

References

- [1] Ittai Abraham, Yair Bartal, Ofer Neiman, and Leonard J. Schulman. Volume in general metric spaces. In Mark de Berg and Ulrich Meyer, editors, *Proceedings of the 18th Annual European Symposium on Algorithms, ESA'2010, Part II (Liverpool, UK, September 6-8, 2010)*, volume 6347 of *LNCS*, pages 87–99. Springer-Verlag, Berlin-Heidelberg, 2010.
- [2] Sergey Abrahamyan. Construction of irreducible polynomials over finite fields. In Vladimir P. Gerdt, Wolfram Koepf, Ernst W. Mayr, and Evgenii V. Vorozhtsov, editors, *Proceedings of the 12th International Workshop on Computer Algebra in Scientific Computing, CASC'2010 (Tsakhkadzor, Armenia, September 6-12, 2010)*, volume 6244 of *LNCS*, pages 1–3. Springer-Verlag, Berlin-Heidelberg, 2010.
- [3] S.A. Abramov, A. Gheffar, and D.E. Khmelnov. Factorization of polynomials and gcd computations for finding universal denominators. In Vladimir P. Gerdt, Wolfram Koepf, Ernst W. Mayr, and Evgenii V. Vorozhtsov, editors, *Proceedings of the 12th International Workshop on Computer Algebra in Scientific Computing, CASC'2010 (Tsakhkadzor, Armenia, September 6-12, 2010)*, volume 6244 of *LNCS*, pages 4–18. Springer-Verlag, Berlin-Heidelberg, 2010.
- [4] A. Karim Abu-Affash, Rom Aschner, Paz Carmi, and Matthew J. Katz. The mst of symmetric disk graphs is light. In Haim Kaplan, editor, *Proceedings of the 12th Scandinavian Symposium and Workshops on Algorithm Theory, SWAT'2010 (Bergen, Norway, June 21-23, 2010)*, volume 6139 of *LNCS*, pages 236–247. Springer-Verlag, Berlin-Heidelberg, 2010.
- [5] Faisal N. Abu-Khzam, Amer E. Mouawad, and Mathieu Liedloff. An exact algorithm for connected red-blue dominating set. In Tiziana Calamoneri and Josep Diaz, editors, *Proceedings of the 7th International Conference on Algorithms and Complexity, CIAC'2010 (Rome, Italy, May 26-28, 2010)*, volume 6078 of *LNCS*, pages 25–36. Springer-Verlag, Berlin-Heidelberg, 2010.
- [6] Antonis Achilleos, Michael Lampis, and Valia Mitsou. Parameterized modal satisfiability. In Samson Abramsky, Cyril Gavoille, Claude

Kirchner, Friedhelm Meyer auf der Heide, and Paul G. Spirakis, editors, *Proceedings of the 37th International Colloquium on Automata, Languages and Programming, ICALP'2010, Part II (Bordeaux, France, July 6-10, 2010)*, volume 6199 of *LNCS*, pages 369–380. Springer-Verlag, Berlin-Heidelberg, 2010.

- [7] Dimitris Achlioptas. Algorithmic barriers from phase transitions in graphs. In Dimitrios M. Thilikos, editor, *Proceedings of the 36th International Workshop on Graph-Theoretic Concepts in Computer Science, WG'2010 (Zarós, Crete, Greece, June 28-30, 2010)*, volume 6410 of *LNCS*, pages 1–1. Springer-Verlag, Berlin-Heidelberg, 2010.
- [8] Marcel R. Ackermann and Johannes Blömer. Bregman clustering for separable instances. In Haim Kaplan, editor, *Proceedings of the 12th Scandinavian Symposium and Workshops on Algorithm Theory, SWAT'2010 (Bergen, Norway, June 21-23, 2010)*, volume 6139 of *LNCS*, pages 212–223. Springer-Verlag, Berlin-Heidelberg, 2010.
- [9] Anna Adamaszek and Alexandru Popa. Approximation and hardness results for the maximum edge q -coloring problem. In Otfried Cheong, Kyung-Yong Chwa, and Kunsoo Park, editors, *Proceedings of the 21st International Symposium on Algorithms and Computation, ISAAC'2010, Part II (Jeju Island, Korea, December 15-17, 2010)*, volume 6507 of *LNCS*, pages 132–143. Springer-Verlag, Berlin-Heidelberg, 2010.
- [10] Abhijin Adiga, Diptendu Bhowmick, and L. Sunil Chandran. Boxicity and poset dimension. In My T. Thai and Sartaj Sahni, editors, *Proceedings of the 16th Annual International Conference on Computing and Combinatorics, COCOON'2010 (Nha Trang, Vietnam, July 19-21, 2010)*, volume 6196 of *LNCS*, pages 3–12. Springer-Verlag, Berlin-Heidelberg, 2010.
- [11] Abhijin Adiga, Rajesh Chitnis, and Saket Saurabh. Parameterized algorithms for boxicity. In Otfried Cheong, Kyung-Yong Chwa, and Kunsoo Park, editors, *Proceedings of the 21st International Symposium on Algorithms and Computation, ISAAC'2010, Part I (Jeju Island, Korea, December 15-17, 2010)*, volume 6506 of *LNCS*, pages 366–377. Springer-Verlag, Berlin-Heidelberg, 2010.

- [12] Isolde Adler, Binh-Minh Bui-Xuan, Yuri Rabinovich, Gabriel Renault, Jan Arne Telle, and et al. On the boolean-width of a graph: Structure and applications. In Dimitrios M. Thilikos, editor, *Proceedings of the 36th International Workshop on Graph-Theoretic Concepts in Computer Science, WG'2010 (Zarós, Crete, Greece, June 28-30, 2010)*, volume 6410 of *LNCS*, pages 159–170. Springer-Verlag, Berlin-Heidelberg, 2010.
- [13] Isolde Adler, Frederic Dorn, Fedor V. Fomin, Ignasi Sau, and Dimitrios M. Thilikos. Fast minor testing in planar graphs. In Mark de Berg and Ulrich Meyer, editors, *Proceedings of the 18th Annual European Symposium on Algorithms, ESA'2010, Part I (Liverpool, UK, September 6-8, 2010)*, volume 6346 of *LNCS*, pages 97–109. Springer-Verlag, Berlin-Heidelberg, 2010.
- [14] Isolde Adler, Frederic Dorn, Fedor V. Fomin, Ignasi Sau, and Dimitrios M. Thilikos. Faster parameterized algorithms for minor containment. In Haim Kaplan, editor, *Proceedings of the 12th Scandinavian Symposium and Workshops on Algorithm Theory, SWAT'2010 (Bergen, Norway, June 21-23, 2010)*, volume 6139 of *LNCS*, pages 322–333. Springer-Verlag, Berlin-Heidelberg, 2010.
- [15] Pankaj K. Agarwal, Jeff M. Phillips, and Bardia Sadri. Lipschitz unimodal and isotonic regression on paths and trees. In Alejandro López-Ortiz, editor, *Proceedings of the 9th Latin American Symposium on Theoretical Informatics, LATIN'2010 (Oaxaca, Mexico, April 19-23, 2010, 2010)*, volume 6034 of *LNCS*, pages 384–396. Springer-Verlag, Berlin-Heidelberg, 2010.
- [16] Pankaj K. Agarwal, Jeff M. Phillips, and Hai Yu. Stability of ϵ -kernels. In Mark de Berg and Ulrich Meyer, editors, *Proceedings of the 18th Annual European Symposium on Algorithms, ESA'2010, Part I (Liverpool, UK, September 6-8, 2010)*, volume 6346 of *LNCS*, pages 487–499. Springer-Verlag, Berlin-Heidelberg, 2010.
- [17] Ankit Aggarwal, L. Anand, Manisha Bansal, Naveen Garg, Neelima Gupta, Shubham Gupta, and Surabhi Jain. A 3-approximation for facility location with uniform capacities. In Friedrich Eisenbrand and F. Bruce Shepherd, editors, *Proceedings of the 14th International*

Conference on Integer Programming and Combinatorial Optimization, IPCO'2010 (Lausanne, Switzerland, June 9-11, 2010), volume 6080 of *LNCS*, pages 149–162. Springer-Verlag, Berlin-Heidelberg, 2010.

- [18] Hee-Kap Ahn, Siu-Wing Cheng, and Iris Reinbacher. Maximum overlap of convex polytopes under translation. In Otfried Cheong, Kyung-Yong Chwa, and Kunsoo Park, editors, *Proceedings of the 21st International Symposium on Algorithms and Computation, ISAAC'2010, Part II (Jeju Island, Korea, December 15-17, 2010)*, volume 6507 of *LNCS*, pages 97–108. Springer-Verlag, Berlin-Heidelberg, 2010.
- [19] Hee-Kap Ahn, Christian Knauer, Marc Scherfenberg, Lena Schlipf, and Antoine Vigneron. Computing the discrete fréchet distance with imprecise input. In Otfried Cheong, Kyung-Yong Chwa, and Kunsoo Park, editors, *Proceedings of the 21st International Symposium on Algorithms and Computation, ISAAC'2010, Part II (Jeju Island, Korea, December 15-17, 2010)*, volume 6507 of *LNCS*, pages 422–433. Springer-Verlag, Berlin-Heidelberg, 2010.
- [20] Omar AitMous, Frédérique Bassino, and Cyril Nicaud. Building the minimal automaton of a^*x in linear time, when x is of bounded cardinality. In Amihood Amir and Laxmi Parida, editors, *Proceedings of the 21st Annual Symposium on Combinatorial Pattern Matching, CPM'2010 (New York, NY, USA, June 21-23, 2010)*, volume 6129 of *LNCS*, pages 275–287. Springer-Verlag, Berlin-Heidelberg, 2010.
- [21] Deepak Ajwani, Nodari Sitchinava, and Norbert Zeh. Geometric algorithms for private-cache chip multiprocessors. In Mark de Berg and Ulrich Meyer, editors, *Proceedings of the 18th Annual European Symposium on Algorithms, ESA'2010, Part II (Liverpool, UK, September 6-8, 2010)*, volume 6347 of *LNCS*, pages 75–86. Springer-Verlag, Berlin-Heidelberg, 2010.
- [22] Dmitri Akatov and Georg Gottlob. Balanced queries: Divide and conquer. In Petr Hliněný and Antonín Kučera, editors, *Proceedings of the 35th International Symposium on Mathematical Foundations of Computer Science, MFCS'2010 (Brno, Czech Republic, August 23-27, 2010)*, volume 6281 of *LNCS*, pages 42–54. Springer-Verlag, Berlin-Heidelberg, 2010.

- [23] Susanne Albers. Algorithms for energy management. In Farid Ablayev and Ernst W. Mayr, editors, *Proceedings of the 5th International Computer Science Symposium in Russia on Computer Science — Theory and Applications, CSR'2010 (Kazan, Russia, June 16-20, 2010)*, volume 6072 of *LNCS*, pages 1–11. Springer-Verlag, Berlin-Heidelberg, 2010.
- [24] Benjamin Albrecht, Philip Effinger, Markus Held, Michael Kaufmann, and Stephan Kottler. Visualization of complex bpel models. In David Eppstein and Emden R. Gansner, editors, *Proceedings of the 17th International Symposium on Graph Drawing, GD'2009 (Chicago, Illinois, USA, September 22-25, 2009)*, volume 5849 of *LNCS*, pages 421–423. Springer-Verlag, Berlin-Heidelberg, 2010.
- [25] Mario Albrecht, Andreas Kerren, Karsten Klein, Oliver Kohlbacher, Petra Mutzel, Wolfgang Paul, Falk Schreiber, and Michael Wybrow. On open problems in biological network visualization. In David Eppstein and Emden R. Gansner, editors, *Proceedings of the 17th International Symposium on Graph Drawing, GD'2009 (Chicago, Illinois, USA, September 22-25, 2009)*, volume 5849 of *LNCS*, pages 256–267. Springer-Verlag, Berlin-Heidelberg, 2010.
- [26] Dan Alistarh, Seth Gilbert, Rachid Guerraoui, and Morteza Zadimoghaddam. How efficient can gossip be? (on the cost of resilient information exchange). In Samson Abramsky, Cyril Gavoille, Claude Kirchner, Friedhelm Meyer auf der Heide, and Paul G. Spirakis, editors, *Proceedings of the 37th International Colloquium on Automata, Languages and Programming, ICALP'2010, Part II (Bordeaux, France, July 6-10, 2010)*, volume 6199 of *LNCS*, pages 115–126. Springer-Verlag, Berlin-Heidelberg, 2010.
- [27] Greg Aloupis, Jean Cardinal, Sébastien Collette, Erik D. Demaine, Martin L. Demaine, Muriel Dulieu, Ruy Fabila-Monroy, Vi Hart, Ferran Hurtado, Stefan Langerman, Maria Saumell, Carlos Seara, and Perouz Taslakian. Matching points with things. In Alejandro López-Ortiz, editor, *Proceedings of the 9th Latin American Symposium on Theoretical Informatics, LATIN'2010 (Oaxaca, Mexico, April 19-23, 2010, 2010)*, volume 6034 of *LNCS*, pages 456–467. Springer-Verlag, Berlin-Heidelberg, 2010.

- [28] Greg Aloupis, Jean Cardinal, Sébastien Collette, Shinji Imahori, Matthias Korman, Stephan Langerman, Oded Schwartz, Shakhar Smorodinsky, and Perouz Taslakian. Colorful strips. In Alejandro López-Ortiz, editor, *Proceedings of the 9th Latin American Symposium on Theoretical Informatics, LATIN'2010 (Oaxaca, Mexico, April 19-23, 2010, 2010)*, volume 6034 of *LNCS*, pages 2–13. Springer-Verlag, Berlin-Heidelberg, 2010.
- [29] Edoardo Amaldi, Claudio Iuliano, and Romeo Rizzi. Efficient deterministic algorithms for finding a minimum cycle basis in undirected graphs. In Friedrich Eisenbrand and F. Bruce Shepherd, editors, *Proceedings of the 14th International Conference on Integer Programming and Combinatorial Optimization, IPCO'2010 (Lausanne, Switzerland, June 9-11, 2010)*, volume 6080 of *LNCS*, pages 397–410. Springer-Verlag, Berlin-Heidelberg, 2010.
- [30] Kazuyuki Amano. New upper bounds on the average ptf density of boolean functions. In Otfried Cheong, Kyung-Yong Chwa, and Kunsoo Park, editors, *Proceedings of the 21st International Symposium on Algorithms and Computation, ISAAC'2010, Part I (Jeju Island, Korea, December 15-17, 2010)*, volume 6506 of *LNCS*, pages 304–315. Springer-Verlag, Berlin-Heidelberg, 2010.
- [31] Andris Ambainis. New developments in quantum algorithms. In Petr Hliněný and Antonín Kučera, editors, *Proceedings of the 35th International Symposium on Mathematical Foundations of Computer Science, MFCS'2010 (Brno, Czech Republic, August 23-27, 2010)*, volume 6281 of *LNCS*, pages 1–11. Springer-Verlag, Berlin-Heidelberg, 2010.
- [32] Klaus Ambos-Spies and Timur Bakibayev. Weak completeness notions for exponential time. In Samson Abramsky, Cyril Gavoille, Claude Kirchner, Friedhelm Meyer auf der Heide, and Paul G. Spirakis, editors, *Proceedings of the 37th International Colloquium on Automata, Languages and Programming, ICALP'2010, Part I (Bordeaux, France, July 6-10, 2010)*, volume 6198 of *LNCS*, pages 503–514. Springer-Verlag, Berlin-Heidelberg, 2010.
- [33] Amihood Amir, Estrella Eisenberg, and Avivit Levy. Approximate periodicity. In Otfried Cheong, Kyung-Yong Chwa, and Kunsoo Park, editors, *Proceedings of the 21st International Symposium on Algorithms*

and Computation, ISAAC'2010, Part I (Jeju Island, Korea, December 15-17, 2010), volume 6506 of *LNCS*, pages 25–36. Springer-Verlag, Berlin-Heidelberg, 2010.

- [34] Amihood Amir, Estrella Eisenberg, Avivit Levy, Ely Porat, and Natalie Shapira. Cycle detection and correction. In Samson Abramsky, Cyril Gavoille, Claude Kirchner, Friedhelm Meyer auf der Heide, and Paul G. Spirakis, editors, *Proceedings of the 37th International Colloquium on Automata, Languages and Programming, ICALP'2010, Part I (Bordeaux, France, July 6-10, 2010)*, volume 6198 of *LNCS*, pages 43–54. Springer-Verlag, Berlin-Heidelberg, 2010.
- [35] Aris Anagnostopoulos, Fabrizio Grandoni, Stefano Leonardi, and Piotr Sankowski. Online network design with outliers. In Samson Abramsky, Cyril Gavoille, Claude Kirchner, Friedhelm Meyer auf der Heide, and Paul G. Spirakis, editors, *Proceedings of the 37th International Colloquium on Automata, Languages and Programming, ICALP'2010, Part I (Bordeaux, France, July 6-10, 2010)*, volume 6198 of *LNCS*, pages 114–126. Springer-Verlag, Berlin-Heidelberg, 2010.
- [36] Dmitry Ananichev, Vladimir Gusev, and Mikhail Volkov. Slowly synchronizing automata and digraphs. In Petr Hliněný and Antonín Kučera, editors, *Proceedings of the 35th International Symposium on Mathematical Foundations of Computer Science, MFCS'2010 (Brno, Czech Republic, August 23-27, 2010)*, volume 6281 of *LNCS*, pages 55–65. Springer-Verlag, Berlin-Heidelberg, 2010.
- [37] Kent Andersen and Robert Weismantel. Zero-coefficient cuts. In Friedrich Eisenbrand and F. Bruce Shepherd, editors, *Proceedings of the 14th International Conference on Integer Programming and Combinatorial Optimization, IPCO'2010 (Lausanne, Switzerland, June 9-11, 2010)*, volume 6080 of *LNCS*, pages 57–70. Springer-Verlag, Berlin-Heidelberg, 2010.
- [38] Serge N. Andrianov. A role of symbolic computations in beam physics. In Vladimir P. Gerdt, Wolfram Koepf, Ernst W. Mayr, and Evgenii V. Vorozhtsov, editors, *Proceedings of the 12th International Workshop on Computer Algebra in Scientific Computing, CASC'2010 (Tsakhkadzor, Armenia, September 6-12, 2010)*, volume 6244 of *LNCS*, pages 19–30. Springer-Verlag, Berlin-Heidelberg, 2010.

