

References

- [1] Susanne Albers and Sonja Lauer. On list update with locality of reference. In Luca Aceto, Ivan Damgård, Leslie Ann Goldberg, Magnús M. Halldórsson, Anna Ingólfssdóttir, and Igor Walukiewicz, editors, *Proceedings of the 35th International Colloquium on Automata, Languages and Programming, ICALP'2008, Part I (Reykjavik, Iceland, July 7-11, 2008)*, volume 5125 of *LNCS*, pages 96–107. Springer-Verlag, Berlin-Heidelberg, 2008.
- [2] Noga Alon and Rani Hod. Optimal monotone encodings. In Luca Aceto, Ivan Damgård, Leslie Ann Goldberg, Magnús M. Halldórsson, Anna Ingólfssdóttir, and Igor Walukiewicz, editors, *Proceedings of the 35th International Colloquium on Automata, Languages and Programming, ICALP'2008, Part I (Reykjavik, Iceland, July 7-11, 2008)*, volume 5125 of *LNCS*, pages 258–270. Springer-Verlag, Berlin-Heidelberg, 2008.
- [3] Alexandr Andoni and Robert Krauthgamer. The smoothed complexity of edit distance. In Luca Aceto, Ivan Damgård, Leslie Ann Goldberg, Magnús M. Halldórsson, Anna Ingólfssdóttir, and Igor Walukiewicz, editors, *Proceedings of the 35th International Colloquium on Automata, Languages and Programming, ICALP'2008, Part I (Reykjavik, Iceland, July 7-11, 2008)*, volume 5125 of *LNCS*, pages 357–369. Springer-Verlag, Berlin-Heidelberg, 2008.
- [4] Chen Avin, Michal Koucký, and Zvi Lotker. How to explore a fast-changing world (cover time of a simple random walk on evolving graphs). In Luca Aceto, Ivan Damgård, Leslie Ann Goldberg, Magnús M. Halldórsson, Anna Ingólfssdóttir, and Igor Walukiewicz, editors, *Proceedings of the 35th International Colloquium on Automata, Languages and Programming, ICALP'2008, Part I (Reykjavik, Iceland, July 7-11, 2008)*, volume 5125 of *LNCS*, pages 121–132. Springer-Verlag, Berlin-Heidelberg, 2008.
- [5] Yossi Azar, Benjamin Birnbaum, Anna R. Karlin, Claire Mathieu, and C. Thach Nguyen. Improved approximation algorithms for budgeted allocations. In Luca Aceto, Ivan Damgård, Leslie Ann Goldberg, Magnús M. Halldórsson, Anna Ingólfssdóttir, and Igor Walukiewicz, editors, *Proceedings of the 35th International Colloquium on Automata,*

- Languages and Programming, ICALP'2008, Part I (Reykjavik, Iceland, July 7-11, 2008)*, volume 5125 of *LNCS*, pages 186–197. Springer-Verlag, Berlin-Heidelberg, 2008.
- [6] Yossi Azar and Iftah Gamzu. Truthful unification framework for packing integer programs with choices. In Luca Aceto, Ivan Damgård, Leslie Ann Goldberg, Magnús M. Halldórsson, Anna Ingólfssdóttir, and Igor Walukiewicz, editors, *Proceedings of the 35th International Colloquium on Automata, Languages and Programming, ICALP'2008, Part I (Reykjavik, Iceland, July 7-11, 2008)*, volume 5125 of *LNCS*, pages 833–844. Springer-Verlag, Berlin-Heidelberg, 2008.
- [7] Nikhil Bansal, Ho-Leung Chan, Tak-Wah Lam, and Lap-Kei Lee. Scheduling for speed bounded processors. In Luca Aceto, Ivan Damgård, Leslie Ann Goldberg, Magnús M. Halldórsson, Anna Ingólfssdóttir, and Igor Walukiewicz, editors, *Proceedings of the 35th International Colloquium on Automata, Languages and Programming, ICALP'2008, Part I (Reykjavik, Iceland, July 7-11, 2008)*, volume 5125 of *LNCS*, pages 409–420. Springer-Verlag, Berlin-Heidelberg, 2008.
- [8] Surender Baswana, Akshay Gaur, Sandeep Sen, and Jayant Upadhyay. Distance oracles for unweighted graphs: Breaking the quadratic barrier with constant additive error. In Luca Aceto, Ivan Damgård, Leslie Ann Goldberg, Magnús M. Halldórsson, Anna Ingólfssdóttir, and Igor Walukiewicz, editors, *Proceedings of the 35th International Colloquium on Automata, Languages and Programming, ICALP'2008, Part I (Reykjavik, Iceland, July 7-11, 2008)*, volume 5125 of *LNCS*, pages 609–621. Springer-Verlag, Berlin-Heidelberg, 2008.
- [9] Eli Ben-Sasson, Prahladh Harsha, Oded Lachish, and Arie Mat-siah. Sound 3-query pcpps are long. In Luca Aceto, Ivan Damgård, Leslie Ann Goldberg, Magnús M. Halldórsson, Anna Ingólfssdóttir, and Igor Walukiewicz, editors, *Proceedings of the 35th International Colloquium on Automata, Languages and Programming, ICALP'2008, Part I (Reykjavik, Iceland, July 7-11, 2008)*, volume 5125 of *LNCS*, pages 686–697. Springer-Verlag, Berlin-Heidelberg, 2008.
- [10] Andreas Björklund, Thore Husfeldt, Petteri Kaski, and Mikko Koivisto. The travelling salesman problem in bounded degree graphs. In Luca

