Elspeet, The Netherlands, June 19-21, 2003)*, volume 2880 of *LNCS*, pages 23–33. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[30] Aaron Archer, Ranjithkumar Rajagopalan, and David B. Shmoys. Lagrangian relaxation for the k-median problem: New insights and con-

tinuity properties. In Giuseppe Di Battista and Uri Zwick, editors, *Proceedings of the 11th Annual European Symposium on Algorithms, ESA'2003 (Budapest, Hungary, September 16-19, 2003)*, volume 2832 of *LNCS*, pages 31–42. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[31] Zena M. Ariola and Hugo Herbelin. Minimal classical logic and control operators. In Jos C.M. Baeten, Jan Karel Lenstra, Joachim Parrow, and Gerhard J. Woeginger, editors, *Proceedings of the 30th International Colloquium on Automata, Languages and Programming, ICALP'2003 (Eindhoven, The Netherlands, June 30 - July 4, 2003)*, volume 2719 of *LNCS*, pages 871–885. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[32] Sanjeev Arora and Kevin L. Chang. Approximation schemes for degree-restricted mst and red-blue separation problem. In Jos C.M. Baeten, Jan Karel Lenstra, Joachim Parrow, and Gerhard J. Woeginger, editors, *Proceedings of the 30th International Colloquium on Automata, Languages and Programming, ICALP'2003 (Eindhoven, The Netherlands, June 30 - July 4, 2003)*, volume 2719 of *LNCS*, pages 176–188. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[33] V. Arvind and Piyush P. Kurur. Upper bounds on the complexity of some galois theory problems. In Toshihide Ibaraki, Naoki Katoh, and Hirotaka Ono, editors, *Proceedings of the 14th International Symposium on Algorithms and Computation, ISAAC'2003 (Kyoto, Japan, December 15-17, 2003)*, volume 2906 of *LNCS*, pages 716–725. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[34] V. Arvind and Rainer Schuler. The quantum query complexity of 0-1 knapsack and associated claw problems. In Toshihide Ibaraki, Naoki Katoh, and Hirotaka Ono, editors, *Proceedings of the 14th International Symposium on Algorithms and Computation, ISAAC'2003 (Kyoto, Japan, December 15-17, 2003)*, volume 2906 of *LNCS*, pages 168–177. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[35] Tetsuo Asano, Naoki Katoh, Hisao Tamaki, and Takeshi Tokuyama. The structure and number of global roundings of a graph. In Tandy Warnow and Binhai Zhu, editors, *Proceedings of the 9th Annual International Conference on Computing and Combinatorics, COCOON'2003 (Big Sky, MT, USA, July 25-28, 2003)*, volume 2697 of *LNCS*, pages 130–138. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[36] G. Ausiello, C. Bazgan, M. Demange, and V.Th. Paschos. Completeness in differential approximation classes. In Branislav Rovan and Peter Vojtáš, editors, *Proceedings of the 28th International Symposium on Mathematical Foundations of Computer Science, MFCS'2003 (Bratislava, Slovakia, August 25-29, 2003)*, volume 2747 of *LNCS*, pages 179–188. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[37] Baruch Awerbuch, André Brinkmann, and Christian Scheideler. Anycasting in adversarial systems: Routing and admission control. In Jos C.M. Baeten, Jan Karel Lenstra, Joachim Parrow, and Gerhard J. Woeginger, editors, *Proceedings of the 30th International Colloquium on Automata, Languages and Programming, ICALP'2003 (Eindhoven, The Netherlands, June 30 - July 4, 2003)*, volume 2719 of *LNCS*, pages 1153–1168. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[38] Kensuke Baba, Satoshi Tsuruta, Ayumi Shinohara, and Masayuki Takeda. On the length of the minimum solution of word equations in one variable. In Branislav Rovan and Peter Vojtáš, editors, *Proceedings of the 28th International Symposium on Mathematical Foundations of Computer Science, MFCS'2003 (Bratislava, Slovakia, August 25-29, 2003)*, volume 2747 of *LNCS*, pages 189–197. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[39] Michael Backes and Christian Jacobi. Cryptographically sound and machine-assisted verification of security protocols. In Helmut Alt and Michel Habib, editors, *Proceedings of the 20th Annual Symposium on Theoretical Aspects of Computer Science, STACS'2003 (Berlin, Germany, February 27 - March 1, 2003)*, volume 2607 of *LNCS*, pages

675–686. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[40] Michael Backes and Birgit Pfitzmann. A cryptographically sound security proof of the needham-schroeder-lowe public-key protocol. In Paritosh K. Pandya and Jaikumar Radhakrishnan, editors, *Proceedings of the 23rd Conference on Foundations of Software Technology and Theoretical Computer Science, FSTTCS'2003 (Mumbai, India, December 15-17, 2003)*, volume 2914 of *LNCS*, pages 1–12. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[41] Eric Badouel and Jules Chenou. Nets enriched over closed monoidal structures. In Wil van der Aalst and Eike Best, editors, *Proceedings of the 24th International Conference on Applications and Theory of Petri Nets, ICATPN'2003 (Eindhoven, The Netherlands, June 23-27, 2003)*, volume 2679 of *LNCS*, pages 64–81. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[42] Andreas Baltz, Gerold Jäger, and Anand Srivastav. Constructions of sparse asymmetric connectors. In Paritosh K. Pandya and Jaikumar Radhakrishnan, editors, *Proceedings of the 23rd Conference on Foundations of Software Technology and Theoretical Computer Science, FSTTCS'2003 (Mumbai, India, December 15-17, 2003)*, volume 2914 of *LNCS*, pages 13–22. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[43] Andreas Baltz and Anand Srivastav. Fast approximation of minimum multicast congestion - implementation versus theory. In Rossella Petreschi, Giuseppe Persiano, and Riccardo Silvestri, editors, *Proceedings of the 5th Italian Conference of Algorithms and Complexity, CIAC'2003 (Rome, Italy, May 28-30, 2003)*, volume 2653 of *LNCS*, pages 165–177. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[44] Yih-En Andrew Ban, Sergei Bespamyatnikh, and Nabil H. Mustafa. On a conjecture on wiener indices in combinatorial chemistry. In Tandy Warnow and Binhai Zhu, editors, *Proceedings of the 9th Annual International Conference on Computing and Combinatorics, COCOON'2003 (Big Sky, MT, USA, July 25-28, 2003)*, volume 2697 of

LNCS, pages 509–518. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[45] Cyril Banderier, René Beier, and Kurt Mehlhorn. Smoothed analysis of three combinatorial problems. In Branislav Rovan and Peter Vojtáš, editors, *Proceedings of the 28th International Symposium on Mathematical Foundations of Computer Science, MFCS'2003 (Bratislava, Slovakia, August 25-29, 2003)*, volume 2747 of *LNCS*, pages 198–207. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[46] Hideo Bannai, Shunsuke Inenaga, Ayumi Shinohara, and Masayuki Takeda. Inferring strings from graphs and arrays. In Branislav Rovan and Peter Vojtáš, editors, *Proceedings of the 28th International Symposium on Mathematical Foundations of Computer Science, MFCS'2003 (Bratislava, Slovakia, August 25-29, 2003)*, volume 2747 of *LNCS*, pages 208–217. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[47] N. Bansal, K. Dhamdhere, J. Könemann, and A. Sinha. Non-clairvoyant scheduling for minimizing mean slowdown. In Helmut Alt and Michel Habib, editors, *Proceedings of the 20th Annual Symposium on Theoretical Aspects of Computer Science, STACS'2003 (Berlin, Germany, February 27 - March 1, 2003)*, volume 2607 of *LNCS*, pages 260–270. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[48] Nikhil Bansal, Avrim Blum, Shuchi Chawla, and Kedar Dhamdhere. Scheduling for flow-time with admission control. In Giuseppe Di Battista and Uri Zwick, editors, *Proceedings of the 11th Annual European Symposium on Algorithms, ESA'2003 (Budapest, Hungary, September 16-19, 2003)*, volume 2832 of *LNCS*, pages 43–54. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[49] Vipul Bansal, Aseem Agrawal, and Varun S. Malhotra. Stable marriages with multiple partners: Efficient search for an optimal solution. In Jos C.M. Baeten, Jan Karel Lenstra, Joachim Parrow, and Gerhard J. Woeginger, editors, *Proceedings of the 30th International*

Colloquium on Automata, Languages and Programming, ICALP'2003 (Eindhoven, The Netherlands, June 30 - July 4, 2003), volume 2719 of *LNCS*, pages 527–542. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[50] Reuven Bar-Yehuda, Guy Even, and Shimon (Moni) Shahar. On approximating a geometric prize-collecting traveling salesman problem with time windows. In Giuseppe Di Battista and Uri Zwick, editors, *Proceedings of the 11th Annual European Symposium on Algorithms, ESA'2003 (Budapest, Hungary, September 16-19, 2003)*, volume 2832 of *LNCS*, pages 55–66. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[51] Jérémy Barbay and Claire Kenyon. Deterministic algorithm for the t-threshold set problem. In Toshihide Ibaraki, Naoki Katoh, and Hirotaka Ono, editors, *Proceedings of the 14th International Symposium on Algorithms and Computation, ISAAC'2003 (Kyoto, Japan, December 15-17, 2003)*, volume 2906 of *LNCS*, pages 575–584. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[52] Gill Barequet, Michael T. Goodrich, and Chris Riley. Drawing graphs with large vertices and thick edges. In Frank Dehne, Jörg-Rüdiger Sack, and Michiel Smid, editors, *Proceedings of the 8th International Workshop on Algorithms and Data Structures, WADS'2003 (ottawa, Ontario, Canada, July 30 - August 1, 2003)*, volume 2748 of *LNCS*, pages 281–293. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[53] Lali Barrière, Pierre Fraigniaud, Nicola Santoro, and Dimitrios M. Thilikos. Searching is not jumping. In Hans L. Bodlaender, editor, *Proceedings of the 29th International Workshop on Graph-Theoretic Concepts in Computer Science, WG'2003 (Elspeet, The Netherlands, June 19-21, 2003)*, volume 2880 of *LNCS*, pages 34–45. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[54] Surender Baswana and Sandeep Sen. A simple linear time algorithm for computing a $(2k-1)$-spanner of $o(n^{1+1/k})$ size in weighted graphs.

In Jos C.M. Baeten, Jan Karel Lenstra, Joachim Parrow, and Gerhard J. Woeginger, editors, *Proceedings of the 30th International Colloquium on Automata, Languages and Programming, ICALP'2003 (Eindhoven, The Netherlands, June 30 - July 4, 2003)*, volume 2719 of *LNCS*, pages 384–396. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[55] Cristina Bazgan, Refael Hassin, and Jérôme Monnot. Differential approximation for some routing problems. In Rossella Petreschi, Giuseppe Persiano, and Riccardo Silvestri, editors, *Proceedings of the 5th Italian Conference of Algorithms and Complexity, CIAC'2003 (Rome, Italy, May 28-30, 2003)*, volume 2653 of *LNCS*, pages 277–288. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[56] Cristina Bazgan, Zsolt Tuza, and Daniel Vanderpooten. On the existence and determination of satisfactory partitions in a graph. In Toshihide Ibaraki, Naoki Katoh, and Hirotaka Ono, editors, *Proceedings of the 14th International Symposium on Algorithms and Computation, ISAAC'2003 (Kyoto, Japan, December 15-17, 2003)*, volume 2906 of *LNCS*, pages 444–453. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[57] Luca Becchetti, Stefano Leonardi, Alberto Marchetti-Spaccamela, and Kirk Pruhs. Semi-clairvoyant scheduling. In Giuseppe Di Battista and Uri Zwick, editors, *Proceedings of the 11th Annual European Symposium on Algorithms, ESA'2003 (Budapest, Hungary, September 16-19, 2003)*, volume 2832 of *LNCS*, pages 67–77. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[58] Simon M. Becker and Bernhard Westfechtel. Incremental integration tools for chemical engineering: An industrial application of triple graph grammars. In Hans L. Bodlaender, editor, *Proceedings of the 29th International Workshop on Graph-Theoretic Concepts in Computer Science, WG'2003 (Elspeet, The Netherlands, June 19-21, 2003)*, volume 2880 of *LNCS*, pages 46–57. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[59] Marek Bednarczyk, Luca Bernardinello, Benoît Caillaud, Wiesław Pawłowski, and Lucia Pomello. Modular system development with

pullbacks. In Wil van der Aalst and Eike Best, editors, *Proceedings of the 24th International Conference on Applications and Theory of Petri Nets, ICATPN'2003 (Eindhoven, The Netherlands, June 23-27, 2003)*, volume 2679 of *LNCS*, pages 140–160. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[60] Behshad Behzadi and Jean-Marc Steyaert. An improved algorithm for generalized comparison of minisatellites. In Ricardo Baeza-Yates, Edgar Chávez, and Maxime Crochmeore, editors, *Proceedings of the 14th Annual Symposium on Combinatorial Pattern Matching, CPM'2003 (Morelia, Michoacán, Mexico, June 25-27, 2003)*, volume 2676 of *LNCS*, pages 32–41. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[61] Richard Beigel, Lance Fortnow, and Frank Stephan. Infinitely-often autoreducible sets. In Toshihide Ibaraki, Naoki Katoh, and Hirotaka Ono, editors, *Proceedings of the 14th International Symposium on Algorithms and Computation, ISAAC'2003 (Kyoto, Japan, December 15-17, 2003)*, volume 2906 of *LNCS*, pages 98–107. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[62] Robert Benkoczi, Binay Bhattacharya, Marek Chrobak, Lawrence L. Larmore, and Wojciech Rytter. Faster algorithms for k-medians in trees. In Branislav Rovan and Peter Vojtáš, editors, *Proceedings of the 28th International Symposium on Mathematical Foundations of Computer Science, MFCS'2003 (Bratislava, Slovakia, August 25-29, 2003)*, volume 2747 of *LNCS*, pages 218–227. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[63] Jon Bentley. Experiments for algorithm engineering. In Tandy Warnow and Binhai Zhu, editors, *Proceedings of the 9th Annual International Conference on Computing and Combinatorics, COCOON'2003 (Big Sky, MT, USA, July 25-28, 2003)*, volume 2697 of *LNCS*, pages 3–4. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[64] Alex R. Berg and Tibor Jordán. Algorithms for graph rigidity and scene analysis. In Giuseppe Di Battista and Uri Zwick, editors,

