

Sasha Rubin

Publication List

December 2010

Automatic Structures in Automata: From mathematics to applications, ed. Jean-Eric Pin, to be published by the European Mathematical Society.

Alternating traps in Parity Games with P. Phalitnonkiat, A. Grinshpun, A. Tarfulea, *submitted* 2010.

Automata based presentations of infinite structures with V. Bárány and E. Grädel, in *Finite and Algorithmic Model Theory*, Series: London Mathematical Society Lecture Note Series (No. 379), 2011.

Countable ω -automatic structures and their presentations, with V. Bárány and L. Kaiser, 25th Annual Symposium on Theoretical Aspects of Computer Science, 2008.

Order invariant MSO is stronger than counting MSO, with T. Ganzow, 25th Annual Symposium on Theoretical Aspects of Computer Science, 2008.

Automata presenting structures: A survey of the finite-string case, The Bulletin of Symbolic Logic, Volume 14, Issue 2, 2008, 169-209.

Automatic Structures: Richness and Limitations, with B. Khoussainov, A. Nies and F. Stephan, Logical Methods in Computer Science, Vol 3, 2007. Appeared in Proceedings of 19th Annual IEEE Symposium on Logic in Computer Science, 44 – 53, 2004.

Automatic linear orders and trees, with B. Khoussainov and F. Stephan, ACM Transactions on Computational Logic, 6(4), 675 – 700, 2005. Appeared in Proceedings of 18th Annual IEEE Symposium on Logic in Computer Science, 2003, as *Automatic Partial Orders*.

Verifying ω -regular Properties of Markov Chains, with D. Bustan and M.Y. Vardi, 16th International conference on Computer Aided Verification, 189 – 201, 2004.

Definability and Regularity in Automatic Structures, with B. Khoussainov and F. Stephan, 21st Annual Symposium on Theoretical Aspects of Computer Science, 440 – 451, 2004.

Automatic Structures - Overview and Future Directions, with B. Khoussainov, Journal of Automata, Languages and Combinatorics, 8(2), 287 – 301, 2003.

Some Results on Automatic Structures, with B. Khoussainov and H. Ishihara, 17th Annual IEEE Symposium on Logic in Computer Science, 2002.

Graphs with Automatic Presentations over a Unary Alphabet Journal of Automata, Languages and Combinatorics, 6(4), 467 – 480, 2001.

Finite Automata and Well Ordered Sets, New Zealand Journal of Computing, 7(2), 39 – 46, 1999.