References

[1] Alexandr Andoni. Nearest neighbor search in high-dimensional spaces. In Filip Murlak and Piotr Sankowski, editors, *Proceedings of the 36th International Symposium on Mathematical Foundations of Computer Science, MFCS'2011 (Warsaww, Poland, August 22-26, 2011)*, volume 6907 of *LNCS*, pages 1–1. Springer-Verlag, Berlin-Heidelberg, 2011.

[2] Yoram Bachrach. The least-core of threshold network flow games. In Filip Murlak and Piotr Sankowski, editors, *Proceedings of the 36th International Symposium on Mathematical Foundations of Computer Science, MFCS'2011 (Warsaww, Poland, August 22-26, 2011)*, volume 6907 of *LNCS*, pages 36–47. Springer-Verlag, Berlin-Heidelberg, 2011.

[3] Paolo Baldan, Fabio Gadducci, and Pawel Sobociński. Adhesivity is not enough: Local church-rosser revisited. In Filip Murlak and Piotr Sankowski, editors, *Proceedings of the 36th International Symposium on Mathematical Foundations of Computer Science, MFCS'2011 (Warsaww, Poland, August 22-26, 2011)*, volume 6907 of *LNCS*, pages 48–59. Springer-Verlag, Berlin-Heidelberg, 2011.

[4] Sebastian S. Bauer, Uli Fahrenberg, Line Juhl, Kim G. Larsen, Axel Legay, and Claus Thrane. Quantitative refinement for weighted modal transition systems. In Filip Murlak and Piotr Sankowski, editors, *Proceedings of the 36th International Symposium on Mathematical Foundations of Computer Science, MFCS'2011 (Warsaww, Poland, August 22-26, 2011)*, volume 6907 of *LNCS*, pages 60–71. Springer-Verlag, Berlin-Heidelberg, 2011.

[5] Petra Berenbrink, Robert Elsässer, Tom Friedetzky, Lars Nagel, and Thomas Sauerwald. Faster coupon collecting via replication with applications in gossiping. In Filip Murlak and Piotr Sankowski, editors, *Proceedings of the 36th International Symposium on Mathematical Foundations of Computer Science, MFCS'2011 (Warsaww, Poland, August 22-26, 2011)*, volume 6907 of *LNCS*, pages 72–83. Springer-Verlag, Berlin-Heidelberg, 2011.

[6] Olaf Beyersdorff, Samir Datta, Meena Mahajan, Gido Scharfenberger-Fabian, Karteek Sreenivasaiah, Michael Thomas, and Heribert Vollmer. Verifying proofs in constant depth. In Filip Murlak and Piotr Sankowski,

editors, *Proceedings of the 36th International Symposium on Mathematical Foundations of Computer Science, MFCS'2011 (Warsaww, Poland, August 22-26, 2011)*, volume 6907 of *LNCS*, pages 84–95. Springer-Verlag, Berlin-Heidelberg, 2011.

[7] Markus Bläser and Radu Curticapean. The complexity of the cover polynomials for planar graphs of bounded degree. In Filip Murlak and Piotr Sankowski, editors, *Proceedings of the 36th International Symposium on Mathematical Foundations of Computer Science, MFCS'2011 (Warsaww, Poland, August 22-26, 2011)*, volume 6907 of *LNCS*, pages 96–107. Springer-Verlag, Berlin-Heidelberg, 2011.

[8] Michel Blockelet and Sylvain Schmitz. Model checking coverability graphs of vector addition systems. In Filip Murlak and Piotr Sankowski, editors, *Proceedings of the 36th International Symposium on Mathematical Foundations of Computer Science, MFCS'2011 (Warsaww, Poland, August 22-26, 2011)*, volume 6907 of *LNCS*, pages 108–119. Springer-Verlag, Berlin-Heidelberg, 2011.

[9] Andrej Bogdanov, Akinori Kawachi, and Hidetoki Tanaka. Hard functions for low-degree polynomials over prime fields. In Filip Murlak and Piotr Sankowski, editors, *Proceedings of the 36th International Symposium on Mathematical Foundations of Computer Science, MFCS'2011 (Warsaww, Poland, August 22-26, 2011)*, volume 6907 of *LNCS*, pages 120–131. Springer-Verlag, Berlin-Heidelberg, 2011.