- [39] Eric Angel, Evripidis Bampis, and Nicolas Thibault. Randomized truthful algorithms for scheduling selfish tasks on parallel machines. In Alejandro López-Ortiz, editor, *Proceedings of the 9th Latin American Symposium on Theoretical Informatics, LATIN'2010 (Oaxaca, Mexico, April 19-23, 2010, 2010)*, volume 6034 of *LNCS*, pages 38–48. Springer-Verlag, Berlin-Heidelberg, 2010.
- [40] Patrizio Angelini, Luca Cittadini, Giuseppe Di Battista, Walter Didimo, Fabrizio Frati, Michael Kaufmann, and Antonios Symvonis. On the perspectives opened by right angle crossing drawings. In David Eppstein and Emden R. Gansner, editors, *Proceedings of the 17th International Symposium on Graph Drawing, GD'2009 (Chicago, Illinois, USA, September 22-25, 2009)*, volume 5849 of *LNCS*, pages 21–32. Springer-Verlag, Berlin-Heidelberg, 2010.
- [41] Patrizio Angelini, Giuseppe Di Battista, and Fabrizio Frati. Succinct greedy drawings do not always exist. In David Eppstein and Emden R. Gansner, editors, *Proceedings of the 17th International Symposium on Graph Drawing, GD'2009 (Chicago, Illinois, USA, September 22-25, 2009)*, volume 5849 of *LNCS*, pages 171–182. Springer-Verlag, Berlin-Heidelberg, 2010.
- [42] Patrizio Angelini, Fabrizio Frati, and Maurizio Patrignani. Splitting clusters to get c-planarity. In David Eppstein and Emden R. Gansner, editors, *Proceedings of the 17th International Symposium on Graph Drawing, GD'2009 (Chicago, Illinois, USA, September 22-25, 2009)*, volume 5849 of *LNCS*, pages 57–68. Springer-Verlag, Berlin-Heidelberg, 2010.
- [43] Elliot Anshelevich and Martin Hoefer. Contribution games in social networks. In Mark de Berg and Ulrich Meyer, editors, *Proceedings of the 18th Annual European Symposium on Algorithms, ESA'2010, Part I (Liverpool, UK, September 6-8, 2010)*, volume 6346 of *LNCS*, pages 158–169. Springer-Verlag, Berlin-Heidelberg, 2010.
- [44] Shinya Anzai, Jinhee Chun, Ryosei Kasai, Matias Korman, and Takeshi Tokuyama. Effect of corner information in simultaneous placement of k rectangles and tableaux. In My T. Thai and Sartaj Sahni, editors, *Proceedings of the 16th Annual International Conference on Computing*

and Combinatorics, COCOON'2010 (Nha Trang, Vietnam, July 19-21, 2010), volume 6196 of *LNCS*, pages 235–243. Springer-Verlag, Berlin-Heidelberg, 2010.

- [45] Benny Applebaum, Yuval Ishai, and Eyal Kushilevitz. From secrecy to soundness: Efficient verification via secure computation. In Samson Abramsky, Cyril Gavoille, Claude Kirchner, Friedhelm Meyer auf der Heide, and Paul G. Spirakis, editors, *Proceedings of the 37th International Colloquium on Automata, Languages and Programming, ICALP'2010, Part I (Bordeaux, France, July 6-10, 2010)*, volume 6198 of *LNCS*, pages 152–163. Springer-Verlag, Berlin-Heidelberg, 2010.
- [46] Karin Arikushi, Radoslav Fulek, Balázs Keszegh, Filip Morić, and Csaba D. Tóth. Graphs that admit right angle crossing drawings. In Dimitrios M. Thilikos, editor, *Proceedings of the 36th International Workshop on Graph-Theoretic Concepts in Computer Science, WG'2010 (Zarós, Crete, Greece, June 28-30, 2010)*, volume 6410 of *LNCS*, pages 135–146. Springer-Verlag, Berlin-Heidelberg, 2010.
- [47] Sanjeev Arora. Semidefinite programming and approximation algorithms: A survey. In Haim Kaplan, editor, *Proceedings of the 12th Scandinavian Symposium and Workshops on Algorithm Theory, SWAT'2010 (Bergen, Norway, June 21-23, 2010)*, volume 6139 of *LNCS*, pages 25–25. Springer-Verlag, Berlin-Heidelberg, 2010.
- [48] Sunil Arya, Guilherme D. da Fonseca, and David M. Mount. A unified approach to approximate proximity searching. In Mark de Berg and Ulrich Meyer, editors, *Proceedings of the 18th Annual European Symposium on Algorithms, ESA'2010, Part I (Liverpool, UK, September 6-8, 2010)*, volume 6346 of *LNCS*, pages 374–385. Springer-Verlag, Berlin-Heidelberg, 2010.
- [49] Yuichi Asahiro, Eiji Miyano, and Kazuaki Samizo. Approximating maximum diameter-bounded subgraphs. In Alejandro López-Ortiz, editor, *Proceedings of the 9th Latin American Symposium on Theoretical Informatics, LATIN'2010 (Oaxaca, Mexico, April 19-23, 2010, 2010)*, volume 6034 of *LNCS*, pages 615–626. Springer-Verlag, Berlin-Heidelberg, 2010.

- [50] Tetsuo Asano, Jesper Jansson, Kunihiko Sadakane, Ryuhei Uehara, and Gabriel Valiente. Faster computation of the robinson-foulds distance between phylogenetic networks. In Amihood Amir and Laxmi Parida, editors, *Proceedings of the 21st Annual Symposium on Combinatorial Pattern Matching, CPM'2010 (New York, NY, USA, June 21-23, 2010)*, volume 6129 of *LNCS*, pages 190–201. Springer-Verlag, Berlin-Heidelberg, 2010.
- [51] Albert Atserias and Elitza Maneva. Mean-payoff games and propositional proofs. In Samson Abramsky, Cyril Gavoille, Claude Kirchner, Friedhelm Meyer auf der Heide, and Paul G. Spirakis, editors, *Proceedings of the 37th International Colloquium on Automata, Languages and Programming, ICALP'2010, Part I (Bordeaux, France, July 6-10, 2010)*, volume 6198 of *LNCS*, pages 102–113. Springer-Verlag, Berlin-Heidelberg, 2010.
- [52] Nathalie Aubrun and Marie-Pierre Béal. Sofic and almost of finite type tree-shifts. In Farid Ablayev and Ernst W. Mayr, editors, *Proceedings of the 5th International Computer Science Symposium in Russia on Computer Science — Theory and Applications, CSR'2010 (Kazan, Russia, June 16-20, 2010)*, volume 6072 of *LNCS*, pages 12–24. Springer-Verlag, Berlin-Heidelberg, 2010.
- [53] John Augustine, David Eppstein, and Kevin A. Wortman. Approximate weighted farthest neighbors and minimum dilation stars. In My T. Thai and Sartaj Sahni, editors, *Proceedings of the 16th Annual International Conference on Computing and Combinatorics, COCOON'2010 (Nha Trang, Vietnam, July 19-21, 2010)*, volume 6196 of *LNCS*, pages 90–99. Springer-Verlag, Berlin-Heidelberg, 2010.
- [54] John Augustine and Nick Gravin. On the continuous cnn problem. In Otfried Cheong, Kyung-Yong Chwa, and Kunsoo Park, editors, *Proceedings of the 21st International Symposium on Algorithms and Computation, ISAAC'2010, Part II (Jeju Island, Korea, December 15-17, 2010)*, volume 6507 of *LNCS*, pages 254–265. Springer-Verlag, Berlin-Heidelberg, 2010.
- [55] Giorgio Ausiello, Paolo G. Franciosa, Giuseppe F. Italiano, and Andrea Ribichini. Computing graph spanners in small memory: Fault-tolerance and streaming. In My T. Thai and Sartaj Sahni, editors,

Proceedings of the 16th Annual International Conference on Computing and Combinatorics, COCOON'2010 (Nha Trang, Vietnam, July 19-21, 2010), volume 6196 of *LNCS*, pages 160–172. Springer-Verlag, Berlin-Heidelberg, 2010.

- [56] Per Austrin, Siavosh Benabbas, and Avner Magen. On quadratic threshold csps. In Alejandro López-Ortiz, editor, *Proceedings of the 9th Latin American Symposium on Theoretical Informatics, LATIN'2010 (Oaxaca, Mexico, April 19-23, 2010, 2010)*, volume 6034 of *LNCS*, pages 332–343. Springer-Verlag, Berlin-Heidelberg, 2010.
- [57] Ilia Averbouch, Johann A. Makowsky, and Peter Tittmann. A graph polynomial arising from community structure. In Christophe Paul and Michel Habib, editors, *Proceedings of the 35th International Workshop on Graph-Theoretic Concepts in Computer Science, WG'2009 (Montpellier, France, June 24-26, 2009)*, volume 5911 of *LNCS*, pages 33–43. Springer-Verlag, Berlin-Heidelberg, 2010.
- [58] Yossi Azar, Niv Buchbinder, and Kamal Jain. How to allocate goods in an online market? In Mark de Berg and Ulrich Meyer, editors, *Proceedings of the 18th Annual European Symposium on Algorithms, ESA '2010, Part II (Liverpool, UK, September 6-8, 2010)*, volume 6347 of *LNCS*, pages 51–62. Springer-Verlag, Berlin-Heidelberg, 2010.
- [59] László Babai, Kristoffer Arnsfelt Hansen, Vladimir V. Podolskii, and Xiaoming Sun. Weights of exact threshold functions. In Petr Hliněný and Antonín Kučera, editors, *Proceedings of the 35th International Symposium on Mathematical Foundations of Computer Science, MFCS'2010 (Brno, Czech Republic, August 23-27, 2010)*, volume 6281 of *LNCS*, pages 66–77. Springer-Verlag, Berlin-Heidelberg, 2010.
- [60] Junaid Babar, Marco Beccuti, Susanna Donatelli, and Andrew Miner. Greatspn enhanced with decision diagram data structures. In Johan Lilius and Wojciech Penczek, editors, *Proceedings of the 31st International Conference on Applications and Theory of Petri Nets, PETRI NETS'2010 (Braga, Portugal, 21-25, 2010)*, volume 6128 of *LNCS*, pages 308–317. Springer-Verlag, Berlin-Heidelberg, 2010.
- [61] Maxim Babenko, Alexey Gusakov, and Ilya Razenshteyn. Triangle-free 2-matchings revisited. In My T. Thai and Sartaj Sahni, editors,

Proceedings of the 16th Annual International Conference on Computing and Combinatorics, COCOON'2010 (Nha Trang, Vietnam, July 19-21, 2010), volume 6196 of *LNCS*, pages 120–129. Springer-Verlag, Berlin-Heidelberg, 2010.

- [62] Maxim A. Babenko. A faster algorithm for the maximum even factor problem. In Otfried Cheong, Kyung-Yong Chwa, and Kunsoo Park, editors, *Proceedings of the 21st International Symposium on Algorithms and Computation, ISAAC'2010, Part I (Jeju Island, Korea, December 15-17, 2010)*, volume 6506 of *LNCS*, pages 451–462. Springer-Verlag, Berlin-Heidelberg, 2010.
- [63] Eric Bach, Shuchi Chawla, and Seeun Umboh. Threshold rules for online sample selection. In My T. Thai and Sartaj Sahni, editors, *Proceedings of the 16th Annual International Conference on Computing and Combinatorics, COCOON'2010 (Nha Trang, Vietnam, July 19-21, 2010)*, volume 6196 of *LNCS*, pages 489–499. Springer-Verlag, Berlin-Heidelberg, 2010.
- [64] Thomas Bächler, Vladimir Gerdt, Markus Lange-Hegermann, and Daniel Robertz. Thomas decomposition of algebraic and differential systems. In Vladimir P. Gerdt, Wolfram Koepf, Ernst W. Mayr, and Evgenii V. Vorozhtsov, editors, *Proceedings of the 12th International Workshop on Computer Algebra in Scientific Computing, CASC'2010 (Tsakhkadzor, Armenia, September 6-12, 2010)*, volume 6244 of *LNCS*, pages 31–54. Springer-Verlag, Berlin-Heidelberg, 2010.
- [65] Unnar Th. Bachmann, Magnús M. Halldórsson, and Hadas Shachnai. Online selection of intervals and t -intervals. In Haim Kaplan, editor, *Proceedings of the 12th Scandinavian Symposium and Workshops on Algorithm Theory, SWAT'2010 (Bergen, Norway, June 21-23, 2010)*, volume 6139 of *LNCS*, pages 383–394. Springer-Verlag, Berlin-Heidelberg, 2010.
- [66] Yoram Bachrach, Michael Zuckerman, Michael Wooldridge, and Jeffrey S. Rosenschein. Proof systems and transformation games. In Petr Hliněný and Antonín Kučera, editors, *Proceedings of the 35th International Symposium on Mathematical Foundations of Computer Science, MFCS'2010 (Brno, Czech Republic, August 23-27, 2010)*, volume 6281 of *LNCS*, pages 78–89. Springer-Verlag, Berlin-Heidelberg, 2010.

- [67] Jonathan Backer and J. Mark Keil. The mono- and bichromatic empty rectangle and square problems in all dimensions. In Alejandro López-Ortiz, editor, *Proceedings of the 9th Latin American Symposium on Theoretical Informatics, LATIN'2010 (Oaxaca, Mexico, April 19-23, 2010, 2010)*, volume 6034 of *LNCS*, pages 14–25. Springer-Verlag, Berlin-Heidelberg, 2010.
- [68] Bahareh Badban and Mohammad Torabi Dashti. Semi-linear parikh images of regular expressions via reduction. In Petr Hliněný and Antonín Kučera, editors, *Proceedings of the 35th International Symposium on Mathematical Foundations of Computer Science, MFCS'2010 (Brno, Czech Republic, August 23-27, 2010)*, volume 6281 of *LNCS*, pages 653–664. Springer-Verlag, Berlin-Heidelberg, 2010.
- [69] Melanie Badent, Michael Baur, Ulrik Brandes, and Sabine Cornelsen. Leftist canonical ordering. In David Eppstein and Emden R. Gansner, editors, *Proceedings of the 17th International Symposium on Graph Drawing, GD'2009 (Chicago, Illinois, USA, September 22-25, 2009)*, volume 5849 of *LNCS*, pages 159–170. Springer-Verlag, Berlin-Heidelberg, 2010.
- [70] Sang Won Bae, Matias Korman, and Yoshio Okamoto. The geodesic diameter of polygonal domains. In Mark de Berg and Ulrich Meyer, editors, *Proceedings of the 18th Annual European Symposium on Algorithms, ESA '2010, Part I (Liverpool, UK, September 6-8, 2010)*, volume 6346 of *LNCS*, pages 500–511. Springer-Verlag, Berlin-Heidelberg, 2010.
- [71] Sang Won Bae and Chan-Su Shin. The onion diagram: A voronoi-like tessellation of a planar line space and its applications. In Otfried Cheong, Kyung-Yong Chwa, and Kunsoo Park, editors, *Proceedings of the 21st International Symposium on Algorithms and Computation, ISAAC'2010, Part II (Jeju Island, Korea, December 15-17, 2010)*, volume 6507 of *LNCS*, pages 230–241. Springer-Verlag, Berlin-Heidelberg, 2010.
- [72] Ricardo Baeza-Yates. Towards a distributed search engine. In Tiziana Calamoneri and Josep Diaz, editors, *Proceedings of the 7th International Conference on Algorithms and Complexity, CIAC'2010 (Rome,*

Italy, May 26-28, 2010), volume 6078 of *LNCS*, pages 1–5. Springer-Verlag, Berlin-Heidelberg, 2010.

- [73] Bahman Bahmani and Michael Kapralov. Improved bounds for online stochastic matching. In Mark de Berg and Ulrich Meyer, editors, *Proceedings of the 18th Annual European Symposium on Algorithms, ESA'2010, Part I (Liverpool, UK, September 6-8, 2010)*, volume 6346 of *LNCS*, pages 170–181. Springer-Verlag, Berlin-Heidelberg, 2010.
- [74] Jennifer S. Balakrishnan, Robert W. Bradshaw, and Kiran S. Kedlaya. Explicit coleman integration for hyperelliptic curves. In Guillaume Hanrot, François Morain, and Emmanuel Thomé, editors, *Proceedings of the 9th International Symposium on Algorithmic Number Theory, ANTS-IX (Nancy, France, July 19-23, 2010)*, volume 6197 of *LNCS*, pages 16–31. Springer-Verlag, Berlin-Heidelberg, 2010.
- [75] Alexis Ballier, Bruno Durand, and Emmanuel Jeandel. Tilings robust to errors. In Alejandro López-Ortiz, editor, *Proceedings of the 9th Latin American Symposium on Theoretical Informatics, LATIN'2010 (Oaxaca, Mexico, April 19-23, 2010, 2010)*, volume 6034 of *LNCS*, pages 480–491. Springer-Verlag, Berlin-Heidelberg, 2010.
- [76] Evripidis Bampis, Alexander Kononov, Giorgio Lucarelli, and Ioannis Milis. Bounded max-colorings of graphs. In Otfried Cheong, Kyung-Yong Chwa, and Kunsoo Park, editors, *Proceedings of the 21st International Symposium on Algorithms and Computation, ISAAC'2010, Part I (Jeju Island, Korea, December 15-17, 2010)*, volume 6506 of *LNCS*, pages 353–365. Springer-Verlag, Berlin-Heidelberg, 2010.
- [77] Nikhil Bansal, Niv Buchbinder, and Joseph (Seffi) Naor. Metrical task systems and the k -server problem on hsts. In Samson Abramsky, Cyril Gavoille, Claude Kirchner, Friedhelm Meyer auf der Heide, and Paul G. Spirakis, editors, *Proceedings of the 37th International Colloquium on Automata, Languages and Programming, ICALP'2010, Part I (Bordeaux, France, July 6-10, 2010)*, volume 6198 of *LNCS*, pages 287–298. Springer-Verlag, Berlin-Heidelberg, 2010.
- [78] Nikhil Bansal, Anupam Gupta, Jian Li, Julián Mestre, Viswanath Nagarajan, and Atri Rudra. When lp is the cure for your matching woes:

Improved bounds for stochastic matchings. In Mark de Berg and Ulrich Meyer, editors, *Proceedings of the 18th Annual European Symposium on Algorithms, ESA'2010, Part II (Liverpool, UK, September 6-8, 2010)*, volume 6347 of *LNCS*, pages 218–229. Springer-Verlag, Berlin-Heidelberg, 2010.

