

References

- [1] Susanne Albers. Algorithms for energy management. In Farid Ablayev and Ernst W. Mayr, editors, *Proceedings of the 5th International Computer Science Symposium in Russia on Computer Science — Theory and Applications, CSR'2010 (Kazan, Russia, June 16-20, 2010)*, volume 6072 of *LNCS*, pages 1–11. Springer-Verlag, Berlin-Heidelberg, 2010.
- [2] Nathalie Aubrun and Marie-Pierre Béal. Sofic and almost of finite type tree-shifts. In Farid Ablayev and Ernst W. Mayr, editors, *Proceedings of the 5th International Computer Science Symposium in Russia on Computer Science — Theory and Applications, CSR'2010 (Kazan, Russia, June 16-20, 2010)*, volume 6072 of *LNCS*, pages 12–24. Springer-Verlag, Berlin-Heidelberg, 2010.
- [3] Nazim Benaïssa and Dominique Méry. Proof-based design of security protocols. In Farid Ablayev and Ernst W. Mayr, editors, *Proceedings of the 5th International Computer Science Symposium in Russia on Computer Science — Theory and Applications, CSR'2010 (Kazan, Russia, June 16-20, 2010)*, volume 6072 of *LNCS*, pages 25–36. Springer-Verlag, Berlin-Heidelberg, 2010.
- [4] Mikhail V. Berlinkov. Approximating the minimum length of synchronizing words is hard. In Farid Ablayev and Ernst W. Mayr, editors, *Proceedings of the 5th International Computer Science Symposium in Russia on Computer Science — Theory and Applications, CSR'2010 (Kazan, Russia, June 16-20, 2010)*, volume 6072 of *LNCS*, pages 37–47. Springer-Verlag, Berlin-Heidelberg, 2010.
- [5] Daniel Binkele-Raible and Henning Fernau. A faster exact algorithm for the directed maximum leaf spanning tree problem. In Farid Ablayev and Ernst W. Mayr, editors, *Proceedings of the 5th International Computer Science Symposium in Russia on Computer Science — Theory and Applications, CSR'2010 (Kazan, Russia, June 16-20, 2010)*, volume 6072 of *LNCS*, pages 328–339. Springer-Verlag, Berlin-Heidelberg, 2010.
- [6] Benedikt Bollig and Loïc Hélouët. Realizability of dynamic msc languages. In Farid Ablayev and Ernst W. Mayr, editors, *Proceedings of the 5th International Computer Science Symposium in Russia on Computer Science — Theory and Applications, CSR'2010 (Kazan, Russia,*

June 16-20, 2010), volume 6072 of *LNCS*, pages 48–59. Springer-Verlag, Berlin-Heidelberg, 2010.

- [7] N. Bourgeois, A. Giannakos, G. Lucarelli, I. Milis, V.Th. Paschos, and O. Pottié. The max quasi-independent set problem. In Farid Ablayev and Ernst W. Mayr, editors, *Proceedings of the 5th International Computer Science Symposium in Russia on Computer Science — Theory and Applications, CSR'2010 (Kazan, Russia, June 16-20, 2010)*, volume 6072 of *LNCS*, pages 60–71. Springer-Verlag, Berlin-Heidelberg, 2010.
- [8] Thomas Brihaye, Véronique Bruyère, and Julie De Pril. Equilibria in quantitative reachability games. In Farid Ablayev and Ernst W. Mayr, editors, *Proceedings of the 5th International Computer Science Symposium in Russia on Computer Science — Theory and Applications, CSR'2010 (Kazan, Russia, June 16-20, 2010)*, volume 6072 of *LNCS*, pages 72–83. Springer-Verlag, Berlin-Heidelberg, 2010.
- [9] Janusz Brzozowski, Galina Jirásková, and Chenglong Zou. Quotient complexity of closed languages. In Farid Ablayev and Ernst W. Mayr, editors, *Proceedings of the 5th International Computer Science Symposium in Russia on Computer Science — Theory and Applications, CSR'2010 (Kazan, Russia, June 16-20, 2010)*, volume 6072 of *LNCS*, pages 84–95. Springer-Verlag, Berlin-Heidelberg, 2010.
- [10] Olivier Carton. Right-sequential functions on infinite words. In Farid Ablayev and Ernst W. Mayr, editors, *Proceedings of the 5th International Computer Science Symposium in Russia on Computer Science — Theory and Applications, CSR'2010 (Kazan, Russia, June 16-20, 2010)*, volume 6072 of *LNCS*, pages 96–106. Springer-Verlag, Berlin-Heidelberg, 2010.
- [11] Fedor V. Fomin. Kernelization. In Farid Ablayev and Ernst W. Mayr, editors, *Proceedings of the 5th International Computer Science Symposium in Russia on Computer Science — Theory and Applications, CSR'2010 (Kazan, Russia, June 16-20, 2010)*, volume 6072 of *LNCS*, pages 107–108. Springer-Verlag, Berlin-Heidelberg, 2010.
- [12] Anahí Gajardo and Pierre Guillon. Zigzags in turing machines. In Farid Ablayev and Ernst W. Mayr, editors, *Proceedings of the 5th Interna-*