Proceedings of the 11th Annual European Symposium on Algorithms, ESA'2003 (Budapest, Hungary, September 16-19, 2003), volume 2832 of *LNCS*, pages 78–89. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[65] Noam Berger, Béla Bollobás, Christian Borgs, Jennifer Chayes, and Oliver Riordan. Degree distribution of the fkp network model. In Jos C.M. Baeten, Jan Karel Lenstra, Joachim Parrow, and Gerhard J. Woeginger, editors, *Proceedings of the 30th International Colloquium on Automata, Languages and Programming, ICALP'2003 (Eindhoven, The Netherlands, June 30 - July 4, 2003)*, volume 2719 of *LNCS*, pages 725–738. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[66] Anne Bergeron and Jens Stoye. On the similarity of sets of permutations and its applications to genome comparison. In Tandy Warnow and Binhai Zhu, editors, *Proceedings of the 9th Annual International Conference on Computing and Combinatorics, COCOON'2003 (Big Sky, MT, USA, July 25-28, 2003)*, volume 2697 of *LNCS*, pages 68–79. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[67] Jan A. Bergstra and Inge Bethke. Polarized process algebra and program equivalence. In Jos C.M. Baeten, Jan Karel Lenstra, Joachim Parrow, and Gerhard J. Woeginger, editors, *Proceedings of the 30th International Colloquium on Automata, Languages and Programming, ICALP'2003 (Eindhoven, The Netherlands, June 30 - July 4, 2003)*, volume 2719 of *LNCS*, pages 1–21. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[68] Anne Berry, Pinar Heggernes, and Geneviève Simonet. The minimum degree heuristic and the minimal triangulation process. In Hans L. Bodlaender, editor, *Proceedings of the 29th International Workshop on Graph-Theoretic Concepts in Computer Science, WG'2003 (Elspeet, The Netherlands, June 19-21, 2003)*, volume 2880 of *LNCS*, pages 58–70. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[69] Anne Berry, Pinar Heggernes, and Yngve Villanger. A vertex incremental approach for dynamically maintaining chordal graphs. In

Toshihide Ibaraki, Naoki Katoh, and Hirotaka Ono, editors, *Proceedings of the 14th International Symposium on Algorithms and Computation, ISAAC'2003 (Kyoto, Japan, December 15-17, 2003)*, volume 2906 of *LNCS*, pages 47–57. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[70] Pascal Berthomé, Madiagne Diallo, and Afonso Ferreira. Generalized parametric multi-terminal flows problem. In Hans L. Bodlaender, editor, *Proceedings of the 29th International Workshop on Graph-Theoretic Concepts in Computer Science, WG'2003 (Elspeet, The Netherlands, June 19-21, 2003)*, volume 2880 of *LNCS*, pages 71–80. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[71] Sergei Bespamyatnikh. Cylindrical hierarchy for deforming necklaces. In Tandy Warnow and Binhai Zhu, editors, *Proceedings of the 9th Annual International Conference on Computing and Combinatorics, COCOON'2003 (Big Sky, MT, USA, July 25-28, 2003)*, volume 2697 of *LNCS*, pages 20–29. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[72] Sergei Bespamyatnikh and Michael Segal. Dynamic algorithms for approximating interdistances. In Jos C.M. Baeten, Jan Karel Lenstra, Joachim Parrow, and Gerhard J. Woeginger, editors, *Proceedings of the 30th International Colloquium on Automata, Languages and Programming, ICALP'2003 (Eindhoven, The Netherlands, June 30 - July 4, 2003)*, volume 2719 of *LNCS*, pages 1169–1180. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[73] Randeep Bhatia, Julia Chuzhoy, Ari Freund, and Joseph (Seffi) Naor. Algorithmic aspects of bandwidth trading. In Jos C.M. Baeten, Jan Karel Lenstra, Joachim Parrow, and Gerhard J. Woeginger, editors, *Proceedings of the 30th International Colloquium on Automata, Languages and Programming, ICALP'2003 (Eindhoven, The Netherlands, June 30 - July 4, 2003)*, volume 2719 of *LNCS*, pages 751–766. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[74] Therese Biedl, Broňa Brejová, Erik D. Demaine, Angèle M. Hamel, Alejandro López-Ortiz, and Tomáš Vinař. Finding hidden independent

sets in interval graphs. In Tandy Warnow and Binhai Zhu, editors, *Proceedings of the 9th Annual International Conference on Computing and Combinatorics, COCOON'2003 (Big Sky, MT, USA, July 25-28, 2003)*, volume 2697 of *LNCS*, pages 182–191. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[75] Therese Biedl, Erik D. Demaine, Alexander Golynski, Joseph D. Horton, Alejandro López-Ortiz, Guillaume Poirier, and Claude-Guy Quimper. Optimal dynamic video-on-demand using adaptive broadcasting. In Giuseppe Di Battista and Uri Zwick, editors, *Proceedings of the 11th Annual European Symposium on Algorithms, ESA'2003 (Budapest, Hungary, September 16-19, 2003)*, volume 2832 of *LNCS*, pages 90–101. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[76] Olivier Billet and Marc Joye. The jacobi model of an elliptic curve and side-channel analysis. In Marc Fossorier, Tom Høholdt, and Alain Poli, editors, *Proceedings of the 15th International Symposium on Applied Algebra, Algebraic Algorithms and Error-Correcting Codes, AAECC'2003 (Toulouse, France, May 12-16, 2003)*, volume 2643 of *LNCS*, pages 34–42. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[77] Jonathan Billington, Søren Christensen, Kees van Hee, Ekkart Kindler, Olaf Kummer, Laure Petrucci, Reinier Post, Christian Stehno, and Michael Weber. The petri net markup language: Concepts, technology, and tools. In Wil van der Aalst and Eike Best, editors, *Proceedings of the 24th International Conference on Applications and Theory of Petri Nets, ICATPN'2003 (Eindhoven, The Netherlands, June 23-27, 2003)*, volume 2679 of *LNCS*, pages 483–505. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[78] Nicolas Biri and Didier Galmiche. A separation logic for resource distribution. In Paritosh K. Pandya and Jaikumar Radhakrishnan, editors, *Proceedings of the 23rd Conference on Foundations of Software Technology and Theoretical Computer Science, FSTTCS'2003 (Mumbai, India, December 15-17, 2003)*, volume 2914 of *LNCS*, pages 23–37. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[79] Arijit Bishnu, Sandip Das, Subhas C. Nandy, and Bhargab B. Bhattacharya. An improved algorithm for point set pattern matching under rigid motion. In Rossella Petreschi, Giuseppe Persiano, and Riccardo Silvestri, editors, *Proceedings of the 5th Italian Conference of Algorithms and Complexity, CIAC'2003 (Rome, Italy, May 28-30, 2003)*, volume 2653 of *LNCS*, pages 36–45. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[80] Henrik Björklund, Sven Sandberg, and Sergei Vorobyov. A discrete subexponential algorithm for parity games. In Helmut Alt and Michel Habib, editors, *Proceedings of the 20th Annual Symposium on Theoretical Aspects of Computer Science, STACS'2003 (Berlin, Germany, February 27 - March 1, 2003)*, volume 2607 of *LNCS*, pages 663–674. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[81] Andrew P. Black, Vincent Cremet, Rachid Guerraoui, and Martin Odersky. An equational theory for transactions. In Paritosh K. Pandya and Jaikumar Radhakrishnan, editors, *Proceedings of the 23rd Conference on Foundations of Software Technology and Theoretical Computer Science, FSTTCS'2003 (Mumbai, India, December 15-17, 2003)*, volume 2914 of *LNCS*, pages 38–49. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[82] F. Blanchard, J. Cervelle, and E. Formenti. Periodicity and transitivity for cellular automata in besicovitch topologies. In Branislav Rovan and Peter Vojtáš, editors, *Proceedings of the 28th International Symposium on Mathematical Foundations of Computer Science, MFCS'2003 (Bratislava, Slovakia, August 25-29, 2003)*, volume 2747 of *LNCS*, pages 228–238. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[83] Markus Bläser. Algebras of minimal rank over arbitrary fields. In Helmut Alt and Michel Habib, editors, *Proceedings of the 20th Annual Symposium on Theoretical Aspects of Computer Science, STACS'2003 (Berlin, Germany, February 27 - March 1, 2003)*, volume 2607 of *LNCS*, pages 403–414. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[84] Markus Bläser. An improved approximation algorithm for the asymmetric tsp with strengthened triangle inequality. In Jos C.M. Baeten, Jan Karel Lenstra, Joachim Parrow, and Gerhard J. Woeginger, editors, *Proceedings of the 30th International Colloquium on Automata, Languages and Programming, ICALP'2003 (Eindhoven, The Netherlands, June 30 - July 4, 2003)*, volume 2719 of *LNCS*, pages 157–163. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[85] Daniel Bleichenbacher, Aggelos Kiayias, and Moti Yung. Decoding of interleaved reed solomon codes over noisy data. In Jos C.M. Baeten, Jan Karel Lenstra, Joachim Parrow, and Gerhard J. Woeginger, editors, *Proceedings of the 30th International Colloquium on Automata, Languages and Programming, ICALP'2003 (Eindhoven, The Netherlands, June 30 - July 4, 2003)*, volume 2719 of *LNCS*, pages 97–108. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[86] Stefan Blom, Wan Fokkink, and Sumit Nain. On the axiomatizability of ready traces, ready simulation, and failure traces. In Jos C.M. Baeten, Jan Karel Lenstra, Joachim Parrow, and Gerhard J. Woeginger, editors, *Proceedings of the 30th International Colloquium on Automata, Languages and Programming, ICALP'2003 (Eindhoven, The Netherlands, June 30 - July 4, 2003)*, volume 2719 of *LNCS*, pages 109–118. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[87] Vincent D. Blondel and Paul Van Dooren. Similarity matrices for pairs of graphs. In Jos C.M. Baeten, Jan Karel Lenstra, Joachim Parrow, and Gerhard J. Woeginger, editors, *Proceedings of the 30th International Colloquium on Automata, Languages and Programming, ICALP'2003 (Eindhoven, The Netherlands, June 30 - July 4, 2003)*, volume 2719 of *LNCS*, pages 739–750. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[88] Stephen L. Bloom and Zoltán Ésik. Axioms for regular words. In Paritosh K. Pandya and Jaikumar Radhakrishnan, editors, *Proceedings of the 23rd Conference on Foundations of Software Technology and Theoretical Computer Science, FSTTCS'2003 (Mumbai, India,*

