

References

- [1] Nir Ailon, Noa Avigdor-Elgrabli, Edo Liberty, and Anke van Zuylen. Improved approximation algorithms for bipartite correlation clustering. In Camil Demetrescu and Magnús M. Halldórsson, editors, *Proceedings of the 19th Annual European Symposium on Algorithms, ESA '2011, (Saarbrücken, Germany, September 5-9, 2011)*, volume 6942 of *LNCS*, pages 25–36. Springer-Verlag, Berlin-Heidelberg, 2011.
- [2] Saeed Alaei, Mohammad T. Hajiaghayi, Vahid Liaghat, Dan Pei, and Barna Saha. Adcell: Ad allocation in cellular networks. In Camil Demetrescu and Magnús M. Halldórsson, editors, *Proceedings of the 19th Annual European Symposium on Algorithms, ESA '2011, (Saarbrücken, Germany, September 5-9, 2011)*, volume 6942 of *LNCS*, pages 311–322. Springer-Verlag, Berlin-Heidelberg, 2011.
- [3] Victor Alvarez, David G. Kirkpatrick, and Raimund Seidel. Can nearest neighbor searching be simple and always fast? In Camil Demetrescu and Magnús M. Halldórsson, editors, *Proceedings of the 19th Annual European Symposium on Algorithms, ESA '2011, (Saarbrücken, Germany, September 5-9, 2011)*, volume 6942 of *LNCS*, pages 82–92. Springer-Verlag, Berlin-Heidelberg, 2011.
- [4] Yossi Azar, Iftah Gamzu, and Ran Roth. Submodular max-sat. In Camil Demetrescu and Magnús M. Halldórsson, editors, *Proceedings of the 19th Annual European Symposium on Algorithms, ESA '2011, (Saarbrücken, Germany, September 5-9, 2011)*, volume 6942 of *LNCS*, pages 323–334. Springer-Verlag, Berlin-Heidelberg, 2011.
- [5] Yossi Azar, Ori Gurel-Gurevich, Eyal Lubetzky, and Thomas Moscibroda. Optimal discovery strategies in white space networks. In Camil Demetrescu and Magnús M. Halldórsson, editors, *Proceedings of the 19th Annual European Symposium on Algorithms, ESA '2011, (Saarbrücken, Germany, September 5-9, 2011)*, volume 6942 of *LNCS*, pages 713–722. Springer-Verlag, Berlin-Heidelberg, 2011.
- [6] Nikhil Bansal and Joel Spencer. Deterministic discrepancy minimization. In Camil Demetrescu and Magnús M. Halldórsson, editors, *Proceedings of the 19th Annual European Symposium on Algorithms*,

ESA '2011, (Saarbrücken, Germany, September 5-9, 2011), volume 6942 of *LNCS*, pages 408–420. Springer-Verlag, Berlin-Heidelberg, 2011.