tional Computer Science Symposium in Russia on Computer Science — Theory and Applications, CSR'2010 (Kazan, Russia, June 16-20, 2010), volume 6072 of *LNCS*, pages 109–119. Springer-Verlag, Berlin-Heidelberg, 2010.

- [13] James Gate and Iain A. Stewart. Frameworks for logically classifying polynomial-time optimisation problems. In Farid Ablayev and Ernst W. Mayr, editors, *Proceedings of the 5th International Computer Science Symposium in Russia on Computer Science — Theory and Applications, CSR'2010 (Kazan, Russia, June 16-20, 2010)*, volume 6072 of *LNCS*, pages 120–131. Springer-Verlag, Berlin-Heidelberg, 2010.
- [14] Paweł Gawrychowski, Artur Jeż, and Łukasz Jeż. Validating the knuth-morris-pratt failure function, fast and online. In Farid Ablayev and Ernst W. Mayr, editors, *Proceedings of the 5th International Computer Science Symposium in Russia on Computer Science — Theory and Applications, CSR'2010 (Kazan, Russia, June 16-20, 2010)*, volume 6072 of *LNCS*, pages 132–143. Springer-Verlag, Berlin-Heidelberg, 2010.
- [15] R.A. Gimadееv and M.N. Vyalyi. Identical relations in symmetric groups and separating words with reversible automata. In Farid Ablayev and Ernst W. Mayr, editors, *Proceedings of the 5th International Computer Science Symposium in Russia on Computer Science — Theory and Applications, CSR'2010 (Kazan, Russia, June 16-20, 2010)*, volume 6072 of *LNCS*, pages 144–155. Springer-Verlag, Berlin-Heidelberg, 2010.
- [16] Nick Gravin. Time optimal d -list colouring of a graph. In Farid Ablayev and Ernst W. Mayr, editors, *Proceedings of the 5th International Computer Science Symposium in Russia on Computer Science — Theory and Applications, CSR'2010 (Kazan, Russia, June 16-20, 2010)*, volume 6072 of *LNCS*, pages 156–168. Springer-Verlag, Berlin-Heidelberg, 2010.
- [17] Bernhard Heinemann. The cantor space as a generic model of topologically presented knowledge. In Farid Ablayev and Ernst W. Mayr, editors, *Proceedings of the 5th International Computer Science Symposium in Russia on Computer Science — Theory and Applications, CSR'2010 (Kazan, Russia, June 16-20, 2010)*, volume 6072 of *LNCS*, pages 169–180. Springer-Verlag, Berlin-Heidelberg, 2010.