- [79] Nikhil Bansal, Kamal Jain, Anna Kazeykina, and Joseph (Seffi) Naor. Approximation algorithms for diversified search ranking. In Samson Abramsky, Cyril Gavoille, Claude Kirchner, Friedhelm Meyer auf der Heide, and Paul G. Spirakis, editors, *Proceedings of the 37th International Colloquium on Automata, Languages and Programming, ICALP'2010, Part II (Bordeaux, France, July 6-10, 2010)*, volume 6199 of *LNCS*, pages 273–284. Springer-Verlag, Berlin-Heidelberg, 2010.
- [80] Nikhil Bansal, Rohit Khandekar, Jochen Könemann, Viswanath Nagarajan, and Britta Peis. On generalizations of network design problems with degree bounds. In Friedrich Eisenbrand and F. Bruce Shepherd, editors, *Proceedings of the 14th International Conference on Integer Programming and Combinatorial Optimization, IPCO'2010 (Lausanne, Switzerland, June 9-11, 2010)*, volume 6080 of *LNCS*, pages 110–123. Springer-Verlag, Berlin-Heidelberg, 2010.
- [81] Nikhil Bansal and Subhash Khot. Inapproximability of hypergraph vertex cover and applications to scheduling problems. In Samson Abramsky, Cyril Gavoille, Claude Kirchner, Friedhelm Meyer auf der Heide, and Paul G. Spirakis, editors, *Proceedings of the 37th International Colloquium on Automata, Languages and Programming, ICALP'2010, Part I (Bordeaux, France, July 6-10, 2010)*, volume 6198 of *LNCS*, pages 250–261. Springer-Verlag, Berlin-Heidelberg, 2010.
- [82] Nikhil Bansal, Nitish Korula, Viswanath Nagarajan, and Aravind Srinivasan. On k -column sparse packing programs. In Friedrich Eisenbrand and F. Bruce Shepherd, editors, *Proceedings of the 14th International Conference on Integer Programming and Combinatorial Optimization, IPCO'2010 (Lausanne, Switzerland, June 9-11, 2010)*, volume 6080 of *LNCS*, pages 369–382. Springer-Verlag, Berlin-Heidelberg, 2010.
- [83] Nikhil Bansal, Ravishankar Krishnaswamy, and Viswanath Nagarajan. Better scalable algorithms for broadcast scheduling. In Samson Abramsky, Cyril Gavoille, Claude Kirchner, Friedhelm Meyer auf der Heide,

and Paul G. Spirakis, editors, *Proceedings of the 37th International Colloquium on Automata, Languages and Programming, ICALP'2010, Part I (Bordeaux, France, July 6-10, 2010)*, volume 6198 of *LNCS*, pages 324–335. Springer-Verlag, Berlin-Heidelberg, 2010.

- [84] Reuven Bar-Yehuda, Danny Hermelin, and Dror Rawitz. Minimum vertex cover in rectangle graphs. In Mark de Berg and Ulrich Meyer, editors, *Proceedings of the 18th Annual European Symposium on Algorithms, ESA '2010, Part I (Liverpool, UK, September 6-8, 2010)*, volume 6346 of *LNCS*, pages 255–266. Springer-Verlag, Berlin-Heidelberg, 2010.
- [85] Jérémie Barbay, Francisco Claude, and Gonzalo Navarro. Compact rich-functional binary relation representations. In Alejandro López-Ortiz, editor, *Proceedings of the 9th Latin American Symposium on Theoretical Informatics, LATIN'2010 (Oaxaca, Mexico, April 19-23, 2010, 2010)*, volume 6034 of *LNCS*, pages 170–183. Springer-Verlag, Berlin-Heidelberg, 2010.
- [86] Jérémie Barbay, Travis Gagie, Gonzalo Navarro, and Yakov Nekrich. Alphabet partitioning for compressed rank/select and applications. In Otfried Cheong, Kyung-Yong Chwa, and Kunsoo Park, editors, *Proceedings of the 21st International Symposium on Algorithms and Computation, ISAAC'2010, Part II (Jeju Island, Korea, December 15-17, 2010)*, volume 6507 of *LNCS*, pages 315–326. Springer-Verlag, Berlin-Heidelberg, 2010.
- [87] Lali Barri‘ere and Clemens Huemer. 4-labelings and grid embeddings of plane quadrangulations. In David Eppstein and Emden R. Gansner, editors, *Proceedings of the 17th International Symposium on Graph Drawing, GD'2009 (Chicago, Illinois, USA, September 22-25, 2009)*, volume 5849 of *LNCS*, pages 413–414. Springer-Verlag, Berlin-Heidelberg, 2010.
- [88] Sanjoy K. Baruah, Vincenzo Bonifaci, Gianlorenzo D’Angelo, Haohan Li, Alberto Marchetti-Spaccamela, Nicole Megow, and Leen Stougie. Scheduling real-time mixed-criticality jobs. In Petr Hliněný and Antonín Kučera, editors, *Proceedings of the 35th International Symposium on Mathematical Foundations of Computer Science, MFCS'2010*

(Brno, Czech Republic, August 23-27, 2010), volume 6281 of LNCS, pages 90–101. Springer-Verlag, Berlin-Heidelberg, 2010.

- [89] A. Baskar, R. Ramanujam, and S.P. Suresh. A DEXPTIME-complete dolev-yao theory with distributive encryption. In Petr Hliněný and Antonín Kučera, editors, *Proceedings of the 35th International Symposium on Mathematical Foundations of Computer Science, MFCS'2010 (Brno, Czech Republic, August 23-27, 2010)*, volume 6281 of LNCS, pages 102–113. Springer-Verlag, Berlin-Heidelberg, 2010.
- [90] Frédérique Bassino, Laura Giambruno, and Cyril Nicaud. Complexity of operations on cofinite languages. In Alejandro López-Ortiz, editor, *Proceedings of the 9th Latin American Symposium on Theoretical Informatics, LATIN'2010 (Oaxaca, Mexico, April 19-23, 2010, 2010)*, volume 6034 of LNCS, pages 222–233. Springer-Verlag, Berlin-Heidelberg, 2010.
- [91] Hannah Bast, Erik Carlsson, Arno Eigenwillig, Robert Geisberger, Chris Harrelson, Veselin Raychev, and Fabien Viger. Fast routing in very large public transportation networks using transfer patterns. In Mark de Berg and Ulrich Meyer, editors, *Proceedings of the 18th Annual European Symposium on Algorithms, ESA'2010, Part I (Liverpool, UK, September 6-8, 2010)*, volume 6346 of LNCS, pages 290–301. Springer-Verlag, Berlin-Heidelberg, 2010.
- [92] Amitabh Basu, Manoel Campelo, Michele Conforti, Gérard Cornuéjols, and Giacomo Zambelli. On lifting integer variables in minimal inequalities. In Friedrich Eisenbrand and F. Bruce Shepherd, editors, *Proceedings of the 14th International Conference on Integer Programming and Combinatorial Optimization, IPCO'2010 (Lausanne, Switzerland, June 9-11, 2010)*, volume 6080 of LNCS, pages 85–95. Springer-Verlag, Berlin-Heidelberg, 2010.
- [93] MohammadHossein Bateni and MohammadTaghi Hajiaghayi. Euclidean prize-collecting steiner forest. In Alejandro López-Ortiz, editor, *Proceedings of the 9th Latin American Symposium on Theoretical Informatics, LATIN'2010 (Oaxaca, Mexico, April 19-23, 2010, 2010)*, volume 6034 of LNCS, pages 503–514. Springer-Verlag, Berlin-Heidelberg, 2010.

- [94] MohammadHossein Bateni, MohammadTaghi Hajiaghayi, Nicole Immorlica, and Hamid Mahini. The cooperative game theory foundations of network bargaining games. In Samson Abramsky, Cyril Gavoille, Claude Kirchner, Friedhelm Meyer auf der Heide, and Paul G. Spirakis, editors, *Proceedings of the 37th International Colloquium on Automata, Languages and Programming, ICALP'2010, Part I (Bordeaux, France, July 6-10, 2010)*, volume 6198 of *LNCS*, pages 67–78. Springer-Verlag, Berlin-Heidelberg, 2010.
- [95] Reinhard Bauer, Tobias Columbus, Bastian Katz, Marcus Krug, and Dorothea Wagner. Preprocessing speed-up techniques is hard. In Tiziana Calamoneri and Josep Diaz, editors, *Proceedings of the 7th International Conference on Algorithms and Complexity, CIAC'2010 (Rome, Italy, May 26-28, 2010)*, volume 6078 of *LNCS*, pages 359–370. Springer-Verlag, Berlin-Heidelberg, 2010.
- [96] Dorothea Baumeister, Felix Brandt, Felix Fischer, Jan Hoffmann, and Jörg Rothe. The complexity of computing minimal unidirectional covering sets. In Tiziana Calamoneri and Josep Diaz, editors, *Proceedings of the 7th International Conference on Algorithms and Complexity, CIAC'2010 (Rome, Italy, May 26-28, 2010)*, volume 6078 of *LNCS*, pages 299–310. Springer-Verlag, Berlin-Heidelberg, 2010.
- [97] Amos Beimel, Sebastian Ben Daniel, Eyal Kushilevitz, and Enav Weinreb. Choosing, agreeing, and eliminating in communication complexity. In Samson Abramsky, Cyril Gavoille, Claude Kirchner, Friedhelm Meyer auf der Heide, and Paul G. Spirakis, editors, *Proceedings of the 37th International Colloquium on Automata, Languages and Programming, ICALP'2010, Part I (Bordeaux, France, July 6-10, 2010)*, volume 6198 of *LNCS*, pages 451–462. Springer-Verlag, Berlin-Heidelberg, 2010.
- [98] Djamal Belazzougui. Succinct dictionary matching with no slowdown. In Amihood Amir and Laxmi Parida, editors, *Proceedings of the 21st Annual Symposium on Combinatorial Pattern Matching, CPM'2010 (New York, NY, USA, June 21-23, 2010)*, volume 6129 of *LNCS*, pages 88–100. Springer-Verlag, Berlin-Heidelberg, 2010.
- [99] Djamal Belazzougui, Paolo Boldi, Rasmus Pagh, and Sebastiano Vigna. Fast prefix search in little space, with applications. In Mark de Berg

and Ulrich Meyer, editors, *Proceedings of the 18th Annual European Symposium on Algorithms, ESA'2010, Part I (Liverpool, UK, September 6-8, 2010)*, volume 6346 of *LNCS*, pages 427–438. Springer-Verlag, Berlin-Heidelberg, 2010.

- [100] Siavosh Benabbas and Avner Magen. Extending sdp integrality gaps to sherali-adams with applications to QUADRATIC PROGRAMMING and MAXCUTGAIN. In Friedrich Eisenbrand and F. Bruce Shepherd, editors, *Proceedings of the 14th International Conference on Integer Programming and Combinatorial Optimization, IPCO'2010 (Lausanne, Switzerland, June 9-11, 2010)*, volume 6080 of *LNCS*, pages 299–312. Springer-Verlag, Berlin-Heidelberg, 2010.
- [101] Nazim Benaissa and Dominique Méry. Proof-based design of security protocols. In Farid Ablayev and Ernst W. Mayr, editors, *Proceedings of the 5th International Computer Science Symposium in Russia on Computer Science — Theory and Applications, CSR'2010 (Kazan, Russia, June 16-20, 2010)*, volume 6072 of *LNCS*, pages 25–36. Springer-Verlag, Berlin-Heidelberg, 2010.
- [102] Paul Bendich, Herbert Edelsbrunner, Michael Kerber, and Amit Patel. Persistent homology under non-uniform error. In Petr Hliněný and Antonín Kučera, editors, *Proceedings of the 35th International Symposium on Mathematical Foundations of Computer Science, MFCS'2010 (Brno, Czech Republic, August 23-27, 2010)*, volume 6281 of *LNCS*, pages 12–23. Springer-Verlag, Berlin-Heidelberg, 2010.
- [103] Paul Bendich, Herbert Edelsbrunner, Dmitriy Morozov, and Amit Patel. The robustness of level sets. In Mark de Berg and Ulrich Meyer, editors, *Proceedings of the 18th Annual European Symposium on Algorithms, ESA'2010, Part I (Liverpool, UK, September 6-8, 2010)*, volume 6346 of *LNCS*, pages 1–10. Springer-Verlag, Berlin-Heidelberg, 2010.
- [104] Kristóf Bérczi and László A. Végh. Restricted b -matchings in degree-bounded graphs. In Friedrich Eisenbrand and F. Bruce Shepherd, editors, *Proceedings of the 14th International Conference on Integer Programming and Combinatorial Optimization, IPCO'2010 (Lausanne, Switzerland, June 9-11, 2010)*, volume 6080 of *LNCS*, pages 43–56. Springer-Verlag, Berlin-Heidelberg, 2010.

- [105] Petra Berenbrink, Jurek Czyzowicz, Robert Elsässer, and Leszek Gąsieniec. Efficient information exchange in the random phone-call model. In Samson Abramsky, Cyril Gavoille, Claude Kirchner, Friedhelm Meyer auf der Heide, and Paul G. Spirakis, editors, *Proceedings of the 37th International Colloquium on Automata, Languages and Programming, ICALP'2010, Part II (Bordeaux, France, July 6-10, 2010)*, volume 6199 of *LNCS*, pages 127–138. Springer-Verlag, Berlin-Heidelberg, 2010.
- [106] Petra Berenbrink, Robert Elsässer, and Thomas Sauerwald. Communication complexity of quasirandom rumor spreading. In Mark de Berg and Ulrich Meyer, editors, *Proceedings of the 18th Annual European Symposium on Algorithms, ESA'2010, Part I (Liverpool, UK, September 6-8, 2010)*, volume 6346 of *LNCS*, pages 134–145. Springer-Verlag, Berlin-Heidelberg, 2010.
- [107] Petra Berenbrink, Robert Elsässer, and Thomas Sauerwald. Randomised broadcasting: Memory vs. randomness. In Alejandro López-Ortiz, editor, *Proceedings of the 9th Latin American Symposium on Theoretical Informatics, LATIN'2010 (Oaxaca, Mexico, April 19-23, 2010, 2010)*, volume 6034 of *LNCS*, pages 306–319. Springer-Verlag, Berlin-Heidelberg, 2010.
- [108] Annabell Berger and Matthias Müller-Hannemann. Uniform sampling of digraphs with a fixed degree sequence. In Dimitrios M. Thilikos, editor, *Proceedings of the 36th International Workshop on Graph-Theoretic Concepts in Computer Science, WG'2010 (Zarós, Crete, Greece, June 28-30, 2010)*, volume 6410 of *LNCS*, pages 220–231. Springer-Verlag, Berlin-Heidelberg, 2010.
- [109] Mikhail V. Berlinkov. Approximating the minimum length of synchronizing words is hard. In Farid Ablayev and Ernst W. Mayr, editors, *Proceedings of the 5th International Computer Science Symposium in Russia on Computer Science — Theory and Applications, CSR'2010 (Kazan, Russia, June 16-20, 2010)*, volume 6072 of *LNCS*, pages 37–47. Springer-Verlag, Berlin-Heidelberg, 2010.
- [110] Piotr Berman, Marek Karpinski, and Andrzej Lingas. Exact and approximation algorithms for geometric and capacitated set cover problems. In My T. Thai and Sartaj Sahni, editors, *Proceedings of the 16th*

Annual International Conference on Computing and Combinatorics, COCOON'2010 (Nha Trang, Vietnam, July 19-21, 2010), volume 6196 of *LNCS*, pages 226–234. Springer-Verlag, Berlin-Heidelberg, 2010.