- [7] Sanjoy K. Baruah, Vincenzo Bonifaci, Gianlorenzo D’Angelo, Alberto Marchetti-Spaccamela, Suzanne van der Ster, and Leen Stougie. Mixed-criticality scheduling of sporadic task systems. In Camil Demetrescu and Magnús M. Halldórsson, editors, *Proceedings of the 19th Annual European Symposium on Algorithms, ESA '2011, (Saarbrücken, Germany, September 5-9, 2011)*, volume 6942 of *LNCS*, pages 555–566. Springer-Verlag, Berlin-Heidelberg, 2011.
- [8] Djamal Belazzougui and Gonzalo Navarro. Alphabet-independent compressed text indexing. In Camil Demetrescu and Magnús M. Halldórsson, editors, *Proceedings of the 19th Annual European Symposium on Algorithms, ESA '2011, (Saarbrücken, Germany, September 5-9, 2011)*, volume 6942 of *LNCS*, pages 748–759. Springer-Verlag, Berlin-Heidelberg, 2011.
- [9] Annabell Berger, Christian Blaar, Andreas Gebhardt, Matthias Müller-Hannemann, and Mathias Schnee. Passenger flow-oriented train disposition. In Camil Demetrescu and Magnús M. Halldórsson, editors, *Proceedings of the 19th Annual European Symposium on Algorithms, ESA '2011, (Saarbrücken, Germany, September 5-9, 2011)*, volume 6942 of *LNCS*, pages 227–238. Springer-Verlag, Berlin-Heidelberg, 2011.
- [10] Béla Bollobás, David Pritchard, Thomas Rothvoß, and Alex Scott. Cover-decomposition and polychromatic numbers. In Camil Demetrescu and Magnús M. Halldórsson, editors, *Proceedings of the 19th Annual European Symposium on Algorithms, ESA '2011, (Saarbrücken, Germany, September 5-9, 2011)*, volume 6942 of *LNCS*, pages 799–810. Springer-Verlag, Berlin-Heidelberg, 2011.
- [11] P.C. Bouman, J.M. van den Akker, and J.A. Hoogeveen. Recoverable robustness by column generation. In Camil Demetrescu and Magnús M. Halldórsson, editors, *Proceedings of the 19th Annual European Symposium on Algorithms, ESA '2011, (Saarbrücken, Germany, September 5-9, 2011)*, volume 6942 of *LNCS*, pages 215–226. Springer-Verlag, Berlin-Heidelberg, 2011.

- [12] Tobias Brunsch, Heiko Röglin, Cyriel Rutten, and Tjark Vredeveld. Smoothed performance guarantees for local search. In Camil Demetrescu and Magnús M. Halldórsson, editors, *Proceedings of the 19th Annual European Symposium on Algorithms, ESA'2011, (Saarbrücken, Germany, September 5-9, 2011)*, volume 6942 of *LNCS*, pages 772–783. Springer-Verlag, Berlin-Heidelberg, 2011.
- [13] Venkatesan T. Chakaravarthy, Amit Kumar, Sambuddha Roy, and Yogenish Sabharwal. Resource allocation for covering time varying demands. In Camil Demetrescu and Magnús M. Halldórsson, editors, *Proceedings of the 19th Annual European Symposium on Algorithms, ESA'2011, (Saarbrücken, Germany, September 5-9, 2011)*, volume 6942 of *LNCS*, pages 543–554. Springer-Verlag, Berlin-Heidelberg, 2011.
- [14] Danny Z. Chen and Haitao Wang. A nearly optimal algorithm for finding l_1 shortest paths among polygonal obstacles in the plane. In Camil Demetrescu and Magnús M. Halldórsson, editors, *Proceedings of the 19th Annual European Symposium on Algorithms, ESA'2011, (Saarbrücken, Germany, September 5-9, 2011)*, volume 6942 of *LNCS*, pages 481–492. Springer-Verlag, Berlin-Heidelberg, 2011.
- [15] Ning Chen, Xiaotie Deng, and Jie Zhang. How profitable are strategic behaviors in a market? In Camil Demetrescu and Magnús M. Halldórsson, editors, *Proceedings of the 19th Annual European Symposium on Algorithms, ESA'2011, (Saarbrücken, Germany, September 5-9, 2011)*, volume 6942 of *LNCS*, pages 106–118. Springer-Verlag, Berlin-Heidelberg, 2011.
- [16] George Christodoulou, Kurt Mehlhorn, and Evangelia Pyrga. Improving the price of anarchy for selfish routing via coordination mechanisms. In Camil Demetrescu and Magnús M. Halldórsson, editors, *Proceedings of the 19th Annual European Symposium on Algorithms, ESA'2011, (Saarbrücken, Germany, September 5-9, 2011)*, volume 6942 of *LNCS*, pages 119–130. Springer-Verlag, Berlin-Heidelberg, 2011.
- [17] Marek Chrobak, Lukasz Jeż, and Jiří Sgall. Better bounds for incremental frequency allocation in bipartite graphs. In Camil Demetrescu and Magnús M. Halldórsson, editors, *Proceedings of the 19th Annual European Symposium on Algorithms, ESA'2011, (Saarbrücken, Germany,*

September 5-9, 2011), volume 6942 of LNCS, pages 251–262. Springer-Verlag, Berlin-Heidelberg, 2011.