- Aceto, Ivan Damgård, Leslie Ann Goldberg, Magnús M. Halldórsson, Anna Ingólfssdóttir, and Igor Walukiewicz, editors, *Proceedings of the 35th International Colloquium on Automata, Languages and Programming, ICALP'2008, Part I (Reykjavik, Iceland, July 7-11, 2008)*, volume 5125 of *LNCS*, pages 198–209. Springer-Verlag, Berlin-Heidelberg, 2008.
- [11] Markus Bläser, Moritz Hardt, and David Steurer. Asymptotically optimal hitting sets against polynomials. In Luca Aceto, Ivan Damgård, Leslie Ann Goldberg, Magnús M. Halldórsson, Anna Ingólfssdóttir, and Igor Walukiewicz, editors, *Proceedings of the 35th International Colloquium on Automata, Languages and Programming, ICALP'2008, Part I (Reykjavik, Iceland, July 7-11, 2008)*, volume 5125 of *LNCS*, pages 345–356. Springer-Verlag, Berlin-Heidelberg, 2008.
- [12] Guy E. Blelloch, Virginia Vassilevska, and Ryan Williams. A new combinatorial approach for sparse graph problems. In Luca Aceto, Ivan Damgård, Leslie Ann Goldberg, Magnús M. Halldórsson, Anna Ingólfssdóttir, and Igor Walukiewicz, editors, *Proceedings of the 35th International Colloquium on Automata, Languages and Programming, ICALP'2008, Part I (Reykjavik, Iceland, July 7-11, 2008)*, volume 5125 of *LNCS*, pages 108–120. Springer-Verlag, Berlin-Heidelberg, 2008.
- [13] Hans L. Bodlaender, Rodney G. Downey, Michael R. Fellows, and Danny Hermelin. On problems without polynomial kernels. In Luca Aceto, Ivan Damgård, Leslie Ann Goldberg, Magnús M. Halldórsson, Anna Ingólfssdóttir, and Igor Walukiewicz, editors, *Proceedings of the 35th International Colloquium on Automata, Languages and Programming, ICALP'2008, Part I (Reykjavik, Iceland, July 7-11, 2008)*, volume 5125 of *LNCS*, pages 563–574. Springer-Verlag, Berlin-Heidelberg, 2008.
- [14] Endre Boros, Khaled Elbassioni, and Kazuhisa Makino. On berge multiplication for monotone boolean dualization. In Luca Aceto, Ivan Damgård, Leslie Ann Goldberg, Magnús M. Halldórsson, Anna Ingólfssdóttir, and Igor Walukiewicz, editors, *Proceedings of the 35th International Colloquium on Automata, Languages and Programming, ICALP'2008, Part I (Reykjavik, Iceland, July 7-11, 2008)*, volume 5125 of *LNCS*, pages 48–59. Springer-Verlag, Berlin-Heidelberg, 2008.
- [15] Glencora Borradaile and Philip Klein. The two-edge connectivity survivable network problem in planar graphs. In Luca Aceto, Ivan Damgård,

- Leslie Ann Goldberg, Magnús M. Halldórsson, Anna Ingólfssdóttir, and Igor Walukiewicz, editors, *Proceedings of the 35th International Colloquium on Automata, Languages and Programming, ICALP'2008, Part I (Reykjavik, Iceland, July 7-11, 2008)*, volume 5125 of *LNCS*, pages 485–501. Springer-Verlag, Berlin-Heidelberg, 2008.
- [16] Patrick Briest. Uniform budgets and the envy-free pricing problem. In Luca Aceto, Ivan Damgård, Leslie Ann Goldberg, Magnús M. Halldórsson, Anna Ingólfssdóttir, and Igor Walukiewicz, editors, *Proceedings of the 35th International Colloquium on Automata, Languages and Programming, ICALP'2008, Part I (Reykjavik, Iceland, July 7-11, 2008)*, volume 5125 of *LNCS*, pages 808–819. Springer-Verlag, Berlin-Heidelberg, 2008.
- [17] David Buchfuhrer and Christopher Umans. The complexity of boolean formula minimization. In Luca Aceto, Ivan Damgård, Leslie Ann Goldberg, Magnús M. Halldórsson, Anna Ingólfssdóttir, and Igor Walukiewicz, editors, *Proceedings of the 35th International Colloquium on Automata, Languages and Programming, ICALP'2008, Part I (Reykjavik, Iceland, July 7-11, 2008)*, volume 5125 of *LNCS*, pages 24–35. Springer-Verlag, Berlin-Heidelberg, 2008.
- [18] Andrei A. Bulatov. The complexity of the counting constraint satisfaction problem. In Luca Aceto, Ivan Damgård, Leslie Ann Goldberg, Magnús M. Halldórsson, Anna Ingólfssdóttir, and Igor Walukiewicz, editors, *Proceedings of the 35th International Colloquium on Automata, Languages and Programming, ICALP'2008, Part I (Reykjavik, Iceland, July 7-11, 2008)*, volume 5125 of *LNCS*, pages 646–661. Springer-Verlag, Berlin-Heidelberg, 2008.
- [19] Augustin Chaintreau, Pierre Fraigniaud, and Emmanuelle Lebhar. Networks become navigable as nodes move and forget. In Luca Aceto, Ivan Damgård, Leslie Ann Goldberg, Magnús M. Halldórsson, Anna Ingólfssdóttir, and Igor Walukiewicz, editors, *Proceedings of the 35th International Colloquium on Automata, Languages and Programming, ICALP'2008, Part I (Reykjavik, Iceland, July 7-11, 2008)*, volume 5125 of *LNCS*, pages 133–144. Springer-Verlag, Berlin-Heidelberg, 2008.
- [20] Prasad Chebolu, Alan Frieze, and Páll Melsted. Finding a maximum matching in a sparse random graph in $o(n)$ expected time. In Luca