[10] Stanislav Böhm and Stefan Göller. Language equivalence of deterministic real-time one-counter automata is nl-complete. In Filip Murlak and Piotr Sankowski, editors, *Proceedings of the 36th International Symposium on Mathematical Foundations of Computer Science, MFCS'2011 (Warsaww, Poland, August 22-26, 2011)*, volume 6907 of *LNCS*, pages 194–205. Springer-Verlag, Berlin-Heidelberg, 2011.

[11] Benedikt Bollig, Aiswarya Cyriac, Paul Gastin, and Marc Zeitoun. Temporal logics for concurrent recursive programs: Satisfiability and model checking. In Filip Murlak and Piotr Sankowski, editors, *Proceedings of the 36th International Symposium on Mathematical Foundations of Computer Science, MFCS'2011 (Warsaww, Poland, August 22-26, 2011)*, volume 6907 of *LNCS*, pages 132–144. Springer-Verlag, Berlin-Heidelberg, 2011.

[12] Rémi Bonnet. The reachability problem for vector addition system with one zero-test. In Filip Murlak and Piotr Sankowski, editors, *Proceedings of the 36th International Symposium on Mathematical Foundations of Computer Science, MFCS'2011 (Warsaww, Poland, August 22-26, 2011)*, volume 6907 of *LNCS*, pages 145–157. Springer-Verlag, Berlin-Heidelberg, 2011.

[13] Christina Boucher. The bounded search tree algorithm for the CLOSEST STRING problem has quadratic smoothed complexity. In Filip Murlak and Piotr Sankowski, editors, *Proceedings of the 36th International Symposium on Mathematical Foundations of Computer Science, MFCS'2011 (Warsaww, Poland, August 22-26, 2011)*, volume 6907 of *LNCS*, pages 158–169. Springer-Verlag, Berlin-Heidelberg, 2011.

[14] Olivier Bournez, Daniel S. Graça, and Amaury Pouly. Solving analytic differential equations in polynomial time over unbounded domains. In Filip Murlak and Piotr Sankowski, editors, *Proceedings of the 36th International Symposium on Mathematical Foundations of Computer Science, MFCS'2011 (Warsaww, Poland, August 22-26, 2011)*, volume 6907 of *LNCS*, pages 170–181. Springer-Verlag, Berlin-Heidelberg, 2011.

[15] Robert Bredereck, André Nichterlein, Rolf Niedermeier, and Geevarghese Philip. Pattern-guided data anonymization and clustering. In Filip Murlak and Piotr Sankowski, editors, *Proceedings of the 36th International Symposium on Mathematical Foundations of Computer Science, MFCS'2011 (Warsaww, Poland, August 22-26, 2011)*, volume 6907 of *LNCS*, pages 182–193. Springer-Verlag, Berlin-Heidelberg, 2011.

[16] Krishnendu Chatterjee and Laurent Doyen. Energy and mean-payoff parity markov decision processes. In Filip Murlak and Piotr Sankowski, editors, *Proceedings of the 36th International Symposium on Mathematical Foundations of Computer Science, MFCS'2011 (Warsaww, Poland, August 22-26, 2011)*, volume 6907 of *LNCS*, pages 206–218. Springer-Verlag, Berlin-Heidelberg, 2011.

[17] Jacek Chrząszcz and Aleksy Schubert. The role of polymorphism in the characterisation of complexity by soft types. In Filip Murlak and Piotr Sankowski, editors, *Proceedings of the 36th International Symposium on Mathematical Foundations of Computer Science, MFCS'2011*

(Warsaww, Poland, August 22-26, 2011), volume 6907 of *LNCS*, pages 219–230. Springer-Verlag, Berlin-Heidelberg, 2011.