- [18] Marek Chrobak, Jiří Sgall, and Gerhard J. Woeginger. Two-bounded-space bin packing revisited. In Camil Demetrescu and Magnús M. Halldórsson, editors, *Proceedings of the 19th Annual European Symposium on Algorithms, ESA'2011, (Saarbrücken, Germany, September 5-9, 2011)*, volume 6942 of LNCS, pages 263–274. Springer-Verlag, Berlin-Heidelberg, 2011.
- [19] Basile Couëtoux. A $\frac{3}{2}$ approximation for a constrained forest problem. In Camil Demetrescu and Magnús M. Halldórsson, editors, *Proceedings of the 19th Annual European Symposium on Algorithms, ESA'2011, (Saarbrücken, Germany, September 5-9, 2011)*, volume 6942 of LNCS, pages 652–663. Springer-Verlag, Berlin-Heidelberg, 2011.
- [20] Marek Cygan, Marcin Pilipczuk, Michał Pilipczuk, and Jakub Onufry Wojtaszczyk. Scheduling partially ordered jobs faster than 2^n . In Camil Demetrescu and Magnús M. Halldórsson, editors, *Proceedings of the 19th Annual European Symposium on Algorithms, ESA'2011, (Saarbrücken, Germany, September 5-9, 2011)*, volume 6942 of LNCS, pages 299–310. Springer-Verlag, Berlin-Heidelberg, 2011.
- [21] Jurek Czyzowicz, Leszek Gąsieniec, Adrian Kosowski, and Evangelos Kranakis. Boundary patrolling by mobile agents with distinct maximal speeds. In Camil Demetrescu and Magnús M. Halldórsson, editors, *Proceedings of the 19th Annual European Symposium on Algorithms, ESA'2011, (Saarbrücken, Germany, September 5-9, 2011)*, volume 6942 of LNCS, pages 701–712. Springer-Verlag, Berlin-Heidelberg, 2011.
- [22] Aparna Das, Emden R. Gansner, Michael Kaufmann, Stephen Kobourov, Joachim Spoerhase, and Alexander Wolff. Approximating minimum manhattan networks in higher dimensions. In Camil Demetrescu and Magnús M. Halldórsson, editors, *Proceedings of the 19th Annual European Symposium on Algorithms, ESA'2011, (Saarbrücken, Germany, September 5-9, 2011)*, volume 6942 of LNCS, pages 49–60. Springer-Verlag, Berlin-Heidelberg, 2011.
- [23] Erik D. Demaine, Martin L. Demaine, Sarah Eisenstat, Anna Lubiw, and Andrew Winslow. Algorithms for solving rubik's cubes. In Camil

Demetrescu and Magnús M. Halldórsson, editors, *Proceedings of the 19th Annual European Symposium on Algorithms, ESA'2011, (Saarbrücken, Germany, September 5-9, 2011)*, volume 6942 of *LNCS*, pages 689–700. Springer-Verlag, Berlin-Heidelberg, 2011.