December 15-17, 2003), volume 2914 of *LNCS*, pages 50–61. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[89] Liad Blumrosen, Noam Nisan, and Ilya Segal. Multi-player and multi-round auctions with severely bounded communication. In Giuseppe Di Battista and Uri Zwick, editors, *Proceedings of the 11th Annual European Symposium on Algorithms, ESA'2003 (Budapest, Hungary, September 16-19, 2003)*, volume 2832 of *LNCS*, pages 102–113. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[90] Hans-Joachim Böckenhauer, Dirk Bongartz, Juraj Hromkovič, Ralf Klasing, Guido Proietti, Sebastian Seibert, and Walter Unger. On k-edge-connectivity problems with sharpened triangle inequality. In Rossella Petreschi, Giuseppe Persiano, and Riccardo Silvestri, editors, *Proceedings of the 5th Italian Conference of Algorithms and Complexity, CIAC'2003 (Rome, Italy, May 28-30, 2003)*, volume 2653 of *LNCS*, pages 189–200. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[91] Manuel Bodirsky, Clemens Gröpl, and Mihyun Kang. Generating labeled planar graphs uniformly at random. In Jos C.M. Baeten, Jan Karel Lenstra, Joachim Parrow, and Gerhard J. Woeginger, editors, *Proceedings of the 30th International Colloquium on Automata, Languages and Programming, ICALP'2003 (Eindhoven, The Netherlands, June 30 - July 4, 2003)*, volume 2719 of *LNCS*, pages 1095–1107. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[92] Hans L. Bodlaender, Michael R. Fellows, and Dimitrios M. Thilikos. Starting with nondeterminism: The systematic derivation of linear-time graph layout algorithms. In Branislav Rovan and Peter Vojtáš, editors, *Proceedings of the 28th International Symposium on Mathematical Foundations of Computer Science, MFCS'2003 (Bratislava, Slovakia, August 25-29, 2003)*, volume 2747 of *LNCS*, pages 239–248. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[93] Elmar Böhler, Christian Glaßer, and Daniel Meister. Error-bounded probabilistic computations between ma and am. In Branislav Rovan and Peter Vojtáš, editors, *Proceedings of the 28th International Symposium on Mathematical Foundations of Computer Science, MFCS'2003 (Bratislava, Slovakia, August 25-29, 2003)*, volume 2747 of *LNCS*, pages 249–258. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[94] Mikołaj Bojańczyk. 1-bounded twa cannot be determinized. In Paritosh K. Pandya and Jaikumar Radhakrishnan, editors, *Proceedings of the 23rd Conference on Foundations of Software Technology and Theoretical Computer Science, FSTTCS'2003 (Mumbai, India, December 15-17, 2003)*, volume 2914 of *LNCS*, pages 62–73. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[95] Beate Bollig. Complexity theoretical results on nondeterministic graph-driven read-once branching programs. In Helmut Alt and Michel Habib, editors, *Proceedings of the 20th Annual Symposium on Theoretical Aspects of Computer Science, STACS'2003 (Berlin, Germany, February 27 - March 1, 2003)*, volume 2607 of *LNCS*, pages 295–306. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[96] Giancarlo Bongiovanni and Paolo Penna. Xor-based schemes for fast parallel ip lookups. In Rossella Petreschi, Giuseppe Persiano, and Riccardo Silvestri, editors, *Proceedings of the 5th Italian Conference of Algorithms and Complexity, CIAC'2003 (Rome, Italy, May 28-30, 2003)*, volume 2653 of *LNCS*, pages 238–250. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[97] Nicolas Bonichon, Cyril Gavoille, and Nicolas Hanusse. Canonical decomposition of outerplanar maps and application to enumeration, coding, and generation. In Hans L. Bodlaender, editor, *Proceedings of the 29th International Workshop on Graph-Theoretic Concepts in Computer Science, WG'2003 (Elspeet, The Netherlands, June 19-21, 2003)*, volume 2880 of *LNCS*, pages 81–92. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[98] Nicolas Bonichon, Cyril Gavoille, and Nicolas Hanusse. An information-theoretic upper bound of planar graphs using triangulation. In Helmut Alt and Michel Habib, editors, *Proceedings of the 20th Annual Symposium on Theoretical Aspects of Computer Science, STACS'2003 (Berlin, Germany, February 27 - March 1, 2003)*, volume 2607 of *LNCS*, pages 499–510. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[99] Paola Bonizzoni, Gianluca Della Vedova, and Riccardo Dondi. Reconciling gene trees to a species tree. In Rossella Petreschi, Giuseppe Persiano, and Riccardo Silvestri, editors, *Proceedings of the 5th Italian Conference of Algorithms and Complexity, CIAC'2003 (Rome, Italy, May 28-30, 2003)*, volume 2653 of *LNCS*, pages 120–131. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[100] Paul Bonsma. The complexity of the matching-cut problem for planar graphs and other graph classes. In Hans L. Bodlaender, editor, *Proceedings of the 29th International Workshop on Graph-Theoretic Concepts in Computer Science, WG'2003 (Elspeet, The Netherlands, June 19-21, 2003)*, volume 2880 of *LNCS*, pages 93–105. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[101] Paul S. Bonsma, Tobias Brueggemann, and Gerhard J. Woeginger. A faster fpt algorithm for finding spanning trees with many leaves. In Branislav Rovan and Peter Vojtáš, editors, *Proceedings of the 28th International Symposium on Mathematical Foundations of Computer Science, MFCS'2003 (Bratislava, Slovakia, August 25-29, 2003)*, volume 2747 of *LNCS*, pages 259–268. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[102] Michele Boreale and Maria Grazia Buscemi. Symbolic analysis of crypto-protocols based on modular exponentiation. In Branislav Rovan and Peter Vojtáš, editors, *Proceedings of the 28th International Symposium on Mathematical Foundations of Computer Science, MFCS'2003 (Bratislava, Slovakia, August 25-29, 2003)*, volume 2747 of *LNCS*, pages 269–278. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[103] Michele Boreale and Fabio Gadducci. Denotational testing semantics in coinductive form. In Branislav Rovan and Peter Vojtáš, editors, *Proceedings of the 28th International Symposium on Mathematical Foundations of Computer Science, MFCS'2003 (Bratislava, Slovakia, August 25-29, 2003)*, volume 2747 of *LNCS*, pages 279–289. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[104] E. Boros, K. Elbassioni, V. Gurvich, and Leonid Khachiyan. An efficient implementation of a quasi-polynomial algorithm for generating hypergraph transversals. In Giuseppe Di Battista and Uri Zwick, editors, *Proceedings of the 11th Annual European Symposium on Algorithms, ESA'2003 (Budapest, Hungary, September 16-19, 2003)*, volume 2832 of *LNCS*, pages 556–567. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[105] Endre Boros, Khaled Elbassioni, Vladimir Gurvich, and Leonid Khachiyan. Algorithms for enumerating circuits in matroids. In Toshihide Ibaraki, Naoki Katoh, and Hirotaka Ono, editors, *Proceedings of the 14th International Symposium on Algorithms and Computation, ISAAC'2003 (Kyoto, Japan, December 15-17, 2003)*, volume 2906 of *LNCS*, pages 485–494. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[106] Endre Boros, Khaled Elbassioni, Vladimir Gurvich, Leonid Khachiyan, and Kazuhisa Makino. An intersection inequality for discrete distributions and related generation problems. In Jos C.M. Baeten, Jan Karel Lenstra, Joachim Parrow, and Gerhard J. Woeginger, editors, *Proceedings of the 30th International Colloquium on Automata, Languages and Programming, ICALP'2003 (Eindhoven, The Netherlands, June 30 - July 4, 2003)*, volume 2719 of *LNCS*, pages 543–555. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[107] Prosenjit Bose, Anil Maheshwari, Giri Narasimhan, Michiel Smid, and Norbert Zeh. Approximating geometric bottleneck shortest paths. In Helmut Alt and Michel Habib, editors, *Proceedings of the 20th Annual Symposium on Theoretical Aspects of Computer Science, STACS'2003 (Berlin, Germany, February 27 - March 1, 2003)*, volume 2607 of

LNCS, pages 38–49. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[108] Ahmed Bouajjani and Tayssir Touili. Reachability analysis of process rewrite systems. In Paritosh K. Pandya and Jaikumar Radhakrishnan, editors, *Proceedings of the 23rd Conference on Foundations of Software Technology and Theoretical Computer Science, FSTTCS'2003 (Mumbai, India, December 15-17, 2003)*, volume 2914 of *LNCS*, pages 74–87. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[109] Thanasis Bouganis. Error correcting codes over algebraic surfaces. In Marc Fossorier, Tom Høholdt, and Alain Poli, editors, *Proceedings of the 15th International Symposium on Applied Algebra, Algebraic Algorithms and Error-Correcting Codes, AAECC'2003 (Toulouse, France, May 12-16, 2003)*, volume 2643 of *LNCS*, pages 169–179. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[110] Thanasis Bouganis and Drue Coles. A geometric view of decoding ag codes. In Marc Fossorier, Tom Høholdt, and Alain Poli, editors, *Proceedings of the 15th International Symposium on Applied Algebra, Algebraic Algorithms and Error-Correcting Codes, AAECC'2003 (Toulouse, France, May 12-16, 2003)*, volume 2643 of *LNCS*, pages 180–190. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[111] Alexis-Julien Bouquet, Oliver Serre, and Igor Walukiewicz. Pushdown games with unboundedness and regular conditions. In Paritosh K. Pandya and Jaikumar Radhakrishnan, editors, *Proceedings of the 23rd Conference on Foundations of Software Technology and Theoretical Computer Science, FSTTCS'2003 (Mumbai, India, December 15-17, 2003)*, volume 2914 of *LNCS*, pages 88–99. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[112] Patricia Bouyer. Untameable timed automata! In Helmut Alt and Michel Habib, editors, *Proceedings of the 20th Annual Symposium on Theoretical Aspects of Computer Science, STACS'2003 (Berlin, Germany, February 27 - March 1, 2003)*, volume 2607 of *LNCS*, pages

620–631. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[113] Joan Boyar and Lene M. Favrholdt. The relative worst order ratio for on-line algorithms. In Rossella Petreschi, Giuseppe Persiano, and Riccardo Silvestri, editors, *Proceedings of the 5th Italian Conference of Algorithms and Complexity, CIAC'2003 (Rome, Italy, May 28-30, 2003)*, volume 2653 of *LNCS*, pages 58–69. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[114] Franz J. Brandenburg. Erratum to "cycles in generalized networks". In Hans L. Bodlaender, editor, *Proceedings of the 29th International Workshop on Graph-Theoretic Concepts in Computer Science, WG'2003 (Elspeet, The Netherlands, June 19-21, 2003)*, volume 2880 of *LNCS*, page 383. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003. Originally in LNCS, Vol. 2573, 2002, 47-57.

