

# List of publications A.E. Romashchenko

## 1 Published in 2014

1. L. Bienvenu, A. Romashchenko, A. Shen, A. Tavenaux, S. Vermeeren. The axiomatic power of Kolmogorov complexity. To appear in *Computability* (the journal of the Association Computability in Europe).
2. A. Romashchenko. Pseudo-random graphs and bit probe schemes with one-sided error. To appear in *Theory of Computing Systems*.

## 2 Published in 2013

1. T. Kaced, A. Romashchenko. Conditional Information Inequalities for Entropic and Almost Entropic Points. *IEEE Transactions on Information Theory*. Volume 59, Issue 11, 2013, pp. 7149-7167

## 3 Published in 2012

1. B. Durand, A. Romashchenko, A. Shen, Fixed-point tile sets and their applications. *Journal of Computer and System Sciences*. 78:3, May 2012, pp. 731–764 [MathSciNet](#) [ZentralMATH](#) [crossref](#) [ISI Web of Knowledge](#).
2. T. Kaced, A. Romashchenko, On the Non-robustness of Essentially Conditional Information Inequalities. In *Proc. IEEE Information Theory Workshop (ITW)* September 2012, pp. 1935–1939
3. A. Shen, A. Romashchenko, Topological arguments for Kolmogorov complexity. In *Proc. 18th International Workshop on Cellular Automata and Discrete Complex Systems (AUTOMATA)*. September 2012. pp. 127–132

## 4 Published in 2011

1. D. Musatov, A. Romashchenko, A. Shen, Variations on Muchnik's Conditional Complexity Theorem. *Theory of Computing Systems*. Volume 49, no. 2, 2011, pp. 227–245 [MathSciNet](#) [ZentralMATH](#) [crossref](#) [ISI Web of Knowledge](#).
2. A. Romashchenko, Pseudo-random graphs and bit probe schemes with one-sided error. In *Proc. 6th International Computer Science Symposium in Russia (CSR)*. Saint-Petersburg, Russia. June 14–18, 2011. (Lecture Notes in Computer Science 6651, Springer.) pp. 50–63 [ZentralMATH](#) [crossref](#).
3. T. Kaced, A. Romashchenko, On essentially conditional information inequalities. In *Proc. IEEE Int. Sympos. on Information Theory*. Saint-Petersburg, Russia. July 31 – August 5, 2011. pp. 1935–1939 [ISI Web of Knowledge](#).

## 5 Published in 2010

1. B. Durand, A. Romashchenko, A. Shen, Effective Closed Subshifts in 1D Can Be Implemented in 2D. *Fields of Logic and Computation 2010, Essays Dedicated to Yuri Gurevich on the Occasion of His 70th Birthday*. Lecture Notes in Computer Science 6300, 2010, pp. 208–226 [MathSciNet](#) [ZentralMATH](#) [crossref](#) [ISI Web of Knowledge](#).

2. An. A. Muchnik, A.E. Romashchenko, Stability of properties of Kolmogorov complexity under relativization. Problems of Information Transmission, 2010, 46:1, 38–61 [Math-Net.Ru](#) [MathSciNet](#) [ZentralMATH](#) [crossref](#) [ISI Web of Knowledge](#).
3. A. Romashchenko, Fixed Point Argument and Tilings without Long Range Order. In Proc. Workshop on Fixed Points in Computer Science. Brno, 2010
4. Bruno Durand, Andrei E. Romashchenko, Alexander Shen, 1D Effectively Closed Subshifts and 2D Tilings. 2nd Symposium on Cellular Automata “Journées Automates Cellulaires” (JAC) 2010, Turku, Finland, December 15–17, pp. 2–7

## 6 Published in 2009

1. B. Durand, A. Romashchenko, A. Shen, Fixed point theorem and aperiodic tilings. Bulletin of the EATCS (The Logic in Computer Science Column by Yuri Gurevich) no. 97, 2009, pp. 126–136 [MathSciNet](#) .
2. B. Durand, A. Romashchenko, A. Shen., High Complexity Tilings with Sparse Errors. In Proc. of 36th International Colloquium on Automata, Languages and Programming (ICALP). Rhodes, Greece, July 5–12, 2009. pp. 403–414 [MathSciNet](#) [ZentralMATH](#) [crossref](#).
3. D. Musatov, A. Romashchenko, A. Shen., Variations on Muchnik’s Conditional Complexity Theorem. In Proc. 4th International Computer Science Symposium in Russia (CSR). Novosibirsk, Russia, August 18–23, 2009. pp. 250–262 [ZentralMATH](#) [crossref](#).

## 7 Published in 2008

1. An.Muchnik, A.Romashchenko, A Random Oracle Does Not Help Extract the Mutual Information. In Proc. 33rd International Symposium in Mathematical Foundations of Computer Science (MFCS). Torun, Poland, August 25–29, 2008. (Lecture Notes in Computer Science 5162 Springer), pp. 527–538. [MathSciNet](#) [ZentralMATH](#) [crossref](#).
2. B. Durand, A. Romashchenko, A. Shen, Fixed point and aperiodic tilings. In Proc. 12th International Conf. Developments in Language Theory (DLT) 2008 Kyoto, Japan, September 16–19. pp. 276–288 [MathSciNet](#) [ZentralMATH](#) [crossref](#).
3. Andrei Romashchenko, Two applications of pseudo-random graphs. In Proc. International Mathematical Conference “50 Years Of IITP”. Moscow, Russia, July 25–29, 2011
4. L. Bienvenu, A. Romashchenko, A. Shen, Sparse sets. Proc. First Symposium on Cellular Automata “Journées Automates Cellulaires” (JAC 2008) Uzes, France, April 2008. pp. 18–28