- [24] Josep Díaz, Alberto Marchetti-Spaccamela, Dieter Mitsche, Paolo Santi, and Julinda Stefa. Social-aware forwarding improves routing performance in pocket switched networks. In Camil Demetrescu and Magnús M. Halldórsson, editors, *Proceedings of the 19th Annual European Symposium on Algorithms, ESA'2011, (Saarbrücken, Germany, September 5-9, 2011)*, volume 6942 of *LNCS*, pages 723–735. Springer-Verlag, Berlin-Heidelberg, 2011.
- [25] Martin Dietzfelbinger, Michael Mitzenmacher, and Michael Rink. Cuckoo hashing with pages. In Camil Demetrescu and Magnús M. Halldórsson, editors, *Proceedings of the 19th Annual European Symposium on Algorithms, ESA'2011, (Saarbrücken, Germany, September 5-9, 2011)*, volume 6942 of *LNCS*, pages 615–627. Springer-Verlag, Berlin-Heidelberg, 2011.
- [26] Hristo N. Djidjev and Christian Sommer. Approximate distance queries for weighted polyhedral surfaces. In Camil Demetrescu and Magnús M. Halldórsson, editors, *Proceedings of the 19th Annual European Symposium on Algorithms, ESA'2011, (Saarbrücken, Germany, September 5-9, 2011)*, volume 6942 of *LNCS*, pages 579–590. Springer-Verlag, Berlin-Heidelberg, 2011.
- [27] Thorsten Ederer, Ulf Lorenz, Alexander Martin, and Jan Wolf. Quantified linear programs: A computational study. In Camil Demetrescu and Magnús M. Halldórsson, editors, *Proceedings of the 19th Annual European Symposium on Algorithms, ESA'2011, (Saarbrücken, Germany, September 5-9, 2011)*, volume 6942 of *LNCS*, pages 203–214. Springer-Verlag, Berlin-Heidelberg, 2011.
- [28] Leah Epstein and Asaf Levin. Robust algorithms for preemptive scheduling. In Camil Demetrescu and Magnús M. Halldórsson, editors, *Proceedings of the 19th Annual European Symposium on Algorithms, ESA'2011, (Saarbrücken, Germany, September 5-9, 2011)*, volume 6942 of *LNCS*, pages 567–578. Springer-Verlag, Berlin-Heidelberg, 2011.

- [29] Guy Even and Shakhar Smorodinsky. Hitting sets online and vertex ranking. In Camil Demetrescu and Magnús M. Halldórsson, editors, *Proceedings of the 19th Annual European Symposium on Algorithms, ESA '2011, (Saarbrücken, Germany, September 5-9, 2011)*, volume 6942 of *LNCS*, pages 347–357. Springer-Verlag, Berlin-Heidelberg, 2011.
- [30] Moran Feldman, Joseph (Seffi) Naor, Roy Schwartz, and Justin Ward. Improved approximations for k -exchange systems. In Camil Demetrescu and Magnús M. Halldórsson, editors, *Proceedings of the 19th Annual European Symposium on Algorithms, ESA '2011, (Saarbrücken, Germany, September 5-9, 2011)*, volume 6942 of *LNCS*, pages 784–798. Springer-Verlag, Berlin-Heidelberg, 2011.
- [31] Andreas Emil Feldmann and Peter Widmayer. An $\vartheta(n^4)$ time algorithm to compute the bisection width of solid grid graphs. In Camil Demetrescu and Magnús M. Halldórsson, editors, *Proceedings of the 19th Annual European Symposium on Algorithms, ESA '2011, (Saarbrücken, Germany, September 5-9, 2011)*, volume 6942 of *LNCS*, pages 143–154. Springer-Verlag, Berlin-Heidelberg, 2011.
- [32] Paolo Ferragina, Jouni Sirén, and Rossano Venturini. Distribution-aware compressed full-text indexes. In Camil Demetrescu and Magnús M. Halldórsson, editors, *Proceedings of the 19th Annual European Symposium on Algorithms, ESA '2011, (Saarbrücken, Germany, September 5-9, 2011)*, volume 6942 of *LNCS*, pages 760–771. Springer-Verlag, Berlin-Heidelberg, 2011.
- [33] Rui Ferreira, Roberto Grossi, and Romeo Rizzi. Output-sensitive listing of bounded-size trees in undirected graphs. In Camil Demetrescu and Magnús M. Halldórsson, editors, *Proceedings of the 19th Annual European Symposium on Algorithms, ESA '2011, (Saarbrücken, Germany, September 5-9, 2011)*, volume 6942 of *LNCS*, pages 275–286. Springer-Verlag, Berlin-Heidelberg, 2011.
- [34] Fedor V. Fomin, Ioan Todinca, and Yngve Villanger. Exact algorithm for the maximum induced planar subgraph problem. In Camil Demetrescu and Magnús M. Halldórsson, editors, *Proceedings of the 19th Annual European Symposium on Algorithms, ESA '2011, (Saarbrücken, Germany, September 5-9, 2011)*, volume 6942 of *LNCS*, pages 287–298. Springer-Verlag, Berlin-Heidelberg, 2011.