[18] David A. Cohen, Páidí Creed, Peter G. Jeavons, and Stanislav Živný. An algebraic theory of complexity for valued constraints: Establishing a galois connection. In Filip Murlak and Piotr Sankowski, editors, *Proceedings of the 36th International Symposium on Mathematical Foundations of Computer Science, MFCS'2011 (Warsaww, Poland, August 22-26, 2011)*, volume 6907 of *LNCS*, pages 231–242. Springer-Verlag, Berlin-Heidelberg, 2011.

[19] Thomas Colcombet, Clemens Ley, and Gabriele Puppis. On the use of guards for logics with data. In Filip Murlak and Piotr Sankowski, editors, *Proceedings of the 36th International Symposium on Mathematical Foundations of Computer Science, MFCS'2011 (Warsaww, Poland, August 22-26, 2011)*, volume 6907 of *LNCS*, pages 243–255. Springer-Verlag, Berlin-Heidelberg, 2011.

[20] Evgeny Demenkov and Alexander S. Kulikov. An elementary proof of a $3n - o(n)$ lower bound on the circuit complexity of affine dispersers. In Filip Murlak and Piotr Sankowski, editors, *Proceedings of the 36th International Symposium on Mathematical Foundations of Computer Science, MFCS'2011 (Warsaww, Poland, August 22-26, 2011)*, volume 6907 of *LNCS*, pages 256–265. Springer-Verlag, Berlin-Heidelberg, 2011.

[21] Riccardo Dondi, Giancarlo Mauri, and Italo Zoppis. On the complexity of the l-diversity problem. In Filip Murlak and Piotr Sankowski, editors, *Proceedings of the 36th International Symposium on Mathematical Foundations of Computer Science, MFCS'2011 (Warsaww, Poland, August 22-26, 2011)*, volume 6907 of *LNCS*, pages 266–277. Springer-Verlag, Berlin-Heidelberg, 2011.

[22] Laurent Doyen, Thierry Massart, and Mahsa Shirmohammadi. Infinite synchronizing words for probabilistic automata. In Filip Murlak and Piotr Sankowski, editors, *Proceedings of the 36th International Symposium on Mathematical Foundations of Computer Science, MFCS'2011 (Warsaww, Poland, August 22-26, 2011)*, volume 6907 of *LNCS*, pages 278–289. Springer-Verlag, Berlin-Heidelberg, 2011.

[23] John Fearnley and Oded Lachish. Parity games on graphs with medium tree-width. In Filip Murlak and Piotr Sankowski, editors, *Proceedings of the 36th International Symposium on Mathematical Foundations of Computer Science, MFCS'2011 (Warsaww, Poland, August 22-26, 2011)*, volume 6907 of *LNCS*, pages 303–314. Springer-Verlag, Berlin-Heidelberg, 2011.

[24] Jörg Flum. Invariantization of listings. In Filip Murlak and Piotr Sankowski, editors, *Proceedings of the 36th International Symposium on Mathematical Foundations of Computer Science, MFCS'2011 (Warsaww, Poland, August 22-26, 2011)*, volume 6907 of *LNCS*, pages 2–2. Springer-Verlag, Berlin-Heidelberg, 2011.

[25] Peter Franek, Stefan Ratschan, and Piotr Zgliczynski. Satisfiability of systems of equations of real analytic functions is quasi-decidable. In Filip Murlak and Piotr Sankowski, editors, *Proceedings of the 36th International Symposium on Mathematical Foundations of Computer Science, MFCS'2011 (Warsaww, Poland, August 22-26, 2011)*, volume 6907 of *LNCS*, pages 315–326. Springer-Verlag, Berlin-Heidelberg, 2011.

[26] Wladimir Fridman and Bernd Puchala. Distributed synthesis for regular and contextfree specifications. In Filip Murlak and Piotr Sankowski, editors, *Proceedings of the 36th International Symposium on Mathematical Foundations of Computer Science, MFCS'2011 (Warsaww, Poland, August 22-26, 2011)*, volume 6907 of *LNCS*, pages 532–543. Springer-Verlag, Berlin-Heidelberg, 2011.

