References

[1] Amir Abboud and Kevin Lewi. Exact weight subgraphs and the k-sum conjecture. In Fedor V. Fomin, Rūsiņš Freivalds, Marta Kwiatkowska, and David Peleg, editors, *Proceedings of the 40th International Colloquium on Automata, Languages and Programming, ICALP'2013, Part I (Riga, Latvia, July 8-12, 2013)*, volume 7965 of *LNCS*, pages 1–12. Springer-Verlag, Berlin-Heidelberg, 2013.

[2] S. Anand, Karl Bringmann, Tobias Friedrich, Naveen Garg, and Amit Kumar. Minimizing maximum (weighted) flow-time on related and unrelated machines. In Fedor V. Fomin, Rūsiņš Freivalds, Marta Kwiatkowska, and David Peleg, editors, *Proceedings of the 40th International Colloquium on Automata, Languages and Programming, ICALP'2013, Part I (Riga, Latvia, July 8-12, 2013)*, volume 7965 of *LNCS*, pages 13–24. Springer-Verlag, Berlin-Heidelberg, 2013.

[3] Alexandr Andoni, Huy L. Nguyễn, Yury Polyanskiy, and Yihong Wu. Tight lower bound for linear sketches of moments. In Fedor V. Fomin, Rūsiņš Freivalds, Marta Kwiatkowska, and David Peleg, editors, *Proceedings of the 40th International Colloquium on Automata, Languages and Programming, ICALP'2013, Part I (Riga, Latvia, July 8-12, 2013)*, volume 7965 of *LNCS*, pages 25–32. Springer-Verlag, Berlin-Heidelberg, 2013.

[4] Martin Aumüller and Martin Dietzfelbinger. Optimal partitioning for dual pivot quicksort. In Fedor V. Fomin, Rūsiņš Freivalds, Marta Kwiatkowska, and David Peleg, editors, *Proceedings of the 40th International Colloquium on Automata, Languages and Programming, ICALP'2013, Part I (Riga, Latvia, July 8-12, 2013)*, volume 7965 of *LNCS*, pages 33–44. Springer-Verlag, Berlin-Heidelberg, 2013.

[5] Per Austrin, Petteri Kaski, Mikko Koivisto, and Jussi Määttä. Space-time tradeoffs for subset sum: An improved worst case algorithm. In Fedor V. Fomin, Rūsiņš Freivalds, Marta Kwiatkowska, and David Peleg, editors, *Proceedings of the 40th International Colloquium on Automata, Languages and Programming, ICALP'2013, Part I (Riga, Latvia, July 8-12, 2013)*, volume 7965 of *LNCS*, pages 45–56. Springer-Verlag, Berlin-Heidelberg, 2013.

[6] David Avis and Hans Raj Tiwary. On the extension complexity of combinatorial polytopes. In Fedor V. Fomin, Rūsiņš Freivalds, Marta Kwiatkowska, and David Peleg, editors, *Proceedings of the 40th International Colloquium on Automata, Languages and Programming, ICALP'2013, Part I (Riga, Latvia, July 8-12, 2013)*, volume 7965 of *LNCS*, pages 57–68. Springer-Verlag, Berlin-Heidelberg, 2013.

[7] Maxim Babenko, Andrew V. Goldberg, Anupam Gupta, and Viswanath Nagarajan. Algorithms for hub label optimization. In Fedor V. Fomin, Rūsiņš Freivalds, Marta Kwiatkowska, and David Peleg, editors, *Proceedings of the 40th International Colloquium on Automata, Languages and Programming, ICALP'2013, Part I (Riga, Latvia, July 8-12, 2013)*, volume 7965 of *LNCS*, pages 69–80. Springer-Verlag, Berlin-Heidelberg, 2013.

[8] MohammadHossein Bateni, MohammadTaghi Hajiaghayi, and Vahid Liaghat. Improved approximation algorithms for (budgeted) node-weighted steiner problems. In Fedor V. Fomin, Rūsiņš Freivalds, Marta Kwiatkowska, and David Peleg, editors, *Proceedings of the 40th International Colloquium on Automata, Languages and Programming, ICALP'2013, Part I (Riga, Latvia, July 8-12, 2013)*, volume 7965 of *LNCS*, pages 81–92. Springer-Verlag, Berlin-Heidelberg, 2013.

[9] Reinhard Bauer, Tobias Columbus, Ignaz Rutter, and Dorothea Wagner. Search-space size in contraction hierarchies. In Fedor V. Fomin, Rūsiņš Freivalds, Marta Kwiatkowska, and David Peleg, editors, *Proceedings of the 40th International Colloquium on Automata, Languages and Programming, ICALP'2013, Part I (Riga, Latvia, July 8-12, 2013)*, volume 7965 of *LNCS*, pages 93–104. Springer-Verlag, Berlin-Heidelberg, 2013.