[115] Ulrik Brandes, Marco Gaertler, and Dorothea Wagner. Experiments on graph clustering algorithms. In Giuseppe Di Battista and Uri Zwick, editors, *Proceedings of the 11th Annual European Symposium on Algorithms, ESA'2003 (Budapest, Hungary, September 16-19, 2003)*, volume 2832 of *LNCS*, pages 568–579. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[116] Andreas Brandstädt, Feodor F. Dragan, Hoang-Oanh Le, Van Bang Le, and Ryuhei Uehara. Tree spanners for bipartite graphs and probe interval graphs. In Hans L. Bodlaender, editor, *Proceedings of the 29th International Workshop on Graph-Theoretic Concepts in Computer Science, WG'2003 (Elspeet, The Netherlands, June 19-21, 2003)*, volume 2880 of *LNCS*, pages 106–118. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[117] Maria Bras-Amorós. Improvements to evaluation codes and new characterizations of arf semigroups. In Marc Fossorier, Tom Høholdt, and Alain Poli, editors, *Proceedings of the 15th International Symposium on Applied Algebra, Algebraic Algorithms and Error-Correcting Codes, AAECC'2003 (Toulouse, France, May 12-16, 2003)*, volume 2643 of *LNCS*, pages 204–215. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[118] P. Brass, E. Cenek, C.A. Duncan, A. Efrat, C. Erten, D. Ismailescu, S.G. Kobourov, A. Lubiw, and J.S.B. Mitchell. On simultaneous planar graph embeddings. In Frank Dehne, Jörg-Rüdiger Sack, and Michiel Smid, editors, *Proceedings of the 8th International Workshop on Algorithms and Data Structures, WADS'2003 (ottawa, Ontario, Canada, July 30 - August 1, 2003)*, volume 2748 of *LNCS*, pages 243–255. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[119] Gilles Brassard, Anne Broadbent, and Alain Tapp. Multi-party pseudo-telepathy. In Frank Dehne, Jörg-Rüdiger Sack, and Michiel Smid, editors, *Proceedings of the 8th International Workshop on Algorithms and Data Structures, WADS'2003 (Ottawa, Ontario, Canada, July 30 - August 1, 2003)*, volume 2748 of *LNCS*, pages 1–11. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[120] Vasco Brattka. The inversion problem for computable linear operators. In Helmut Alt and Michel Habib, editors, *Proceedings of the 20th Annual Symposium on Theoretical Aspects of Computer Science, STACS'2003 (Berlin, Germany, February 27 - March 1, 2003)*, volume 2607 of *LNCS*, pages 391–402. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[121] Christian Breimann and Jan Vahrenhold. External memory computational geometry revisited. In Ulrich Meyer, Peter Sanders, and Jop Sibeyn, editors, *Algorithms for Memory Hierarchies — Advanced Lectures*, volume 2625 of *LNCS*, pages 110–148. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[122] Broňa Brejová, Daniel G. Brown, and Tomáš Vinař. Optimal spaced seeds for hidden markov models, with application to homologous coding regions. In Ricardo Baeza-Yates, Edgar Chávez, and Maxime Crochmeore, editors, *Proceedings of the 14th Annual Symposium on Combinatorial Pattern Matching, CPM'2003 (Morelia, Michoacán, Mexico, June 25-27, 2003)*, volume 2676 of *LNCS*, pages 42–54. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[123] David Bremner, Erik Demaine, Jeff Erickson, John Iacono, Stefan Langerman, Pat Morin, and Godfried Toussaint. Output-sensitive algorithms for computing nearest-neighbour decision boundaries. In Frank Dehne, Jörg-Rüdiger Sack, and Michiel Smid, editors, *Proceedings of the 8th International Workshop on Algorithms and Data Structures, WADS'2003 (ottawa, Ontario, Canada, July 30 - August 1, 2003)*, volume 2748 of *LNCS*, pages 451–461. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[124] Anna Bretscher, Derek Corneil, Michel Habib, and Christophe Paul. A simple linear time lexbfs cograph recognition algorithm. In Hans L. Bodlaender, editor, *Proceedings of the 29th International Workshop on Graph-Theoretic Concepts in Computer Science, WG'2003 (Elspeet, The Netherlands, June 19-21, 2003)*, volume 2880 of *LNCS*, pages 119–130. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[125] Eric Brier and Marc Joye. Fast point multiplication on elliptic curves through isogenies. In Marc Fossorier, Tom Høholdt, and Alain Poli, editors, *Proceedings of the 15th International Symposium on Applied Algebra, Algebraic Algorithms and Error-Correcting Codes, AAECC'2003 (Toulouse, France, May 12-16, 2003)*, volume 2643 of *LNCS*, pages 43–50. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[126] Ed Brinksma. Compositional theories of qualitative and quantitative behaviour. In Wil van der Aalst and Eike Best, editors, *Proceedings of the 24th International Conference on Applications and Theory of Petri Nets, ICATPN'2003 (Eindhoven, The Netherlands, June 23-27, 2003)*, volume 2679 of *LNCS*, pages 37–42. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[127] Hajo Broersma, Fedor V. Fomin, Petr A. Golovach, and Gerhard J. Woeginger. Backbone colorings for networks. In Hans L. Bodlaender, editor, *Proceedings of the 29th International Workshop on Graph-Theoretic Concepts in Computer Science, WG'2003 (Elspeet, The Netherlands, June 19-21, 2003)*, volume 2880 of *LNCS*, pages 131–142. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[128] Hervé Brönnimann, Frédéric Cacals, and Marianne Durand. Randomized jumplists: A jump-and-walk dictionary data structure. In Helmut Alt and Michel Habib, editors, *Proceedings of the 20th Annual Symposium on Theoretical Aspects of Computer Science, STACS'2003 (Berlin, Germany, February 27 - March 1, 2003)*, volume 2607 of *LNCS*, pages 283–294. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[129] Henrik Brosenne, Matthias Homeister, and Stephan Waack. Lower bounds for general graph-driven read-once parity branching programs. In Branislav Rovan and Peter Vojtáš, editors, *Proceedings of the 28th International Symposium on Mathematical Foundations of Computer Science, MFCS'2003 (Bratislava, Slovakia, August 25-29, 2003)*, volume 2747 of *LNCS*, pages 290–299. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[130] Richard Bruce, Michael Hoffmann, Danny Krizanc, and Rajeev Raman. Efficient update strategies for geometric computing with uncertainty. In Rossella Petreschi, Giuseppe Persiano, and Riccardo Silvestri, editors, *Proceedings of the 5th Italian Conference of Algorithms and Complexity, CIAC'2003 (Rome, Italy, May 28-30, 2003)*, volume 2653 of *LNCS*, pages 12–23. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[131] Véronique Bruère, Emmanuel Dall'Olio, and Jean-François Raskin. Durations, parametric model-checking in timed automata with presburger arithmetic. In Helmut Alt and Michel Habib, editors, *Proceedings of the 20th Annual Symposium on Theoretical Aspects of Computer Science, STACS'2003 (Berlin, Germany, February 27 - March 1, 2003)*, volume 2607 of *LNCS*, pages 687–698. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[132] Roberto Bruni and José Meseguer. Generalized rewrite theories. In Jos C.M. Baeten, Jan Karel Lenstra, Joachim Parrow, and Gerhard J. Woeginger, editors, *Proceedings of the 30th International Colloquium on Automata, Languages and Programming, ICALP'2003 (Eindhoven, The Netherlands, June 30 - July 4, 2003)*, volume 2719 of *LNCS*, pages 252–266. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[133] Véronique Bruyère and Jean-François Raskin. Real-time model-checking: Parameters everywhere. In Paritosh K. Pandya and Jaikumar Radhakrishnan, editors, *Proceedings of the 23rd Conference on Foundations of Software Technology and Theoretical Computer Science, FSTTCS'2003 (Mumbai, India, December 15-17, 2003)*, volume 2914 of *LNCS*, pages 100–111. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[134] Randal E. Bryant. Reasoning about infinite state systems using boolean methods. In Paritosh K. Pandya and Jaikumar Radhakrishnan, editors, *Proceedings of the 23rd Conference on Foundations of Software Technology and Theoretical Computer Science, FSTTCS'2003 (Mumbai, India, December 15-17, 2003)*, volume 2914 of *LNCS*, pages 399–407. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[135] Antonio Bucciarelli and Antonino Salibra. The minimal graph model of lambda calculus. In Branislav Rovan and Peter Vojtáš, editors, *Proceedings of the 28th International Symposium on Mathematical Foundations of Computer Science, MFCS'2003 (Bratislava, Slovakia, August 25-29, 2003)*, volume 2747 of *LNCS*, pages 300–307. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[136] Michele Bugliesi, Silvia Crafa, Amela Prelic, and Vladimiro Sassone. Secrecy in untrusted networks. In Jos C.M. Baeten, Jan Karel Lenstra, Joachim Parrow, and Gerhard J. Woeginger, editors, *Proceedings of the 30th International Colloquium on Automata, Languages and Programming, ICALP'2003 (Eindhoven, The Netherlands, June 30 - July 4, 2003)*, volume 2719 of *LNCS*, pages 969–983. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[137] Harry Buhrman, Richard Chang, and Lance Fortnow. One bit of advice. In Helmut Alt and Michel Habib, editors, *Proceedings of the 20th Annual Symposium on Theoretical Aspects of Computer Science, STACS'2003 (Berlin, Germany, February 27 - March 1, 2003)*, volume 2607 of *LNCS*, pages 547–558. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[138] Harry Buhrman, Lance Fortnow, and A. Pavan. Some results on derandomization. In Helmut Alt and Michel Habib, editors, *Proceedings of the 20th Annual Symposium on Theoretical Aspects of Computer Science, STACS'2003 (Berlin, Germany, February 27 - March 1, 2003)*, volume 2607 of *LNCS*, pages 212–222. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[139] Harry Buhrman and Hein Röhrig. Distributed quantum computing. In Branislav Rovan and Peter Vojtáš, editors, *Proceedings of the 28th International Symposium on Mathematical Foundations of Computer Science, MFCS'2003 (Bratislava, Slovakia, August 25-29, 2003)*, volume 2747 of *LNCS*, pages 1–20. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[140] Peter Bürgisser and Felipe Cucker. Counting complexity classes over the reals i: The additive case. In Toshihide Ibaraki, Naoki Katoh, and Hirotaka Ono, editors, *Proceedings of the 14th International Symposium on Algorithms and Computation, ISAAC'2003 (Kyoto, Japan, December 15-17, 2003)*, volume 2906 of *LNCS*, pages 625–634. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[141] Stefan Burkhardt and Juha Kärkkäinen. Fast lightweight suffix array construction and checking. In Ricardo Baeza-Yates, Edgar Chávez, and Maxime Crochmeore, editors, *Proceedings of the 14th Annual Symposium on Combinatorial Pattern Matching, CPM'2003 (Morelia, Michoacán, Mexico, June 25-27, 2003)*, volume 2676 of *LNCS*, pages 55–69. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[142] Nadia Busi, Maurizio Gabbrielli, and Gianluigi Zavattaro. Replication vs. recursive definitions in channel based calculi. In Jos C.M. Baeten, Jan Karel Lenstra, Joachim Parrow, and Gerhard J. Woeginger, editors, *Proceedings of the 30th International Colloquium on Automata, Languages and Programming, ICALP'2003 (Eindhoven, The Netherlands, June 30 - July 4, 2003)*, volume 2719 of *LNCS*, pages 133–144. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[143] Lawrence Cabac, Daniel Moldt, and Heiko Rölke. A proposal for structuring petri net-based agent interaction protocols. In Wil van der Aalst and Eike Best, editors, *Proceedings of the 24th International Conference on Applications and Theory of Petri Nets, ICATPN'2003 (Eindhoven, The Netherlands, June 23-27, 2003)*, volume 2679 of *LNCS*, pages 102–120. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[144] Thierry Cachat. Higher order pushdown automata, the caucal hierarchy of graphs and parity games. In Jos C.M. Baeten, Jan Karel Lenstra, Joachim Parrow, and Gerhard J. Woeginger, editors, *Proceedings of the 30th International Colloquium on Automata, Languages and Programming, ICALP'2003 (Eindhoven, The Netherlands, June 30 - July 4, 2003)*, volume 2719 of *LNCS*, pages 556–569. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[145] Jin-Yi Cai, Venkatesan T. Chakaravarthy, Lane A. Hemaspaandra, and Mitsunori Ogihara. Competing provers yield improved karp-lipton collapse results. In Helmut Alt and Michel Habib, editors, *Proceedings of the 20th Annual Symposium on Theoretical Aspects of Computer Science, STACS'2003 (Berlin, Germany, February 27 - March 1, 2003)*, volume 2607 of *LNCS*, pages 535–546. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[146] Jin-Yi Cai and Osamu Watanabe. On proving circuit lower bounds against the polynomial-time hierarchy: Positive and negative results. In Tandy Warnow and Binhai Zhu, editors, *Proceedings of the 9th Annual International Conference on Computing and Combinatorics, COCOON'2003 (Big Sky, MT, USA, July 25-28, 2003)*, volume 2697 of *LNCS*, pages 202–211. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[147] Jin-Yi Cai and Osamu Watanabe. Stringent relativization. In Paritosh K. Pandya and Jaikumar Radhakrishnan, editors, *Proceedings of the 23rd Conference on Foundations of Software Technology and Theoretical Computer Science, FSTTCS'2003 (Mumbai, India, December 15-17, 2003)*, volume 2914 of *LNCS*, pages 408–419. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[148] Gruia Calinescu, Sanjiv Kapoor, Alexander Olshevsky, and Alexander Zelikovsky. Network lifetime and power assignment in ad hoc wireless networks. In Giuseppe Di Battista and Uri Zwick, editors, *Proceedings of the 11th Annual European Symposium on Algorithms, ESA'2003 (Budapest, Hungary, September 16-19, 2003)*, volume 2832 of *LNCS*, pages 114–126. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[149] Ioannis Caragiannis, Christos Kaklamanis, and Panagiotis Kanellopoulos. Energy-efficient wireless network design. In Toshihide Ibaraki, Naoki Katoh, and Hirotaka Ono, editors, *Proceedings of the 14th International Symposium on Algorithms and Computation, ISAAC'2003 (Kyoto, Japan, December 15-17, 2003)*, volume 2906 of *LNCS*, pages 585–594. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[150] Arnaud Carayol and Thomas Colcombet. On equivalent representations of infinite structures. In Jos C.M. Baeten, Jan Karel Lenstra, Joachim Parrow, and Gerhard J. Woeginger, editors, *Proceedings of the 30th International Colloquium on Automata, Languages and Programming, ICALP'2003 (Eindhoven, The Netherlands, June 30 - July 4, 2003)*, volume 2719 of *LNCS*, pages 599–610. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[151] Arnaud Carayol and Stefan Wöhrle. The caucal hierarchy of infinite graphs in terms of logic and higher-order pushdown automata. In Paritosh K. Pandya and Jaikumar Radhakrishnan, editors, *Proceedings of the 23rd Conference on Foundations of Software Technology and Theoretical Computer Science, FSTTCS'2003 (Mumbai, India, December 15-17, 2003)*, volume 2914 of *LNCS*, pages 112–123. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[152] Paz Carmi, Thomas Erlebach, and Yoshio Okamoto. Greedy edge-disjoint paths in complete graphs. In Hans L. Bodlaender, editor, *Proceedings of the 29th International Workshop on Graph-Theoretic Concepts in Computer Science, WG'2003 (Elspeet, The Netherlands, June 19-21, 2003)*, volume 2880 of *LNCS*, pages 143–155. Springer-

Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[153] Olivier Carton. Unambiguous automata on bi-infinite words. In Branislav Rovan and Peter Vojtáš, editors, *Proceedings of the 28th International Symposium on Mathematical Foundations of Computer Science, MFCS'2003 (Bratislava, Slovakia, August 25-29, 2003)*, volume 2747 of *LNCS*, pages 308–317. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[154] Rodrigo Gusmão Cavalcante and Jr. Palazzo, Reginaldo. Performance analysis of m-psk signal constellations in riemannian varieties. In Marc Fossorier, Tom Høholdt, and Alain Poli, editors, *Proceedings of the 15th International Symposium on Applied Algebra, Algebraic Algorithms and Error-Correcting Codes, AAECC'2003 (Toulouse, France, May 12-16, 2003)*, volume 2643 of *LNCS*, pages 191–203. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[155] Ivana Černá and Radek Pelánek. Relating hierarchy of temporal properties to model checking. In Branislav Rovan and Peter Vojtáš, editors, *Proceedings of the 28th International Symposium on Mathematical Foundations of Computer Science, MFCS'2003 (Bratislava, Slovakia, August 25-29, 2003)*, volume 2747 of *LNCS*, pages 318–327. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[156] Julien Cervelle and Enrico Formenti. On sand automata. In Helmut Alt and Michel Habib, editors, *Proceedings of the 20th Annual Symposium on Theoretical Aspects of Computer Science, STACS'2003 (Berlin, Germany, February 27 - March 1, 2003)*, volume 2607 of *LNCS*, pages 642–653. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[157] Wun-Tat Chan, Tak-Wah Lam, Hing-Fung Ting, and Prudence W.H. Wong. On-line stream merging, max span, and min coverage. In Rossella Petreschi, Giuseppe Persiano, and Riccardo Silvestri, editors, *Proceedings of the 5th Italian Conference of Algorithms and Complexity, CIAC'2003 (Rome, Italy, May 28-30, 2003)*, volume 2653 of *LNCS*, pages 70–82. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[158] L. Sunil Chandran, T. Kavitha, and C.R. Subramanian. Isoperimetric inequalities and the width parameters of graphs. In Tandy Warnow and Binhai Zhu, editors, *Proceedings of the 9th Annual International Conference on Computing and Combinatorics, COCOON'2003 (Big Sky, MT, USA, July 25-28, 2003)*, volume 2697 of *LNCS*, pages 385–393. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[159] Arkadev Chattopadhyay and Denis Thérien. Locally commutative categories. In Jos C.M. Baeten, Jan Karel Lenstra, Joachim Parrow, and Gerhard J. Woeginger, editors, *Proceedings of the 30th International Colloquium on Automata, Languages and Programming, ICALP'2003 (Eindhoven, The Netherlands, June 30 - July 4, 2003)*, volume 2719 of *LNCS*, pages 984–995. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[160] Bernard Chazelle. Sublinear computing. In Giuseppe Di Battista and Uri Zwick, editors, *Proceedings of the 11th Annual European Symposium on Algorithms, ESA'2003 (Budapest, Hungary, September 16-19, 2003)*, volume 2832 of *LNCS*, pages 1–1. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[161] Chandra Chekuri, Sudipto Guha, and Joseph (Seffi) Naor. Approximating steiner k-cuts. In Jos C.M. Baeten, Jan Karel Lenstra, Joachim Parrow, and Gerhard J. Woeginger, editors, *Proceedings of the 30th International Colloquium on Automata, Languages and Programming, ICALP'2003 (Eindhoven, The Netherlands, June 30 - July 4, 2003)*, volume 2719 of *LNCS*, pages 189–199. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[162] Chandra Chekuri, Marcelo Mydlarz, and F. Bruce Shepherd. Multicommodity demand flow in a tree. In Jos C.M. Baeten, Jan Karel Lenstra, Joachim Parrow, and Gerhard J. Woeginger, editors, *Proceedings of the 30th International Colloquium on Automata, Languages and Programming, ICALP'2003 (Eindhoven, The Netherlands, June 30 - July 4, 2003)*, volume 2719 of *LNCS*, pages 410–425. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[163] Danny Z. Chen and Bin Xu. Geometric algorithms for agglomerative hierarchical clustering. In Tandy Warnow and Binhai Zhu, editors, *Proceedings of the 9th Annual International Conference on Computing and Combinatorics, COCOON'2003 (Big Sky, MT, USA, July 25-28, 2003)*, volume 2697 of *LNCS*, pages 30–39. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[164] Hubie Chen. Arithmetic constant-depth circuit complexity classes. In Branislav Rovan and Peter Vojtáš, editors, *Proceedings of the 28th International Symposium on Mathematical Foundations of Computer Science, MFCS'2003 (Bratislava, Slovakia, August 25-29, 2003)*, volume 2747 of *LNCS*, pages 328–337. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[165] Hubie Chen. Inverse *np* problems. In Branislav Rovan and Peter Vojtáš, editors, *Proceedings of the 28th International Symposium on Mathematical Foundations of Computer Science, MFCS'2003 (Bratislava, Slovakia, August 25-29, 2003)*, volume 2747 of *LNCS*, pages 338–347. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[166] Jianer Chen, Iyad A. Kanj, Ljubomir Perkovic, Eric Sedgwick, and Ge Xia. Genus characterizes the complexity of graph problems: Some tight results. In Jos C.M. Baeten, Jan Karel Lenstra, Joachim Parrow, and Gerhard J. Woeginger, editors, *Proceedings of the 30th International Colloquium on Automata, Languages and Programming, ICALP'2003 (Eindhoven, The Netherlands, June 30 - July 4, 2003)*, volume 2719 of *LNCS*, pages 845–856. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[167] Jianer Chen, Iyad A. Kanj, and Ge Xia. Labeled search trees and amortized analysis: Improved upper bounds for *np*-hard problems. In Toshihide Ibaraki, Naoki Katoh, and Hirotaka Ono, editors, *Proceedings of the 14th International Symposium on Algorithms and Computation, ISAAC'2003 (Kyoto, Japan, December 15-17, 2003)*, volume 2906 of *LNCS*, pages 148–157. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[168] Lihua Chen, Xiaotie Deng, Qizhi Fang, and Feng Tian. Majority equilibrium for public facility allocation. In Tandy Warnow and Binhai Zhu,