- Aceto, Ivan Damgård, Leslie Ann Goldberg, Magnús M. Halldórsson, Anna Ingólfssdóttir, and Igor Walukiewicz, editors, *Proceedings of the 35th International Colloquium on Automata, Languages and Programming, ICALP'2008, Part I (Reykjavik, Iceland, July 7-11, 2008)*, volume 5125 of *LNCS*, pages 161–172. Springer-Verlag, Berlin-Heidelberg, 2008.
- [21] Chandra Chekuri and Sanjeev Khanna. Algorithms for 2-route cut problems. In Luca Aceto, Ivan Damgård, Leslie Ann Goldberg, Magnús M. Halldórsson, Anna Ingólfssdóttir, and Igor Walukiewicz, editors, *Proceedings of the 35th International Colloquium on Automata, Languages and Programming, ICALP'2008, Part I (Reykjavik, Iceland, July 7-11, 2008)*, volume 5125 of *LNCS*, pages 472–484. Springer-Verlag, Berlin-Heidelberg, 2008.
- [22] Yijia Chen, Marc Thurley, and Mark Weyer. Understanding the complexity of induced subgraph isomorphisms. In Luca Aceto, Ivan Damgård, Leslie Ann Goldberg, Magnús M. Halldórsson, Anna Ingólfssdóttir, and Igor Walukiewicz, editors, *Proceedings of the 35th International Colloquium on Automata, Languages and Programming, ICALP'2008, Part I (Reykjavik, Iceland, July 7-11, 2008)*, volume 5125 of *LNCS*, pages 587–596. Springer-Verlag, Berlin-Heidelberg, 2008.
- [23] Qi Cheng and Daqing Wan. Complexity of decoding positive-rate reed-solomon codes. In Luca Aceto, Ivan Damgård, Leslie Ann Goldberg, Magnús M. Halldórsson, Anna Ingólfssdóttir, and Igor Walukiewicz, editors, *Proceedings of the 35th International Colloquium on Automata, Languages and Programming, ICALP'2008, Part I (Reykjavik, Iceland, July 7-11, 2008)*, volume 5125 of *LNCS*, pages 283–293. Springer-Verlag, Berlin-Heidelberg, 2008.
- [24] Flavio Chierichetti and Andrea Vattani. The local nature of list colorings for graphs of high girth. In Luca Aceto, Ivan Damgård, Leslie Ann Goldberg, Magnús M. Halldórsson, Anna Ingólfssdóttir, and Igor Walukiewicz, editors, *Proceedings of the 35th International Colloquium on Automata, Languages and Programming, ICALP'2008, Part I (Reykjavik, Iceland, July 7-11, 2008)*, volume 5125 of *LNCS*, pages 320–332. Springer-Verlag, Berlin-Heidelberg, 2008.
- [25] Andrew M. Childs and Troy Lee. Optimal quantum adversary lower bounds for ordered search. In Luca Aceto, Ivan Damgård,

- Leslie Ann Goldberg, Magnús M. Halldórsson, Anna Ingólfssdóttir, and Igor Walukiewicz, editors, *Proceedings of the 35th International Colloquium on Automata, Languages and Programming, ICALP'2008, Part I (Reykjavik, Iceland, July 7-11, 2008)*, volume 5125 of *LNCS*, pages 869–880. Springer-Verlag, Berlin-Heidelberg, 2008.
- [26] George Christodoulou, Annamária Kovács, and Michael Schapira. Bayesian combinatorial auctions. In Luca Aceto, Ivan Damgård, Leslie Ann Goldberg, Magnús M. Halldórsson, Anna Ingólfssdóttir, and Igor Walukiewicz, editors, *Proceedings of the 35th International Colloquium on Automata, Languages and Programming, ICALP'2008, Part I (Reykjavik, Iceland, July 7-11, 2008)*, volume 5125 of *LNCS*, pages 820–832. Springer-Verlag, Berlin-Heidelberg, 2008.
- [27] Ferdinando Cicalese and Eduardo Sany Laber. Function evaluation via linear programming in the priced information model. In Luca Aceto, Ivan Damgård, Leslie Ann Goldberg, Magnús M. Halldórsson, Anna Ingólfssdóttir, and Igor Walukiewicz, editors, *Proceedings of the 35th International Colloquium on Automata, Languages and Programming, ICALP'2008, Part I (Reykjavik, Iceland, July 7-11, 2008)*, volume 5125 of *LNCS*, pages 173–185. Springer-Verlag, Berlin-Heidelberg, 2008.
- [28] Bruno Courcelle. Graph structure and monadic second-order logic: Language theoretical aspects. In Luca Aceto, Ivan Damgård, Leslie Ann Goldberg, Magnús M. Halldórsson, Anna Ingólfssdóttir, and Igor Walukiewicz, editors, *Proceedings of the 35th International Colloquium on Automata, Languages and Programming, ICALP'2008, Part I (Reykjavik, Iceland, July 7-11, 2008)*, volume 5125 of *LNCS*, pages 1–13. Springer-Verlag, Berlin-Heidelberg, 2008.
- [29] Dana Dachman-Soled, Homin K. Lee, Tal Malkin, Rocco A. Servedio, Andrew Wan, and Hoeteck Wee. Optimal cryptographic hardness of learning monotone functions. In Luca Aceto, Ivan Damgård, Leslie Ann Goldberg, Magnús M. Halldórsson, Anna Ingólfssdóttir, and Igor Walukiewicz, editors, *Proceedings of the 35th International Colloquium on Automata, Languages and Programming, ICALP'2008, Part I (Reykjavik, Iceland, July 7-11, 2008)*, volume 5125 of *LNCS*, pages 36–47. Springer-Verlag, Berlin-Heidelberg, 2008.