[10] Aleksandrs Belovs, Andrew M. Childs, Stacey Jeffery, Robin Kothari, and Frédéric Magniez. Time-efficient quantum walks for 3-distinctness. In Fedor V. Fomin, Rūsiņš Freivalds, Marta Kwiatkowska, and David Peleg, editors, *Proceedings of the 40th International Colloquium on Automata, Languages and Programming, ICALP'2013, Part I (Riga, Latvia, July 8-12, 2013)*, volume 7965 of *LNCS*, pages 105–122. Springer-Verlag, Berlin-Heidelberg, 2013.

[11] Arnab Bhattacharyya and Yuichi Yoshida. An algebraic characterization of testable boolean csps. In Fedor V. Fomin, Rūsiņš Freivalds,

Marta Kwiatkowska, and David Peleg, editors, *Proceedings of the 40th International Colloquium on Automata, Languages and Programming, ICALP'2013, Part I (Riga, Latvia, July 8-12, 2013)*, volume 7965 of *LNCS*, pages 123–134. Springer-Verlag, Berlin-Heidelberg, 2013.

[12] Marcin Bienkowski, Jaroslaw Byrka, Marek Chrobak, Neil Dobbs, Tomasz Nowicki, Maxim Sviridenko, Grzegorz Świrszcz, and Neal E. Young. Approximation algorithms for the joint replenishment problem with deadlines. In Fedor V. Fomin, Rūsiņš Freivalds, Marta Kwiatkowska, and David Peleg, editors, *Proceedings of the 40th International Colloquium on Automata, Languages and Programming, ICALP'2013, Part I (Riga, Latvia, July 8-12, 2013)*, volume 7965 of *LNCS*, pages 135–147. Springer-Verlag, Berlin-Heidelberg, 2013.

[13] Philip Bille, Johannes Fischer, Inge Li Gørtz, Tsvi Kopelowitz, Benjamin Sach, and Hjalte Wedel Vildhøj. Sparse suffix tree construction in small space. In Fedor V. Fomin, Rūsiņš Freivalds, Marta Kwiatkowska, and David Peleg, editors, *Proceedings of the 40th International Colloquium on Automata, Languages and Programming, ICALP'2013, Part I (Riga, Latvia, July 8-12, 2013)*, volume 7965 of *LNCS*, pages 148–159. Springer-Verlag, Berlin-Heidelberg, 2013.

[14] Philip Bille, Inge Li Gørtz, Gad M. Landau, and Oren Weimann. Tree compression with top trees. In Fedor V. Fomin, Rūsiņš Freivalds, Marta Kwiatkowska, and David Peleg, editors, *Proceedings of the 40th International Colloquium on Automata, Languages and Programming, ICALP'2013, Part I (Riga, Latvia, July 8-12, 2013)*, volume 7965 of *LNCS*, pages 160–171. Springer-Verlag, Berlin-Heidelberg, 2013.

[15] Markus Bläser. Noncommutativity makes determinants hard. In Fedor V. Fomin, Rūsiņš Freivalds, Marta Kwiatkowska, and David Peleg, editors, *Proceedings of the 40th International Colloquium on Automata, Languages and Programming, ICALP'2013, Part I (Riga, Latvia, July 8-12, 2013)*, volume 7965 of *LNCS*, pages 172–183. Springer-Verlag, Berlin-Heidelberg, 2013.

[16] Thomas Bläsius, Ignaz Rutter, and Dorothea Wagner. Optimal orthogonal graph drawing with convex bend costs. In Fedor V. Fomin, Rūsiņš Freivalds, Marta Kwiatkowska, and David Peleg, editors, *Proceedings of*

the 40th International Colloquium on Automata, Languages and Programming, ICALP'2013, Part I (Riga, Latvia, July 8-12, 2013), volume 7965 of *LNCS*, pages 184–195. Springer-Verlag, Berlin-Heidelberg, 2013.

[17] Hans L. Bodlaender, Marek Cygan, Stefan Kratsch, and Jesper Nederlof. Deterministic single exponential time algorithms for connectivity problems parameterized by treewidth. In Fedor V. Fomin, Rūsiņš Freivalds, Marta Kwiatkowska, and David Peleg, editors, *Proceedings of the 40th International Colloquium on Automata, Languages and Programming, ICALP'2013, Part I (Riga, Latvia, July 8-12, 2013)*, volume 7965 of *LNCS*, pages 196–207. Springer-Verlag, Berlin-Heidelberg, 2013.