- [111] Piotr Berman, Marek Karpinski, and Alexander Zelikovsky. A $3/2$ -approximation algorithm for generalized steiner trees in complete graphs with edge lengths 1 and 2. In Otfried Cheong, Kyung-Yong Chwa, and Kunsoo Park, editors, *Proceedings of the 21st International Symposium on Algorithms and Computation, ISAAC'2010, Part I (Jeju Island, Korea, December 15-17, 2010)*, volume 6506 of *LNCS*, pages 15–24. Springer-Verlag, Berlin-Heidelberg, 2010.
- [112] Aurore Bernard and Nicolas Gama. Smallest reduction matrix of binary quadratic forms: And cryptographic applications. In Guillaume Hanrot, François Morain, and Emmanuel Thomé, editors, *Proceedings of the 9th International Symposium on Algorithmic Number Theory, ANTS-IX (Nancy, France, July 19-23, 2010)*, volume 6197 of *LNCS*, pages 32–49. Springer-Verlag, Berlin-Heidelberg, 2010.
- [113] Eike Best and Philippe Darondeau. Separability in persistent petri nets. In Johan Lilius and Wojciech Penczek, editors, *Proceedings of the 31st International Conference on Applications and Theory of Petri Nets, PETRI NETS'2010 (Braga, Portugal, 21-25, 2010)*, volume 6128 of *LNCS*, pages 246–266. Springer-Verlag, Berlin-Heidelberg, 2010.
- [114] Nadja Betzler. On problem kernels for possible winner determination under the k -approval protocol. In Petr Hliněný and Antonín Kučera, editors, *Proceedings of the 35th International Symposium on Mathematical Foundations of Computer Science, MFCS'2010 (Brno, Czech Republic, August 23-27, 2010)*, volume 6281 of *LNCS*, pages 114–125. Springer-Verlag, Berlin-Heidelberg, 2010.
- [115] Nadja Betzler, Jiong Guo, Christian Komusiewicz, and Rolf Niedermeier. Average parameterization and partial kernelization for computing medians. In Alejandro López-Ortiz, editor, *Proceedings of the 9th Latin American Symposium on Theoretical Informatics, LATIN'2010 (Oaxaca, Mexico, April 19-23, 2010, 2010)*, volume 6034 of *LNCS*, pages 60–71. Springer-Verlag, Berlin-Heidelberg, 2010.

- [116] René van Bevern, Christian Komusiewicz, Hannes Moser, and Rolf Niedermeier. Measuring indifference: Unit interval vertex deletion. In Dimitrios M. Thilikos, editor, *Proceedings of the 36th International Workshop on Graph-Theoretic Concepts in Computer Science, WG'2010 (Zarós, Crete, Greece, June 28-30, 2010)*, volume 6410 of *LNCS*, pages 232–243. Springer-Verlag, Berlin-Heidelberg, 2010.
- [117] Ivona Bezáková and Adam J. Friedlander. Counting minimum (s, t) -cuts in weighted planar graphs in polynomial time. In Petr Hliněný and Antonín Kučera, editors, *Proceedings of the 35th International Symposium on Mathematical Foundations of Computer Science, MFCS'2010 (Brno, Czech Republic, August 23-27, 2010)*, volume 6281 of *LNCS*, pages 126–137. Springer-Verlag, Berlin-Heidelberg, 2010.
- [118] Umang Bhaskar, Lisa Fleischer, and Chien-Chung Huang. The price of collusion in series-parallel networks. In Friedrich Eisenbrand and F. Bruce Shepherd, editors, *Proceedings of the 14th International Conference on Integer Programming and Combinatorial Optimization, IPCO'2010 (Lausanne, Switzerland, June 9-11, 2010)*, volume 6080 of *LNCS*, pages 313–326. Springer-Verlag, Berlin-Heidelberg, 2010.
- [119] Amitava Bhattacharya, Bhaskar DasGupta, Dhruv Mubayi, and György Turán. On approximate horn formula minimization. In Samson Abramsky, Cyril Gavoille, Claude Kirchner, Friedhelm Meyer auf der Heide, and Paul G. Spirakis, editors, *Proceedings of the 37th International Colloquium on Automata, Languages and Programming, ICALP'2010, Part I (Bordeaux, France, July 6-10, 2010)*, volume 6198 of *LNCS*, pages 438–450. Springer-Verlag, Berlin-Heidelberg, 2010.
- [120] Binay Bhattacharya and Yuzhuang Hu. Approximation algorithms for the multi-vehicle scheduling problem. In Otfried Cheong, Kyung-Yong Chwa, and Kunsoo Park, editors, *Proceedings of the 21st International Symposium on Algorithms and Computation, ISAAC'2010, Part II (Jeju Island, Korea, December 15-17, 2010)*, volume 6507 of *LNCS*, pages 192–205. Springer-Verlag, Berlin-Heidelberg, 2010.
- [121] Kshipra Bhawalkar, Martin Gairing, and Tim Roughgarden. Weighted congestion games: Price of anarchy, universal worst-case examples, and tightness. In Mark de Berg and Ulrich Meyer, editors, *Proceedings of*

the 18th Annual European Symposium on Algorithms, ESA'2010, Part II (Liverpool, UK, September 6-8, 2010), volume 6347 of *LNCS*, pages 17–28. Springer-Verlag, Berlin-Heidelberg, 2010.

- [122] Jean-François Biasse and Jr. Jacobson, Michael J. Practical improvements to class group and regulator computation of real quadratic fields. In Guillaume Hanrot, François Morain, and Emmanuel Thomé, editors, *Proceedings of the 9th International Symposium on Algorithmic Number Theory, ANTS-IX (Nancy, France, July 19-23, 2010)*, volume 6197 of *LNCS*, pages 50–65. Springer-Verlag, Berlin-Heidelberg, 2010.
- [123] Therese Biedl. Small drawings of series-parallel graphs and other subclasses of planar graphs. In David Eppstein and Emden R. Gansner, editors, *Proceedings of the 17th International Symposium on Graph Drawing, GD'2009 (Chicago, Illinois, USA, September 22-25, 2009)*, volume 5849 of *LNCS*, pages 280–291. Springer-Verlag, Berlin-Heidelberg, 2010.
- [124] Therese Biedl and Lesvia Elena Ruiz Velázquez. Drawing planar 3-trees with given face-areas. In David Eppstein and Emden R. Gansner, editors, *Proceedings of the 17th International Symposium on Graph Drawing, GD'2009 (Chicago, Illinois, USA, September 22-25, 2009)*, volume 5849 of *LNCS*, pages 316–322. Springer-Verlag, Berlin-Heidelberg, 2010.
- [125] Marcin Bienkowski and Stefan Schmid. Online function tracking with generalized penalties. In Haim Kaplan, editor, *Proceedings of the 12th Scandinavian Symposium and Workshops on Algorithm Theory, SWAT'2010 (Bergen, Norway, June 21-23, 2010)*, volume 6139 of *LNCS*, pages 359–370. Springer-Verlag, Berlin-Heidelberg, 2010.
- [126] Daniel Bienstock. Eigenvalue techniques for convex objective, non-convex optimization problems. In Friedrich Eisenbrand and F. Bruce Shepherd, editors, *Proceedings of the 14th International Conference on Integer Programming and Combinatorial Optimization, IPCO'2010 (Lausanne, Switzerland, June 9-11, 2010)*, volume 6080 of *LNCS*, pages 29–42. Springer-Verlag, Berlin-Heidelberg, 2010.
- [127] Daniel Bienstock and Mark Zuckerberg. Solving lp relaxations of large-scale precedence constrained problems. In Friedrich Eisenbrand

and F. Bruce Shepherd, editors, *Proceedings of the 14th International Conference on Integer Programming and Combinatorial Optimization, IPCO'2010 (Lausanne, Switzerland, June 9-11, 2010)*, volume 6080 of *LNCS*, pages 1–14. Springer-Verlag, Berlin-Heidelberg, 2010.

- [128] Davide Bilò, Luciano Gualà, and Guido Proietti. Finding best swap edges minimizing the routing cost of a spanning tree. In Petr Hliněný and Antonín Kučera, editors, *Proceedings of the 35th International Symposium on Mathematical Foundations of Computer Science, MFCS'2010 (Brno, Czech Republic, August 23-27, 2010)*, volume 6281 of *LNCS*, pages 138–149. Springer-Verlag, Berlin-Heidelberg, 2010.
- [129] Davide Bilò, Luciano Gualà, and Guido Proietti. Improved approximability and non-approximability results for graph diameter decreasing problems. In Petr Hliněný and Antonín Kučera, editors, *Proceedings of the 35th International Symposium on Mathematical Foundations of Computer Science, MFCS'2010 (Brno, Czech Republic, August 23-27, 2010)*, volume 6281 of *LNCS*, pages 150–161. Springer-Verlag, Berlin-Heidelberg, 2010.
- [130] Daniel Binkele-Raible, Ljiljana Brankovic, Henning Fernau, Joachim Kneis, Dieter Kratsch, Alexander Langer, Mathieu Liedloff, and Peter Rossmanith. A parameterized route to exact puzzles: Breaking the 2^n -barrier for irredundance. In Tiziana Calamoneri and Josep Diaz, editors, *Proceedings of the 7th International Conference on Algorithms and Complexity, CIAC'2010 (Rome, Italy, May 26-28, 2010)*, volume 6078 of *LNCS*, pages 311–322. Springer-Verlag, Berlin-Heidelberg, 2010.
- [131] Daniel Binkele-Raible and Henning Fernau. A faster exact algorithm for the directed maximum leaf spanning tree problem. In Farid Ablayev and Ernst W. Mayr, editors, *Proceedings of the 5th International Computer Science Symposium in Russia on Computer Science — Theory and Applications, CSR'2010 (Kazan, Russia, June 16-20, 2010)*, volume 6072 of *LNCS*, pages 328–339. Springer-Verlag, Berlin-Heidelberg, 2010.
- [132] Carla Binucci, Ulrik Brandes, Giuseppe Di Battista, Walter Didimo, Marco Gaertler, Pietro Palladino, Maurizio Patrignani, Antonios Symvonis, and Katharina Zweig. Drawing trees in a streaming model.

In David Eppstein and Emden R. Gansner, editors, *Proceedings of the 17th International Symposium on Graph Drawing, GD'2009 (Chicago, Illinois, USA, September 22-25, 2009)*, volume 5849 of *LNCS*, pages 292–303. Springer-Verlag, Berlin-Heidelberg, 2010.

- [133] Péter Biró, Robert W. Irving, and David F. Manlove. Popular matchings in the marriage and roommates problems. In Tiziana Calamoneri and Josep Diaz, editors, *Proceedings of the 7th International Conference on Algorithms and Complexity, CIAC'2010 (Rome, Italy, May 26-28, 2010)*, volume 6078 of *LNCS*, pages 97–108. Springer-Verlag, Berlin-Heidelberg, 2010.
- [134] Sudip Biswas, Debajyoti Mondal, Rahnuma Islam Nishat, and Md. Saidur Rahman. Minimum-segment convex drawings of 3-connected cubic plane graphs. In My T. Thai and Sartaj Sahni, editors, *Proceedings of the 16th Annual International Conference on Computing and Combinatorics, COCOON'2010 (Nha Trang, Vietnam, July 19-21, 2010)*, volume 6196 of *LNCS*, pages 182–191. Springer-Verlag, Berlin-Heidelberg, 2010.
- [135] Steven Bitner, Yam K. Cheung, Atlas F. Cook IV, Ovidiu Daescu, Anastasia Kurdia, and Carola Wenk. Visiting a sequence of points with a bevel-tip needle. In Alejandro López-Ortiz, editor, *Proceedings of the 9th Latin American Symposium on Theoretical Informatics, LATIN'2010 (Oaxaca, Mexico, April 19-23, 2010, 2010)*, volume 6034 of *LNCS*, pages 492–502. Springer-Verlag, Berlin-Heidelberg, 2010.
- [136] Andreas Björklund, Thore Husfeldt, Petteri Kaski, and Mikko Koivisto. Covering and packing in linear space. In Samson Abramsky, Cyril Gavoille, Claude Kirchner, Friedhelm Meyer auf der Heide, and Paul G. Spirakis, editors, *Proceedings of the 37th International Colloquium on Automata, Languages and Programming, ICALP'2010, Part I (Bordeaux, France, July 6-10, 2010)*, volume 6198 of *LNCS*, pages 727–737. Springer-Verlag, Berlin-Heidelberg, 2010.
- [137] Anna Blasiak and Robert Kleinberg. The serializability of network codes. In Samson Abramsky, Cyril Gavoille, Claude Kirchner, Friedhelm Meyer auf der Heide, and Paul G. Spirakis, editors, *Proceedings of the 37th International Colloquium on Automata, Languages*

and Programming, ICALP'2010, Part II (Bordeaux, France, July 6-10, 2010), volume 6199 of *LNCS*, pages 100–114. Springer-Verlag, Berlin-Heidelberg, 2010.

- [138] Guy E. Blelloch and Arash Farzan. Succinct representations of separable graphs. In Amihood Amir and Laxmi Parida, editors, *Proceedings of the 21st Annual Symposium on Combinatorial Pattern Matching, CPM'2010 (New York, NY, USA, June 21-23, 2010)*, volume 6129 of *LNCS*, pages 138–150. Springer-Verlag, Berlin-Heidelberg, 2010.
- [139] Andreas Bley and Jose Neto. Approximability of 3- and 4-hop bounded disjoint paths problems. In Friedrich Eisenbrand and F. Bruce Shepherd, editors, *Proceedings of the 14th International Conference on Integer Programming and Combinatorial Optimization, IPCO'2010 (Lausanne, Switzerland, June 9-11, 2010)*, volume 6080 of *LNCS*, pages 205–218. Springer-Verlag, Berlin-Heidelberg, 2010.
- [140] Jeremiah Blocki and Ryan Williams. Resolving the complexity of some data privacy problems. In Samson Abramsky, Cyril Gavoille, Claude Kirchner, Friedhelm Meyer auf der Heide, and Paul G. Spirakis, editors, *Proceedings of the 37th International Colloquium on Automata, Languages and Programming, ICALP'2010, Part II (Bordeaux, France, July 6-10, 2010)*, volume 6199 of *LNCS*, pages 393–404. Springer-Verlag, Berlin-Heidelberg, 2010.
- [141] Manuel Blum. Understanding and inductive inference. In My T. Thai and Sartaj Sahni, editors, *Proceedings of the 16th Annual International Conference on Computing and Combinatorics, COCOON'2010 (Nha Trang, Vietnam, July 19-21, 2010)*, volume 6196 of *LNCS*, pages 1–1. Springer-Verlag, Berlin-Heidelberg, 2010.
- [142] Norbert Blum. On $lr(k)$ -parsers of polynomial size. In Samson Abramsky, Cyril Gavoille, Claude Kirchner, Friedhelm Meyer auf der Heide, and Paul G. Spirakis, editors, *Proceedings of the 37th International Colloquium on Automata, Languages and Programming, ICALP'2010, Part II (Bordeaux, France, July 6-10, 2010)*, volume 6199 of *LNCS*, pages 163–174. Springer-Verlag, Berlin-Heidelberg, 2010.
- [143] Hans-Joachim Böckenhauer, Karin Freiermuth, Juraj Hromkovič, Tobias Mömke, Andreas Srock, and Björn Steffen. The steiner tree reop-

- timization problem with sharpened triangle inequality. In Tiziana Calamoneri and Josep Diaz, editors, *Proceedings of the 7th International Conference on Algorithms and Complexity, CIAC'2010 (Rome, Italy, May 26-28, 2010)*, volume 6078 of *LNCS*, pages 180–191. Springer-Verlag, Berlin-Heidelberg, 2010.
- [144] Hans-Joachim Böckenhauer, Ralf Klasing, Tobias Mömke, and Monika Steinová. Improved approximations for tsp with simple precedence constraints. In Tiziana Calamoneri and Josep Diaz, editors, *Proceedings of the 7th International Conference on Algorithms and Complexity, CIAC'2010 (Rome, Italy, May 26-28, 2010)*, volume 6078 of *LNCS*, pages 61–72. Springer-Verlag, Berlin-Heidelberg, 2010.
 - [145] Manuel Bodirsky, Victor Dalmau, Barnaby Martin, and Michael Pinsker. Distance constraint satisfaction problems. In Petr Hliněný and Antonín Kučera, editors, *Proceedings of the 35th International Symposium on Mathematical Foundations of Computer Science, MFCS'2010 (Brno, Czech Republic, August 23-27, 2010)*, volume 6281 of *LNCS*, pages 162–173. Springer-Verlag, Berlin-Heidelberg, 2010.
 - [146] Hans L. Bodlaender, Erik Jan van Leeuwen, Johan M.M. van Rooij, and Martin Vatshelle. Faster algorithms on branch and clique decompositions. In Petr Hliněný and Antonín Kučera, editors, *Proceedings of the 35th International Symposium on Mathematical Foundations of Computer Science, MFCS'2010 (Brno, Czech Republic, August 23-27, 2010)*, volume 6281 of *LNCS*, pages 174–185. Springer-Verlag, Berlin-Heidelberg, 2010.
 - [147] Mikołaj Bojańczyk and Paweł Parys. Efficient evaluation of nondeterministic automata using factorization forests. In Samson Abramsky, Cyril Gavoille, Claude Kirchner, Friedhelm Meyer auf der Heide, and Paul G. Spirakis, editors, *Proceedings of the 37th International Colloquium on Automata, Languages and Programming, ICALP'2010, Part I (Bordeaux, France, July 6-10, 2010)*, volume 6198 of *LNCS*, pages 515–526. Springer-Verlag, Berlin-Heidelberg, 2010.
 - [148] Udi Boker, Orna Kupferman, and Adin Rosenberg. Alternation removal in büchi automata. In Samson Abramsky, Cyril Gavoille, Claude Kirchner, Friedhelm Meyer auf der Heide, and Paul G. Spirakis, editors, *Proceedings of the 37th International Colloquium on Automata,*

Languages and Programming, ICALP'2010, Part II (Bordeaux, France, July 6-10, 2010), volume 6199 of *LNCS*, pages 76–87. Springer-Verlag, Berlin-Heidelberg, 2010.