[27] Paweł Gawrychowski, Artur Jeż, and Andreas Maletti. On minimising automata with errors. In Filip Murlak and Piotr Sankowski, editors, *Proceedings of the 36th International Symposium on Mathematical Foundations of Computer Science, MFCS'2011 (Warsaww, Poland, August 22-26, 2011)*, volume 6907 of *LNCS*, pages 327–338. Springer-Verlag, Berlin-Heidelberg, 2011.

[28] Mai Gehrke. Duality and recognition. In Filip Murlak and Piotr Sankowski, editors, *Proceedings of the 36th International Symposium on Mathematical Foundations of Computer Science, MFCS'2011 (Warsaww, Poland, August 22-26, 2011)*, volume 6907 of *LNCS*, pages 3–18. Springer-Verlag, Berlin-Heidelberg, 2011.

[29] Petr A. Golovach, Marcin Kamiński, and Daniël Paulusma. Contracting a chordal graph to a split graph or a tree. In Filip Murlak and Piotr Sankowski, editors, *Proceedings of the 36th International Symposium on Mathematical Foundations of Computer Science, MFCS'2011 (Warsaww, Poland, August 22-26, 2011)*, volume 6907 of *LNCS*, pages 339–350. Springer-Verlag, Berlin-Heidelberg, 2011.

[30] Marats Golovkins, Maksim Kravtsev, and Vasilijs Kravcevs. Quantum finite automata and probabilistic reversible automata: R-trivial idempotent languages. In Filip Murlak and Piotr Sankowski, editors, *Proceedings of the 36th International Symposium on Mathematical Foundations of Computer Science, MFCS'2011 (Warsaww, Poland, August 22-26, 2011)*, volume 6907 of *LNCS*, pages 351–363. Springer-Verlag, Berlin-Heidelberg, 2011.

[31] Edith Hemaspaandra and Henning Schnoor. A universally defined undecidable unimodal logic. In Filip Murlak and Piotr Sankowski, editors, *Proceedings of the 36th International Symposium on Mathematical Foundations of Computer Science, MFCS'2011 (Warsaww, Poland, August 22-26, 2011)*, volume 6907 of *LNCS*, pages 364–375. Springer-Verlag, Berlin-Heidelberg, 2011.

[32] Jun Hosoda, Juraj Hromkovič, Taisuke Izumi, Hirotaka Ono, Monika Steinová, and Koichi Wada. On the approximability of minimum topic connected overlay and its special instances. In Filip Murlak and Piotr Sankowski, editors, *Proceedings of the 36th International Symposium on Mathematical Foundations of Computer Science, MFCS'2011 (Warsaww, Poland, August 22-26, 2011)*, volume 6907 of *LNCS*, pages 376–387. Springer-Verlag, Berlin-Heidelberg, 2011.

[33] Anne-Marie Kermarrec and Christopher Thraves. Can everybody sit closer to their friends than their enemies? In Filip Murlak and Piotr Sankowski, editors, *Proceedings of the 36th International Symposium on Mathematical Foundations of Computer Science, MFCS'2011 (Warsaww, Poland, August 22-26, 2011)*, volume 6907 of *LNCS*, pages 388–399. Springer-Verlag, Berlin-Heidelberg, 2011.

[34] Daniel Kirsten. Some variants of the star height problem. In Filip Murlak and Piotr Sankowski, editors, *Proceedings of the 36th International Symposium on Mathematical Foundations of Computer Science,*

MFCS'2011 (Warsaww, Poland, August 22-26, 2011), volume 6907 of *LNCS*, pages 19–33. Springer-Verlag, Berlin-Heidelberg, 2011.

[35] Vladimir Kolmogorov. Submodularity on a tree: Unifying $l^\natural$-convex and bisubmodular functions. In Filip Murlak and Piotr Sankowski, editors, *Proceedings of the 36th International Symposium on Mathematical Foundations of Computer Science, MFCS'2011 (Warsaww, Poland, August 22-26, 2011)*, volume 6907 of *LNCS*, pages 400–411. Springer-Verlag, Berlin-Heidelberg, 2011.