[18] Cecilia Bohler, Panagiotis Cheilaris, Rolf Klein, Chih-Hung Liu, and Evanthia Papadopoulou Maksym Zavershynskyi. On the complexity of higher order abstract voronoi diagrams. In Fedor V. Fomin, Rūsiņš Freivalds, Marta Kwiatkowska, and David Peleg, editors, *Proceedings of the 40th International Colloquium on Automata, Languages and Programming, ICALP'2013, Part I (Riga, Latvia, July 8-12, 2013)*, volume 7965 of *LNCS*, pages 208–219. Springer-Verlag, Berlin-Heidelberg, 2013.

[19] Endre Boros, Khaled Elbassioni, Vladimir Gurvich, and Kazuhisa Makino. A pseudo-polynomial algorithm for mean payoff stochastic games with perfect information and a few random positions. In Fedor V. Fomin, Rūsiņš Freivalds, Marta Kwiatkowska, and David Peleg, editors, *Proceedings of the 40th International Colloquium on Automata, Languages and Programming, ICALP'2013, Part I (Riga, Latvia, July 8-12, 2013)*, volume 7965 of *LNCS*, pages 220–231. Springer-Verlag, Berlin-Heidelberg, 2013.

[20] Mark Braverman, Anup Rao, Omri Weinstein, and Amir Yehudayoff. Direct product via round-preserving compression. In Fedor V. Fomin, Rūsiņš Freivalds, Marta Kwiatkowska, and David Peleg, editors, *Proceedings of the 40th International Colloquium on Automata, Languages and Programming, ICALP'2013, Part I (Riga, Latvia, July 8-12, 2013)*, volume 7965 of *LNCS*, pages 232–243. Springer-Verlag, Berlin-Heidelberg, 2013.

[21] Vladimir Braverman, Rafail Ostrovsky, and Dan Vilenchik. How hard is counting triangles in the streaming model? In Fedor V. Fomin, Rūsiņš

Freivalds, Marta Kwiatkowska, and David Peleg, editors, *Proceedings of the 40th International Colloquium on Automata, Languages and Programming, ICALP'2013, Part I (Riga, Latvia, July 8-12, 2013)*, volume 7965 of *LNCS*, pages 244–254. Springer-Verlag, Berlin-Heidelberg, 2013.

[22] Karl Bringmann, Benjamin Doerr, Adrian Neumann, and Jakub Sliacan. Online checkpointing with improved worst-case guarantees. In Fedor V. Fomin, Rūsiņš Freivalds, Marta Kwiatkowska, and David Peleg, editors, *Proceedings of the 40th International Colloquium on Automata, Languages and Programming, ICALP'2013, Part I (Riga, Latvia, July 8-12, 2013)*, volume 7965 of *LNCS*, pages 255–266. Springer-Verlag, Berlin-Heidelberg, 2013.

[23] Karl Bringmann and Tobias Friedrich. Exact and efficient generation of geometric random variates and random graphs. In Fedor V. Fomin, Rūsiņš Freivalds, Marta Kwiatkowska, and David Peleg, editors, *Proceedings of the 40th International Colloquium on Automata, Languages and Programming, ICALP'2013, Part I (Riga, Latvia, July 8-12, 2013)*, volume 7965 of *LNCS*, pages 267–278. Springer-Verlag, Berlin-Heidelberg, 2013.

[24] Tobias Brunsch and Heiko Röglin. Finding short paths on polytopes by the shadow vertex algorithm. In Fedor V. Fomin, Rūsiņš Freivalds, Marta Kwiatkowska, and David Peleg, editors, *Proceedings of the 40th International Colloquium on Automata, Languages and Programming, ICALP'2013, Part I (Riga, Latvia, July 8-12, 2013)*, volume 7965 of *LNCS*, pages 279–290. Springer-Verlag, Berlin-Heidelberg, 2013.

[25] Jan Bulánek, Michal Koucký, and Michael Saks. On randomized online labeling with polynomially many labels. In Fedor V. Fomin, Rūsiņš Freivalds, Marta Kwiatkowska, and David Peleg, editors, *Proceedings of the 40th International Colloquium on Automata, Languages and Programming, ICALP'2013, Part I (Riga, Latvia, July 8-12, 2013)*, volume 7965 of *LNCS*, pages 291–302. Springer-Verlag, Berlin-Heidelberg, 2013.

[26] Mark Bun and Justin Thaler. Dual lower bounds for approximate degree and markov-bernstein inequalities. In Fedor V. Fomin, Rūsiņš Freivalds, Marta Kwiatkowska, and David Peleg, editors, *Proceedings of the 40th International Colloquium on Automata, Languages and Programming,*

ICALP'2013, Part I (Riga, Latvia, July 8-12, 2013), volume 7965 of *LNCS*, pages 303–314. Springer-Verlag, Berlin-Heidelberg, 2013.