- [149] Beate Bollig. Exponential space complexity for symbolic maximum flow algorithms in 0-1 networks. In Petr Hliněný and Antonín Kučera, editors, *Proceedings of the 35th International Symposium on Mathematical Foundations of Computer Science, MFCS'2010 (Brno, Czech Republic, August 23-27, 2010)*, volume 6281 of *LNCS*, pages 186–197. Springer-Verlag, Berlin-Heidelberg, 2010.
- [150] Beate Bollig. A larger lower bound on the obdd complexity of the most significant bit of multiplication. In Alejandro López-Ortiz, editor, *Proceedings of the 9th Latin American Symposium on Theoretical Informatics, LATIN'2010 (Oaxaca, Mexico, April 19-23, 2010, 2010)*, volume 6034 of *LNCS*, pages 255–266. Springer-Verlag, Berlin-Heidelberg, 2010.
- [151] Benedikt Bollig, Paul Gastin, Benjamin Monmege, and Marc Zeitoun. Pebble weighted automata and transitive closure logics. In Samson Abramsky, Cyril Gavoille, Claude Kirchner, Friedhelm Meyer auf der Heide, and Paul G. Spirakis, editors, *Proceedings of the 37th International Colloquium on Automata, Languages and Programming, ICALP'2010, Part II (Bordeaux, France, July 6-10, 2010)*, volume 6199 of *LNCS*, pages 587–598. Springer-Verlag, Berlin-Heidelberg, 2010.
- [152] Benedikt Bollig and Loïc Hélouët. Realizability of dynamic msc languages. In Farid Ablayev and Ernst W. Mayr, editors, *Proceedings of the 5th International Computer Science Symposium in Russia on Computer Science — Theory and Applications, CSR'2010 (Kazan, Russia, June 16-20, 2010)*, volume 6072 of *LNCS*, pages 48–59. Springer-Verlag, Berlin-Heidelberg, 2010.
- [153] Immanuel Bomze, Markus Chimani, Michael Jünger, Ivana Ljubić, Petra Mutzel, and Bernd Zey. Solving two-stage stochastic steiner tree problems by two-stage branch-and-cut. In Otfried Cheong, Kyung-Yong Chwa, and Kunsoo Park, editors, *Proceedings of the 21st International Symposium on Algorithms and Computation, ISAAC'2010, Part I (Jeju Island, Korea, December 15-17, 2010)*, volume 6506 of *LNCS*, pages 427–439. Springer-Verlag, Berlin-Heidelberg, 2010.

- [154] Nicolas Bonichon, Cyril Gavoille, Nicolas Hanusse, and David Ilcinkas. Connections between theta-graphs, delaunay triangulations, and orthogonal surfaces. In Dimitrios M. Thilikos, editor, *Proceedings of the 36th International Workshop on Graph-Theoretic Concepts in Computer Science, WG'2010 (Zarós, Crete, Greece, June 28-30, 2010)*, volume 6410 of *LNCS*, pages 266–278. Springer-Verlag, Berlin-Heidelberg, 2010.
- [155] Nicolas Bonichon, Cyril Gavoille, Nicolas Hanusse, and Ljubomir Perković. Plane spanners of maximum degree six. In Samson Abramsky, Cyril Gavoille, Claude Kirchner, Friedhelm Meyer auf der Heide, and Paul G. Spirakis, editors, *Proceedings of the 37th International Colloquium on Automata, Languages and Programming, ICALP'2010, Part I (Bordeaux, France, July 6-10, 2010)*, volume 6198 of *LNCS*, pages 19–30. Springer-Verlag, Berlin-Heidelberg, 2010.
- [156] Vincenzo Bonifaci and Alberto Marchetti-Spaccamela. Feasibility analysis of sporadic real-time multiprocessor task systems. In Mark de Berg and Ulrich Meyer, editors, *Proceedings of the 18th Annual European Symposium on Algorithms, ESA'2010, Part II (Liverpool, UK, September 6-8, 2010)*, volume 6347 of *LNCS*, pages 230–241. Springer-Verlag, Berlin-Heidelberg, 2010.
- [157] Paul Bonsma and Felix Breuer. Counting hexagonal patches and independent sets in circle graphs. In Alejandro López-Ortiz, editor, *Proceedings of the 9th Latin American Symposium on Theoretical Informatics, LATIN'2010 (Oaxaca, Mexico, April 19-23, 2010, 2010)*, volume 6034 of *LNCS*, pages 603–614. Springer-Verlag, Berlin-Heidelberg, 2010.
- [158] Allan Borodin and Brendan Lucier. On the limitations of greedy mechanism design for truthful combinatorial auctions. In Samson Abramsky, Cyril Gavoille, Claude Kirchner, Friedhelm Meyer auf der Heide, and Paul G. Spirakis, editors, *Proceedings of the 37th International Colloquium on Automata, Languages and Programming, ICALP'2010, Part I (Bordeaux, France, July 6-10, 2010)*, volume 6198 of *LNCS*, pages 90–101. Springer-Verlag, Berlin-Heidelberg, 2010.
- [159] Endre Boros, Khaled Elbassioni, Vladimir Gurvich, and Kazuhisa Makino. A pumping algorithm for ergodic stochastic mean payoff

- games with perfect information. In Friedrich Eisenbrand and F. Bruce Shepherd, editors, *Proceedings of the 14th International Conference on Integer Programming and Combinatorial Optimization, IPCO'2010 (Lausanne, Switzerland, June 9-11, 2010)*, volume 6080 of *LNCS*, pages 341–354. Springer-Verlag, Berlin-Heidelberg, 2010.
- [160] Joppe W. Bos, Thorsten Kleinjung, and Arjen K. Lenstra. On the use of the negation map in the pollard rho method. In Guillaume Hanrot, François Morain, and Emmanuel Thomé, editors, *Proceedings of the 9th International Symposium on Algorithmic Number Theory, ANTS-IX (Nancy, France, July 19-23, 2010)*, volume 6197 of *LNCS*, pages 66–82. Springer-Verlag, Berlin-Heidelberg, 2010.
 - [161] Prosenjit Bose, Paz Carmi, Dana Jansens, Anil Maheshwari, Pat Morin, and Michiel Smid. Improved methods for generating quasi-gray codes. In Haim Kaplan, editor, *Proceedings of the 12th Scandinavian Symposium and Workshops on Algorithm Theory, SWAT'2010 (Bergen, Norway, June 21-23, 2010)*, volume 6139 of *LNCS*, pages 224–235. Springer-Verlag, Berlin-Heidelberg, 2010.
 - [162] Prosenjit Bose, Paz Carmi, Michiel Smid, and Daming Xu. Communication-efficient construction of the plane localized delaunay graph. In Alejandro López-Ortiz, editor, *Proceedings of the 9th Latin American Symposium on Theoretical Informatics, LATIN'2010 (Oaxaca, Mexico, April 19-23, 2010, 2010)*, volume 6034 of *LNCS*, pages 282–293. Springer-Verlag, Berlin-Heidelberg, 2010.
 - [163] Prosenjit Bose, Mirela Damian, Karim Douïeb, Joseph O'Rourke, Ben Seamone, Michiel Smid, and Stefanie Wuhrer. $\pi/2$ -angle yao graphs are spanners. In Otfried Cheong, Kyung-Yong Chwa, and Kunsoo Park, editors, *Proceedings of the 21st International Symposium on Algorithms and Computation, ISAAC'2010, Part II (Jeju Island, Korea, December 15-17, 2010)*, volume 6507 of *LNCS*, pages 446–457. Springer-Verlag, Berlin-Heidelberg, 2010.
 - [164] Prosenjit Bose and Karim Douïeb. Should static search trees ever be unbalanced? In Otfried Cheong, Kyung-Yong Chwa, and Kunsoo Park, editors, *Proceedings of the 21st International Symposium on Algorithms and Computation, ISAAC'2010, Part I (Jeju Island, Korea, December*

- 15-17, 2010), volume 6506 of LNCS, pages 109–120. Springer-Verlag, Berlin-Heidelberg, 2010.*
- [165] Prosenjit Bose, Karim Douieb, Vida Dujmović, and Rolf Fagerberg. An $o(\log \log n)$ -competitive binary search tree with optimal worst-case access times. In Haim Kaplan, editor, *Proceedings of the 12th Scandinavian Symposium and Workshops on Algorithm Theory, SWAT'2010 (Bergen, Norway, June 21-23, 2010)*, volume 6139 of LNCS, pages 38–49. Springer-Verlag, Berlin-Heidelberg, 2010.
 - [166] Prosenjit Bose, Karim Douieb, Vida Dujmović, and John Howat. Layered working-set trees. In Alejandro López-Ortiz, editor, *Proceedings of the 9th Latin American Symposium on Theoretical Informatics, LATIN'2010 (Oaxaca, Mexico, April 19-23, 2010, 2010)*, volume 6034 of LNCS, pages 686–696. Springer-Verlag, Berlin-Heidelberg, 2010.
 - [167] N. Bourgeois, A. Giannakos, G. Lucarelli, I. Milis, V.Th. Paschos, and O. Pottié. The max quasi-independent set problem. In Farid Ablayev and Ernst W. Mayr, editors, *Proceedings of the 5th International Computer Science Symposium in Russia on Computer Science — Theory and Applications, CSR'2010 (Kazan, Russia, June 16-20, 2010)*, volume 6072 of LNCS, pages 60–71. Springer-Verlag, Berlin-Heidelberg, 2010.
 - [168] Nicolas Bourgeois, Bruno Escoffier, Vangelis Th. Paschos, and Johan M.M. van Rooij. A bottom-up method and fast algorithms for MAX INDEPENDENT SET. In Haim Kaplan, editor, *Proceedings of the 12th Scandinavian Symposium and Workshops on Algorithm Theory, SWAT'2010 (Bergen, Norway, June 21-23, 2010)*, volume 6139 of LNCS, pages 62–73. Springer-Verlag, Berlin-Heidelberg, 2010.
 - [169] Olivier Bournez, Daniel S. Graça, and Emmanuel Hainry. Robust computations with dynamical systems. In Petr Hliněný and Antonín Kučera, editors, *Proceedings of the 35th International Symposium on Mathematical Foundations of Computer Science, MFCS'2010 (Brno, Czech Republic, August 23-27, 2010)*, volume 6281 of LNCS, pages 198–208. Springer-Verlag, Berlin-Heidelberg, 2010.
 - [170] Laurent Boyer and Guillaume Theyssier. On factor universality in symbolic spaces. In Petr Hliněný and Antonín Kučera, editors, *Proceedings*

of the 35th International Symposium on Mathematical Foundations of Computer Science, MFCS'2010 (Brno, Czech Republic, August 23-27, 2010), volume 6281 of *LNCS*, pages 209–220. Springer-Verlag, Berlin-Heidelberg, 2010.

- [171] Ulrik Brandes and Christian Pich. More flexible radial layout. In David Eppstein and Emden R. Gansner, editors, *Proceedings of the 17th International Symposium on Graph Drawing, GD'2009 (Chicago, Illinois, USA, September 22-25, 2009)*, volume 5849 of *LNCS*, pages 107–118. Springer-Verlag, Berlin-Heidelberg, 2010.
- [172] Andreas Brandstädt, Christian Hundt, and Ragnar Nevries. Efficient edge domination on hole-free graphs in polynomial time. In Alejandro López-Ortiz, editor, *Proceedings of the 9th Latin American Symposium on Theoretical Informatics, LATIN'2010 (Oaxaca, Mexico, April 19-23, 2010, 2010)*, volume 6034 of *LNCS*, pages 650–661. Springer-Verlag, Berlin-Heidelberg, 2010.
- [173] Ljiljana Brankovic and Henning Fernau. Combining two worlds: Parameterised approximation for vertex cover. In Otfried Cheong, Kyung-Yong Chwa, and Kunsoo Park, editors, *Proceedings of the 21st International Symposium on Algorithms and Computation, ISAAC'2010, Part I (Jeju Island, Korea, December 15-17, 2010)*, volume 6506 of *LNCS*, pages 390–402. Springer-Verlag, Berlin-Heidelberg, 2010.
- [174] Laurent Braud and Arnaud Carayol. Linear orders in the pushdown hierarchy. In Samson Abramsky, Cyril Gavoille, Claude Kirchner, Friedhelm Meyer auf der Heide, and Paul G. Spirakis, editors, *Proceedings of the 37th International Colloquium on Automata, Languages and Programming, ICALP'2010, Part II (Bordeaux, France, July 6-10, 2010)*, volume 6199 of *LNCS*, pages 88–99. Springer-Verlag, Berlin-Heidelberg, 2010.
- [175] Tomáš Brázdil, Javier Esparza, Stefan Kiefer, and Michael Luttenberger. Space-efficient scheduling of stochastically generated tasks. In Samson Abramsky, Cyril Gavoille, Claude Kirchner, Friedhelm Meyer auf der Heide, and Paul G. Spirakis, editors, *Proceedings of the 37th International Colloquium on Automata, Languages and Programming, ICALP'2010, Part II (Bordeaux, France, July 6-10, 2010)*, volume 6199 of *LNCS*, pages 539–550. Springer-Verlag, Berlin-Heidelberg, 2010.

- [176] Tomáš Brázdil, Petr Jančar, and Antonín Kučera. Reachability games on extended vector addition systems with states. In Samson Abramsky, Cyril Gavoille, Claude Kirchner, Friedhelm Meyer auf der Heide, and Paul G. Spirakis, editors, *Proceedings of the 37th International Colloquium on Automata, Languages and Programming, ICALP'2010, Part II (Bordeaux, France, July 6-10, 2010)*, volume 6199 of *LNCS*, pages 478–489. Springer-Verlag, Berlin-Heidelberg, 2010.
- [177] Janina Brenner and Guido Schäfer. Online cooperative cost sharing. In Tiziana Calamoneri and Josep Diaz, editors, *Proceedings of the 7th International Conference on Algorithms and Complexity, CIAC'2010 (Rome, Italy, May 26-28, 2010)*, volume 6078 of *LNCS*, pages 252–263. Springer-Verlag, Berlin-Heidelberg, 2010.
- [178] Richard P. Brent and Paul Zimmermann. An $o(m(n) \log n)$ algorithm for the jacobi symbol. In Guillaume Hanrot, François Morain, and Emmanuel Thomé, editors, *Proceedings of the 9th International Symposium on Algorithmic Number Theory, ANTS-IX (Nancy, France, July 19-23, 2010)*, volume 6197 of *LNCS*, pages 83–95. Springer-Verlag, Berlin-Heidelberg, 2010.
- [179] Alain Bretto and Yannick Silvestre. Factorization of cartesian products of hypergraphs. In My T. Thai and Sartaj Sahni, editors, *Proceedings of the 16th Annual International Conference on Computing and Combinatorics, COCOON'2010 (Nha Trang, Vietnam, July 19-21, 2010)*, volume 6196 of *LNCS*, pages 173–181. Springer-Verlag, Berlin-Heidelberg, 2010.
- [180] Stina Bridgeman. Using high dimensions to compare drawings of graphs. In David Eppstein and Emden R. Gansner, editors, *Proceedings of the 17th International Symposium on Graph Drawing, GD'2009 (Chicago, Illinois, USA, September 22-25, 2009)*, volume 5849 of *LNCS*, pages 408–410. Springer-Verlag, Berlin-Heidelberg, 2010.
- [181] Éric Brier and Christophe Clavier. New families of ecm curves for Cunningham numbers. In Guillaume Hanrot, François Morain, and Emmanuel Thomé, editors, *Proceedings of the 9th International Symposium on Algorithmic Number Theory, ANTS-IX (Nancy, France, July 19-23, 2010)*, volume 6197 of *LNCS*, pages 96–109. Springer-Verlag, Berlin-Heidelberg, 2010.

- [182] Jop Briët, Fernando Mário de Oliveira Filho, and Frank Vallentin. The positive semidefinite grothendieck problem with rank constraint. In Samson Abramsky, Cyril Gavoille, Claude Kirchner, Friedhelm Meyer auf der Heide, and Paul G. Spirakis, editors, *Proceedings of the 37th International Colloquium on Automata, Languages and Programming, ICALP'2010, Part I (Bordeaux, France, July 6-10, 2010)*, volume 6198 of *LNCS*, pages 31–42. Springer-Verlag, Berlin-Heidelberg, 2010.
- [183] Thomas Brihaye, Véronique Bruyère, and Julie De Pril. Equilibria in quantitative reachability games. In Farid Ablayev and Ernst W. Mayr, editors, *Proceedings of the 5th International Computer Science Symposium in Russia on Computer Science — Theory and Applications, CSR'2010 (Kazan, Russia, June 16-20, 2010)*, volume 6072 of *LNCS*, pages 72–83. Springer-Verlag, Berlin-Heidelberg, 2010.
- [184] Gerth Stølting Brødal, Pooya Davoodi, and S. Srinivasa Rao. On space efficient two dimensional range minimum data structures. In Mark de Berg and Ulrich Meyer, editors, *Proceedings of the 18th Annual European Symposium on Algorithms, ESA'2010, Part II (Liverpool, UK, September 6-8, 2010)*, volume 6347 of *LNCS*, pages 171–182. Springer-Verlag, Berlin-Heidelberg, 2010.
- [185] Gerth Stølting Brodal, Casper Kejlberg-Rasmussen, and Jakob Truelsen. A cache-oblivious implicit dictionary with the working set property. In Otfried Cheong, Kyung-Yong Chwa, and Kunsoo Park, editors, *Proceedings of the 21st International Symposium on Algorithms and Computation, ISAAC'2010, Part II (Jeju Island, Korea, December 15-17, 2010)*, volume 6507 of *LNCS*, pages 37–48. Springer-Verlag, Berlin-Heidelberg, 2010.
- [186] Gerth Stølting Brodal, Spyros Sioutas, Kostas Tsichlas, and Christos Zaroliagis. D²-tree: A new overlay with deterministic bounds. In Otfried Cheong, Kyung-Yong Chwa, and Kunsoo Park, editors, *Proceedings of the 21st International Symposium on Algorithms and Computation, ISAAC'2010, Part II (Jeju Island, Korea, December 15-17, 2010)*, volume 6507 of *LNCS*, pages 1–12. Springer-Verlag, Berlin-Heidelberg, 2010.
- [187] Andrej Brodnik and John Iacono. Unit-time predecessor queries on massive data sets. In Otfried Cheong, Kyung-Yong Chwa, and Kun-

- soo Park, editors, *Proceedings of the 21st International Symposium on Algorithms and Computation, ISAAC'2010, Part I (Jeju Island, Korea, December 15-17, 2010)*, volume 6506 of *LNCS*, pages 133–144. Springer-Verlag, Berlin-Heidelberg, 2010.
- [188] Hajo Broersma, Fedor V. Fomin, Pim van ’t Hof, and Daniël Paulusma. Fast exact algorithms for hamiltonicity in claw-free graphs. In Christophe Paul and Michel Habib, editors, *Proceedings of the 35th International Workshop on Graph-Theoretic Concepts in Computer Science, WG'2009 (Montpellier, France, June 24-26, 2009)*, volume 5911 of *LNCS*, pages 44–53. Springer-Verlag, Berlin-Heidelberg, 2010.
 - [189] Hajo Broersma, Petr A. Golovach, Daniël Paulusma, and Jian Song. Narrowing down the gap on the complexity of coloring p_k -free graphs. In Dimitrios M. Thilikos, editor, *Proceedings of the 36th International Workshop on Graph-Theoretic Concepts in Computer Science, WG'2010 (Zarós, Crete, Greece, June 28-30, 2010)*, volume 6410 of *LNCS*, pages 63–74. Springer-Verlag, Berlin-Heidelberg, 2010.
 - [190] Hajo Broersma, Petr A. Golovach, Daniël Paulusma, and Jian Song. On coloring graphs without induced forests. In Otfried Cheong, Kyung-Yong Chwa, and Kunsoo Park, editors, *Proceedings of the 21st International Symposium on Algorithms and Computation, ISAAC'2010, Part II (Jeju Island, Korea, December 15-17, 2010)*, volume 6507 of *LNCS*, pages 156–167. Springer-Verlag, Berlin-Heidelberg, 2010.
 - [191] Nils Bruin and Sander R. Dahmen. Visualizing elements of sha[3] in genus 2 jacobians. In Guillaume Hanrot, François Morain, and Emmanuel Thomé, editors, *Proceedings of the 9th International Symposium on Algorithmic Number Theory, ANTS-IX (Nancy, France, July 19-23, 2010)*, volume 6197 of *LNCS*, pages 110–125. Springer-Verlag, Berlin-Heidelberg, 2010.
 - [192] Janusz Brzozowski, Galina Jirásková, and Baiyu Li. Quotient complexity of ideal languages. In Alejandro López-Ortiz, editor, *Proceedings of the 9th Latin American Symposium on Theoretical Informatics, LATIN'2010 (Oaxaca, Mexico, April 19-23, 2010, 2010)*, volume 6034 of *LNCS*, pages 208–221. Springer-Verlag, Berlin-Heidelberg, 2010.