- [30] Ilias Diakonikolas, Homin K. Lee, Kevin Matulef, Rocco A. Servedio, and Andrew Wan. Efficiently testing sparse $gf(2)$ polynomials. In Luca Aceto, Ivan Damgård, Leslie Ann Goldberg, Magnús M. Halldórsson, Anna Ingólfssdóttir, and Igor Walukiewicz, editors, *Proceedings of the 35th International Colloquium on Automata, Languages and Programming, ICALP'2008, Part I (Reykjavik, Iceland, July 7-11, 2008)*, volume 5125 of *LNCS*, pages 502–514. Springer-Verlag, Berlin-Heidelberg, 2008.
- [31] Martin Dietzfelbinger and Rasmus Pagh. Succinct data structures for retrieval and approximate membership. In Luca Aceto, Ivan Damgård, Leslie Ann Goldberg, Magnús M. Halldórsson, Anna Ingólfssdóttir, and Igor Walukiewicz, editors, *Proceedings of the 35th International Colloquium on Automata, Languages and Programming, ICALP'2008, Part I (Reykjavik, Iceland, July 7-11, 2008)*, volume 5125 of *LNCS*, pages 385–396. Springer-Verlag, Berlin-Heidelberg, 2008.
- [32] Nediialko B. Dimitrov and C. Greg Plaxton. Competitive weighted matching in transversal matroids. In Luca Aceto, Ivan Damgård, Leslie Ann Goldberg, Magnús M. Halldórsson, Anna Ingólfssdóttir, and Igor Walukiewicz, editors, *Proceedings of the 35th International Colloquium on Automata, Languages and Programming, ICALP'2008, Part I (Reykjavik, Iceland, July 7-11, 2008)*, volume 5125 of *LNCS*, pages 397–408. Springer-Verlag, Berlin-Heidelberg, 2008.
- [33] Feodor F. Dragan, Fedor V. Fomin, and Petr A. Golovach. Spanners in sparse graphs. In Luca Aceto, Ivan Damgård, Leslie Ann Goldberg, Magnús M. Halldórsson, Anna Ingólfssdóttir, and Igor Walukiewicz, editors, *Proceedings of the 35th International Colloquium on Automata, Languages and Programming, ICALP'2008, Part I (Reykjavik, Iceland, July 7-11, 2008)*, volume 5125 of *LNCS*, pages 597–608. Springer-Verlag, Berlin-Heidelberg, 2008.
- [34] Friedrich Eisenbrand and Thomas Rothvoß. A ptas for static priority real-time scheduling with resource augmentation. In Luca Aceto, Ivan Damgård, Leslie Ann Goldberg, Magnús M. Halldórsson, Anna Ingólfssdóttir, and Igor Walukiewicz, editors, *Proceedings of the 35th International Colloquium on Automata, Languages and Programming, ICALP'2008, Part I (Reykjavik, Iceland, July 7-11, 2008)*, volume 5125 of *LNCS*, pages 246–257. Springer-Verlag, Berlin-Heidelberg, 2008.