[27] T.-H. Hubert Chan, Mingfei Li, Li Ning, and Shay Solomon. New doubling spanners: Better and simpler. In Fedor V. Fomin, Rūsiņš Freivalds, Marta Kwiatkowska, and David Peleg, editors, *Proceedings of the 40th International Colloquium on Automata, Languages and Programming, ICALP'2013, Part I (Riga, Latvia, July 8-12, 2013)*, volume 7965 of *LNCS*, pages 315–327. Springer-Verlag, Berlin-Heidelberg, 2013.

[28] Chandra Chekuri, Guyslain Naves, and F. Bruce Shepherd. Maximum edge-disjoint paths in k-sums of graphs. In Fedor V. Fomin, Rūsiņš Freivalds, Marta Kwiatkowska, and David Peleg, editors, *Proceedings of the 40th International Colloquium on Automata, Languages and Programming, ICALP'2013, Part I (Riga, Latvia, July 8-12, 2013)*, volume 7965 of *LNCS*, pages 328–339. Springer-Verlag, Berlin-Heidelberg, 2013.

[29] Joseph Cheriyan, Zhihan Gao, Konstantinos Georgiou, and Sahil Singla. On integrality ratios for asymmetric tsp in the sherali-adams hierarchy. In Fedor V. Fomin, Rūsiņš Freivalds, Marta Kwiatkowska, and David Peleg, editors, *Proceedings of the 40th International Colloquium on Automata, Languages and Programming, ICALP'2013, Part I (Riga, Latvia, July 8-12, 2013)*, volume 7965 of *LNCS*, pages 340–351. Springer-Verlag, Berlin-Heidelberg, 2013.

[30] Radu Curticapean. Counting matchings of size k is #w[1]-hard. In Fedor V. Fomin, Rūsiņš Freivalds, Marta Kwiatkowska, and David Peleg, editors, *Proceedings of the 40th International Colloquium on Automata, Languages and Programming, ICALP'2013, Part I (Riga, Latvia, July 8-12, 2013)*, volume 7965 of *LNCS*, pages 352–363. Springer-Verlag, Berlin-Heidelberg, 2013.

[31] Marek Cygan and Marcin Pilipczuk. Faster exponential-time algorithms in graphs of bounded average degree. In Fedor V. Fomin, Rūsiņš Freivalds, Marta Kwiatkowska, and David Peleg, editors, *Proceedings of the 40th International Colloquium on Automata, Languages and Programming, ICALP'2013, Part I (Riga, Latvia, July 8-12, 2013)*, volume 7965 of *LNCS*, pages 364–375. Springer-Verlag, Berlin-Heidelberg, 2013.

[32] Anindya De, Ilias Diakonikolas, and Rocco Servedio. A robust khintchine inequality, and algorithms for computing optimal constants in fourier analysis and high-dimensional geometry. In Fedor V. Fomin, Rūsiņš Freivalds, Marta Kwiatkowska, and David Peleg, editors, *Proceedings of the 40th International Colloquium on Automata, Languages and Programming, ICALP'2013, Part I (Riga, Latvia, July 8-12, 2013)*, volume 7965 of *LNCS*, pages 376–387. Springer-Verlag, Berlin-Heidelberg, 2013.

[33] Erik D. Demaine, John Iacono, Stefan Langerman, and Özgür Özkan. Combining binary search trees. In Fedor V. Fomin, Rūsiņš Freivalds, Marta Kwiatkowska, and David Peleg, editors, *Proceedings of the 40th International Colloquium on Automata, Languages and Programming, ICALP'2013, Part I (Riga, Latvia, July 8-12, 2013)*, volume 7965 of *LNCS*, pages 388–399. Springer-Verlag, Berlin-Heidelberg, 2013.

[34] Erik D. Demaine, Matthew J. Patitz, Trent A. Rogers, Robert T. Schweller, Scott M. Summers, and Damian Woods. The two-handed tile assembly model is not intrinsically universal. In Fedor V. Fomin, Rūsiņš Freivalds, Marta Kwiatkowska, and David Peleg, editors, *Proceedings of the 40th International Colloquium on Automata, Languages and Programming, ICALP'2013, Part I (Riga, Latvia, July 8-12, 2013)*, volume 7965 of *LNCS*, pages 400–412. Springer-Verlag, Berlin-Heidelberg, 2013.

[35] Irit Dinur and Elazar Goldenberg. Clustering in the boolean hypercube in a list decoding regime. In Fedor V. Fomin, Rūsiņš Freivalds, Marta Kwiatkowska, and David Peleg, editors, *Proceedings of the 40th International Colloquium on Automata, Languages and Programming, ICALP'2013, Part I (Riga, Latvia, July 8-12, 2013)*, volume 7965 of *LNCS*, pages 413–424. Springer-Verlag, Berlin-Heidelberg, 2013.