[36] Andreas Krebs, Nutan Limaye, and Srikanth Srinivasan. Streaming algorithms for recognizing nearly well-parenthesized expressions. In Filip Murlak and Piotr Sankowski, editors, *Proceedings of the 36th International Symposium on Mathematical Foundations of Computer Science, MFCS'2011 (Warsaww, Poland, August 22-26, 2011)*, volume 6907 of *LNCS*, pages 412–423. Springer-Verlag, Berlin-Heidelberg, 2011.

[37] K. Krzywdziński and K. Rybarczyk. Geometric graphs with randomly deleted edges — connectivity and routing protocols. In Filip Murlak and Piotr Sankowski, editors, *Proceedings of the 36th International Symposium on Mathematical Foundations of Computer Science, MFCS'2011 (Warsaww, Poland, August 22-26, 2011)*, volume 6907 of *LNCS*, pages 544–555. Springer-Verlag, Berlin-Heidelberg, 2011.

[38] Dietrich Kuske and Thomas Weidner. Size and computation of injective tree automatic presentations. In Filip Murlak and Piotr Sankowski, editors, *Proceedings of the 36th International Symposium on Mathematical Foundations of Computer Science, MFCS'2011 (Warsaww, Poland, August 22-26, 2011)*, volume 6907 of *LNCS*, pages 424–435. Springer-Verlag, Berlin-Heidelberg, 2011.

[39] Richard J. Lipton, Kenneth W. Regan, and Atri Rudra. Symmetric functions capture general functions. In Filip Murlak and Piotr Sankowski, editors, *Proceedings of the 36th International Symposium on Mathematical Foundations of Computer Science, MFCS'2011 (Warsaww, Poland, August 22-26, 2011)*, volume 6907 of *LNCS*, pages 436–447. Springer-Verlag, Berlin-Heidelberg, 2011.

[40] Markus Lohrey. Compressed word problems for inverse monoids. In Filip Murlak and Piotr Sankowski, editors, *Proceedings of the 36th Interna-*

tional Symposium on Mathematical Foundations of Computer Science, MFCS'2011 (Warsaww, Poland, August 22-26, 2011), volume 6907 of *LNCS*, pages 448–459. Springer-Verlag, Berlin-Heidelberg, 2011.

[41] Andreas Maletti and Daniel Quernheim. Pushing for weighted tree automata. In Filip Murlak and Piotr Sankowski, editors, *Proceedings of the 36th International Symposium on Mathematical Foundations of Computer Science, MFCS'2011 (Warsaww, Poland, August 22-26, 2011)*, volume 6907 of *LNCS*, pages 460–471. Springer-Verlag, Berlin-Heidelberg, 2011.

[42] Florin Manea, Robert Mercaş, and Cătălin Tiseanu. Periodicity algorithms for partial words. In Filip Murlak and Piotr Sankowski, editors, *Proceedings of the 36th International Symposium on Mathematical Foundations of Computer Science, MFCS'2011 (Warsaww, Poland, August 22-26, 2011)*, volume 6907 of *LNCS*, pages 472–484. Springer-Verlag, Berlin-Heidelberg, 2011.

[43] Alexander Okhotin and Kai Salomaa. State complexity of operations on input-driven pushdown automata. In Filip Murlak and Piotr Sankowski, editors, *Proceedings of the 36th International Symposium on Mathematical Foundations of Computer Science, MFCS'2011 (Warsaww, Poland, August 22-26, 2011)*, volume 6907 of *LNCS*, pages 485–496. Springer-Verlag, Berlin-Heidelberg, 2011.

[44] Christophe Paul, Anthony Perez, and Stéphan Thomassé. Conflict packing yields linear vertex-kernels for k-fast, k-dense rti and a related problem. In Filip Murlak and Piotr Sankowski, editors, *Proceedings of the 36th International Symposium on Mathematical Foundations of Computer Science, MFCS'2011 (Warsaww, Poland, August 22-26, 2011)*, volume 6907 of *LNCS*, pages 497–507. Springer-Verlag, Berlin-Heidelberg, 2011.

[45] Kevin Perrot and Eric Rémila. Transduction on kadanoff sand pile model avalanches, application to wave pattern emergence. In Filip Murlak and Piotr Sankowski, editors, *Proceedings of the 36th International Symposium on Mathematical Foundations of Computer Science, MFCS'2011 (Warsaww, Poland, August 22-26, 2011)*, volume 6907 of *LNCS*, pages 508–519. Springer-Verlag, Berlin-Heidelberg, 2011.