- [35] Lior Eldar and Oded Regev. Quantum sat for a qutrit-cinqut pair is qma_1 -complete. In Luca Aceto, Ivan Damgård, Leslie Ann Goldberg, Magnús M. Halldórsson, Anna Ingólfssdóttir, and Igor Walukiewicz, editors, *Proceedings of the 35th International Colloquium on Automata, Languages and Programming, ICALP'2008, Part I (Reykjavik, Iceland, July 7-11, 2008)*, volume 5125 of *LNCS*, pages 881–892. Springer-Verlag, Berlin-Heidelberg, 2008.
- [36] Javier Esparza, Thomas Gawlitza, Stefan Kiefer, and Helmut Seidl. Approximative methods for monotone systems of min-max-polynomial equations. In Luca Aceto, Ivan Damgård, Leslie Ann Goldberg, Magnús M. Halldórsson, Anna Ingólfssdóttir, and Igor Walukiewicz, editors, *Proceedings of the 35th International Colloquium on Automata, Languages and Programming, ICALP'2008, Part I (Reykjavik, Iceland, July 7-11, 2008)*, volume 5125 of *LNCS*, pages 698–710. Springer-Verlag, Berlin-Heidelberg, 2008.
- [37] Kousha Etessami, Dominik Wojtczak, and Mihalis Yannakakis. Recursive stochastic games with positive rewards. In Luca Aceto, Ivan Damgård, Leslie Ann Goldberg, Magnús M. Halldórsson, Anna Ingólfssdóttir, and Igor Walukiewicz, editors, *Proceedings of the 35th International Colloquium on Automata, Languages and Programming, ICALP'2008, Part I (Reykjavik, Iceland, July 7-11, 2008)*, volume 5125 of *LNCS*, pages 711–723. Springer-Verlag, Berlin-Heidelberg, 2008.
- [38] Angelo Fanelli, Michele Flammini, and Luca Moscardelli. The speed of convergence in congestion games under best-response dynamics. In Luca Aceto, Ivan Damgård, Leslie Ann Goldberg, Magnús M. Halldórsson, Anna Ingólfssdóttir, and Igor Walukiewicz, editors, *Proceedings of the 35th International Colloquium on Automata, Languages and Programming, ICALP'2008, Part I (Reykjavik, Iceland, July 7-11, 2008)*, volume 5125 of *LNCS*, pages 796–807. Springer-Verlag, Berlin-Heidelberg, 2008.
- [39] Jiří Fiala, Petr A. Golovach, and Jan Kratochvíl. Computational complexity of the distance constrained labeling problem for trees. In Luca Aceto, Ivan Damgård, Leslie Ann Goldberg, Magnús M. Halldórsson, Anna Ingólfssdóttir, and Igor Walukiewicz, editors, *Proceedings of the 35th International Colloquium on Automata, Languages and Program-*

- ming, *ICALP'2008, Part I (Reykjavik, Iceland, July 7-11, 2008)*, volume 5125 of *LNCS*, pages 294–305. Springer-Verlag, Berlin-Heidelberg, 2008.
- [40] Fedor V. Fomin and Yngve Villanger. Treewidth computation and extremal combinatorics. In Luca Aceto, Ivan Damgård, Leslie Ann Goldberg, Magnús M. Halldórsson, Anna Ingólfssdóttir, and Igor Walukiewicz, editors, *Proceedings of the 35th International Colloquium on Automata, Languages and Programming, ICALP'2008, Part I (Reykjavik, Iceland, July 7-11, 2008)*, volume 5125 of *LNCS*, pages 210–221. Springer-Verlag, Berlin-Heidelberg, 2008.
- [41] Gudmund Skovbjerg Frandsen and Piotr Sankowski. Dynamic normal forms and dynamic characteristic polynomial. In Luca Aceto, Ivan Damgård, Leslie Ann Goldberg, Magnús M. Halldórsson, Anna Ingólfssdóttir, and Igor Walukiewicz, editors, *Proceedings of the 35th International Colloquium on Automata, Languages and Programming, ICALP'2008, Part I (Reykjavik, Iceland, July 7-11, 2008)*, volume 5125 of *LNCS*, pages 434–446. Springer-Verlag, Berlin-Heidelberg, 2008.
- [42] Gianluigi Greco and Francesco Scarcello. Tree projections: Hypergraph games and minimality. In Luca Aceto, Ivan Damgård, Leslie Ann Goldberg, Magnús M. Halldórsson, Anna Ingólfssdóttir, and Igor Walukiewicz, editors, *Proceedings of the 35th International Colloquium on Automata, Languages and Programming, ICALP'2008, Part I (Reykjavik, Iceland, July 7-11, 2008)*, volume 5125 of *LNCS*, pages 736–747. Springer-Verlag, Berlin-Heidelberg, 2008.
- [43] Sudipto Guha and Andrew McGregor. Tight lower bounds for multi-pass stream computation via pass elimination. In Luca Aceto, Ivan Damgård, Leslie Ann Goldberg, Magnús M. Halldórsson, Anna Ingólfssdóttir, and Igor Walukiewicz, editors, *Proceedings of the 35th International Colloquium on Automata, Languages and Programming, ICALP'2008, Part I (Reykjavik, Iceland, July 7-11, 2008)*, volume 5125 of *LNCS*, pages 760–772. Springer-Verlag, Berlin-Heidelberg, 2008.
- [44] Bernhard Haeupler, Telikepalli Kavitha, Rogers Mathew, Siddhartha Sen, and Robert E. Tarjan. Faster algorithms for incremental topological ordering. In Luca Aceto, Ivan Damgård, Leslie Ann Goldberg, Magnús M. Halldórsson, Anna Ingólfssdóttir, and Igor Walukiewicz, editors, *Proceedings of the 35th International Colloquium on Automata,*

Languages and Programming, ICALP'2008, Part I (Reykjavik, Iceland, July 7-11, 2008), volume 5125 of *LNCS*, pages 421–433. Springer-Verlag, Berlin-Heidelberg, 2008.