[36] Ran Duan and Kurt Mehlhorn. A combinatorial polynomial algorithm for the linear arrow-debreu market. In Fedor V. Fomin, Rūsiņš Freivalds, Marta Kwiatkowska, and David Peleg, editors, *Proceedings of the 40th International Colloquium on Automata, Languages and Programming, ICALP'2013, Part I (Riga, Latvia, July 8-12, 2013)*, volume 7965 of *LNCS*, pages 425–436. Springer-Verlag, Berlin-Heidelberg, 2013.

[37] Yuval Filmus, Massimo Lauria, Mladen Mikša, Jakob Nordström, and Marc Vinyals. Towards an understanding of polynomial calculus: New

separations and lower bounds. In Fedor V. Fomin, Rūsiņš Freivalds, Marta Kwiatkowska, and David Peleg, editors, *Proceedings of the 40th International Colloquium on Automata, Languages and Programming, ICALP'2013, Part I (Riga, Latvia, July 8-12, 2013)*, volume 7965 of *LNCS*, pages 437–448. Springer-Verlag, Berlin-Heidelberg, 2013.

[38] Dimitris Fotakis and Christos Tzamos. On the power of deterministic mechanisms for facility location games. In Fedor V. Fomin, Rūsiņš Freivalds, Marta Kwiatkowska, and David Peleg, editors, *Proceedings of the 40th International Colloquium on Automata, Languages and Programming, ICALP'2013, Part I (Riga, Latvia, July 8-12, 2013)*, volume 7965 of *LNCS*, pages 449–460. Springer-Verlag, Berlin-Heidelberg, 2013.

[39] Anna C. Gilbert, Hung Q. Ngo, Ely Porat, Atri Rudra, and Martin J. Strauss. ℓ_2/ℓ_2-foreach sparse recovery with low risk. In Fedor V. Fomin, Rūsiņš Freivalds, Marta Kwiatkowska, and David Peleg, editors, *Proceedings of the 40th International Colloquium on Automata, Languages and Programming, ICALP'2013, Part I (Riga, Latvia, July 8-12, 2013)*, volume 7965 of *LNCS*, pages 461–472. Springer-Verlag, Berlin-Heidelberg, 2013.

[40] Christian Glaßer, Dung T. Nguyen, Christian Reitwießner, Alan L. Selman, and Maximilian Witek. Autoreducibility of complete sets for log-space and polynomial-time reductions. In Fedor V. Fomin, Rūsiņš Freivalds, Marta Kwiatkowska, and David Peleg, editors, *Proceedings of the 40th International Colloquium on Automata, Languages and Programming, ICALP'2013, Part I (Riga, Latvia, July 8-12, 2013)*, volume 7965 of *LNCS*, pages 473–484. Springer-Verlag, Berlin-Heidelberg, 2013.

[41] Petr A. Golovach, Pinar Heggernes, Dieter Kratsch, and Yngve Villanger. An incremental polynomial time algorithm to enumerate all minimal edge dominating sets. In Fedor V. Fomin, Rūsiņš Freivalds, Marta Kwiatkowska, and David Peleg, editors, *Proceedings of the 40th International Colloquium on Automata, Languages and Programming, ICALP'2013, Part I (Riga, Latvia, July 8-12, 2013)*, volume 7965 of *LNCS*, pages 485–496. Springer-Verlag, Berlin-Heidelberg, 2013.

[42] Daniel Grier. Deciding the winner of an arbitrary finite poset game is pspace-complete. In Fedor V. Fomin, Rūsiņš Freivalds, Marta

Kwiatkowska, and David Peleg, editors, *Proceedings of the 40th International Colloquium on Automata, Languages and Programming, ICALP'2013, Part I (Riga, Latvia, July 8-12, 2013)*, volume 7965 of *LNCS*, pages 497–503. Springer-Verlag, Berlin-Heidelberg, 2013.

[43] Roberto Grossi, Rajeev Raman, Satti Srinivasa Rao, and Rossano Venturini. Dynamic compressed strings with random access. In Fedor V. Fomin, Rūsiņš Freivalds, Marta Kwiatkowska, and David Peleg, editors, *Proceedings of the 40th International Colloquium on Automata, Languages and Programming, ICALP'2013, Part I (Riga, Latvia, July 8-12, 2013)*, volume 7965 of *LNCS*, pages 504–515. Springer-Verlag, Berlin-Heidelberg, 2013.