editors, *Proceedings of the 9th Annual International Conference on Computing and Combinatorics, COCOON'2003 (Big Sky, MT, USA, July 25-28, 2003)*, volume 2697 of *LNCS*, pages 435–444. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[169] Yen Hung Chen, Chin Lung Lu, and Chuan Yi Tang. On the full and bottleneck full steiner tree problems. In Tandy Warnow and Binhai Zhu, editors, *Proceedings of the 9th Annual International Conference on Computing and Combinatorics, COCOON'2003 (Big Sky, MT, USA, July 25-28, 2003)*, volume 2697 of *LNCS*, pages 122–129. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[170] Zhi-Zhong Chen, Tao Jiang, Guohui Lin, Romeo Rizzi, Jianjun Wen, Dong Xu, and Ying Xu. More reliable protein nmr peak assignment via improved 2-interval scheduling. In Giuseppe Di Battista and Uri Zwick, editors, *Proceedings of the 11th Annual European Symposium on Algorithms, ESA'2003 (Budapest, Hungary, September 16-19, 2003)*, volume 2832 of *LNCS*, pages 580–592. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[171] Zhi-Zhong Chen and Mitsuharu Kouno. A linear-time algorithm for 7-coloring 1-planar graphs. In Branislav Rovan and Peter Vojtáš, editors, *Proceedings of the 28th International Symposium on Mathematical Foundations of Computer Science, MFCS'2003 (Bratislava, Slovakia, August 25-29, 2003)*, volume 2747 of *LNCS*, pages 348–357. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[172] Zhixiang Chen, Richard Fowler, Ada Wai-Chee Fu, and Chunyue Wang. Fast construction of generalized suffix trees over a very large alphabet. In Tandy Warnow and Binhai Zhu, editors, *Proceedings of the 9th Annual International Conference on Computing and Combinatorics, COCOON'2003 (Big Sky, MT, USA, July 25-28, 2003)*, volume 2697 of *LNCS*, pages 284–293. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[173] Qi Cheng. On the ultimate complexity of factorials. In Helmut Alt and Michel Habib, editors, *Proceedings of the 20th Annual Symposium on*

Theoretical Aspects of Computer Science, STACS'2003 (Berlin, Germany, February 27 - March 1, 2003), volume 2607 of *LNCS*, pages 157–166. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[174] Jae-Sook Cheong, Herman J. Haverkort, and A. Frank van der Stappen. On computing all immobilizing grasps of a simple polygon with few contacts. In Toshihide Ibaraki, Naoki Katoh, and Hirotaka Ono, editors, *Proceedings of the 14th International Symposium on Algorithms and Computation, ISAAC'2003 (Kyoto, Japan, December 15-17, 2003)*, volume 2906 of *LNCS*, pages 260–269. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[175] Otfried Cheong, Xavier Goaoc, and Hyeon-Suk Na. Disjoint unit spheres admit at most two line transversals. In Giuseppe Di Battista and Uri Zwick, editors, *Proceedings of the 11th Annual European Symposium on Algorithms, ESA'2003 (Budapest, Hungary, September 16-19, 2003)*, volume 2832 of *LNCS*, pages 127–135. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[176] Victor D. Chepoi, Feodor F. Dragan, and Chenyu Yan. Additive spanners for k-chordal graphs. In Rossella Petreschi, Giuseppe Persiano, and Riccardo Silvestri, editors, *Proceedings of the 5th Italian Conference of Algorithms and Complexity, CIAC'2003 (Rome, Italy, May 28-30, 2003)*, volume 2653 of *LNCS*, pages 96–107. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[177] Yannick Chevalier, Ralf Küsters, Michaël Rusinowitch, and Mathieu Turuani. Deciding the security of protocols with diffie-hellman exponentiation and products in exponents. In Paritosh K. Pandya and Jaikumar Radhakrishnan, editors, *Proceedings of the 23rd Conference on Foundations of Software Technology and Theoretical Computer Science, FSTTCS'2003 (Mumbai, India, December 15-17, 2003)*, volume 2914 of *LNCS*, pages 124–135. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[178] Francis Y.L. Chin and Stanley P.Y. Fung. Improved competitive algorithms for online scheduling with partial job values. In Tandy Warnow and Binhai Zhu, editors, *Proceedings of the 9th Annual International Conference on Computing and Combinatorics, COCOON'2003 (Big Sky, MT, USA, July 25-28, 2003)*, volume 2697 of *LNCS*, pages 425–434. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[179] Miroslav Chlebík and Janka Chlebíková. Approximation hardness for small occurrence instances *np*-hard problems. In Rossella Petreschi, Giuseppe Persiano, and Riccardo Silvestri, editors, *Proceedings of the 5th Italian Conference of Algorithms and Complexity, CIAC'2003 (Rome, Italy, May 28-30, 2003)*, volume 2653 of *LNCS*, pages 152–164. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[180] Miroslav Chlebík and Janka Chlebíková. Approximation hardness of minimum edge dominating set and minimum maximal matching. In Toshihide Ibaraki, Naoki Katoh, and Hirotaka Ono, editors, *Proceedings of the 14th International Symposium on Algorithms and Computation, ISAAC'2003 (Kyoto, Japan, December 15-17, 2003)*, volume 2906 of *LNCS*, pages 415–424. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[181] Marek Chrobak and Sgall Jří. Analysis of the harmonic algorithm for three servers. In Helmut Alt and Michel Habib, editors, *Proceedings of the 20th Annual Symposium on Theoretical Aspects of Computer Science, STACS'2003 (Berlin, Germany, February 27 - March 1, 2003)*, volume 2607 of *LNCS*, pages 247–259. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003. see Erratum in Proceedings of the 21st Annual Symposium on Theoretical Aspects of Computer Science, STACS'2004, 2004, 656-656.

[182] Jinhee Chun, Kunihiko Sadakane, and Takeshi Tokuyama. Linear time algorithm for approximating a curve by a single-peaked curve. In Toshihide Ibaraki, Naoki Katoh, and Hirotaka Ono, editors, *Proceedings of the 14th International Symposium on Algorithms and Computation, ISAAC'2003 (Kyoto, Japan, December 15-17, 2003)*, volume 2906 of

LNCS, pages 6–15. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[183] Kai-min Chung and Hsueh-I Lu. An optimal algorithm for the maximum-density segment problem. In Giuseppe Di Battista and Uri Zwick, editors, *Proceedings of the 11th Annual European Symposium on Algorithms, ESA'2003 (Budapest, Hungary, September 16-19, 2003)*, volume 2832 of *LNCS*, pages 136–147. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[184] Ren Hua Chung and Dan Gusfield. Empirical exploration of perfect phylogeny haplotyping and haplotypers. In Tandy Warnow and Binhai Zhu, editors, *Proceedings of the 9th Annual International Conference on Computing and Combinatorics, COCOON'2003 (Big Sky, MT, USA, July 25-28, 2003)*, volume 2697 of *LNCS*, pages 5–19. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[185] Ferdinando Cicalese and Christian Deppe. Quasi-perfect minimally adaptive q-ary search with unreliable tests. In Toshihide Ibaraki, Naoki Katoh, and Hirotaka Ono, editors, *Proceedings of the 14th International Symposium on Algorithms and Computation, ISAAC'2003 (Kyoto, Japan, December 15-17, 2003)*, volume 2906 of *LNCS*, pages 527–536. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[186] Mark Cieliebak, Stephan Eidenbenz, and Gerhard J. Woeginger. Double digest revisited: Complexity and approximability in the presence of noisy data. In Tandy Warnow and Binhai Zhu, editors, *Proceedings of the 9th Annual International Conference on Computing and Combinatorics, COCOON'2003 (Big Sky, MT, USA, July 25-28, 2003)*, volume 2697 of *LNCS*, pages 519–527. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[187] Mark Cieliebak, Paola Flocchini, Giuseppe Prencipe, and Nicola Santoro. Solving the robots gathering problem. In Jos C.M. Baeten, Jan Karel Lenstra, Joachim Parrow, and Gerhard J. Woeginger, editors, *Proceedings of the 30th International Colloquium on Automata, Languages and Programming, ICALP'2003 (Eindhoven, The*

Netherlands, June 30 - July 4, 2003), volume 2719 of *LNCS*, pages 1181–1196. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[188] Raphaël Clifford and Marek Sergot. Distributed and paged suffix trees for large genetic databases. In Ricardo Baeza-Yates, Edgar Chávez, and Maxime Crochmeore, editors, *Proceedings of the 14th Annual Symposium on Combinatorial Pattern Matching, CPM'2003 (Morelia, Michoacán, Mexico, June 25-27, 2003)*, volume 2676 of *LNCS*, pages 70–82. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[189] Amin Coja-Oghlan. Finding large independent sets in polynomial expected time. In Helmut Alt and Michel Habib, editors, *Proceedings of the 20th Annual Symposium on Theoretical Aspects of Computer Science, STACS'2003 (Berlin, Germany, February 27 - March 1, 2003)*, volume 2607 of *LNCS*, pages 511–522. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[190] Amin Coja-Oghlan, Sven O. Krumke, and Till Nierhoff. A heuristic for the stacker crane problem on trees which is almost surely exact. In Toshihide Ibaraki, Naoki Katoh, and Hirotaka Ono, editors, *Proceedings of the 14th International Symposium on Algorithms and Computation, ISAAC'2003 (Kyoto, Japan, December 15-17, 2003)*, volume 2906 of *LNCS*, pages 605–614. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[191] Amin Coja-Oghlan, Cristopher Moore, and Vishal Sanwalani. Max k-cut and approximating the chromatic number of random graphs. In Jos C.M. Baeten, Jan Karel Lenstra, Joachim Parrow, and Gerhard J. Woeginger, editors, *Proceedings of the 30th International Colloquium on Automata, Languages and Programming, ICALP'2003 (Eindhoven, The Netherlands, June 30 - July 4, 2003)*, volume 2719 of *LNCS*, pages 200–211. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[192] Amin Coja-Oghlan and Anusch Taraz. Colouring random graphs in expected polynomial time. In Helmut Alt and Michel Habib, editors, *Proceedings of the 20th Annual Symposium on Theoretical Aspects of Computer Science, STACS'2003 (Berlin, Germany, February 27 - March 1,*