- [193] Janusz Brzozowski, Galina Jirásková, and Chenglong Zou. Quotient complexity of closed languages. In Farid Ablayev and Ernst W. Mayr, editors, *Proceedings of the 5th International Computer Science Symposium in Russia on Computer Science — Theory and Applications, CSR'2010 (Kazan, Russia, June 16-20, 2010)*, volume 6072 of *LNCS*, pages 84–95. Springer-Verlag, Berlin-Heidelberg, 2010.
- [194] Nader H. Bshouty and Hanna Mazzawi. Toward a deterministic polynomial time algorithm with optimal additive query complexity. In Petr Hliněný and Antonín Kučera, editors, *Proceedings of the 35th International Symposium on Mathematical Foundations of Computer Science, MFCS'2010 (Brno, Czech Republic, August 23-27, 2010)*, volume 6281 of *LNCS*, pages 221–232. Springer-Verlag, Berlin-Heidelberg, 2010.
- [195] Niv Buchbinder, Kamal Jain, and Mohit Singh. Secretary problems via linear programming. In Friedrich Eisenbrand and F. Bruce Shepherd, editors, *Proceedings of the 14th International Conference on Integer Programming and Combinatorial Optimization, IPCO'2010 (Lausanne, Switzerland, June 9-11, 2010)*, volume 6080 of *LNCS*, pages 163–176. Springer-Verlag, Berlin-Heidelberg, 2010.
- [196] Christoph Buchheim, Alberto Caprara, and Andrea Lodi. An effective branch-and-bound algorithm for convex quadratic integer programming. In Friedrich Eisenbrand and F. Bruce Shepherd, editors, *Proceedings of the 14th International Conference on Integer Programming and Combinatorial Optimization, IPCO'2010 (Lausanne, Switzerland, June 9-11, 2010)*, volume 6080 of *LNCS*, pages 285–298. Springer-Verlag, Berlin-Heidelberg, 2010.
- [197] Kevin Buchin, Maike Buchin, and André Schulz. Fréchet distance of surfaces: Some simple hard cases. In Mark de Berg and Ulrich Meyer, editors, *Proceedings of the 18th Annual European Symposium on Algorithms, ESA'2010, Part II (Liverpool, UK, September 6-8, 2010)*, volume 6347 of *LNCS*, pages 63–74. Springer-Verlag, Berlin-Heidelberg, 2010.
- [198] Kevin Buchin, Maike Buchin, Marc van Kreveld, Maarten Löffler, Rodrigo I. Silveira, Carola Wenk, and Lionov Wiratma. Median trajectories. In Mark de Berg and Ulrich Meyer, editors, *Proceedings of the*

18th Annual European Symposium on Algorithms, ESA'2010, Part I (Liverpool, UK, September 6-8, 2010), volume 6346 of *LNCS*, pages 463–474. Springer-Verlag, Berlin-Heidelberg, 2010.

- [199] Kevin Buchin and André Schulz. On the number of spanning trees a planar graph can have. In Mark de Berg and Ulrich Meyer, editors, *Proceedings of the 18th Annual European Symposium on Algorithms, ESA'2010, Part I (Liverpool, UK, September 6-8, 2010)*, volume 6346 of *LNCS*, pages 110–121. Springer-Verlag, Berlin-Heidelberg, 2010.
- [200] Kevin Buchin, Marc van Kreveld, Henk Meijer, Bettina Speckmann, and Kevin Verbeek. On planar supports for hypergraphs. In David Eppstein and Emden R. Gansner, editors, *Proceedings of the 17th International Symposium on Graph Drawing, GD'2009 (Chicago, Illinois, USA, September 22-25, 2009)*, volume 5849 of *LNCS*, pages 345–356. Springer-Verlag, Berlin-Heidelberg, 2010.
- [201] Didier Buchs, Steve Hostettler, Alexis Marechal, and Matteo Risoldi. Alpina: A symbolic model checker. In Johan Lilius and Wojciech Penczek, editors, *Proceedings of the 31st International Conference on Applications and Theory of Petri Nets, PETRI NETS'2010 (Braga, Portugal, 21-25, 2010)*, volume 6128 of *LNCS*, pages 287–296. Springer-Verlag, Berlin-Heidelberg, 2010.
- [202] David P. Bunde and Michael H. Goldwasser. Dispatching equal-length jobs to parallel machines to maximize throughput. In Haim Kaplan, editor, *Proceedings of the 12th Scandinavian Symposium and Workshops on Algorithm Theory, SWAT'2010 (Bergen, Norway, June 21-23, 2010)*, volume 6139 of *LNCS*, pages 346–358. Springer-Verlag, Berlin-Heidelberg, 2010.
- [203] Paul Bunn and Rafail Ostrovsky. Asynchronous throughput-optimal routing in malicious networks. In Samson Abramsky, Cyril Gavoille, Claude Kirchner, Friedhelm Meyer auf der Heide, and Paul G. Spirakis, editors, *Proceedings of the 37th International Colloquium on Automata, Languages and Programming, ICALP'2010, Part II (Bordeaux, France, July 6-10, 2010)*, volume 6199 of *LNCS*, pages 236–248. Springer-Verlag, Berlin-Heidelberg, 2010.

- [204] Oleksiy Busaryev, Tamal K. Dey, and Yusu Wang. Tracking a generator by persistence. In My T. Thai and Sartaj Sahni, editors, *Proceedings of the 16th Annual International Conference on Computing and Combinatorics, COCOON'2010 (Nha Trang, Vietnam, July 19-21, 2010)*, volume 6196 of *LNCS*, pages 278–287. Springer-Verlag, Berlin-Heidelberg, 2010.
- [205] Christina Büsing and Jens Maue. Robust algorithms for sorting railway cars. In Mark de Berg and Ulrich Meyer, editors, *Proceedings of the 18th Annual European Symposium on Algorithms, ESA'2010, Part I (Liverpool, UK, September 6-8, 2010)*, volume 6346 of *LNCS*, pages 350–361. Springer-Verlag, Berlin-Heidelberg, 2010.
- [206] Paula Bustillo and Jaime Gutierrez. On multivariate homogeneous polynomial decomposition. In Vladimir P. Gerdt, Wolfram Koepf, Ernst W. Mayr, and Evgenii V. Vorozhtsov, editors, *Proceedings of the 12th International Workshop on Computer Algebra in Scientific Computing, CASC'2010 (Tsakhkadzor, Armenia, September 6-12, 2010)*, volume 6244 of *LNCS*, pages 55–60. Springer-Verlag, Berlin-Heidelberg, 2010.
- [207] Jaroslaw Byrka, Andreas Karrenbauer, and Laura Sanit  . The interval constrained 3-coloring problem. In Alejandro L  pez-Ortiz, editor, *Proceedings of the 9th Latin American Symposium on Theoretical Informatics, LATIN'2010 (Oaxaca, Mexico, April 19-23, 2010, 2010)*, volume 6034 of *LNCS*, pages 591–602. Springer-Verlag, Berlin-Heidelberg, 2010.
- [208] Jaroslaw Byrka, Aravind Srinivasan, and Chaitanya Swamy. Fault-tolerant facility location: A randomized dependent lp-rounding algorithm. In Friedrich Eisenbrand and F. Bruce Shepherd, editors, *Proceedings of the 14th International Conference on Integer Programming and Combinatorial Optimization, IPCO'2010 (Lausanne, Switzerland, June 9-11, 2010)*, volume 6080 of *LNCS*, pages 244–257. Springer-Verlag, Berlin-Heidelberg, 2010.
- [209] Sergio Cabello, Marc van Kreveld, Giuseppe Liotta, Henk Meijer, Bettina Speckmann, and Kevin Verbeek. Geometric simultaneous embeddings of a graph and a matching. In David Eppstein and Emden R.

Gansner, editors, *Proceedings of the 17th International Symposium on Graph Drawing, GD'2009 (Chicago, Illinois, USA, September 22-25, 2009)*, volume 5849 of *LNCS*, pages 183–194. Springer-Verlag, Berlin-Heidelberg, 2010.

- [210] Jin-Yi Cai, Xi Chen, and Pinyan Lu. Graph homomorphisms with complex values: A dichotomy theorem. In Samson Abramsky, Cyril Gavoille, Claude Kirchner, Friedhelm Meyer auf der Heide, and Paul G. Spirakis, editors, *Proceedings of the 37th International Colloquium on Automata, Languages and Programming, ICALP'2010, Part I (Bordeaux, France, July 6-10, 2010)*, volume 6198 of *LNCS*, pages 275–286. Springer-Verlag, Berlin-Heidelberg, 2010.
- [211] Jin-Yi Cai, Sangxia Huang, and Pinyan Lu. From holant to #csp and back: Dichotomy for holant^c problems. In Otfried Cheong, Kyung-Yong Chwa, and Kunsoo Park, editors, *Proceedings of the 21st International Symposium on Algorithms and Computation, ISAAC'2010, Part I (Jeju Island, Korea, December 15-17, 2010)*, volume 6506 of *LNCS*, pages 253–265. Springer-Verlag, Berlin-Heidelberg, 2010.
- [212] Leizhen Cai and Boting Yang. Parameterized complexity of even/odd subgraph problems. In Tiziana Calamoneri and Josep Diaz, editors, *Proceedings of the 7th International Conference on Algorithms and Complexity, CIAC'2010 (Rome, Italy, May 26-28, 2010)*, volume 6078 of *LNCS*, pages 85–96. Springer-Verlag, Berlin-Heidelberg, 2010.
- [213] Gruia Călinescu, Cristina G. Fernandes, and Hemanshu Kaul. Maximum series-parallel subgraph. In Christophe Paul and Michel Habib, editors, *Proceedings of the 35th International Workshop on Graph-Theoretic Concepts in Computer Science, WG'2009 (Montpellier, France, June 24-26, 2009)*, volume 5911 of *LNCS*, pages 54–65. Springer-Verlag, Berlin-Heidelberg, 2010.
- [214] Domenico Cantone, Simone Faro, and Emanuele Giaquinta. A compact representation of nondeterministic (suffix) automata for the bit-parallel approach. In Amihood Amir and Laxmi Parida, editors, *Proceedings of the 21st Annual Symposium on Combinatorial Pattern Matching, CPM'2010 (New York, NY, USA, June 21-23, 2010)*, volume 6129 of *LNCS*, pages 288–298. Springer-Verlag, Berlin-Heidelberg, 2010.

- [215] Stefan Canzar, Khaled Elbassioni, Amr Elmasry, and Rajiv Raman. On the approximability of the maximum interval constrained coloring problem. In Otfried Cheong, Kyung-Yong Chwa, and Kunsoo Park, editors, *Proceedings of the 21st International Symposium on Algorithms and Computation, ISAAC'2010, Part II (Jeju Island, Korea, December 15-17, 2010)*, volume 6507 of *LNCS*, pages 168–179. Springer-Verlag, Berlin-Heidelberg, 2010.
- [216] Yixin Cao, Jianer Chen, and Yang Liu. On feedback vertex set new measure and new structures. In Haim Kaplan, editor, *Proceedings of the 12th Scandinavian Symposium and Workshops on Algorithm Theory, SWAT'2010 (Bergen, Norway, June 21-23, 2010)*, volume 6139 of *LNCS*, pages 93–104. Springer-Verlag, Berlin-Heidelberg, 2010.
- [217] Paz Carmi and Michiel Smid. An optimal algorithm for computing angle-constrained spanners. In Otfried Cheong, Kyung-Yong Chwa, and Kunsoo Park, editors, *Proceedings of the 21st International Symposium on Algorithms and Computation, ISAAC'2010, Part I (Jeju Island, Korea, December 15-17, 2010)*, volume 6506 of *LNCS*, pages 316–327. Springer-Verlag, Berlin-Heidelberg, 2010.
- [218] Alberto Carraro, Thomas Ehrhard, and Antonino Salibra. Resource combinatory algebras. In Petr Hliněný and Antonín Kučera, editors, *Proceedings of the 35th International Symposium on Mathematical Foundations of Computer Science, MFCS'2010 (Brno, Czech Republic, August 23-27, 2010)*, volume 6281 of *LNCS*, pages 233–245. Springer-Verlag, Berlin-Heidelberg, 2010.
- [219] Olivier Carton. Right-sequential functions on infinite words. In Farid Ablayev and Ernst W. Mayr, editors, *Proceedings of the 5th International Computer Science Symposium in Russia on Computer Science — Theory and Applications, CSR'2010 (Kazan, Russia, June 16-20, 2010)*, volume 6072 of *LNCS*, pages 96–106. Springer-Verlag, Berlin-Heidelberg, 2010.
- [220] Manuel Ceballos, Juan Núñez, and Ángel F. Tenorio. Computing matrix representations of filiform lie algebras. In Vladimir P. Gerdt, Wolfram Koepf, Ernst W. Mayr, and Evgenii V. Vorozhtsov, editors, *Proceedings of the 12th International Workshop on Computer Algebra*

in Scientific Computing, CASC'2010 (Tsakhkadzor, Armenia, September 6-12, 2010), volume 6244 of *LNCS*, pages 61–72. Springer-Verlag, Berlin-Heidelberg, 2010.

- [221] Deeparnab Chakrabarty, Elyot Grant, and Jochen Könemann. On column-restricted and priority covering integer programs. In Friedrich Eisenbrand and F. Bruce Shepherd, editors, *Proceedings of the 14th International Conference on Integer Programming and Combinatorial Optimization, IPCO'2010 (Lausanne, Switzerland, June 9-11, 2010)*, volume 6080 of *LNCS*, pages 355–368. Springer-Verlag, Berlin-Heidelberg, 2010.
- [222] Deeparnab Chakrabarty, Jochen Könemann, and David Pritchard. Hypergraphic lp relaxations for steiner trees. In Friedrich Eisenbrand and F. Bruce Shepherd, editors, *Proceedings of the 14th International Conference on Integer Programming and Combinatorial Optimization, IPCO'2010 (Lausanne, Switzerland, June 9-11, 2010)*, volume 6080 of *LNCS*, pages 383–396. Springer-Verlag, Berlin-Heidelberg, 2010.
- [223] Jérémie Chalopin and Shantanu Das. Rendezvous of mobile agents without agreement on local orientation. In Samson Abramsky, Cyril Gavoille, Claude Kirchner, Friedhelm Meyer auf der Heide, and Paul G. Spirakis, editors, *Proceedings of the 37th International Colloquium on Automata, Languages and Programming, ICALP'2010, Part II (Bordeaux, France, July 6-10, 2010)*, volume 6199 of *LNCS*, pages 515–526. Springer-Verlag, Berlin-Heidelberg, 2010.
- [224] Jérémie Chalopin, Shantanu Das, Yann Disser, Matúš Mihalák, and Peter Widmayer. How simple robots benefit from looking back. In Tiziana Calamoneri and Josep Diaz, editors, *Proceedings of the 7th International Conference on Algorithms and Complexity, CIAC'2010 (Rome, Italy, May 26-28, 2010)*, volume 6078 of *LNCS*, pages 229–239. Springer-Verlag, Berlin-Heidelberg, 2010.
- [225] Jérémie Chalopin, Paola Flocchini, Bernard Mans, and Nicola Santoro. Network exploration by silent and oblivious robots. In Dimitrios M. Thilikos, editor, *Proceedings of the 36th International Workshop on Graph-Theoretic Concepts in Computer Science, WG'2010 (Zarós, Crete, Greece, June 28-30, 2010)*, volume 6410 of *LNCS*, pages 208–219. Springer-Verlag, Berlin-Heidelberg, 2010.

