# Publication List

## Vladimir Podolskii

1. V. V. Podolskii. **Perceptrons of large weight**. Problems of Information Transmission, v. 45(1), pp. 46-53, 2009. Preliminary version of this paper appeared in *Proceedings of the Second International Symposium on Computer Science in Russia*, Lecture Notes in Computer Science 4649, pp. 328-336, 2007.

2. V. V. Podolskii. **A Uniform Lower Bound on Weights of Perceptrons**. *Proceedings of the Steklov Institute of Mathematics*, 274: 252268, 2011. Preliminary version of this paper appeared in *Proceedings, Third International Symposium on Computer Science in Russia*, Lecture Notes in Computer Science 5010, pp. 261-272, 2008.

3. V. V. Podolskii, A. A. Sherstov. **A small decrease in the degree of a polynomial with a given sign function can exponentially increase its weight and length**. In *Mathematical Notes*, 2010, 87(6), 860-873. Preliminary version of this paper appeared in *RUSS MATH SURV*, 64 (5), 950-951, 2009.

4. Kristoffer Arnsfelt Hansen, Vladimir V. Podolskii. **Exact threshold circuits**. In *Proc. of 25th Annual IEEE Conference on Computational Complexity (CCC)*, pages 270-279, 2010.

5. Laszlo Babai, Kristoffer Arnsfelt Hansen, Vladimir Podolskii and Xiaoming Sun. **Weights of Exact Threshold Functions**. In *Proc. of 35th International Symposium on Mathematical Foundations of Computer Science (MFCS)*, Lecture Notes in Computer Science, 2010, Volume 6281/2010, 66-77.

6. Vladimir V. Podolskii. **Exponential Lower Bound for Bounded Depth Circuits with Few Threshold Gates**. Information Processing Letters, 112(7):267-271, 2012.

7. Vladimir V. Podolskii. **Lower Bound on Weights of Large Degree Threshold Functions**. In *Proceedings of Computability in Europe Conference (CiE)*, Lecture Notes in Computer Science 7318, pp. 599-608, 2012. Preliminary version of this paper can be found at `http://arxiv.org/abs/1204.2652`.

8. Stanislav Kikot, Roman Kontchakov, Vladimir V. Podolskii, Michael Zakharyaschev. **Exponential Lower Bounds and Separation for Query Rewriting**. In *Proceedings of the 39th International Colloquium on Automata, Languages and Programming (ICALP)*, Lecture Notes

in Computer Science, 7392, pp. 263-274, 2012. Preliminary version of this paper can be found at `http://arxiv.org/abs/1202.4193`.

9. Kristoffer Arnsfelt Hansen, Rasmus Ibsen-Jensen, Vladimir V. Podolskii, Elias P. Tsigaridas. **Patience of Matrix Games**. `http://arxiv.org/abs/1206.1751`, 2012.

10. Dima Grigoriev, Vladimir V. Podolskii. **Complexity of tropical and min-plus linear pre-varieties**. MPIM preprint 2012-23, 2012. `http://arxiv.org/abs/1204.4578`.