- [45] Sean Hallgren and Aram W. Harrow. Superpolynomial speedups based on almost any quantum circuit. In Luca Aceto, Ivan Damgård, Leslie Ann Goldberg, Magnús M. Halldórsson, Anna Ingólfssdóttir, and Igor Walukiewicz, editors, *Proceedings of the 35th International Colloquium on Automata, Languages and Programming, ICALP'2008, Part I (Reykjavik, Iceland, July 7-11, 2008)*, volume 5125 of *LNCS*, pages 782–795. Springer-Verlag, Berlin-Heidelberg, 2008.
- [46] Kazuo Iwama, Harumichi Nishimura, Mike Paterson, Rudy Raymond, and Shigeru Yamashita. Polynomial-time construction of linear network coding. In Luca Aceto, Ivan Damgård, Leslie Ann Goldberg, Magnús M. Halldórsson, Anna Ingólfssdóttir, and Igor Walukiewicz, editors, *Proceedings of the 35th International Colloquium on Automata, Languages and Programming, ICALP'2008, Part I (Reykjavik, Iceland, July 7-11, 2008)*, volume 5125 of *LNCS*, pages 271–282. Springer-Verlag, Berlin-Heidelberg, 2008.
- [47] Klaus Jansen and Ralf Thöle. Approximation algorithms for scheduling parallel jobs: Breaking the approximation ratio of 2. In Luca Aceto, Ivan Damgård, Leslie Ann Goldberg, Magnús M. Halldórsson, Anna Ingólfssdóttir, and Igor Walukiewicz, editors, *Proceedings of the 35th International Colloquium on Automata, Languages and Programming, ICALP'2008, Part I (Reykjavik, Iceland, July 7-11, 2008)*, volume 5125 of *LNCS*, pages 234–245. Springer-Verlag, Berlin-Heidelberg, 2008.
- [48] Detlef Kähler and Thomas Wilke. Complementation, disambiguation, and determinization of büchi automata unified. In Luca Aceto, Ivan Damgård, Leslie Ann Goldberg, Magnús M. Halldórsson, Anna Ingólfssdóttir, and Igor Walukiewicz, editors, *Proceedings of the 35th International Colloquium on Automata, Languages and Programming, ICALP'2008, Part I (Reykjavik, Iceland, July 7-11, 2008)*, volume 5125 of *LNCS*, pages 724–735. Springer-Verlag, Berlin-Heidelberg, 2008.
- [49] Satyen Kale and C. Seshadhri. An expansion tester for bounded degree graphs. In Luca Aceto, Ivan Damgård, Leslie Ann Goldberg, Magnús M.

- Halldórsson, Anna Ingólfssdóttir, and Igor Walukiewicz, editors, *Proceedings of the 35th International Colloquium on Automata, Languages and Programming, ICALP'2008, Part I (Reykjavik, Iceland, July 7-11, 2008)*, volume 5125 of *LNCS*, pages 527–538. Springer-Verlag, Berlin-Heidelberg, 2008.
- [50] Ming-Yang Kao and Robert Schweller. Randomized self-assembly for approximate shapes. In Luca Aceto, Ivan Damgård, Leslie Ann Goldberg, Magnús M. Halldórsson, Anna Ingólfssdóttir, and Igor Walukiewicz, editors, *Proceedings of the 35th International Colloquium on Automata, Languages and Programming, ICALP'2008, Part I (Reykjavik, Iceland, July 7-11, 2008)*, volume 5125 of *LNCS*, pages 370–384. Springer-Verlag, Berlin-Heidelberg, 2008.
- [51] Ken-ichi Kawarabayashi. Approximating list-coloring on a fixed surface. In Luca Aceto, Ivan Damgård, Leslie Ann Goldberg, Magnús M. Halldórsson, Anna Ingólfssdóttir, and Igor Walukiewicz, editors, *Proceedings of the 35th International Colloquium on Automata, Languages and Programming, ICALP'2008, Part I (Reykjavik, Iceland, July 7-11, 2008)*, volume 5125 of *LNCS*, pages 333–344. Springer-Verlag, Berlin-Heidelberg, 2008.
- [52] Julia Kempe, Oded Regev, Falk Unger, and Ronald de Wolf. Upper bounds on the noise threshold for fault-tolerant quantum computing. In Luca Aceto, Ivan Damgård, Leslie Ann Goldberg, Magnús M. Halldórsson, Anna Ingólfssdóttir, and Igor Walukiewicz, editors, *Proceedings of the 35th International Colloquium on Automata, Languages and Programming, ICALP'2008, Part I (Reykjavik, Iceland, July 7-11, 2008)*, volume 5125 of *LNCS*, pages 845–856. Springer-Verlag, Berlin-Heidelberg, 2008.
- [53] Ioannis Koutis. Faster algebraic algorithms for path and packing problems. In Luca Aceto, Ivan Damgård, Leslie Ann Goldberg, Magnús M. Halldórsson, Anna Ingólfssdóttir, and Igor Walukiewicz, editors, *Proceedings of the 35th International Colloquium on Automata, Languages and Programming, ICALP'2008, Part I (Reykjavik, Iceland, July 7-11, 2008)*, volume 5125 of *LNCS*, pages 575–586. Springer-Verlag, Berlin-Heidelberg, 2008.