- [226] Jérémie Chalopin and Daniël Paulusma. Packing bipartite graphs with covers of complete bipartite graphs. In Tiziana Calamoneri and Josep Diaz, editors, *Proceedings of the 7th International Conference on Algorithms and Complexity, CIAC'2010 (Rome, Italy, May 26-28, 2010)*, volume 6078 of *LNCS*, pages 276–287. Springer-Verlag, Berlin-Heidelberg, 2010.
- [227] Pierre Chambart and Philippe Schnoebelen. Pumping and counting on the regular post embedding problem. In Samson Abramsky, Cyril Gavoille, Claude Kirchner, Friedhelm Meyer auf der Heide, and Paul G. Spirakis, editors, *Proceedings of the 37th International Colloquium on Automata, Languages and Programming, ICALP'2010, Part II (Bordeaux, France, July 6-10, 2010)*, volume 6199 of *LNCS*, pages 64–75. Springer-Verlag, Berlin-Heidelberg, 2010.
- [228] Erin Chambers and David Eppstein. Flows in one-crossing-minor-free graphs. In Otfried Cheong, Kyung-Yong Chwa, and Kunsoo Park, editors, *Proceedings of the 21st International Symposium on Algorithms and Computation, ISAAC'2010, Part I (Jeju Island, Korea, December 15-17, 2010)*, volume 6506 of *LNCS*, pages 241–252. Springer-Verlag, Berlin-Heidelberg, 2010.
- [229] Erin Chambers, Alejandro Erickson, Sándor Fekete, Jonathan Lenchner, Jeff Sember, Srinivasan Venkatesh, Ulrike Stege, Svetlana Stolpner, Christoph Weibel, and Sue Whitesides. Connectivity graphs of uncertainty regions. In Otfried Cheong, Kyung-Yong Chwa, and Kunsoo Park, editors, *Proceedings of the 21st International Symposium on Algorithms and Computation, ISAAC'2010, Part II (Jeju Island, Korea, December 15-17, 2010)*, volume 6507 of *LNCS*, pages 434–445. Springer-Verlag, Berlin-Heidelberg, 2010.
- [230] Sze-Hang Chan, Tak-Wah Lam, and Lap-Kei Lee. Non-clairvoyant speed scaling for weighted flow time. In Mark de Berg and Ulrich Meyer, editors, *Proceedings of the 18th Annual European Symposium on Algorithms, ESA'2010, Part I (Liverpool, UK, September 6-8, 2010)*, volume 6346 of *LNCS*, pages 23–35. Springer-Verlag, Berlin-Heidelberg, 2010.
- [231] T.-H. Hubert Chan, Elaine Shi, and Dawn Song. Private and continual release of statistics. In Samson Abramsky, Cyril Gavoille, Claude

- Kirchner, Friedhelm Meyer auf der Heide, and Paul G. Spirakis, editors, *Proceedings of the 37th International Colloquium on Automata, Languages and Programming, ICALP'2010, Part II (Bordeaux, France, July 6-10, 2010)*, volume 6199 of *LNCS*, pages 405–417. Springer-Verlag, Berlin-Heidelberg, 2010.
- [232] Nishanth Chandran, Juan Garay, and Rafail Ostrovsky. Improved fault tolerance and secure computation on sparse networks. In Samson Abramsky, Cyril Gavoille, Claude Kirchner, Friedhelm Meyer auf der Heide, and Paul G. Spirakis, editors, *Proceedings of the 37th International Colloquium on Automata, Languages and Programming, ICALP'2010, Part II (Bordeaux, France, July 6-10, 2010)*, volume 6199 of *LNCS*, pages 249–260. Springer-Verlag, Berlin-Heidelberg, 2010.
 - [233] Ching-Lueh Chang and Yuh-Dauh Lyuu. Bounding the number of tolerable faults in majority-based systems. In Tiziana Calamoneri and Josep Diaz, editors, *Proceedings of the 7th International Conference on Algorithms and Complexity, CIAC'2010 (Rome, Italy, May 26-28, 2010)*, volume 6078 of *LNCS*, pages 109–119. Springer-Verlag, Berlin-Heidelberg, 2010.
 - [234] Steven Chaplick, Marisa Gutierrez, Benjamin Lévéque, and Silvia B. Tondato. From path graphs to directed path graphs. In Dimitrios M. Thilikos, editor, *Proceedings of the 36th International Workshop on Graph-Theoretic Concepts in Computer Science, WG'2010 (Zarós, Crete, Greece, June 28-30, 2010)*, volume 6410 of *LNCS*, pages 256–265. Springer-Verlag, Berlin-Heidelberg, 2010.
 - [235] Thomas Chatain and Eric Fabre. Factorization properties of symbolic unfoldings of colored petri nets. In Johan Lilius and Wojciech Penczek, editors, *Proceedings of the 31st International Conference on Applications and Theory of Petri Nets, PETRI NETS'2010 (Braga, Portugal, 21-25, 2010)*, volume 6128 of *LNCS*, pages 165–184. Springer-Verlag, Berlin-Heidelberg, 2010.
 - [236] Krishnendu Chatterjee and Laurent Doyen. Energy parity games. In Samson Abramsky, Cyril Gavoille, Claude Kirchner, Friedhelm Meyer auf der Heide, and Paul G. Spirakis, editors, *Proceedings of the 37th International Colloquium on Automata, Languages and Programming*,

ICALP'2010, Part II (Bordeaux, France, July 6-10, 2010), volume 6199 of *LNCS*, pages 599–610. Springer-Verlag, Berlin-Heidelberg, 2010.

- [237] Krishnendu Chatterjee, Laurent Doyen, Hugo Gimbert, and Thomas A. Henzinger. Randomness for free. In Petr Hliněný and Antonín Kučera, editors, *Proceedings of the 35th International Symposium on Mathematical Foundations of Computer Science, MFCS'2010 (Brno, Czech Republic, August 23-27, 2010)*, volume 6281 of *LNCS*, pages 246–257. Springer-Verlag, Berlin-Heidelberg, 2010.
- [238] Krishnendu Chatterjee, Laurent Doyen, and Thomas A. Henzinger. Qualitative analysis of partially-observable markov decision processes. In Petr Hliněný and Antonín Kučera, editors, *Proceedings of the 35th International Symposium on Mathematical Foundations of Computer Science, MFCS'2010 (Brno, Czech Republic, August 23-27, 2010)*, volume 6281 of *LNCS*, pages 258–269. Springer-Verlag, Berlin-Heidelberg, 2010.
- [239] Ioannis Chatzigiannakis, Othon Michail, Stavros Nikolaou, Andreas Pavlogiannis, and Paul G. Spirakis. All symmetric predicates in $n\text{space}(n^2)$ are stably computable by the mediated population protocol model. In Petr Hliněný and Antonín Kučera, editors, *Proceedings of the 35th International Symposium on Mathematical Foundations of Computer Science, MFCS'2010 (Brno, Czech Republic, August 23-27, 2010)*, volume 6281 of *LNCS*, pages 270–281. Springer-Verlag, Berlin-Heidelberg, 2010.
- [240] Shiri Chechik, Yuval Emek, Boaz Patt-Shamir, and David Peleg. Sparse reliable graph backbones. In Samson Abramsky, Cyril Gavoille, Claude Kirchner, Friedhelm Meyer auf der Heide, and Paul G. Spirakis, editors, *Proceedings of the 37th International Colloquium on Automata, Languages and Programming, ICALP'2010, Part II (Bordeaux, France, July 6-10, 2010)*, volume 6199 of *LNCS*, pages 261–272. Springer-Verlag, Berlin-Heidelberg, 2010.
- [241] Shiri Chechik and David Peleg. Low-port tree representations. In Christophe Paul and Michel Habib, editors, *Proceedings of the 35th International Workshop on Graph-Theoretic Concepts in Computer Science, WG'2009 (Montpellier, France, June 24-26, 2009)*, volume 5911 of *LNCS*, pages 66–76. Springer-Verlag, Berlin-Heidelberg, 2010.

- [242] Shiri Chechnik, Michael Langberg, David Peleg, and Liam Roditty. f -sensitivity distance oracles and routing schemes. In Mark de Berg and Ulrich Meyer, editors, *Proceedings of the 18th Annual European Symposium on Algorithms, ESA'2010, Part I (Liverpool, UK, September 6-8, 2010)*, volume 6346 of *LNCS*, pages 84–96. Springer-Verlag, Berlin-Heidelberg, 2010.
- [243] Panagiotis Cheilaris and Géza Tóth. Graph unique-maximum and conflict-free colorings. In Tiziana Calamoneri and Josep Diaz, editors, *Proceedings of the 7th International Conference on Algorithms and Complexity, CIAC'2010 (Rome, Italy, May 26-28, 2010)*, volume 6078 of *LNCS*, pages 143–154. Springer-Verlag, Berlin-Heidelberg, 2010.
- [244] Danny Z. Chen, Chao Wang, and Haitao Wang. Representing a functional curve by curves with fewer peaks. In Haim Kaplan, editor, *Proceedings of the 12th Scandinavian Symposium and Workshops on Algorithm Theory, SWAT'2010 (Bergen, Norway, June 21-23, 2010)*, volume 6139 of *LNCS*, pages 200–211. Springer-Verlag, Berlin-Heidelberg, 2010.
- [245] Jianer Chen and Jie Meng. A $2k$ kernel for the cluster editing problem. In My T. Thai and Sartaj Sahni, editors, *Proceedings of the 16th Annual International Conference on Computing and Combinatorics, COCOON'2010 (Nha Trang, Vietnam, July 19-21, 2010)*, volume 6196 of *LNCS*, pages 459–468. Springer-Verlag, Berlin-Heidelberg, 2010.
- [246] Kuan-Yu Chen and Kun-Mao Chao. A fully compressed algorithm for computing the edit distance of run-length encoded strings. In Mark de Berg and Ulrich Meyer, editors, *Proceedings of the 18th Annual European Symposium on Algorithms, ESA'2010, Part I (Liverpool, UK, September 6-8, 2010)*, volume 6346 of *LNCS*, pages 415–426. Springer-Verlag, Berlin-Heidelberg, 2010.
- [247] Kuan-Yu Chen, Ping-Hui Hsu, and Kun-Mao Chao. Identifying approximate palindromes in run-length encoded strings. In Otfried Cheong, Kyung-Yong Chwa, and Kunsoo Park, editors, *Proceedings of the 21st International Symposium on Algorithms and Computation, ISAAC'2010, Part II (Jeju Island, Korea, December 15-17, 2010)*, volume 6507 of *LNCS*, pages 339–350. Springer-Verlag, Berlin-Heidelberg, 2010.

- [248] Ning Chen and Xiaotie Deng. Envy-free pricing in multi-item markets. In Samson Abramsky, Cyril Gavoille, Claude Kirchner, Friedhelm Meyer auf der Heide, and Paul G. Spirakis, editors, *Proceedings of the 37th International Colloquium on Automata, Languages and Programming, ICALP'2010, Part II (Bordeaux, France, July 6-10, 2010)*, volume 6199 of *LNCS*, pages 418–429. Springer-Verlag, Berlin-Heidelberg, 2010.
- [249] Ning Chen and Arpita Ghosh. Strongly stable assignment. In Mark de Berg and Ulrich Meyer, editors, *Proceedings of the 18th Annual European Symposium on Algorithms, ESA'2010, Part II (Liverpool, UK, September 6-8, 2010)*, volume 6347 of *LNCS*, pages 147–158. Springer-Verlag, Berlin-Heidelberg, 2010.
- [250] Xin Chen. On sorting permutations by double-cut-and-joins. In My T. Thai and Sartaj Sahni, editors, *Proceedings of the 16th Annual International Conference on Computing and Combinatorics, COCOON'2010 (Nha Trang, Vietnam, July 19-21, 2010)*, volume 6196 of *LNCS*, pages 439–448. Springer-Verlag, Berlin-Heidelberg, 2010.
- [251] Xue Chen, Guangda Hu, and Xiaoming Sun. The complexity of word circuits. In My T. Thai and Sartaj Sahni, editors, *Proceedings of the 16th Annual International Conference on Computing and Combinatorics, COCOON'2010 (Nha Trang, Vietnam, July 19-21, 2010)*, volume 6196 of *LNCS*, pages 308–317. Springer-Verlag, Berlin-Heidelberg, 2010.
- [252] Yijia Chen and Jörg Flum. On p -optimal proof systems and logics for ptime. In Samson Abramsky, Cyril Gavoille, Claude Kirchner, Friedhelm Meyer auf der Heide, and Paul G. Spirakis, editors, *Proceedings of the 37th International Colloquium on Automata, Languages and Programming, ICALP'2010, Part II (Bordeaux, France, July 6-10, 2010)*, volume 6199 of *LNCS*, pages 321–332. Springer-Verlag, Berlin-Heidelberg, 2010.
- [253] Zhi-Zhong Chen, Bin Ma, and Lusheng Wang. A three-string approach to the closest string problem. In My T. Thai and Sartaj Sahni, editors, *Proceedings of the 16th Annual International Conference on Computing and Combinatorics, COCOON'2010 (Nha Trang, Vietnam, July 19-21,*

- 2010)*, volume 6196 of *LNCS*, pages 449–458. Springer-Verlag, Berlin-Heidelberg, 2010.
- [254] Ho-Lun Cheng and Ke Yan. Mesh deformation of dynamic smooth manifolds with surface correspondences. In Petr Hliněný and Antonín Kučera, editors, *Proceedings of the 35th International Symposium on Mathematical Foundations of Computer Science, MFCS'2010 (Brno, Czech Republic, August 23-27, 2010)*, volume 6281 of *LNCS*, pages 677–688. Springer-Verlag, Berlin-Heidelberg, 2010.
 - [255] Qi Cheng and Yu-Hsin Li. Finding the smallest gap between sums of square roots. In Alejandro López-Ortiz, editor, *Proceedings of the 9th Latin American Symposium on Theoretical Informatics, LATIN'2010 (Oaxaca, Mexico, April 19-23, 2010, 2010)*, volume 6034 of *LNCS*, pages 446–455. Springer-Verlag, Berlin-Heidelberg, 2010.
 - [256] Siu-Wing Cheng, Jiongxin Jin, Antoine Vigneron, and Yajun Wang. Approximate shortest homotopic paths in weighted regions. In Otfried Cheong, Kyung-Yong Chwa, and Kunsoo Park, editors, *Proceedings of the 21st International Symposium on Algorithms and Computation, ISAAC'2010, Part II (Jeju Island, Korea, December 15-17, 2010)*, volume 6507 of *LNCS*, pages 109–120. Springer-Verlag, Berlin-Heidelberg, 2010.
 - [257] Siu-Wing Cheng, Christian Knauer, Stefan Langerman, and Michiel Smid. Approximating the average stretch factor of geometric graphs. In Otfried Cheong, Kyung-Yong Chwa, and Kunsoo Park, editors, *Proceedings of the 21st International Symposium on Algorithms and Computation, ISAAC'2010, Part I (Jeju Island, Korea, December 15-17, 2010)*, volume 6506 of *LNCS*, pages 37–48. Springer-Verlag, Berlin-Heidelberg, 2010.
 - [258] Mahdi Cheraghchi. Improved constructions for non-adaptive threshold group testing. In Samson Abramsky, Cyril Gavoille, Claude Kirchner, Friedhelm Meyer auf der Heide, and Paul G. Spirakis, editors, *Proceedings of the 37th International Colloquium on Automata, Languages and Programming, ICALP'2010, Part I (Bordeaux, France, July 6-10, 2010)*, volume 6198 of *LNCS*, pages 552–564. Springer-Verlag, Berlin-Heidelberg, 2010.

- [259] David W. Cheung, Nikos Mamoulis, W.K. Wong, S.M. Yiu, and Ye Zhang. Anonymous fuzzy identity-based encryption for similarity search. In Otfried Cheong, Kyung-Yong Chwa, and Kunsoo Park, editors, *Proceedings of the 21st International Symposium on Algorithms and Computation, ISAAC'2010, Part I (Jeju Island, Korea, December 15-17, 2010)*, volume 6506 of *LNCS*, pages 61–72. Springer-Verlag, Berlin-Heidelberg, 2010.
- [260] Markus Chimani, Carsten Gutwenger, Petra Mutzel, and Hoi-Ming Wong. Upward planarization layout. In David Eppstein and Emden R. Gansner, editors, *Proceedings of the 17th International Symposium on Graph Drawing, GD'2009 (Chicago, Illinois, USA, September 22-25, 2009)*, volume 5849 of *LNCS*, pages 94–106. Springer-Verlag, Berlin-Heidelberg, 2010.
- [261] Christine Choppy, Anna Dedova, Sami Evangelista, Silien Hong, Kais Klai, and Laure Petrucci. The neo protocol for large-scale distributed database systems: Modelling and initial verification. In Johan Lilium and Wojciech Penczek, editors, *Proceedings of the 31st International Conference on Applications and Theory of Petri Nets, PETRI NETS'2010 (Braga, Portugal, 21-25, 2010)*, volume 6128 of *LNCS*, pages 145–164. Springer-Verlag, Berlin-Heidelberg, 2010.
- [262] Jen-Hou Chou and Chi-Jen Lu. Communication requirements for stable marriages. In Tiziana Calamoneri and Josep Diaz, editors, *Proceedings of the 7th International Conference on Algorithms and Complexity, CIAC'2010 (Rome, Italy, May 26-28, 2010)*, volume 6078 of *LNCS*, pages 371–382. Springer-Verlag, Berlin-Heidelberg, 2010.
- [263] Sherman S.M. Chow, Changshe Ma, and Jian Weng. Zero-knowledge argument for simultaneous discrete logarithms. In My T. Thai and Sartaj Sahni, editors, *Proceedings of the 16th Annual International Conference on Computing and Combinatorics, COCOON'2010 (Nha Trang, Vietnam, July 19-21, 2010)*, volume 6196 of *LNCS*, pages 520–529. Springer-Verlag, Berlin-Heidelberg, 2010.
- [264] George Christodoulou, Katrina Ligett, and Evangelia Pyrga. Contention resolution under selfishness. In Samson Abramsky, Cyril Gavoille, Claude Kirchner, Friedhelm Meyer auf der Heide, and Paul G.