- [35] Asaf Frieder and Liam Roditty. An experimental study on approximating k shortest simple paths. In Camil Demetrescu and Magnús M. Halldórsson, editors, *Proceedings of the 19th Annual European Symposium on Algorithms, ESA'2011, (Saarbrücken, Germany, September 5-9, 2011)*, volume 6942 of *LNCS*, pages 433–444. Springer-Verlag, Berlin-Heidelberg, 2011.
- [36] Paweł Gawrychowski. Pattern matching in lempel-ziv compressed strings: Fast, simple, and deterministic. In Camil Demetrescu and Magnús M. Halldórsson, editors, *Proceedings of the 19th Annual European Symposium on Algorithms, ESA'2011, (Saarbrücken, Germany, September 5-9, 2011)*, volume 6942 of *LNCS*, pages 421–432. Springer-Verlag, Berlin-Heidelberg, 2011.
- [37] Loukas Georgiadis. Approximating the smallest 2-vertex connected spanning subgraph of a directed graph. In Camil Demetrescu and Magnús M. Halldórsson, editors, *Proceedings of the 19th Annual European Symposium on Algorithms, ESA'2011, (Saarbrücken, Germany, September 5-9, 2011)*, volume 6942 of *LNCS*, pages 13–24. Springer-Verlag, Berlin-Heidelberg, 2011.
- [38] Matt Gibson, Gaurav Kanade, and Kasturi Varadarajan. On isolating points using disks. In Camil Demetrescu and Magnús M. Halldórsson, editors, *Proceedings of the 19th Annual European Symposium on Algorithms, ESA'2011, (Saarbrücken, Germany, September 5-9, 2011)*, volume 6942 of *LNCS*, pages 61–69. Springer-Verlag, Berlin-Heidelberg, 2011.
- [39] Andrew V. Goldberg, Sagi Hed, Haim Kaplan, Robert E. Tarjan, and Renato F. Werneck. Maximum flows by incremental breadth-first search. In Camil Demetrescu and Magnús M. Halldórsson, editors, *Proceedings of the 19th Annual European Symposium on Algorithms, ESA'2011, (Saarbrücken, Germany, September 5-9, 2011)*, volume 6942 of *LNCS*, pages 457–468. Springer-Verlag, Berlin-Heidelberg, 2011.
- [40] Paul W. Goldberg, Rahul Savani, Troels Bjerre Sørensen, and Carmine Ventre. On the approximation performance of fictitious play we study the performance of fictitious play, when used as a heuristic for finding an approximate nash equilibrium of a two-player game. we exhibit a class

of two-player games having payoffs in the range [0,1] that show that fictitious play fails to find a solution having an additive approximation guarantee significantly better than $1/2$. our construction shows that for $n \times n$ games, in the worst case both players may perpetually have mixed strategies whose payoffs fall short of the best response by an additive quantity $1/2 - o(1/n^{1-\delta})$ for arbitrarily small δ . we also show an essentially matching upper bound of $1/2 - o(1/n)$.in finite games. In Camil Demetrescu and Magnús M. Halldórsson, editors, *Proceedings of the 19th Annual European Symposium on Algorithms, ESA '2011, (Saarbrücken, Germany, September 5-9, 2011)*, volume 6942 of *LNCS*, pages 93–105. Springer-Verlag, Berlin-Heidelberg, 2011.