- [54] Andrei Krokhin and Dániel Marx. On the hardness of losing weight. In Luca Aceto, Ivan Damgård, Leslie Ann Goldberg, Magnús M. Halldórsson, Anna Ingólfssdóttir, and Igor Walukiewicz, editors, *Proceedings of the 35th International Colloquium on Automata, Languages and Programming, ICALP'2008, Part I (Reykjavik, Iceland, July 7-11, 2008)*, volume 5125 of *LNCS*, pages 662–673. Springer-Verlag, Berlin-Heidelberg, 2008.
- [55] Eduardo Laber and Marco Molinaro. An approximation algorithm for binary searching in trees. In Luca Aceto, Ivan Damgård, Leslie Ann Goldberg, Magnús M. Halldórsson, Anna Ingólfssdóttir, and Igor Walukiewicz, editors, *Proceedings of the 35th International Colloquium on Automata, Languages and Programming, ICALP'2008, Part I (Reykjavik, Iceland, July 7-11, 2008)*, volume 5125 of *LNCS*, pages 459–471. Springer-Verlag, Berlin-Heidelberg, 2008.
- [56] Troy Lee and Rajat Mittal. Product theorems via semidefinite programming. In Luca Aceto, Ivan Damgård, Leslie Ann Goldberg, Magnús M. Halldórsson, Anna Ingólfssdóttir, and Igor Walukiewicz, editors, *Proceedings of the 35th International Colloquium on Automata, Languages and Programming, ICALP'2008, Part I (Reykjavik, Iceland, July 7-11, 2008)*, volume 5125 of *LNCS*, pages 674–685. Springer-Verlag, Berlin-Heidelberg, 2008.
- [57] Mehdi Mhalla and Simon Perdrix. Finding optimal flows efficiently. In Luca Aceto, Ivan Damgård, Leslie Ann Goldberg, Magnús M. Halldórsson, Anna Ingólfssdóttir, and Igor Walukiewicz, editors, *Proceedings of the 35th International Colloquium on Automata, Languages and Programming, ICALP'2008, Part I (Reykjavik, Iceland, July 7-11, 2008)*, volume 5125 of *LNCS*, pages 857–868. Springer-Verlag, Berlin-Heidelberg, 2008.
- [58] S. Muthukrishnan. Internet ad auctions: Insights and directions. In Luca Aceto, Ivan Damgård, Leslie Ann Goldberg, Magnús M. Halldórsson, Anna Ingólfssdóttir, and Igor Walukiewicz, editors, *Proceedings of the 35th International Colloquium on Automata, Languages and Programming, ICALP'2008, Part I (Reykjavik, Iceland, July 7-11, 2008)*, volume 5125 of *LNCS*, pages 14–23. Springer-Verlag, Berlin-Heidelberg, 2008.

- [59] Krzysztof Onak. Testing properties of sets of points in metric spaces. In Luca Aceto, Ivan Damgård, Leslie Ann Goldberg, Magnús M. Halldórsson, Anna Ingólfssdóttir, and Igor Walukiewicz, editors, *Proceedings of the 35th International Colloquium on Automata, Languages and Programming, ICALP'2008, Part I (Reykjavik, Iceland, July 7-11, 2008)*, volume 5125 of *LNCS*, pages 515–526. Springer-Verlag, Berlin-Heidelberg, 2008.
- [60] Sriram Pemmaraju and Aravind Srinivasan. The randomized coloring procedure with symmetry-breaking. In Luca Aceto, Ivan Damgård, Leslie Ann Goldberg, Magnús M. Halldórsson, Anna Ingólfssdóttir, and Igor Walukiewicz, editors, *Proceedings of the 35th International Colloquium on Automata, Languages and Programming, ICALP'2008, Part I (Reykjavik, Iceland, July 7-11, 2008)*, volume 5125 of *LNCS*, pages 306–319. Springer-Verlag, Berlin-Heidelberg, 2008.
- [61] Jeff M. Phillips. Algorithms for ϵ -approximations of terrains. In Luca Aceto, Ivan Damgård, Leslie Ann Goldberg, Magnús M. Halldórsson, Anna Ingólfssdóttir, and Igor Walukiewicz, editors, *Proceedings of the 35th International Colloquium on Automata, Languages and Programming, ICALP'2008, Part I (Reykjavik, Iceland, July 7-11, 2008)*, volume 5125 of *LNCS*, pages 447–458. Springer-Verlag, Berlin-Heidelberg, 2008.
- [62] C. Greg Plaxton. Fast scheduling of weighted unit jobs with release times and deadlines. In Luca Aceto, Ivan Damgård, Leslie Ann Goldberg, Magnús M. Halldórsson, Anna Ingólfssdóttir, and Igor Walukiewicz, editors, *Proceedings of the 35th International Colloquium on Automata, Languages and Programming, ICALP'2008, Part I (Reykjavik, Iceland, July 7-11, 2008)*, volume 5125 of *LNCS*, pages 222–233. Springer-Verlag, Berlin-Heidelberg, 2008.
- [63] Ely Porat and Amir Rothschild. Explicit non-adaptive combinatorial group testing schemes. In Luca Aceto, Ivan Damgård, Leslie Ann Goldberg, Magnús M. Halldórsson, Anna Ingólfssdóttir, and Igor Walukiewicz, editors, *Proceedings of the 35th International Colloquium on Automata, Languages and Programming, ICALP'2008, Part I (Reykjavik, Iceland, July 7-11, 2008)*, volume 5125 of *LNCS*, pages 748–759. Springer-Verlag, Berlin-Heidelberg, 2008.