[44] Heng Guo and Tyson Williams. The complexity of planar boolean #csp with complex weights. In Fedor V. Fomin, Rūsiņš Freivalds, Marta Kwiatkowska, and David Peleg, editors, *Proceedings of the 40th International Colloquium on Automata, Languages and Programming, ICALP'2013, Part I (Riga, Latvia, July 8-12, 2013)*, volume 7965 of *LNCS*, pages 516–527. Springer-Verlag, Berlin-Heidelberg, 2013.

[45] Tom Gur and Ran Raz. Arthur-merlin streaming complexity. In Fedor V. Fomin, Rūsiņš Freivalds, Marta Kwiatkowska, and David Peleg, editors, *Proceedings of the 40th International Colloquium on Automata, Languages and Programming, ICALP'2013, Part I (Riga, Latvia, July 8-12, 2013)*, volume 7965 of *LNCS*, pages 528–539. Springer-Verlag, Berlin-Heidelberg, 2013.

[46] Brett Hemenway, Rafail Ostrovsky, and Mary Wootters. Local correctability of expander codes. In Fedor V. Fomin, Rūsiņš Freivalds, Marta Kwiatkowska, and David Peleg, editors, *Proceedings of the 40th International Colloquium on Automata, Languages and Programming, ICALP'2013, Part I (Riga, Latvia, July 8-12, 2013)*, volume 7965 of *LNCS*, pages 540–551. Springer-Verlag, Berlin-Heidelberg, 2013.

[47] Martin Hirt and Pavel Raykov. On the complexity of broadcast setup. In Fedor V. Fomin, Rūsiņš Freivalds, Marta Kwiatkowska, and David Peleg, editors, *Proceedings of the 40th International Colloquium on Automata, Languages and Programming, ICALP'2013, Part I (Riga, Latvia, July 8-12, 2013)*, volume 7965 of *LNCS*, pages 552–563. Springer-Verlag, Berlin-Heidelberg, 2013.

[48] Piotr Indyk and Ilya Razenshteyn. On model-based rip-1 matrices. In Fedor V. Fomin, Rūsiņš Freivalds, Marta Kwiatkowska, and David Peleg, editors, *Proceedings of the 40th International Colloquium on Automata, Languages and Programming, ICALP'2013, Part I (Riga, Latvia, July 8-12, 2013)*, volume 7965 of *LNCS*, pages 564–575. Springer-Verlag, Berlin-Heidelberg, 2013.

[49] Yuval Ishai, Eyal Kushilevitz, Xin Li, Rafail Ostrovsky, Manoj Prabhakaran, Amit Sahai, and David Zuckerman. Robust pseudorandom generators. In Fedor V. Fomin, Rūsiņš Freivalds, Marta Kwiatkowska, and David Peleg, editors, *Proceedings of the 40th International Colloquium on Automata, Languages and Programming, ICALP'2013, Part I (Riga, Latvia, July 8-12, 2013)*, volume 7965 of *LNCS*, pages 576–588. Springer-Verlag, Berlin-Heidelberg, 2013.

[50] Klaus Jansen and Kim-Manuel Klein. A robust afptas for online bin packing with polynomial migration. In Fedor V. Fomin, Rūsiņš Freivalds, Marta Kwiatkowska, and David Peleg, editors, *Proceedings of the 40th International Colloquium on Automata, Languages and Programming, ICALP'2013, Part I (Riga, Latvia, July 8-12, 2013)*, volume 7965 of *LNCS*, pages 589–600. Springer-Verlag, Berlin-Heidelberg, 2013.

[51] Telikepalli Kavitha and Nithin M. Varma. Small stretch pairwise spanners. In Fedor V. Fomin, Rūsiņš Freivalds, Marta Kwiatkowska, and David Peleg, editors, *Proceedings of the 40th International Colloquium on Automata, Languages and Programming, ICALP'2013, Part I (Riga, Latvia, July 8-12, 2013)*, volume 7965 of *LNCS*, pages 601–612. Springer-Verlag, Berlin-Heidelberg, 2013.

[52] Eun Jung Kim, Alexander Langer, Christophe Paul, Felix Reidl, Peter Rossmanith, Ignasi Sau, and Somnath Sikdar. Linear kernels and single-exponential algorithms via protrusion decompositions. In Fedor V. Fomin, Rūsiņš Freivalds, Marta Kwiatkowska, and David Peleg, editors, *Proceedings of the 40th International Colloquium on Automata, Languages and Programming, ICALP'2013, Part I (Riga, Latvia, July 8-12, 2013)*, volume 7965 of *LNCS*, pages 613–624. Springer-Verlag, Berlin-Heidelberg, 2013.