- [41] Michael T. Goodrich and Paweł Pszona. External-memory network analysis algorithms for naturally sparse graphs. In Camil Demetrescu and Magnús M. Halldórsson, editors, *Proceedings of the 19th Annual European Symposium on Algorithms, ESA '2011, (Saarbrücken, Germany, September 5-9, 2011)*, volume 6942 of *LNCS*, pages 664–676. Springer-Verlag, Berlin-Heidelberg, 2011.
- [42] Koki Hamada, Kazuo Iwama, and Shuichi Miyazaki. The hospitals/residents problem with quota lower bounds. In Camil Demetrescu and Magnús M. Halldórsson, editors, *Proceedings of the 19th Annual European Symposium on Algorithms, ESA '2011, (Saarbrücken, Germany, September 5-9, 2011)*, volume 6942 of *LNCS*, pages 180–191. Springer-Verlag, Berlin-Heidelberg, 2011.
- [43] Monika Henzinger and Angelina Vidali. Multi-parameter mechanism design under budget and matroid constraints. In Camil Demetrescu and Magnús M. Halldórsson, editors, *Proceedings of the 19th Annual European Symposium on Algorithms, ESA '2011, (Saarbrücken, Germany, September 5-9, 2011)*, volume 6942 of *LNCS*, pages 192–202. Springer-Verlag, Berlin-Heidelberg, 2011.
- [44] Petr Hliněný and Ondrej Moriš. Scope-based route planning. In Camil Demetrescu and Magnús M. Halldórsson, editors, *Proceedings of the 19th Annual European Symposium on Algorithms, ESA '2011, (Saarbrücken, Germany, September 5-9, 2011)*, volume 6942 of *LNCS*, pages 445–456. Springer-Verlag, Berlin-Heidelberg, 2011.

- [45] Chien-Chung Huang and Telikepalli Kavitha. Near-popular matchings in the roommates problem. In Camil Demetrescu and Magnús M. Halldórsson, editors, *Proceedings of the 19th Annual European Symposium on Algorithms, ESA'2011, (Saarbrücken, Germany, September 5-9, 2011)*, volume 6942 of *LNCS*, pages 167–179. Springer-Verlag, Berlin-Heidelberg, 2011.
- [46] Łukasz Jeż. One to rule them all: A general randomized algorithm for buffer management with bounded delay. In Camil Demetrescu and Magnús M. Halldórsson, editors, *Proceedings of the 19th Annual European Symposium on Algorithms, ESA'2011, (Saarbrücken, Germany, September 5-9, 2011)*, volume 6942 of *LNCS*, pages 239–250. Springer-Verlag, Berlin-Heidelberg, 2011.
- [47] Gwenaël Joret, Christophe Paul, Ignasi Sau, Saket Saurabh, and Stéphan Thomassé. Hitting and harvesting pumpkins. In Camil Demetrescu and Magnús M. Halldórsson, editors, *Proceedings of the 19th Annual European Symposium on Algorithms, ESA'2011, (Saarbrücken, Germany, September 5-9, 2011)*, volume 6942 of *LNCS*, pages 394–407. Springer-Verlag, Berlin-Heidelberg, 2011.
- [48] Rolf Klein, Rainer Penninger, Christian Sohler, and David P. Woodruff. Tolerant algorithms. In Camil Demetrescu and Magnús M. Halldórsson, editors, *Proceedings of the 19th Annual European Symposium on Algorithms, ESA'2011, (Saarbrücken, Germany, September 5-9, 2011)*, volume 6942 of *LNCS*, pages 736–747. Springer-Verlag, Berlin-Heidelberg, 2011.
- [49] Yusuke Kobayashi and Yuichi Yoshida. Algorithms for finding a maximum non- k -linked graph. In Camil Demetrescu and Magnús M. Halldórsson, editors, *Proceedings of the 19th Annual European Symposium on Algorithms, ESA'2011, (Saarbrücken, Germany, September 5-9, 2011)*, volume 6942 of *LNCS*, pages 131–142. Springer-Verlag, Berlin-Heidelberg, 2011.
- [50] Jakub Łącki and Piotr Sankowski. Min-cuts and shortest cycles in planar graphs in $o(n \log \log n)$ time. In Camil Demetrescu and Magnús M. Halldórsson, editors, *Proceedings of the 19th Annual European Symposium on Algorithms, ESA'2011, (Saarbrücken, Germany, September 5-*

9, 2011), volume 6942 of *LNCS*, pages 155–166. Springer-Verlag, Berlin-Heidelberg, 2011.