- [18] Juraj Hromkovič. Algorithmics — is there hope for a unified theory? In Farid Ablayev and Ernst W. Mayr, editors, *Proceedings of the 5th International Computer Science Symposium in Russia on Computer Science — Theory and Applications, CSR'2010 (Kazan, Russia, June 16-20, 2010)*, volume 6072 of *LNCS*, pages 181–194. Springer-Verlag, Berlin-Heidelberg, 2010.
- [19] Ling-Ju Hung and Ton Kloks. Classifying rankwidth k -dh-graphs. In Farid Ablayev and Ernst W. Mayr, editors, *Proceedings of the 5th International Computer Science Symposium in Russia on Computer Science — Theory and Applications, CSR'2010 (Kazan, Russia, June 16-20, 2010)*, volume 6072 of *LNCS*, pages 195–203. Springer-Verlag, Berlin-Heidelberg, 2010.
- [20] Dmitry Itsykson. Lower bound on average-case complexity of inversion of goldreich's function by drunken backtracking algorithms. In Farid Ablayev and Ernst W. Mayr, editors, *Proceedings of the 5th International Computer Science Symposium in Russia on Computer Science — Theory and Applications, CSR'2010 (Kazan, Russia, June 16-20, 2010)*, volume 6072 of *LNCS*, pages 204–215. Springer-Verlag, Berlin-Heidelberg, 2010.
- [21] Gerold Jäger and Weixiong Zhang. A sat based effective algorithm for the directed hamiltonian cycle problem. In Farid Ablayev and Ernst W. Mayr, editors, *Proceedings of the 5th International Computer Science Symposium in Russia on Computer Science — Theory and Applications, CSR'2010 (Kazan, Russia, June 16-20, 2010)*, volume 6072 of *LNCS*, pages 216–227. Springer-Verlag, Berlin-Heidelberg, 2010.
- [22] Maurice Jansen and Jayalal Sarma M.N. Balancing bounded treewidth circuits. In Farid Ablayev and Ernst W. Mayr, editors, *Proceedings of the 5th International Computer Science Symposium in Russia on Computer Science — Theory and Applications, CSR'2010 (Kazan, Russia, June 16-20, 2010)*, volume 6072 of *LNCS*, pages 228–239. Springer-Verlag, Berlin-Heidelberg, 2010.
- [23] Matthew Johnson, Viresh Patel, Daniël Paulusma, and Théophile Trunck. Obtaining online ecological colourings by generalizing first-fit. In Farid Ablayev and Ernst W. Mayr, editors, *Proceedings of the*

- 5th International Computer Science Symposium in Russia on Computer Science — Theory and Applications, CSR'2010 (Kazan, Russia, June 16-20, 2010)*, volume 6072 of *LNCS*, pages 240–251. Springer-Verlag, Berlin-Heidelberg, 2010.
- [24] Richard Jozsa. Classical simulation and complexity of quantum computations. In Farid Ablayev and Ernst W. Mayr, editors, *Proceedings of the 5th International Computer Science Symposium in Russia on Computer Science — Theory and Applications, CSR'2010 (Kazan, Russia, June 16-20, 2010)*, volume 6072 of *LNCS*, pages 252–258. Springer-Verlag, Berlin-Heidelberg, 2010.
- [25] Elena Kalinina. Prefix-free and prefix-correct complexities with compound conditions. In Farid Ablayev and Ernst W. Mayr, editors, *Proceedings of the 5th International Computer Science Symposium in Russia on Computer Science — Theory and Applications, CSR'2010 (Kazan, Russia, June 16-20, 2010)*, volume 6072 of *LNCS*, pages 259–265. Springer-Verlag, Berlin-Heidelberg, 2010.
- [26] Pavel Karpovich. Monotone complexity of a pair. In Farid Ablayev and Ernst W. Mayr, editors, *Proceedings of the 5th International Computer Science Symposium in Russia on Computer Science — Theory and Applications, CSR'2010 (Kazan, Russia, June 16-20, 2010)*, volume 6072 of *LNCS*, pages 266–275. Springer-Verlag, Berlin-Heidelberg, 2010.
- [27] Vladimir N. Krupski. Symbolic models for single-conclusion proof logics. In Farid Ablayev and Ernst W. Mayr, editors, *Proceedings of the 5th International Computer Science Symposium in Russia on Computer Science — Theory and Applications, CSR'2010 (Kazan, Russia, June 16-20, 2010)*, volume 6072 of *LNCS*, pages 276–287. Springer-Verlag, Berlin-Heidelberg, 2010.
- [28] P. Martyugin. Complexity of problems concerning carefully synchronizing words for pfa and directing words for nfa. In Farid Ablayev and Ernst W. Mayr, editors, *Proceedings of the 5th International Computer Science Symposium in Russia on Computer Science — Theory and Applications, CSR'2010 (Kazan, Russia, June 16-20, 2010)*, volume 6072 of *LNCS*, pages 288–302. Springer-Verlag, Berlin-Heidelberg, 2010.