2003), volume 2607 of *LNCS*, pages 487–498. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[193] Christian Collberg, Stephen Kobourov, Edward Carter, and Clark Thomborson. Error-correcting graphs for software watermarking. In Hans L. Bodlaender, editor, *Proceedings of the 29th International Workshop on Graph-Theoretic Concepts in Computer Science, WG'2003 (Elspeet, The Netherlands, June 19-21, 2003)*, volume 2880 of *LNCS*, pages 156–167. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[194] Michael J. Collins. Covering a set of points with a minimum number of turns. In Tandy Warnow and Binhai Zhu, editors, *Proceedings of the 9th Annual International Conference on Computing and Combinatorics, COCOON'2003 (Big Sky, MT, USA, July 25-28, 2003)*, volume 2697 of *LNCS*, pages 467–474. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[195] J.M. Colom. The resource allocation problem in flexible manufacturing systems. In Wil van der Aalst and Eike Best, editors, *Proceedings of the 24th International Conference on Applications and Theory of Petri Nets, ICATPN'2003 (Eindhoven, The Netherlands, June 23-27, 2003)*, volume 2679 of *LNCS*, pages 23–35. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[196] Anne Condon. Problems on rna secondary structure prediction and design. In Jos C.M. Baeten, Jan Karel Lenstra, Joachim Parrow, and Gerhard J. Woeginger, editors, *Proceedings of the 30th International Colloquium on Automata, Languages and Programming, ICALP'2003 (Eindhoven, The Netherlands, June 30 - July 4, 2003)*, volume 2719 of *LNCS*, pages 22–32. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[197] Massimo Coppola and Martin Schmollinger. Hierarchical models and software tools for parallel programming. In Ulrich Meyer, Peter Sanders, and Jop Sibeyn, editors, *Algorithms for Memory Hierarchies — Advanced Lectures*, volume 2625 of *LNCS*, pages 320–354. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[198] Emmanuel Coquery and François Fages. Subtyping constraints in quasi-lattices. In Paritosh K. Pandya and Jaikumar Radhakrishnan, editors, *Proceedings of the 23rd Conference on Foundations of Software Technology and Theoretical Computer Science, FSTTCS'2003 (Mumbai, India, December 15-17, 2003)*, volume 2914 of *LNCS*, pages 136–148. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[199] Graham Cormode and S. Muthukrishnan. Estimating dominance norms of multiple data streams. In Giuseppe Di Battista and Uri Zwick, editors, *Proceedings of the 11th Annual European Symposium on Algorithms, ESA'2003 (Budapest, Hungary, September 16-19, 2003)*, volume 2832 of *LNCS*, pages 148–160. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[200] Sabine Cornelsen and Dorothea Wagner. Completely connected clustered graphs. In Hans L. Bodlaender, editor, *Proceedings of the 29th International Workshop on Graph-Theoretic Concepts in Computer Science, WG'2003 (Elspeet, The Netherlands, June 19-21, 2003)*, volume 2880 of *LNCS*, pages 168–179. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[201] Pilu Crescenzi, Giorgio Gambosi, Gaia Nicosia, Paolo Penna, and Walter Unger. Online load balancing made simple: Greedy strikes back. In Jos C.M. Baeten, Jan Karel Lenstra, Joachim Parrow, and Gerhard J. Woeginger, editors, *Proceedings of the 30th International Colloquium on Automata, Languages and Programming, ICALP'2003 (Eindhoven, The Netherlands, June 30 - July 4, 2003)*, volume 2719 of *LNCS*, pages 1108–1122. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[202] Artur Czumaj, Andrzej Lingas, and Johan Nilsson. Improved approximation algorithms for optimization problems in graphs with superlogarithmic treewidth. In Toshihide Ibaraki, Naoki Katoh, and Hirotaka Ono, editors, *Proceedings of the 14th International Symposium on Algorithms and Computation, ISAAC'2003 (Kyoto, Japan, December 15-17, 2003)*, volume 2906 of *LNCS*, pages 544–553. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[203] A. Czygrinow and M. Hańćkowiak. Distributed algorithm for better approximation of the maximum matching. In Tandy Warnow and Binhai Zhu, editors, *Proceedings of the 9th Annual International Conference on Computing and Combinatorics, COCOON'2003 (Big Sky, MT, USA, July 25-28, 2003)*, volume 2697 of *LNCS*, pages 242–251. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[204] Ovidiu Daescu and Ningfang Mi. Polygonal path approximation: A query based approach. In Toshihide Ibaraki, Naoki Katoh, and Hirotaka Ono, editors, *Proceedings of the 14th International Symposium on Algorithms and Computation, ISAAC'2003 (Kyoto, Japan, December 15-17, 2003)*, volume 2906 of *LNCS*, pages 36–46. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[205] H.K. Dai and H.C. Su. On the locality properties of space-filling curves. In Toshihide Ibaraki, Naoki Katoh, and Hirotaka Ono, editors, *Proceedings of the 14th International Symposium on Algorithms and Computation, ISAAC'2003 (Kyoto, Japan, December 15-17, 2003)*, volume 2906 of *LNCS*, pages 385–394. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[206] Victor Dalmau and Daniel K. Ford. Generalized satisfiability with limited occurrences per variable: A study through delta-matroid parity. In Branislav Rovan and Peter Vojtáš, editors, *Proceedings of the 28th International Symposium on Mathematical Foundations of Computer Science, MFCS'2003 (Bratislava, Slovakia, August 25-29, 2003)*, volume 2747 of *LNCS*, pages 358–367. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[207] Peter Damaschke. Distributed soft path coloring. In Helmut Alt and Michel Habib, editors, *Proceedings of the 20th Annual Symposium on Theoretical Aspects of Computer Science, STACS'2003 (Berlin, Germany, February 27 - March 1, 2003)*, volume 2607 of *LNCS*, pages 523–534. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[208] Valentina Damerow, Friedhelm Meyer auf der Heide, Harald Räcke, Christian Scheideler, and Christian Sohler. Smoothed motion com-

plexity. In Giuseppe Di Battista and Uri Zwick, editors, *Proceedings of the 11th Annual European Symposium on Algorithms, ESA'2003 (Budapest, Hungary, September 16-19, 2003)*, volume 2832 of *LNCS*, pages 161–171. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[209] Annalisa De Bonis, Leszek Gąsieniec, and Ugo Vaccaro. Generalized framework for selectors with applications in optimal group testing. In Jos C.M. Baeten, Jan Karel Lenstra, Joachim Parrow, and Gerhard J. Woeginger, editors, *Proceedings of the 30th International Colloquium on Automata, Languages and Programming, ICALP'2003 (Eindhoven, The Netherlands, June 30 - July 4, 2003)*, volume 2719 of *LNCS*, pages 81–96. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[210] Gianluca De Marco and Andrzej Pelc. Randomized algorithms for determining the majority on graphs. In Branislav Rovan and Peter Vojtáš, editors, *Proceedings of the 28th International Symposium on Mathematical Foundations of Computer Science, MFCS'2003 (Bratislava, Slovakia, August 25-29, 2003)*, volume 2747 of *LNCS*, pages 368–377. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[211] Brian C. Dean and Michel X. Goemans. Improved approximation algorithms for minimum-space advertisement scheduling. In Jos C.M. Baeten, Jan Karel Lenstra, Joachim Parrow, and Gerhard J. Woeginger, editors, *Proceedings of the 30th International Colloquium on Automata, Languages and Programming, ICALP'2003 (Eindhoven, The Netherlands, June 30 - July 4, 2003)*, volume 2719 of *LNCS*, pages 1138–1152. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[212] Frank Dehne, Michael R. Fellows, and Frances A. Rosamond. An fpt algorithm for set splitting. In Hans L. Bodlaender, editor, *Proceedings of the 29th International Workshop on Graph-Theoretic Concepts in Computer Science, WG'2003 (Elspeet, The Netherlands, June 19-21, 2003)*, volume 2880 of *LNCS*, pages 180–191. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[213] Christian Delhommé, Teodor Knapik, and D. Gnanaraj Thomas. Using transitive-closure logic for deciding linear properties of monoids. In Branislav Rovan and Peter Vojtáš, editors, *Proceedings of the 28th International Symposium on Mathematical Foundations of Computer Science, MFCS'2003 (Bratislava, Slovakia, August 25-29, 2003)*, volume 2747 of *LNCS*, pages 378–387. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[214] Erik D. Demaine, Fedor V. Fomin, Mohammad Taghi Hajiaghayi, and Dimitrios M. Thilikos. Fixed-parameter algorithms for the (k, r)-center in planar graphs and map graphs. In Jos C.M. Baeten, Jan Karel Lenstra, Joachim Parrow, and Gerhard J. Woeginger, editors, *Proceedings of the 30th International Colloquium on Automata, Languages and Programming, ICALP'2003 (Eindhoven, The Netherlands, June 30 - July 4, 2003)*, volume 2719 of *LNCS*, pages 829–844. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[215] Erik D. Demaine, Susan Hohenberger, and David Liben-Nowell. Tetris is hard, even to approximate. In Tandy Warnow and Binhai Zhu, editors, *Proceedings of the 9th Annual International Conference on Computing and Combinatorics, COCOON'2003 (Big Sky, MT, USA, July 25-28, 2003)*, volume 2697 of *LNCS*, pages 351–363. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[216] Erik D. Demaine, Stefan Langerman, and Joseph O'Rourke. Geometric restrictions on producible polygonal protein chains. In Toshihide Ibaraki, Naoki Katoh, and Hirotaka Ono, editors, *Proceedings of the 14th International Symposium on Algorithms and Computation, ISAAC'2003 (Kyoto, Japan, December 15-17, 2003)*, volume 2906 of *LNCS*, pages 395–404. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[217] Xiaotie Deng, Qizhi Fang, and Shanfeng Zhu. Approximate rank aggregation. In Tandy Warnow and Binhai Zhu, editors, *Proceedings of the 9th Annual International Conference on Computing and Combinatorics, COCOON'2003 (Big Sky, MT, USA, July 25-28, 2003)*, volume

2697 of *LNCS*, pages 262–271. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[218] François Denis and Yann Esposito. Residual languages and probabilistic automata. In Jos C.M. Baeten, Jan Karel Lenstra, Joachim Parrow, and Gerhard J. Woeginger, editors, *Proceedings of the 30th International Colloquium on Automata, Languages and Programming, ICALP'2003 (Eindhoven, The Netherlands, June 30 - July 4, 2003)*, volume 2719 of *LNCS*, pages 452–463. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[219] Anders Dessmark, Pierre Fraigniaud, and Andrzej Pelc. Deterministic rendezvous in graphs. In Giuseppe Di Battista and Uri Zwick, editors, *Proceedings of the 11th Annual European Symposium on Algorithms, ESA'2003 (Budapest, Hungary, September 16-19, 2003)*, volume 2832 of *LNCS*, pages 184–195. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[220] Nikhil R. Devanur and Vijay V. Vazirani. An improved approximation scheme for computing arrow-debreu prices for the linear case. In Paritosh K. Pandya and Jaikumar Radhakrishnan, editors, *Proceedings of the 23rd Conference on Foundations of Software Technology and Theoretical Computer Science, FSTTCS'2003 (Mumbai, India, December 15-17, 2003)*, volume 2914 of *LNCS*, pages 149–155. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[221] Tamal K. Dey, Joachim Giesen, and Samrat Goswami. Shape segmentation and matching with flow discretization. In Frank Dehne, Jörg-Rüdiger Sack, and Michiel Smid, editors, *Proceedings of the 8th International Workshop on Algorithms and Data Structures, WADS'2003 (ottawa, Ontario, Canada, July 30 - August 1, 2003)*, volume 2748 of *LNCS*, pages 25–36. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[222] E. Di Di Ciacomo, W. Didimo, G. Liotta, and S.K. Wismath. Drawing planar graphs on a curve. In Hans L. Bodlaender, editor, *Proceedings of the 29th International Workshop on Graph-Theoretic Concepts in Computer Science, WG'2003 (Elspeet, The Netherlands, June 19-21,*

2003), volume 2880 of *LNCS*, pages 192–204. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[223] Giovanni Di Crescenzo and Clemente Galdi. Hypergraph decomposition and secret sharing. In Toshihide Ibaraki, Naoki Katoh, and Hirotaka Ono, editors, *Proceedings of the 14th International Symposium on Algorithms and Computation, ISAAC'2003 (Kyoto, Japan, December 15-17, 2003)*, volume 2906 of *LNCS*, pages 645–654. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[224] Luca Di Gaspero, Johannes Gärtner, Guy Kortsarz, Nysret Musliu, Andrea Schaerf, and Wolfgang Slany. The minimum shift design problem: Theory and practice. In Giuseppe Di Battista and Uri Zwick, editors, *Proceedings of the 11th Annual European Symposium on Algorithms, ESA'2003 (Budapest, Hungary, September 16-19, 2003)*, volume 2832 of *LNCS*, pages 593–604. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[225] José Miguel Díaz-Báñez, Ferran Hurtado, Mario Alberto López, and J. Antoni Sellarès. Optimal point set projections onto regular grids. In Toshihide Ibaraki, Naoki Katoh, and Hirotaka Ono, editors, *Proceedings of the 14th International Symposium on Algorithms and Computation, ISAAC'2003 (Kyoto, Japan, December 15-17, 2003)*, volume 2906 of *LNCS*, pages 270–279. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[226] Volker Diekert and Markus Lohrey. Word equations over graph products. In Paritosh K. Pandya and Jaikumar Radhakrishnan, editors, *Proceedings of the 23rd Conference on Foundations of Software Technology and Theoretical Computer Science, FSTTCS'2003 (Mumbai, India, December 15-17, 2003)*, volume 2914 of *LNCS*, pages 156–167. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[227] Cunsheng Ding, Arto Salomaa, Patrick Solé, and Xiaojian Tian. Three constructions of authentication/secrecy codes. In Marc Fossorier, Tom Høholdt, and Alain Poli, editors, *Proceedings of the 15th International Symposium on Applied Algebra, Algebraic Algorithms and Error-Correcting Codes, AAECC'2003 (Toulouse, France, May 12-16, 2003)*,

volume 2643 of *LNCS*, pages 24–33. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[228] Ivana Djurdjevic, Jun Xu, Khaled Abdel-Ghaffar, and Shu Lin. A class of low-density parity-check codes constructed based on reed-solomon codes with two information symbols. In Marc Fossorier, Tom Høholdt, and Alain Poli, editors, *Proceedings of the 15th International Symposium on Applied Algebra, Algebraic Algorithms and Error-Correcting Codes, AAECC'2003 (Toulouse, France, May 12-16, 2003)*, volume 2643 of *LNCS*, pages 98–107. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[229] Ernst-Erich Doberkat. Semi-pullbacks and bisimulations in categories of stochastic relations. In Jos C.M. Baeten, Jan Karel Lenstra, Joachim Parrow, and Gerhard J. Woeginger, editors, *Proceedings of the 30th International Colloquium on Automata, Languages and Programming, ICALP'2003 (Eindhoven, The Netherlands, June 30 - July 4, 2003)*, volume 2719 of *LNCS*, pages 996–1007. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[230] Manfred Droste and Dietrich Kuske. Skew and infinitary formal power series. In Jos C.M. Baeten, Jan Karel Lenstra, Joachim Parrow, and Gerhard J. Woeginger, editors, *Proceedings of the 30th International Colloquium on Automata, Languages and Programming, ICALP'2003 (Eindhoven, The Netherlands, June 30 - July 4, 2003)*, volume 2719 of *LNCS*, pages 426–438. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[231] Devdatt Dubhashi, Luigi Laura, and Alessandro Panconesi. Analysis and experimental evaluation of a simple algorithm for collaborative filtering in planted partition models. In Paritosh K. Pandya and Jaikumar Radhakrishnan, editors, *Proceedings of the 23rd Conference on Foundations of Software Technology and Theoretical Computer Science, FSTTCS'2003 (Mumbai, India, December 15-17, 2003)*, volume 2914 of *LNCS*, pages 168–182. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[232] William Duckworth and Bernard Mans. Randomised algorithms for finding small weakly-connected dominating sets of regular graphs. In