- [51] Chih-Hung Liu, Evangelia Papadopoulou, and Der Tsai Lee. An output-sensitive approach for the l_1/l_∞ k -nearest-neighbor voronoi diagram. In Camil Demetrescu and Magnús M. Halldórsson, editors, *Proceedings of the 19th Annual European Symposium on Algorithms, ESA'2011, (Saarbrücken, Germany, September 5-9, 2011)*, volume 6942 of *LNCS*, pages 70–81. Springer-Verlag, Berlin-Heidelberg, 2011.
- [52] Anil Maheshwari, Jörg-Rüdiger Sack, Kaveh Shahbaz, and Hamid Zarrabi-Zadeh. Improved algorithms for partial curve matching. In Camil Demetrescu and Magnús M. Halldórsson, editors, *Proceedings of the 19th Annual European Symposium on Algorithms, ESA'2011, (Saarbrücken, Germany, September 5-9, 2011)*, volume 6942 of *LNCS*, pages 518–529. Springer-Verlag, Berlin-Heidelberg, 2011.
- [53] Madhusudan Manjunath, Kurt Mehlhorn, Konstantinos Panagiotou, and He Sun. Approximate counting of cycles in streams. In Camil Demetrescu and Magnús M. Halldórsson, editors, *Proceedings of the 19th Annual European Symposium on Algorithms, ESA'2011, (Saarbrücken, Germany, September 5-9, 2011)*, volume 6942 of *LNCS*, pages 677–688. Springer-Verlag, Berlin-Heidelberg, 2011.
- [54] Nabil H. Mustafa, Saurabh Ray, and Mudassir Shabbir. Ray-shooting depth: Computing statistical data depth of point sets in the plane. In Camil Demetrescu and Magnús M. Halldórsson, editors, *Proceedings of the 19th Annual European Symposium on Algorithms, ESA'2011, (Saarbrücken, Germany, September 5-9, 2011)*, volume 6942 of *LNCS*, pages 506–517. Springer-Verlag, Berlin-Heidelberg, 2011.
- [55] Shayan Oveis Gharan and Jan Vondrák. On variants of the matroid secretary problem. In Camil Demetrescu and Magnús M. Halldórsson, editors, *Proceedings of the 19th Annual European Symposium on Algorithms, ESA'2011, (Saarbrücken, Germany, September 5-9, 2011)*, volume 6942 of *LNCS*, pages 335–346. Springer-Verlag, Berlin-Heidelberg, 2011.
- [56] Matthias Poloczek. Bounds on greedy algorithms for max sat. In Camil Demetrescu and Magnús M. Halldórsson, editors, *Proceedings of the 19th*

Annual European Symposium on Algorithms, ESA '2011, (Saarbrücken, Germany, September 5-9, 2011), volume 6942 of LNCS, pages 37–48. Springer-Verlag, Berlin-Heidelberg, 2011.