- Spirakis, editors, *Proceedings of the 37th International Colloquium on Automata, Languages and Programming, ICALP'2010, Part II (Bordeaux, France, July 6-10, 2010)*, volume 6199 of *LNCS*, pages 430–441. Springer-Verlag, Berlin-Heidelberg, 2010.
- [265] Marek Chrobak, Christoph Dürr, Flavio Guiñez, Antoni Lozano, and Nguyen Kim Thang. Tile-packing tomography is *NP*-hard. In My T. Thai and Sartaj Sahni, editors, *Proceedings of the 16th Annual International Conference on Computing and Combinatorics, COCOON'2010 (Nha Trang, Vietnam, July 19-21, 2010)*, volume 6196 of *LNCS*, pages 254–263. Springer-Verlag, Berlin-Heidelberg, 2010.
 - [266] Marek Chrobak, Gerhard J. Woeginger, Kazuhisa Makino, and Haifeng Xu. Caching is hard — even in the fault model. In Mark de Berg and Ulrich Meyer, editors, *Proceedings of the 18th Annual European Symposium on Algorithms, ESA'2010, Part I (Liverpool, UK, September 6-8, 2010)*, volume 6346 of *LNCS*, pages 195–206. Springer-Verlag, Berlin-Heidelberg, 2010.
 - [267] Christine Chung, Katrina Ligett, Kirk Pruhs, and Aaron L. Roth. The power of fair pricing mechanisms. In Alejandro López-Ortiz, editor, *Proceedings of the 9th Latin American Symposium on Theoretical Informatics, LATIN'2010 (Oaxaca, Mexico, April 19-23, 2010)*, volume 6034 of *LNCS*, pages 554–564. Springer-Verlag, Berlin-Heidelberg, 2010.
 - [268] Josef Cibulka, Jan Kynčl, Viola Mészáros, Rudolf Stolař, and Pavel Valtr. On three parameters of invisibility graphs. In My T. Thai and Sartaj Sahni, editors, *Proceedings of the 16th Annual International Conference on Computing and Combinatorics, COCOON'2010 (Nha Trang, Vietnam, July 19-21, 2010)*, volume 6196 of *LNCS*, pages 192–198. Springer-Verlag, Berlin-Heidelberg, 2010.
 - [269] Ferdinando Cicalese, Tobias Jacobs, Eduardo Laber, and Marco Molinaro. On greedy algorithms for decision trees. In Otfried Cheong, Kyung-Yong Chwa, and Kunsoo Park, editors, *Proceedings of the 21st International Symposium on Algorithms and Computation, ISAAC'2010, Part II (Jeju Island, Korea, December 15-17, 2010)*, volume 6507 of *LNCS*, pages 206–217. Springer-Verlag, Berlin-Heidelberg, 2010.

- [270] Ferdinando Cicalese and Ugo Vaccaro. Superselectors: Efficient constructions and applications. In Mark de Berg and Ulrich Meyer, editors, *Proceedings of the 18th Annual European Symposium on Algorithms, ESA'2010, Part I (Liverpool, UK, September 6-8, 2010)*, volume 6346 of *LNCS*, pages 207–218. Springer-Verlag, Berlin-Heidelberg, 2010.
- [271] Andrea E.F. Clementi, Angelo Monti, and Riccardo Silvestri. Modelling mobility: A discrete revolution. In Samson Abramsky, Cyril Gavoille, Claude Kirchner, Friedhelm Meyer auf der Heide, and Paul G. Spirakis, editors, *Proceedings of the 37th International Colloquium on Automata, Languages and Programming, ICALP'2010, Part II (Bordeaux, France, July 6-10, 2010)*, volume 6199 of *LNCS*, pages 490–501. Springer-Verlag, Berlin-Heidelberg, 2010.
- [272] Raphaël Clifford and Benjamin Sach. Pseudo-realtime pattern matching: Closing the gap. In Amihood Amir and Laxmi Parida, editors, *Proceedings of the 21st Annual Symposium on Combinatorial Pattern Matching, CPM'2010 (New York, NY, USA, June 21-23, 2010)*, volume 6129 of *LNCS*, pages 101–111. Springer-Verlag, Berlin-Heidelberg, 2010.
- [273] Bob Coecke and Aleks Kissinger. The compositional structure of multipartite quantum entanglement. In Samson Abramsky, Cyril Gavoille, Claude Kirchner, Friedhelm Meyer auf der Heide, and Paul G. Spirakis, editors, *Proceedings of the 37th International Colloquium on Automata, Languages and Programming, ICALP'2010, Part II (Bordeaux, France, July 6-10, 2010)*, volume 6199 of *LNCS*, pages 297–308. Springer-Verlag, Berlin-Heidelberg, 2010.
- [274] Hagai Cohen and Ely Porat. Fast set intersection and two-patterns matching. In Alejandro López-Ortiz, editor, *Proceedings of the 9th Latin American Symposium on Theoretical Informatics, LATIN'2010 (Oaxaca, Mexico, April 19-23, 2010, 2010)*, volume 6034 of *LNCS*, pages 234–242. Springer-Verlag, Berlin-Heidelberg, 2010.
- [275] Thomas Colcombet, Denis Kuperberg, and Sylvain Lombardy. Regular temporal cost functions. In Samson Abramsky, Cyril Gavoille, Claude Kirchner, Friedhelm Meyer auf der Heide, and Paul G. Spirakis, editors, *Proceedings of the 37th International Colloquium on*

Automata, Languages and Programming, ICALP'2010, Part II (Bordeaux, France, July 6-10, 2010), volume 6199 of *LNCS*, pages 563–574. Springer-Verlag, Berlin-Heidelberg, 2010.

- [276] Richard Cole and Vijaya Ramachandran. Resource oblivious sorting on multicores. In Samson Abramsky, Cyril Gavoille, Claude Kirchner, Friedhelm Meyer auf der Heide, and Paul G. Spirakis, editors, *Proceedings of the 37th International Colloquium on Automata, Languages and Programming, ICALP'2010, Part I (Bordeaux, France, July 6-10, 2010)*, volume 6198 of *LNCS*, pages 226–237. Springer-Verlag, Berlin-Heidelberg, 2010.
- [277] Éric Colin de Verdière. Shortest cut graph of a surface with prescribed vertex set. In Mark de Berg and Ulrich Meyer, editors, *Proceedings of the 18th Annual European Symposium on Algorithms, ESA'2010, Part II (Liverpool, UK, September 6-8, 2010)*, volume 6347 of *LNCS*, pages 100–111. Springer-Verlag, Berlin-Heidelberg, 2010.
- [278] Andrew Collins, Jurek Czyzowicz, Leszek Gąsieniec, and Arnaud Labourel. Tell me where i am so i can meet you sooner — (asynchronous rendezvous with location information). In Samson Abramsky, Cyril Gavoille, Claude Kirchner, Friedhelm Meyer auf der Heide, and Paul G. Spirakis, editors, *Proceedings of the 37th International Colloquium on Automata, Languages and Programming, ICALP'2010, Part II (Bordeaux, France, July 6-10, 2010)*, volume 6199 of *LNCS*, pages 502–514. Springer-Verlag, Berlin-Heidelberg, 2010.
- [279] Graham Cormode, Michael Mitzenmacher, and Justin Thaler. Streaming graph computations with a helpful advisor. In Mark de Berg and Ulrich Meyer, editors, *Proceedings of the 18th Annual European Symposium on Algorithms, ESA'2010, Part I (Liverpool, UK, September 6-8, 2010)*, volume 6346 of *LNCS*, pages 231–242. Springer-Verlag, Berlin-Heidelberg, 2010.
- [280] Michael D. Coury, Pavol Hell, Jan Kratochvíl, and Tomáš Vyskočil. Faithful representations of graphs by islands in the extended grid. In Alejandro López-Ortiz, editor, *Proceedings of the 9th Latin American Symposium on Theoretical Informatics, LATIN'2010 (Oaxaca, Mexico, April 19-23, 2010, 2010)*, volume 6034 of *LNCS*, pages 131–142. Springer-Verlag, Berlin-Heidelberg, 2010.

- [281] Pierluigi Crescenzi, Roberto Grossi, Claudio Imbrenda, Leonardo Lanzi, and Andrea Marino. Finding the diameter in real-world graphs: Experimentally turning a lower bound into an upper bound. In Mark de Berg and Ulrich Meyer, editors, *Proceedings of the 18th Annual European Symposium on Algorithms, ESA'2010, Part I (Liverpool, UK, September 6-8, 2010)*, volume 6346 of *LNCS*, pages 302–313. Springer-Verlag, Berlin-Heidelberg, 2010.
- [282] Christophe Crespelle. Fully dynamic representations of interval graphs. In Christophe Paul and Michel Habib, editors, *Proceedings of the 35th International Workshop on Graph-Theoretic Concepts in Computer Science, WG'2009 (Montpellier, France, June 24-26, 2009)*, volume 5911 of *LNCS*, pages 77–87. Springer-Verlag, Berlin-Heidelberg, 2010.
- [283] Maxime Crochemore, Marek Cygan, Costas Iliopoulos, Marcin Kubica, Jakub Radoszewski, Wojciech Rytter, and Tomasz Waleń. Algorithms for three versions of the shortest common superstring problem. In Amihood Amir and Laxmi Parida, editors, *Proceedings of the 21st Annual Symposium on Combinatorial Pattern Matching, CPM'2010 (New York, NY, USA, June 21-23, 2010)*, volume 6129 of *LNCS*, pages 299–309. Springer-Verlag, Berlin-Heidelberg, 2010.
- [284] Maxime Crochemore, Costas S. Iliopoulos, Solon P. Pissis, and German Tischler. Cover array string reconstruction. In Amihood Amir and Laxmi Parida, editors, *Proceedings of the 21st Annual Symposium on Combinatorial Pattern Matching, CPM'2010 (New York, NY, USA, June 21-23, 2010)*, volume 6129 of *LNCS*, pages 251–259. Springer-Verlag, Berlin-Heidelberg, 2010.
- [285] Robert Crowston, Gregory Gutin, Mark Jones, Eun Jung Kim, and Imre Z. Ruzsa. Systems of linear equations over F_2 and problems parameterized above average. In Haim Kaplan, editor, *Proceedings of the 12th Scandinavian Symposium and Workshops on Algorithm Theory, SWAT'2010 (Bergen, Norway, June 21-23, 2010)*, volume 6139 of *LNCS*, pages 164–175. Springer-Verlag, Berlin-Heidelberg, 2010.
- [286] János Csirik, Leah Epstein, Csanád Imreh, and Asaf Levin. Online clustering with variable sized clusters. In Petr Hliněný and Antonín Kučera, editors, *Proceedings of the 35th International Symposium on*

Mathematical Foundations of Computer Science, MFCS'2010 (Brno, Czech Republic, August 23-27, 2010), volume 6281 of *LNCS*, pages 282–293. Springer-Verlag, Berlin-Heidelberg, 2010.

- [287] Miklós Csűrös. Approximate counting with a floating-point counter. In My T. Thai and Sartaj Sahni, editors, *Proceedings of the 16th Annual International Conference on Computing and Combinatorics, COCOON'2010 (Nha Trang, Vietnam, July 19-21, 2010)*, volume 6196 of *LNCS*, pages 358–367. Springer-Verlag, Berlin-Heidelberg, 2010.
- [288] J. Shane Culpepper, Gonzalo Navarro, Simon J. Puglisi, and Andrew Turpin. Top- k ranked document search in general text databases. In Mark de Berg and Ulrich Meyer, editors, *Proceedings of the 18th Annual European Symposium on Algorithms, ESA'2010, Part II (Liverpool, UK, September 6-8, 2010)*, volume 6347 of *LNCS*, pages 194–205. Springer-Verlag, Berlin-Heidelberg, 2010.
- [289] Marek Cygan, Łukasz Kowalik, and Borut Lužar. A planar linear arboricity conjecture. In Tiziana Calamoneri and Josep Diaz, editors, *Proceedings of the 7th International Conference on Algorithms and Complexity, CIAC'2010 (Rome, Italy, May 26-28, 2010)*, volume 6078 of *LNCS*, pages 204–216. Springer-Verlag, Berlin-Heidelberg, 2010.
- [290] Marek Cygan, Łukasz Kowalik, Marcin Mucha, Marcin Pilipczuk, and Piotr Sankowski. Fast approximation in subspaces by doubling metric decomposition. In Mark de Berg and Ulrich Meyer, editors, *Proceedings of the 18th Annual European Symposium on Algorithms, ESA'2010, Part I (Liverpool, UK, September 6-8, 2010)*, volume 6346 of *LNCS*, pages 72–83. Springer-Verlag, Berlin-Heidelberg, 2010.
- [291] Marek Cygan, Marcin Pilipczuk, Michał Pilipczuk, and Jakub Onufry Wojtaszczyk. Kernelization hardness of connectivity problems in d -degenerate graphs. In Dimitrios M. Thilikos, editor, *Proceedings of the 36th International Workshop on Graph-Theoretic Concepts in Computer Science, WG'2010 (Zarós, Crete, Greece, June 28-30, 2010)*, volume 6410 of *LNCS*, pages 147–158. Springer-Verlag, Berlin-Heidelberg, 2010.
- [292] Marek Cygan, Marcin Pilipczuk, and Jakub Onufry Wojtaszczyk. Capacitated domination faster than $o(2^n)$. In Haim Kaplan, editor, *Pro-*

ceedings of the 12th Scandinavian Symposium and Workshops on Algorithm Theory, SWAT'2010 (Bergen, Norway, June 21-23, 2010), volume 6139 of *LNCS*, pages 74–80. Springer-Verlag, Berlin-Heidelberg, 2010.

- [293] Marek Cygan, Marcin Pilipczuk, and Jakub Onufry Wojtaszczyk. Irredundant set faster than $o(2^n)$. In Tiziana Calamoneri and Josep Diaz, editors, *Proceedings of the 7th International Conference on Algorithms and Complexity, CIAC'2010 (Rome, Italy, May 26-28, 2010)*, volume 6078 of *LNCS*, pages 288–298. Springer-Verlag, Berlin-Heidelberg, 2010.
- [294] Artur Czumaj. Local graph exploration and fast property testing. In Mark de Berg and Ulrich Meyer, editors, *Proceedings of the 18th Annual European Symposium on Algorithms, ESA'2010, Part I (Liverpool, UK, September 6-8, 2010)*, volume 6346 of *LNCS*, pages 410–414. Springer-Verlag, Berlin-Heidelberg, 2010.
- [295] Jurek Czyzowicz, David Ilcinkas, Arnaud Labourel, and Andrzej Pelc. Optimal exploration of terrains with obstacles. In Haim Kaplan, editor, *Proceedings of the 12th Scandinavian Symposium and Workshops on Algorithm Theory, SWAT'2010 (Bergen, Norway, June 21-23, 2010)*, volume 6139 of *LNCS*, pages 1–12. Springer-Verlag, Berlin-Heidelberg, 2010.
- [296] Jurek Czyzowicz, Adrian Kosowski, and Andrzej Pelc. Deterministic rendezvous of asynchronous bounded-memory agents in polygonal terrains. In Petr Hliněný and Antonín Kučera, editors, *Proceedings of the 35th International Symposium on Mathematical Foundations of Computer Science, MFCS'2010 (Brno, Czech Republic, August 23-27, 2010)*, volume 6281 of *LNCS*, pages 294–305. Springer-Verlag, Berlin-Heidelberg, 2010.
- [297] Konrad Dabrowski, Vadim Lozin, Rajiv Raman, and Bernard Ries. Colouring vertices of triangle-free graphs. In Dimitrios M. Thilikos, editor, *Proceedings of the 36th International Workshop on Graph-Theoretic Concepts in Computer Science, WG'2010 (Zarós, Crete, Greece, June 28-30, 2010)*, volume 6410 of *LNCS*, pages 184–195. Springer-Verlag, Berlin-Heidelberg, 2010.

- [298] Henri Darmon. Putting the hodge and tate conjectures to the test. In Guillaume Hanrot, François Morain, and Emmanuel Thomé, editors, *Proceedings of the 9th International Symposium on Algorithmic Number Theory, ANTS-IX (Nancy, France, July 19-23, 2010)*, volume 6197 of *LNCS*, pages 1–1. Springer-Verlag, Berlin-Heidelberg, 2010.
- [299] Abhimanyu Das and David Kempe. Estimating the average of a lipschitz-continuous function from one sample. In Mark de Berg and Ulrich Meyer, editors, *Proceedings of the 18th Annual European Symposium on Algorithms, ESA '2010, Part I (Liverpool, UK, September 6-8, 2010)*, volume 6346 of *LNCS*, pages 219–230. Springer-Verlag, Berlin-Heidelberg, 2010.
- [300] Samir Datta, Meena Mahajan, B.V. Raghavendra Rao, Michael Thomas, and Heribert Vollmer. Counting classes and the fine structure between nc^1 and l . In Petr Hliněný and Antonín Kučera, editors, *Proceedings of the 35th International Symposium on Mathematical Foundations of Computer Science, MFCS'2010 (Brno, Czech Republic, August 23-27, 2010)*, volume 6281 of *LNCS*, pages 306–317. Springer-Verlag, Berlin-Heidelberg, 2010.