Rossella Petreschi, Giuseppe Persiano, and Riccardo Silvestri, editors, *Proceedings of the 5th Italian Conference of Algorithms and Complexity, CIAC'2003 (Rome, Italy, May 28-30, 2003)*, volume 2653 of *LNCS*, pages 83–95. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[233] Vida Dujmović and David R. Wood. Tree-partitions of k-trees with applications in graph layout. In Hans L. Bodlaender, editor, *Proceedings of the 29th International Workshop on Graph-Theoretic Concepts in Computer Science, WG'2003 (Elspeet, The Netherlands, June 19-21, 2003)*, volume 2880 of *LNCS*, pages 205–217. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[234] Serge Dulucq and Hélène Touzet. Analysis of tree edit distance algorithms. In Ricardo Baeza-Yates, Edgar Chávez, and Maxime Crochmeore, editors, *Proceedings of the 14th Annual Symposium on Combinatorial Pattern Matching, CPM'2003 (Morelia, Michoacán, Mexico, June 25-27, 2003)*, volume 2676 of *LNCS*, pages 83–95. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[235] Adrian Dumitrescu. Efficient algorithms for generation of combinatorial covering suites. In Toshihide Ibaraki, Naoki Katoh, and Hirotaka Ono, editors, *Proceedings of the 14th International Symposium on Algorithms and Computation, ISAAC'2003 (Kyoto, Japan, December 15-17, 2003)*, volume 2906 of *LNCS*, pages 300–308. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[236] Christian A. Duncan. Multi-way space partitioning trees. In Frank Dehne, Jörg-Rüdiger Sack, and Michiel Smid, editors, *Proceedings of the 8th International Workshop on Algorithms and Data Structures, WADS'2003 (ottawa, Ontario, Canada, July 30 - August 1, 2003)*, volume 2748 of *LNCS*, pages 219–230. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[237] Arnaud Durand and Miki Hermann. The inference problem for propositional circumscription of affine formulas is conp-complete. In Helmut Alt and Michel Habib, editors, *Proceedings of the 20th Annual*

Symposium on Theoretical Aspects of Computer Science, STACS'2003 (Berlin, Germany, February 27 - March 1, 2003), volume 2607 of *LNCS*, pages 451–462. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[238] Marianne Durand and Philippe Flajolet. Loglog counting of large cardinalities. In Giuseppe Di Battista and Uri Zwick, editors, *Proceedings of the 11th Annual European Symposium on Algorithms, ESA'2003 (Budapest, Hungary, September 16-19, 2003)*, volume 2832 of *LNCS*, pages 605–617. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[239] Jean-Pierre Duval, Roman Kolpakov, Gregory Kucherov, Thierry Lecroq, and Arnaud Lefebvre. Linear-time computation of local periods. In Branislav Rovan and Peter Vojtáš, editors, *Proceedings of the 28th International Symposium on Mathematical Foundations of Computer Science, MFCS'2003 (Bratislava, Slovakia, August 25-29, 2003)*, volume 2747 of *LNCS*, pages 388–397. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[240] Annette Ebbers-Baumann, Ansgar Grüne, and Rolf Klein. On the geometric dilation of finite point sets. In Toshihide Ibaraki, Naoki Katoh, and Hirotaka Ono, editors, *Proceedings of the 14th International Symposium on Algorithms and Computation, ISAAC'2003 (Kyoto, Japan, December 15-17, 2003)*, volume 2906 of *LNCS*, pages 250–259. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[241] Stefan Edelkamp. Memory limitations in artificial intelligence. In Ulrich Meyer, Peter Sanders, and Jop Sibeyn, editors, *Algorithms for Memory Hierarchies — Advanced Lectures*, volume 2625 of *LNCS*, pages 233–250. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[242] Akinobu Eguchi, Satoru Fujishige, and Akihisa Tamura. A generalized gale-shapley algorithm for a discrete-concave stable-marriage model. In Toshihide Ibaraki, Naoki Katoh, and Hirotaka Ono, editors, *Proceedings of the 14th International Symposium on Algorithms and Computation, ISAAC'2003 (Kyoto, Japan, December 15-17, 2003)*, volume

2906 of *LNCS*, pages 495–504. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[243] Stephan Eidenbenz, Aris Pagourtzis, and Peter Widmayer. Flexible train rostering. In Toshihide Ibaraki, Naoki Katoh, and Hirotaka Ono, editors, *Proceedings of the 14th International Symposium on Algorithms and Computation, ISAAC'2003 (Kyoto, Japan, December 15-17, 2003)*, volume 2906 of *LNCS*, pages 615–624. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[244] Friedrich Eisenbrand. Fast integer programming in fixed dimension. In Giuseppe Di Battista and Uri Zwick, editors, *Proceedings of the 11th Annual European Symposium on Algorithms, ESA'2003 (Budapest, Hungary, September 16-19, 2003)*, volume 2832 of *LNCS*, pages 196–207. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[245] Friedrich Eisenbrand, Stefan Funke, Joachim Reichel, and Elmar Schömer. Packing a trunk. In Giuseppe Di Battista and Uri Zwick, editors, *Proceedings of the 11th Annual European Symposium on Algorithms, ESA'2003 (Budapest, Hungary, September 16-19, 2003)*, volume 2832 of *LNCS*, pages 618–629. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[246] Friedrich Eisenbrand and Sören Laue. A faster algorithm for two-variable integer programming. In Toshihide Ibaraki, Naoki Katoh, and Hirotaka Ono, editors, *Proceedings of the 14th International Symposium on Algorithms and Computation, ISAAC'2003 (Kyoto, Japan, December 15-17, 2003)*, volume 2906 of *LNCS*, pages 290–299. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[247] Cindy Eisner, Dana Fisman, John Havlicek, Anthony McIsaac, and David Van Campenhout. The definition of a temporal clock operator. In Jos C.M. Baeten, Jan Karel Lenstra, Joachim Parrow, and Gerhard J. Woeginger, editors, *Proceedings of the 30th International Colloquium on Automata, Languages and Programming, ICALP'2003 (Eindhoven, The Netherlands, June 30 - July 4, 2003)*, volume 2719 of

LNCS, pages 857–870. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[248] Olivier Elemento and Olivier Gascuel. An exact and polynomial distance-based algorithm to reconstruct single copy tandem duplication trees. In Ricardo Baeza-Yates, Edgar Chávez, and Maxime Crochmeore, editors, *Proceedings of the 14th Annual Symposium on Combinatorial Pattern Matching, CPM'2003 (Morelia, Michoacán, Mexico, June 25-27, 2003)*, volume 2676 of *LNCS*, pages 96–108. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[249] Isaac Elias. Settling the intractability of multiple alignment. In Toshihide Ibaraki, Naoki Katoh, and Hirotaka Ono, editors, *Proceedings of the 14th International Symposium on Algorithms and Computation, ISAAC'2003 (Kyoto, Japan, December 15-17, 2003)*, volume 2906 of *LNCS*, pages 352–363. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[250] Michael Elkin and Guy Kortsarz. Approximation algorithm for directed telephone multicast problem. In Jos C.M. Baeten, Jan Karel Lenstra, Joachim Parrow, and Gerhard J. Woeginger, editors, *Proceedings of the 30th International Colloquium on Automata, Languages and Programming, ICALP'2003 (Eindhoven, The Netherlands, June 30 - July 4, 2003)*, volume 2719 of *LNCS*, pages 212–223. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[251] C.A. Ellis. Net models supporting human and humane behaviors. In Wil van der Aalst and Eike Best, editors, *Proceedings of the 24th International Conference on Applications and Theory of Petri Nets, ICATPN'2003 (Eindhoven, The Netherlands, June 23-27, 2003)*, volume 2679 of *LNCS*, pages 43–43. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[252] Amr Elmasry. Distribution-sensitive binomial queues. In Frank Dehne, Jörg-Rüdiger Sack, and Michiel Smid, editors, *Proceedings of the 8th International Workshop on Algorithms and Data Structures, WADS'2003 (ottawa, Ontario, Canada, July 30 - August 1, 2003)*, volume 2748 of *LNCS*, pages 103–113. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[253] Amr Elmasry. Three sorting algorithms using priority queues. In Toshihide Ibaraki, Naoki Katoh, and Hirotaka Ono, editors, *Proceedings of the 14th International Symposium on Algorithms and Computation, ISAAC'2003 (Kyoto, Japan, December 15-17, 2003)*, volume 2906 of *LNCS*, pages 209–220. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[254] Amr Elmasry and Michael L. Fredman. Adaptive sorting and the information theoretic lower bound. In Helmut Alt and Michel Habib, editors, *Proceedings of the 20th Annual Symposium on Theoretical Aspects of Computer Science, STACS'2003 (Berlin, Germany, February 27 - March 1, 2003)*, volume 2607 of *LNCS*, pages 654–662. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[255] Dotan Emanuel and Amos Fiat. Correlation clustering — minimizing disagreements on arbitrary weighted graphs. In Giuseppe Di Battista and Uri Zwick, editors, *Proceedings of the 11th Annual European Symposium on Algorithms, ESA'2003 (Budapest, Hungary, September 16-19, 2003)*, volume 2832 of *LNCS*, pages 208–220. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[256] Sylvia Encheva and Gérard Cohen. Copyright control and separating systems. In Marc Fossorier, Tom Høholdt, and Alain Poli, editors, *Proceedings of the 15th International Symposium on Applied Algebra, Algebraic Algorithms and Error-Correcting Codes, AAECC'2003 (Toulouse, France, May 12-16, 2003)*, volume 2643 of *LNCS*, pages 79–86. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[257] Andreas Enge and François Morain. Fast decomposition of polynomials with known galois group. In Marc Fossorier, Tom Høholdt, and Alain Poli, editors, *Proceedings of the 15th International Symposium on Applied Algebra, Algebraic Algorithms and Error-Correcting Codes, AAECC'2003 (Toulouse, France, May 12-16, 2003)*, volume 2643 of *LNCS*, pages 254–264. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[258] David Eppstein. The traveling salesman problem for cubic graphs. In Frank Dehne, Jörg-Rüdiger Sack, and Michiel Smid, editors, *Proceedings of the 8th International Workshop on Algorithms and Data Structures, WADS'2003 (ottawa, Ontario, Canada, July 30 - August 1, 2003)*, volume 2748 of *LNCS*, pages 307–318. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[259] Leah Epstein. Two dimensional packing: The power of rotation. In Branislav Rovan and Peter Vojtáš, editors, *Proceedings of the 28th International Symposium on Mathematical Foundations of Computer Science, MFCS'2003 (Bratislava, Slovakia, August 25-29, 2003)*, volume 2747 of *LNCS*, pages 398–407. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[260] Leah Epstein and Tamir Tassa. Approximation schemes for the min-max starting time problem. In Branislav Rovan and Peter Vojtáš, editors, *Proceedings of the 28th International Symposium on Mathematical Foundations of Computer Science, MFCS'2003 (Bratislava, Slovakia, August 25-29, 2003)*, volume 2747 of *LNCS*, pages 408–418. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[261] Funda Ergun, S. Muthukrishnan, and S. Cenk Sahinalp. Comparing sequences with segment rearrangements. In Paritosh K. Pandya and Jaikumar Radhakrishnan, editors, *Proceedings of the 23rd Conference on Foundations of Software Technology and Theoretical Computer Science, FSTTCS'2003 (Mumbai, India, December 15-17, 2003)*, volume 2914 of *LNCS*, pages 183–194. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[262] Thomas Erlebach, Aris Pagourtzis, Katerina Potika, and Stamatis Stefanakos. Resource allocation problems in multifiber wdm tree networks. In Hans L. Bodlaender, editor, *Proceedings of the 29th International Workshop on Graph-Theoretic Concepts in Computer Science, WG'2003 (Elspeet, The Netherlands, June 19-21, 2003)*, volume 2880 of *LNCS*, pages 218–229. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[263] Thomas Erlebach and Stamatis Stefanakos. On shortest-path all-optical networks without wavelength conversion requirements. In Hel-

mut Alt and Michel Habib, editors, *Proceedings of the 20th Annual Symposium on Theoretical Aspects of Computer Science, STACS'2003 (Berlin, Germany, February 27 - March 1, 2003)*, volume 2607 of *LNCS*, pages 133–144. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[264] Thomas Erlebach and Stamatis Stefanakos. Wavelength conversion in shortest-path all-optical networks. In Toshihide Ibaraki, Naoki Katoh, and Hirotaka Ono, editors, *Proceedings of the 14th International Symposium on Algorithms and Computation, ISAAC'2003 (Kyoto, Japan, December 15-17, 2003)*, volume 2906 of *LNCS*, pages 595–604. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[265] Behdad Esfahbod, Mohammad Ghodsi, and Ali Sharifi. Common-deadline lazy bureaucrat scheduling problems. In Frank Dehne, Jörg-Rüdiger Sack, and Michiel Smid, editors, *Proceedings of the 8th International Workshop on Algorithms and Data Structures, WADS'2003 (ottawa, Ontario, Canada, July 30 - August 1, 2003)*, volume 2748 of *LNCS*, pages 59–66. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[266] Rik Eshuis and Juliane Dehnert. Reactive petri nets for workflow modeling. In Wil van der Aalst and Eike Best, editors, *Proceedings of the 24th International Conference on Applications and Theory of Petri Nets, ICATPN'2003 (Eindhoven, The Netherlands, June 23-27, 2003)*, volume 2679 of *LNCS*, pages 296–315. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[267] Zoltán Ésik and Pascal Weil. On logically defined recognizable tree languages. In Paritosh K. Pandya and Jaikumar Radhakrishnan, editors, *Proceedings of the 23rd Conference on Foundations of Software Technology and Theoretical Computer Science, FSTTCS'2003 (Mumbai, India, December 15-17, 2003)*, volume 2914 of *LNCS*, pages 195–207. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[268] Patricia A. Evans and Andrew D. Smith. Toward optimal motif enumeration. In Frank Dehne, Jörg-Rüdiger Sack, and Michiel Smid, editors, *Proceedings of the 8th International Workshop on Algorithms*