[53] Vladimir Kolmogorov. The power of linear programming for finite-valued csps: A constructive characterization. In Fedor V. Fomin, Rūsiņš

Freivalds, Marta Kwiatkowska, and David Peleg, editors, *Proceedings of the 40th International Colloquium on Automata, Languages and Programming, ICALP'2013, Part I (Riga, Latvia, July 8-12, 2013)*, volume 7965 of *LNCS*, pages 625–636. Springer-Verlag, Berlin-Heidelberg, 2013.

[54] Christian Konrad and Adi Rosén. Approximating semi-matchings in streaming and in two-party communication. In Fedor V. Fomin, Rūsiņš Freivalds, Marta Kwiatkowska, and David Peleg, editors, *Proceedings of the 40th International Colloquium on Automata, Languages and Programming, ICALP'2013, Part I (Riga, Latvia, July 8-12, 2013)*, volume 7965 of *LNCS*, pages 637–649. Springer-Verlag, Berlin-Heidelberg, 2013.

[55] Gregory Kucherov and Yakov Nekrich. Full-fledged real-time indexing for constant size alphabets. In Fedor V. Fomin, Rūsiņš Freivalds, Marta Kwiatkowska, and David Peleg, editors, *Proceedings of the 40th International Colloquium on Automata, Languages and Programming, ICALP'2013, Part I (Riga, Latvia, July 8-12, 2013)*, volume 7965 of *LNCS*, pages 650–660. Springer-Verlag, Berlin-Heidelberg, 2013.

[56] Mrinal Kumar, Gaurav Maheshwari, and Jayalal Sarma M.N. Arithmetic circuit lower bounds via maxrank. In Fedor V. Fomin, Rūsiņš Freivalds, Marta Kwiatkowska, and David Peleg, editors, *Proceedings of the 40th International Colloquium on Automata, Languages and Programming, ICALP'2013, Part I (Riga, Latvia, July 8-12, 2013)*, volume 7965 of *LNCS*, pages 661–672. Springer-Verlag, Berlin-Heidelberg, 2013.

[57] Michael Lampis. Model checking lower bounds for simple graphs. In Fedor V. Fomin, Rūsiņš Freivalds, Marta Kwiatkowska, and David Peleg, editors, *Proceedings of the 40th International Colloquium on Automata, Languages and Programming, ICALP'2013, Part I (Riga, Latvia, July 8-12, 2013)*, volume 7965 of *LNCS*, pages 673–683. Springer-Verlag, Berlin-Heidelberg, 2013.

[58] Massimo Lauria, Pavel Pudlák, Vojtěch Rödl, and Neil Thapen. The complexity of proving that a graph is ramsey. In Fedor V. Fomin, Rūsiņš Freivalds, Marta Kwiatkowska, and David Peleg, editors, *Proceedings of the 40th International Colloquium on Automata, Languages and Programming, ICALP'2013, Part I (Riga, Latvia, July 8-12, 2013)*, volume 7965 of *LNCS*, pages 684–695. Springer-Verlag, Berlin-Heidelberg, 2013.

[59] Nikos Leonardos. An improved lower bound for the randomized decision tree complexity of recursive majority. In Fedor V. Fomin, Rūsiņš Freivalds, Marta Kwiatkowska, and David Peleg, editors, *Proceedings of the 40th International Colloquium on Automata, Languages and Programming, ICALP'2013, Part I (Riga, Latvia, July 8-12, 2013)*, volume 7965 of *LNCS*, pages 696–708. Springer-Verlag, Berlin-Heidelberg, 2013.

[60] Reut Levi and Dana Ron. A quasi-polynomial time partition oracle for graphs with an excluded minor. In Fedor V. Fomin, Rūsiņš Freivalds, Marta Kwiatkowska, and David Peleg, editors, *Proceedings of the 40th International Colloquium on Automata, Languages and Programming, ICALP'2013, Part I (Riga, Latvia, July 8-12, 2013)*, volume 7965 of *LNCS*, pages 709–720. Springer-Verlag, Berlin-Heidelberg, 2013.

[61] Dániel Marx and László A. Végh. Fixed-parameter algorithms for minimum cost edge-connectivity augmentation. In Fedor V. Fomin, Rūsiņš Freivalds, Marta Kwiatkowska, and David Peleg, editors, *Proceedings of the 40th International Colloquium on Automata, Languages and Programming, ICALP'2013, Part I (Riga, Latvia, July 8-12, 2013)*, volume 7965 of *LNCS*, pages 721–732. Springer-Verlag, Berlin-Heidelberg, 2013.

[62] Claire Mathieu and Hang Zhou. Graph reconstruction via distance oracles. In Fedor V. Fomin, Rūsiņš Freivalds, Marta Kwiatkowska, and David Peleg, editors, *Proceedings of the 40th International Colloquium on Automata, Languages and Programming, ICALP'2013, Part I (Riga, Latvia, July 8-12, 2013)*, volume 7965 of *LNCS*, pages 733–744. Springer-Verlag, Berlin-Heidelberg, 2013.