[46] Michał Pilipczuk. Problems parameterized by treewidth tractable in single exponential time: A logical approach. In Filip Murlak and Piotr Sankowski, editors, *Proceedings of the 36th International Symposium on Mathematical Foundations of Computer Science, MFCS'2011 (Warsaww, Poland, August 22-26, 2011)*, volume 6907 of *LNCS*, pages 520–531. Springer-Verlag, Berlin-Heidelberg, 2011.

[47] Prasad Raghavendra. Generic techniques to round sdp relaxations. In Filip Murlak and Piotr Sankowski, editors, *Proceedings of the 36th International Symposium on Mathematical Foundations of Computer Science, MFCS'2011 (Warsaww, Poland, August 22-26, 2011)*, volume 6907 of *LNCS*, pages 34–34. Springer-Verlag, Berlin-Heidelberg, 2011.

[48] Ocan Sankur. Untimed language preservation in timed systems. In Filip Murlak and Piotr Sankowski, editors, *Proceedings of the 36th International Symposium on Mathematical Foundations of Computer Science, MFCS'2011 (Warsaww, Poland, August 22-26, 2011)*, volume 6907 of *LNCS*, pages 556–567. Springer-Verlag, Berlin-Heidelberg, 2011.

[49] Balder ten Cate and Alessandro Facchini. Characterizing ef over infinite trees and modal logic on transitive graphs. In Filip Murlak and Piotr Sankowski, editors, *Proceedings of the 36th International Symposium on Mathematical Foundations of Computer Science, MFCS'2011 (Warsaww, Poland, August 22-26, 2011)*, volume 6907 of *LNCS*, pages 290–302. Springer-Verlag, Berlin-Heidelberg, 2011.

[50] Kei Uchizawa and Eiji Takimoto. Lower bounds for linear decision trees via an energy complexity argument. In Filip Murlak and Piotr Sankowski, editors, *Proceedings of the 36th International Symposium on Mathematical Foundations of Computer Science, MFCS'2011 (Warsaww, Poland, August 22-26, 2011)*, volume 6907 of *LNCS*, pages 568–579. Springer-Verlag, Berlin-Heidelberg, 2011.

[51] Michael Vanden Boom. Weak cost monadic logic over infinite trees. In Filip Murlak and Piotr Sankowski, editors, *Proceedings of the 36th International Symposium on Mathematical Foundations of Computer Science, MFCS'2011 (Warsaww, Poland, August 22-26, 2011)*, volume 6907 of *LNCS*, pages 580–591. Springer-Verlag, Berlin-Heidelberg, 2011.

[52] Jianxin Wang, Yongjie Yang, Jiong Guo, and Jianer Chen. Linear problem kernels for planar graph problems with small distance property. In Filip Murlak and Piotr Sankowski, editors, *Proceedings of the 36th International Symposium on Mathematical Foundations of Computer Science, MFCS'2011 (Warsaww, Poland, August 22-26, 2011)*, volume 6907 of *LNCS*, pages 592–603. Springer-Verlag, Berlin-Heidelberg, 2011.

[53] Paul Wollan. New proofs in graph minors. In Filip Murlak and Piotr Sankowski, editors, *Proceedings of the 36th International Symposium on Mathematical Foundations of Computer Science, MFCS'2011 (Warsaww, Poland, August 22-26, 2011)*, volume 6907 of *LNCS*, pages 35–35. Springer-Verlag, Berlin-Heidelberg, 2011.

[54] Mingyu Xiao, Ton Kloks, and Sheung-Hung Poon. New parameterized algorithms for the edge dominating set problem. In Filip Murlak and Piotr Sankowski, editors, *Proceedings of the 36th International Symposium on Mathematical Foundations of Computer Science, MFCS'2011 (Warsaww, Poland, August 22-26, 2011)*, volume 6907 of *LNCS*, pages 604–615. Springer-Verlag, Berlin-Heidelberg, 2011.