- [29] Victor Pan, Guoliang Qian, and Ai-Long Zheng. Advancing matrix computations with randomized preprocessing. In Farid Ablayev and Ernst W. Mayr, editors, *Proceedings of the 5th International Computer Science Symposium in Russia on Computer Science — Theory and Applications, CSR'2010 (Kazan, Russia, June 16-20, 2010)*, volume 6072 of *LNCS*, pages 303–314. Springer-Verlag, Berlin-Heidelberg, 2010.
- [30] Valery Plisko. Transfinite sequences of constructive predicate logics. In Farid Ablayev and Ernst W. Mayr, editors, *Proceedings of the 5th International Computer Science Symposium in Russia on Computer Science — Theory and Applications, CSR'2010 (Kazan, Russia, June 16-20, 2010)*, volume 6072 of *LNCS*, pages 315–326. Springer-Verlag, Berlin-Heidelberg, 2010.
- [31] Prabhakar Raghavan. The quantitative analysis of user behavior online — data, models and algorithms. In Farid Ablayev and Ernst W. Mayr, editors, *Proceedings of the 5th International Computer Science Symposium in Russia on Computer Science — Theory and Applications, CSR'2010 (Kazan, Russia, June 16-20, 2010)*, volume 6072 of *LNCS*, pages 327–327. Springer-Verlag, Berlin-Heidelberg, 2010.
- [32] Alexander Razborov. Complexity of propositional proofs. In Farid Ablayev and Ernst W. Mayr, editors, *Proceedings of the 5th International Computer Science Symposium in Russia on Computer Science — Theory and Applications, CSR'2010 (Kazan, Russia, June 16-20, 2010)*, volume 6072 of *LNCS*, pages 340–342. Springer-Verlag, Berlin-Heidelberg, 2010.
- [33] Miklos Santha. Quantization of random walks: Search algorithms and hitting time. In Farid Ablayev and Ernst W. Mayr, editors, *Proceedings of the 5th International Computer Science Symposium in Russia on Computer Science — Theory and Applications, CSR'2010 (Kazan, Russia, June 16-20, 2010)*, volume 6072 of *LNCS*, pages 343–343. Springer-Verlag, Berlin-Heidelberg, 2010.
- [34] Uwe Schöning. Comparing two stochastic local search algorithms for constraint satisfaction problems. In Farid Ablayev and Ernst W. Mayr, editors, *Proceedings of the 5th International Computer Science Symposium in Russia on Computer Science — Theory and Applications,*

CSR'2010 (Kazan, Russia, June 16-20, 2010), volume 6072 of *LNCS*, pages 344–349. Springer-Verlag, Berlin-Heidelberg, 2010.

- [35] Arseny M. Shur. Growth of power-free languages over large alphabets. In Farid Ablayev and Ernst W. Mayr, editors, *Proceedings of the 5th International Computer Science Symposium in Russia on Computer Science — Theory and Applications, CSR'2010 (Kazan, Russia, June 16-20, 2010)*, volume 6072 of *LNCS*, pages 350–361. Springer-Verlag, Berlin-Heidelberg, 2010.
- [36] Avraham N. Trahtman. A partially synchronizing coloring. In Farid Ablayev and Ernst W. Mayr, editors, *Proceedings of the 5th International Computer Science Symposium in Russia on Computer Science — Theory and Applications, CSR'2010 (Kazan, Russia, June 16-20, 2010)*, volume 6072 of *LNCS*, pages 362–370. Springer-Verlag, Berlin-Heidelberg, 2010.
- [37] Nikolay Vereshchagin. An encoding invariant version of polynomial time computable distributions. In Farid Ablayev and Ernst W. Mayr, editors, *Proceedings of the 5th International Computer Science Symposium in Russia on Computer Science — Theory and Applications, CSR'2010 (Kazan, Russia, June 16-20, 2010)*, volume 6072 of *LNCS*, pages 371–383. Springer-Verlag, Berlin-Heidelberg, 2010.
- [38] Junhua Yu. Prehistoric phenomena and self-referentiality. In Farid Ablayev and Ernst W. Mayr, editors, *Proceedings of the 5th International Computer Science Symposium in Russia on Computer Science — Theory and Applications, CSR'2010 (Kazan, Russia, June 16-20, 2010)*, volume 6072 of *LNCS*, pages 384–396. Springer-Verlag, Berlin-Heidelberg, 2010.