- [57] Ely Porat and Liam Roditty. Preprocess, set, query! In Camil Demetrescu and Magnús M. Halldórsson, editors, *Proceedings of the 19th Annual European Symposium on Algorithms, ESA '2011, (Saarbrücken, Germany, September 5-9, 2011)*, volume 6942 of *LNCS*, pages 603–614. Springer-Verlag, Berlin-Heidelberg, 2011.
- [58] Venkatesh Raman, M.S. Ramanujan, and Saket Saurabh. Paths, flowers and vertex cover. In Camil Demetrescu and Magnús M. Halldórsson, editors, *Proceedings of the 19th Annual European Symposium on Algorithms, ESA '2011, (Saarbrücken, Germany, September 5-9, 2011)*, volume 6942 of *LNCS*, pages 382–393. Springer-Verlag, Berlin-Heidelberg, 2011.
- [59] Oren Salzman, Michael Hemmer, Barak Raveh, and Dan Halperin. Motion planning via manifold samples. In Camil Demetrescu and Magnús M. Halldórsson, editors, *Proceedings of the 19th Annual European Symposium on Algorithms, ESA '2011, (Saarbrücken, Germany, September 5-9, 2011)*, volume 6942 of *LNCS*, pages 493–505. Springer-Verlag, Berlin-Heidelberg, 2011.
- [60] Peter Sanders and Christian Schulz. Engineering multilevel graph partitioning algorithms. In Camil Demetrescu and Magnús M. Halldórsson, editors, *Proceedings of the 19th Annual European Symposium on Algorithms, ESA '2011, (Saarbrücken, Germany, September 5-9, 2011)*, volume 6942 of *LNCS*, pages 469–480. Springer-Verlag, Berlin-Heidelberg, 2011.
- [61] Andreas S. Schulz and Claudio Telha. Approximation algorithms and hardness results for the joint replenishment problem with constant demands. In Camil Demetrescu and Magnús M. Halldórsson, editors, *Proceedings of the 19th Annual European Symposium on Algorithms, ESA '2011, (Saarbrücken, Germany, September 5-9, 2011)*, volume 6942 of *LNCS*, pages 628–639. Springer-Verlag, Berlin-Heidelberg, 2011.
- [62] Kaspar Schüpbach and Rico Zenklusen. Approximation algorithms for conflict-free vehicle routing. In Camil Demetrescu and Magnús M.

- Halldórsson, editors, *Proceedings of the 19th Annual European Symposium on Algorithms, ESA '2011, (Saarbrücken, Germany, September 5-9, 2011)*, volume 6942 of *LNCS*, pages 640–651. Springer-Verlag, Berlin-Heidelberg, 2011.
- [63] Pascal Schweitzer. Isomorphism of (mis)labeled graphs. In Camil Demetrescu and Magnús M. Halldórsson, editors, *Proceedings of the 19th Annual European Symposium on Algorithms, ESA '2011, (Saarbrücken, Germany, September 5-9, 2011)*, volume 6942 of *LNCS*, pages 370–381. Springer-Verlag, Berlin-Heidelberg, 2011.
 - [64] Akiyoshi Shioura. Polynomial-time approximation schemes for maximizing gross substitutes utility under budget constraints. In Camil Demetrescu and Magnús M. Halldórsson, editors, *Proceedings of the 19th Annual European Symposium on Algorithms, ESA '2011, (Saarbrücken, Germany, September 5-9, 2011)*, volume 6942 of *LNCS*, pages 1–12. Springer-Verlag, Berlin-Heidelberg, 2011.
 - [65] Dimitrios M. Thilikos. Fast sub-exponential algorithms and compactness in planar graphs. In Camil Demetrescu and Magnús M. Halldórsson, editors, *Proceedings of the 19th Annual European Symposium on Algorithms, ESA '2011, (Saarbrücken, Germany, September 5-9, 2011)*, volume 6942 of *LNCS*, pages 358–369. Springer-Verlag, Berlin-Heidelberg, 2011.
 - [66] José Verschae and Andreas Wiese. On the configuration-lp for scheduling on unrelated machines. In Camil Demetrescu and Magnús M. Halldórsson, editors, *Proceedings of the 19th Annual European Symposium on Algorithms, ESA '2011, (Saarbrücken, Germany, September 5-9, 2011)*, volume 6942 of *LNCS*, pages 530–542. Springer-Verlag, Berlin-Heidelberg, 2011.
 - [67] Hakan Yıldız, Luca Foschini, John Hershberger, and Subhash Suri. The union of probabilistic boxes: Maintaining the volume. In Camil Demetrescu and Magnús M. Halldórsson, editors, *Proceedings of the 19th Annual European Symposium on Algorithms, ESA '2011, (Saarbrücken, Germany, September 5-9, 2011)*, volume 6942 of *LNCS*, pages 591–602. Springer-Verlag, Berlin-Heidelberg, 2011.