and Data Structures, WADS'2003 (ottawa, Ontario, Canada, July 30 - August 1, 2003), volume 2748 of *LNCS*, pages 47–58. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[269] Eyal Even-Dar, Alex Kesselman, and Yishay Mansour. Convergence time to nash equilibria. In Jos C.M. Baeten, Jan Karel Lenstra, Joachim Parrow, and Gerhard J. Woeginger, editors, *Proceedings of the 30th International Colloquium on Automata, Languages and Programming, ICALP'2003 (Eindhoven, The Netherlands, June 30 - July 4, 2003)*, volume 2719 of *LNCS*, pages 502–513. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[270] Luerbio Faria, Celina M. Herrera de Figueiredo, Ondrej Sýkora, and Imrich Vrt'o. An improved upper bound on the crossing number of the hypercube. In Hans L. Bodlaender, editor, *Proceedings of the 29th International Workshop on Graph-Theoretic Concepts in Computer Science, WG'2003 (Elspeet, The Netherlands, June 19-21, 2003)*, volume 2880 of *LNCS*, pages 230–236. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[271] T. Feder, R. Motwani, L. O'Callaghan, C. Olston, and R. Panigrahy. Computing shortest paths with uncertainty. In Helmut Alt and Michel Habib, editors, *Proceedings of the 20th Annual Symposium on Theoretical Aspects of Computer Science, STACS'2003 (Berlin, Germany, February 27 - March 1, 2003)*, volume 2607 of *LNCS*, pages 367–378. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[272] Tomas Feder, Adam Meyerson, Rajeev Motwani, Loc O'Callaghan, and Rinap Panigrahy. Representing graph metrics with fewest edges. In Helmut Alt and Michel Habib, editors, *Proceedings of the 20th Annual Symposium on Theoretical Aspects of Computer Science, STACS'2003 (Berlin, Germany, February 27 - March 1, 2003)*, volume 2607 of *LNCS*, pages 355–366. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[273] Sándor P. Fekete and Henk Meijer. The one-round voronoi game replayed. In Frank Dehne, Jörg-Rüdiger Sack, and Michiel Smid, editors,

Proceedings of the 8th International Workshop on Algorithms and Data Structures, WADS'2003 (ottawa, Ontario, Canada, July 30 - August 1, 2003), volume 2748 of *LNCS*, pages 150–161. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[274] R. Feldmann, M. Gairing, Thomas Lücking, Burkhard Monien, and Manuel Rode. Selfish routing in non-cooperative networks: A survey. In Branislav Rovan and Peter Vojtáš, editors, *Proceedings of the 28th International Symposium on Mathematical Foundations of Computer Science, MFCS'2003 (Bratislava, Slovakia, August 25-29, 2003)*, volume 2747 of *LNCS*, pages 21–45. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[275] Rainer Feldmann, Martin Gairing, Thomas Lücking, Burkhard Monien, and Manuel Rode. Nashification and the coordination ratio for a selfish routing game. In Jos C.M. Baeten, Jan Karel Lenstra, Joachim Parrow, and Gerhard J. Woeginger, editors, *Proceedings of the 30th International Colloquium on Automata, Languages and Programming, ICALP'2003 (Eindhoven, The Netherlands, June 30 - July 4, 2003)*, volume 2719 of *LNCS*, pages 514–526. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[276] Michael R. Fellows. Blow-ups, win/win's, and crown rules: Some new directions in fpt. In Hans L. Bodlaender, editor, *Proceedings of the 29th International Workshop on Graph-Theoretic Concepts in Computer Science, WG'2003 (Elspeet, The Netherlands, June 19-21, 2003)*, volume 2880 of *LNCS*, pages 1–12. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[277] Michael R. Fellows. New directions and new challenges in algorithm design and complexity, parameterized. In Frank Dehne, Jörg-Rüdiger Sack, and Michiel Smid, editors, *Proceedings of the 8th International Workshop on Algorithms and Data Structures, WADS'2003 (ottawa, Ontario, Canada, July 30 - August 1, 2003)*, volume 2748 of *LNCS*, pages 505–519. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[278] Jiří Fiala and Daniël Paulusma. The computational complexity of the role assignment problem. In Jos C.M. Baeten, Jan Karel Lenstra,

Joachim Parrow, and Gerhard J. Woeginger, editors, *Proceedings of the 30th International Colloquium on Automata, Languages and Programming, ICALP'2003 (Eindhoven, The Netherlands, June 30 - July 4, 2003)*, volume 2719 of *LNCS*, pages 817–828. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[279] Amos Fiat. Some issues regarding search, censorship, and anonymity in peer to peer networks. In Jos C.M. Baeten, Jan Karel Lenstra, Joachim Parrow, and Gerhard J. Woeginger, editors, *Proceedings of the 30th International Colloquium on Automata, Languages and Programming, ICALP'2003 (Eindhoven, The Netherlands, June 30 - July 4, 2003)*, volume 2719 of *LNCS*, pages 33–33. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[280] E. Fischer and J.A. Makowsky. The specker-blatter theorem revisited. In Tandy Warnow and Binhai Zhu, editors, *Proceedings of the 9th Annual International Conference on Computing and Combinatorics, COCOON'2003 (Big Sky, MT, USA, July 25-28, 2003)*, volume 2697 of *LNCS*, pages 90–101. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[281] Kaspar Fischer, Bernd Gärtner, and Martin Kutz. Fast smallest-enclosing-ball computation in high dimensions. In Giuseppe Di Battista and Uri Zwick, editors, *Proceedings of the 11th Annual European Symposium on Algorithms, ESA'2003 (Budapest, Hungary, September 16-19, 2003)*, volume 2832 of *LNCS*, pages 630–641. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[282] Wieland Fischer and Jean-Pierre Seifert. Unfolded modular multiplication. In Toshihide Ibaraki, Naoki Katoh, and Hirotaka Ono, editors, *Proceedings of the 14th International Symposium on Algorithms and Computation, ISAAC'2003 (Kyoto, Japan, December 15-17, 2003)*, volume 2906 of *LNCS*, pages 726–735. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[283] Aleksei V. Fishkin, Klaus Jansen, and Monaldo Mastrolilli. On minimizing average weighted completion time: A ptas for the job shop

problem with release dates. In Toshihide Ibaraki, Naoki Katoh, and Hirotaka Ono, editors, *Proceedings of the 14th International Symposium on Algorithms and Computation, ISAAC'2003 (Kyoto, Japan, December 15-17, 2003)*, volume 2906 of *LNCS*, pages 319–328. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[284] Hans Fleischhack and Elisabeth Pelz. Hierarchical timed high level nets and their branching processes. In Wil van der Aalst and Eike Best, editors, *Proceedings of the 24th International Conference on Applications and Theory of Petri Nets, ICATPN'2003 (Eindhoven, The Netherlands, June 23-27, 2003)*, volume 2679 of *LNCS*, pages 397–416. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[285] Fedor V. Fomin and Dimtirios M. Thilikos. Dominating sets and local treewidth. In Giuseppe Di Battista and Uri Zwick, editors, *Proceedings of the 11th Annual European Symposium on Algorithms, ESA'2003 (Budapest, Hungary, September 16-19, 2003)*, volume 2832 of *LNCS*, pages 221–229. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[286] Dimitris Fotakis. On the competitive ratio for online facility location. In Jos C.M. Baeten, Jan Karel Lenstra, Joachim Parrow, and Gerhard J. Woeginger, editors, *Proceedings of the 30th International Colloquium on Automata, Languages and Programming, ICALP'2003 (Eindhoven, The Netherlands, June 30 - July 4, 2003)*, volume 2719 of *LNCS*, pages 637–652. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[287] Dimitris Fotakis, Rasmus Pagh, Peter Sanders, and Paul Spirakis. Space efficient hash tables with worst case constant access time. In Helmut Alt and Michel Habib, editors, *Proceedings of the 20th Annual Symposium on Theoretical Aspects of Computer Science, STACS'2003 (Berlin, Germany, February 27 - March 1, 2003)*, volume 2607 of *LNCS*, pages 271–282. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[288] Gianni Franceschini and Roberto Grossi. Optimal cache-oblivious implicit dictionaries. In Jos C.M. Baeten, Jan Karel Lenstra, Joachim

Parrow, and Gerhard J. Woeginger, editors, *Proceedings of the 30th International Colloquium on Automata, Languages and Programming, ICALP'2003 (Eindhoven, The Netherlands, June 30 - July 4, 2003)*, volume 2719 of *LNCS*, pages 316–331. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[289] Gianni Franceschini and Roberto Grossi. Optimal worst-case operations for implicit cache-oblivious search trees. In Frank Dehne, Jörg-Rüdiger Sack, and Michiel Smid, editors, *Proceedings of the 8th International Workshop on Algorithms and Data Structures, WADS'2003 (ottawa, Ontario, Canada, July 30 - August 1, 2003)*, volume 2748 of *LNCS*, pages 114–126. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[290] Jens S. Frederiksen and Kim S. Larsen. Online seat reservations via offline seating arrangements. In Frank Dehne, Jörg-Rüdiger Sack, and Michiel Smid, editors, *Proceedings of the 8th International Workshop on Algorithms and Data Structures, WADS'2003 (ottawa, Ontario, Canada, July 30 - August 1, 2003)*, volume 2748 of *LNCS*, pages 174–185. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[291] Kimmo Fredriksson and Gonzalo Navarro. Average-optimal multiple approximate string matching. In Ricardo Baeza-Yates, Edgar Chávez, and Maxime Crochmeore, editors, *Proceedings of the 14th Annual Symposium on Combinatorial Pattern Matching, CPM'2003 (Morelia, Michoacán, Mexico, June 25-27, 2003)*, volume 2676 of *LNCS*, pages 109–128. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[292] Katalin Friedl, Frédéric Magniez, Miklos Santha, and Pranab Sen. Quantum testers for hidden group properties. In Branislav Rovan and Peter Vojtáš, editors, *Proceedings of the 28th International Symposium on Mathematical Foundations of Computer Science, MFCS'2003 (Bratislava, Slovakia, August 25-29, 2003)*, volume 2747 of *LNCS*, pages 419–428. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[293] Keith Frikken and Mikhail Atallah. Cropping-resilient segmented multiple watermarking. In Frank Dehne, Jörg-Rüdiger Sack, and

Michiel Smid, editors, *Proceedings of the 8th International Workshop on Algorithms and Data Structures, WADS'2003 (ottawa, Ontario, Canada, July 30 - August 1, 2003)*, volume 2748 of *LNCS*, pages 231–242. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[294] Wei Fu, Wing-Kai Hon, and Wing-Kin Sung. On all-substrings alignment problems. In Tandy Warnow and Binhai Zhu, editors, *Proceedings of the 9th Annual International Conference on Computing and Combinatorics, COCOON'2003 (Big Sky, MT, USA, July 25-28, 2003)*, volume 2697 of *LNCS*, pages 80–89. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[295] Stefan Funke, Domagoj Matijevic, and Peter Sanders. Approximating energy efficient paths in wireless multi-hop networks. In Giuseppe Di Battista and Uri Zwick, editors, *Proceedings of the 11th Annual European Symposium on Algorithms, ESA'2003 (Budapest, Hungary, September 16-19, 2003)*, volume 2832 of *LNCS*, pages 230–241. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[296] Alessandra Gabriele, Fillippo Mignosi, Antonio Restivo, and Marinella Sciortino. Indexing structures for approximate string matching. In Rossella Petreschi, Giuseppe Persiano, and Riccardo Silvestri, editors, *Proceedings of the 5th Italian Conference of Algorithms and Complexity, CIAC'2003 (Rome, Italy, May 28-30, 2003)*, volume 2653 of *LNCS*, pages 140–151. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[297] R. Gaeta, M. Gribaudo, D. Manini, and M. Sereno. On the use of petri nets for the computation of completion time distribution for short tcp transfers. In Wil van der Aalst and Eike Best, editors, *Proceedings of the 24th International Conference on Applications and Theory of Petri Nets, ICATPN'2003 (Eindhoven, The Netherlands, June 23-27, 2003)*, volume 2679 of *LNCS*, pages 181–200. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[298] Travis Gagie. New ways to construct binary search trees. In Toshihide Ibaraki, Naoki Katoh, and Hirotaka Ono, editors, *Proceedings of*

the 14th International Symposium on Algorithms and Computation, ISAAC'2003 (Kyoto, Japan, December 15-17, 2003), volume 2906 of *LNCS*, pages 537–543. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[299] Carlo Gaibisso, Guido Proietti, and Richard B. Tan. Optimal mst maintenance for transient deletion of every node in planar graphs. In Tandy Warnow and Binhai Zhu, editors, *Proceedings of the 9th Annual International Conference on Computing and Combinatorics, COCOON'2003 (Big Sky, MT, USA, July 25-28, 2003)*, volume 2697 of *LNCS*, pages 404–414. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.

[300] Anna Gál and Peter Bro Miltersen. The cell probe complexity of succinct data structures. In Jos C.M. Baeten, Jan Karel Lenstra, Joachim Parrow, and Gerhard J. Woeginger, editors, *Proceedings of the 30th International Colloquium on Automata, Languages and Programming, ICALP'2003 (Eindhoven, The Netherlands, June 30 - July 4, 2003)*, volume 2719 of *LNCS*, pages 332–344. Springer-Verlag, Berlin-Heidelberg-New York-Hong Kong-London-Milan-Paris-Tokyo, 2003.