[63] Nicole Megow and José Verschae. Dual techniques for scheduling on a machine with varying speed. In Fedor V. Fomin, Rūsiņš Freivalds, Marta Kwiatkowska, and David Peleg, editors, *Proceedings of the 40th International Colloquium on Automata, Languages and Programming, ICALP'2013, Part I (Riga, Latvia, July 8-12, 2013)*, volume 7965 of *LNCS*, pages 745–756. Springer-Verlag, Berlin-Heidelberg, 2013.

[64] Gabriel Moruz and Andrei Negoescu. Improved space bounds for strongly competitive randomized paging algorithms. In Fedor V. Fomin, Rūsiņš Freivalds, Marta Kwiatkowska, and David Peleg, editors, *Proceedings of the 40th International Colloquium on Automata, Languages and Programming, ICALP'2013, Part I (Riga, Latvia, July 8-12,*

2013), volume 7965 of *LNCS*, pages 757–768. Springer-Verlag, Berlin-Heidelberg, 2013.

[65] Marcin Mucha and Maxim Sviridenko. No-wait flowshop scheduling is as hard as asymmetric traveling salesman problem. In Fedor V. Fomin, Rūsiņš Freivalds, Marta Kwiatkowska, and David Peleg, editors, *Proceedings of the 40th International Colloquium on Automata, Languages and Programming, ICALP'2013, Part I (Riga, Latvia, July 8-12, 2013)*, volume 7965 of *LNCS*, pages 769–779. Springer-Verlag, Berlin-Heidelberg, 2013.

[66] Ryan O'Donnell and Li-Yang Tan. A composition theorem for the fourier entropy-influence conjecture. In Fedor V. Fomin, Rūsiņš Freivalds, Marta Kwiatkowska, and David Peleg, editors, *Proceedings of the 40th International Colloquium on Automata, Languages and Programming, ICALP'2013, Part I (Riga, Latvia, July 8-12, 2013)*, volume 7965 of *LNCS*, pages 780–791. Springer-Verlag, Berlin-Heidelberg, 2013.

[67] Maxim Sviridenko and Justin Ward. Large neighborhood local search for the maximum set packing problem. In Fedor V. Fomin, Rūsiņš Freivalds, Marta Kwiatkowska, and David Peleg, editors, *Proceedings of the 40th International Colloquium on Automata, Languages and Programming, ICALP'2013, Part I (Riga, Latvia, July 8-12, 2013)*, volume 7965 of *LNCS*, pages 792–803. Springer-Verlag, Berlin-Heidelberg, 2013.

[68] Hannes Uppman. The complexity of three-element min-sol and conservative min-cost-hom. In Fedor V. Fomin, Rūsiņš Freivalds, Marta Kwiatkowska, and David Peleg, editors, *Proceedings of the 40th International Colloquium on Automata, Languages and Programming, ICALP'2013, Part I (Riga, Latvia, July 8-12, 2013)*, volume 7965 of *LNCS*, pages 804–815. Springer-Verlag, Berlin-Heidelberg, 2013.

[69] Yaron Velner. The complexity of infinitely repeated alternating move games. In Fedor V. Fomin, Rūsiņš Freivalds, Marta Kwiatkowska, and David Peleg, editors, *Proceedings of the 40th International Colloquium on Automata, Languages and Programming, ICALP'2013, Part I (Riga, Latvia, July 8-12, 2013)*, volume 7965 of *LNCS*, pages 816–827. Springer-Verlag, Berlin-Heidelberg, 2013.

[70] Oren Weimann and Raphael Yuster. Approximating the diameter of planar graphs in near linear time. In Fedor V. Fomin, Rūsiņš Freivalds, Marta Kwiatkowska, and David Peleg, editors, *Proceedings of the 40th International Colloquium on Automata, Languages and Programming, ICALP'2013, Part I (Riga, Latvia, July 8-12, 2013)*, volume 7965 of *LNCS*, pages 828–839. Springer-Verlag, Berlin-Heidelberg, 2013.

[71] Karl Wimmer and Yuichi Yoshida. Testing linear-invariant function isomorphism. In Fedor V. Fomin, Rūsiņš Freivalds, Marta Kwiatkowska, and David Peleg, editors, *Proceedings of the 40th International Colloquium on Automata, Languages and Programming, ICALP'2013, Part I (Riga, Latvia, July 8-12, 2013)*, volume 7965 of *LNCS*, pages 840–850. Springer-Verlag, Berlin-Heidelberg, 2013.