- [64] David Pritchard. Fast distributed computation of cuts via random circulations. In Luca Aceto, Ivan Damgård, Leslie Ann Goldberg, Magnús M. Halldórsson, Anna Ingólfssdóttir, and Igor Walukiewicz, editors, *Proceedings of the 35th International Colloquium on Automata, Languages and Programming, ICALP'2008, Part I (Reykjavik, Iceland, July 7-11, 2008)*, volume 5125 of *LNCS*, pages 145–160. Springer-Verlag, Berlin-Heidelberg, 2008.
- [65] Igor Razgon and Barry O’Sullivan. Almost 2-sat is fixed-parameter tractable. In Luca Aceto, Ivan Damgård, Leslie Ann Goldberg, Magnús M. Halldórsson, Anna Ingólfssdóttir, and Igor Walukiewicz, editors, *Proceedings of the 35th International Colloquium on Automata, Languages and Programming, ICALP'2008, Part I (Reykjavik, Iceland, July 7-11, 2008)*, volume 5125 of *LNCS*, pages 551–562. Springer-Verlag, Berlin-Heidelberg, 2008.
- [66] Oded Regev and Liron Schiff. Impossibility of a quantum speed-up with a faulty oracle. In Luca Aceto, Ivan Damgård, Leslie Ann Goldberg, Magnús M. Halldórsson, Anna Ingólfssdóttir, and Igor Walukiewicz, editors, *Proceedings of the 35th International Colloquium on Automata, Languages and Programming, ICALP'2008, Part I (Reykjavik, Iceland, July 7-11, 2008)*, volume 5125 of *LNCS*, pages 773–781. Springer-Verlag, Berlin-Heidelberg, 2008.
- [67] Liam Roditty and Asaf Shapira. All-pairs shortest paths with a sublinear additive error. In Luca Aceto, Ivan Damgård, Leslie Ann Goldberg, Magnús M. Halldórsson, Anna Ingólfssdóttir, and Igor Walukiewicz, editors, *Proceedings of the 35th International Colloquium on Automata, Languages and Programming, ICALP'2008, Part I (Reykjavik, Iceland, July 7-11, 2008)*, volume 5125 of *LNCS*, pages 622–633. Springer-Verlag, Berlin-Heidelberg, 2008.
- [68] Milan Ružić. Constructing efficient dictionaries in close to sorting time. In Luca Aceto, Ivan Damgård, Leslie Ann Goldberg, Magnús M. Halldórsson, Anna Ingólfssdóttir, and Igor Walukiewicz, editors, *Proceedings of the 35th International Colloquium on Automata, Languages and Programming, ICALP'2008, Part I (Reykjavik, Iceland, July 7-11, 2008)*, volume 5125 of *LNCS*, pages 84–95. Springer-Verlag, Berlin-Heidelberg, 2008.

- [69] Nitin Saxena. Diagonal circuit identity testing and lower bounds. In Luca Aceto, Ivan Damgård, Leslie Ann Goldberg, Magnús M. Halldórsson, Anna Ingólfssdóttir, and Igor Walukiewicz, editors, *Proceedings of the 35th International Colloquium on Automata, Languages and Programming, ICALP'2008, Part I (Reykjavik, Iceland, July 7-11, 2008)*, volume 5125 of *LNCS*, pages 60–71. Springer-Verlag, Berlin-Heidelberg, 2008.
- [70] Marc Tedder, Derek Corneil, Michel Habib, and Christophe Paul. Simpler linear-time modular decomposition via recursive factorizing permutations. In Luca Aceto, Ivan Damgård, Leslie Ann Goldberg, Magnús M. Halldórsson, Anna Ingólfssdóttir, and Igor Walukiewicz, editors, *Proceedings of the 35th International Colloquium on Automata, Languages and Programming, ICALP'2008, Part I (Reykjavik, Iceland, July 7-11, 2008)*, volume 5125 of *LNCS*, pages 634–645. Springer-Verlag, Berlin-Heidelberg, 2008.
- [71] Yitong Yin. Cell-probe proofs and nondeterministic cell-probe complexity. In Luca Aceto, Ivan Damgård, Leslie Ann Goldberg, Magnús M. Halldórsson, Anna Ingólfssdóttir, and Igor Walukiewicz, editors, *Proceedings of the 35th International Colloquium on Automata, Languages and Programming, ICALP'2008, Part I (Reykjavik, Iceland, July 7-11, 2008)*, volume 5125 of *LNCS*, pages 72–83. Springer-Verlag, Berlin-Heidelberg, 2008.
- [72] Yuichi Yoshida and Hiro Ito. Property testing on k -vertex-connectivity of graphs. In Luca Aceto, Ivan Damgård, Leslie Ann Goldberg, Magnús M. Halldórsson, Anna Ingólfssdóttir, and Igor Walukiewicz, editors, *Proceedings of the 35th International Colloquium on Automata, Languages and Programming, ICALP'2008, Part I (Reykjavik, Iceland, July 7-11, 2008)*, volume 5125 of *LNCS*, pages 539–550. Springer-Verlag, Berlin-Heidelberg, 2008.