

Konstantinos Panagiotou

List of Publications

09/01/2014

Publications in Conference Proceedings

1. K. Bringmann, F. Kuhn, K. Panagiotou, U. Peter und H. Thomas. **Internal DLA: Efficient Simulation of a Physical Growth Model**. In: *Proceedings of the 41st Int. Colloquium on Automata, Languages and Programming (ICALP'14)*, p. 247-258, 2014.
2. A. Coja-Oghlan und K. Panagiotou. **Going After the k-SAT Threshold**. In: *Proceedings of the 45th ACM Symposium on Theory of Computing (STOC'13)*, p. 705-714, 2013.
3. K. Panagiotou und L. Speidel. **Asynchronous Rumor Spreading on Random Graphs**. In: *Proceedings of the 24th Int. Symposium on Algorithms and Computation (ISAAC'13)*, LNCS Vol. 8283, p. 424-434, 2013.
4. K. Panagiotou, A. Pourimi und T. Sauerwald. **Faster Rumor Spreading with Multiple Calls**. In: *Proceedings of the 24th Int. Symposium on Algorithms and Computation (ISAAC'13)*, LNCS Vol. 8283, p. 446-456, 2013.
5. H. Amini, N. Fountoulakis und K. Panagiotou. **Discontinuous bootstrap percolation in power-law random graphs**. In: *European Conference on Combinatorics, Graph Theory and Applications (EuroComb'13)*, CRM Series Volume 16, p. 431-436, 2013.
6. C. G. Heise, K. Panagiotou, O. Pikhurko und A. Taraz. **Coloring d-Embeddable k-Uniform Hypergraphs**. In: *European Conference on Combinatorics, Graph Theory and Applications (EuroComb'13)*, CRM Series Volume 16, p. 339-344, 2013.
7. K. Bringmann und K. Panagiotou. **Efficient Sampling Methods for Discrete Distributions**. In: *Proceedings of the 39th Int. Colloquium on Automata, Languages and Programming (ICALP'12)*, p. 133-144, 2012.
8. L. Gugelmann, U. Peter und K. Panagiotou. **Random Hyperbolic Graphs: Degree Sequence and Clustering**. In: *Proceedings of the 39th Int. Colloquium on Automata, Languages and Programming (ICALP'12)*, p. 573-585, 2012.
9. A. Coja-Oghlan und K. Panagiotou. **Catching the k-NAESAT Threshold**. In: *Proceedings of the 44th ACM Symposium on Theory of Computing (STOC'12)*, p. 899-908, 2012.
10. N. Fountoulakis, K. Panagiotou und T. Sauerwald. **Ultra-fast Rumor Spreading in Models of Real-world Networks**. In: *Proceedings of the 23rd Annual ACM-SIAM Symposium on Discrete Algorithms (SODA '12)*, p. 1642-1660, 2012.
11. M. Drmota, O. Gimenez, M. Noy, K. Panagiotou und A. Steger. **The Maximum Degree of Random Planar Graphs**. In: *Proceedings of the 23rd Annual ACM-SIAM Symposium on Discrete Algorithms (SODA '12)*, p. 381-287, 2012.
12. M. Drmota und K. Panagiotou. **A Central Limit Theorem for the Degree-k Vertices in Random Maps**. In: *Proceedings of Analytic Algorithmics and Combinatorics (ANALCO '12)*, p. 9-17, 2012.
13. M. Manjunath, K. Mehlhorn, K. Panagiotou und H. Sun. **Approximate Counting of Cycles in Streams**. In: *European Symposium on Algorithms (ESA '11)*, p. 677-688, 2011.
14. K. Panagiotou und A. Steger. **On the Degree Sequence of Random Planar Graphs**. In: *Proceedings of the 22nd Annual ACM-SIAM Symposium on Discrete Algorithms (SODA '11)*, p. 1198-1210, 2011.
15. N. Fountoulakis, K. Panagiotou und M. Khosla. **The Multiple-orientability Thresholds for Random Hypergraphs**. In: *Proceedings of the 22nd Annual ACM-SIAM Symposium on Discrete Algorithms (SODA '11)*, p. 1222-1236, 2011.
16. S. Angelopoulos, A. Lopez-Ortiz und K. Panagiotou. **Multi-Target Search in Lists and Rays**. In: *Algorithms and Data Structures Symposium (WADS '11)*, p. 37-48, 2011.

17. K. Panagiotou, R. Spöhel, A. Steger und H. Thomas. **Explosive Percolation in Erdős-Renyi-Like Processes.** In: *European Conference on Combinatorics, Graph Theory and Applications (EuroComb '11), Electronic Notes in Discrete Mathematics 38*, p. 699–704, 2011.
18. N. Fountoulakis und K. Panagiotou. **Orientability of Random Hypergraphs and the Power of Multiple Choices.** In: *Proceedings of the 37th International Colloquium on Automata, Languages and Programming (ICALP '10, Track A)*, p. 348-359, 2010.
19. N. Fountoulakis, A. Huber und K. Panagiotou. **Reliable Broadcasting in Random Networks and the Effect of Density.** In: *29th Conference on Computer Communications (IEEE INFOCOM'10)*, p. 1-9, 2010.
20. D. Johannsen und K. Panagiotou. **Vertices of Degree k in Random Maps.** In: *Proceedings of the 21st ACM-SIAM Symposium on Discrete Algorithms (SODA'10)*, p. 1436-1447, 2010.
21. F. Kuhn, K. Panagiotou, J. Spencer und A. Steger. **Synchrony and Asynchrony in Neural Networks.** In: *Proceedings of the 21st ACM-SIAM Symposium on Discrete Algorithms (SODA'10)*, p. 949-964, 2010.
22. N. Fountoulakis und K. Panagiotou. **Rumor Spreading on Random Regular Graphs and Expanders.** In *14th Intl. Workshop on Randomization and Computation (RANDOM '10)*, p. 560-573, 2010.
23. A. Darasse, K. Panagiotou, O. Roussel und M. Soria. **Boltzmann Generation for Regular Languages with Shuffle.** In: *Random Generation of Combinatorial Structures (GASCom '10)*.
24. K. Panagiotou und A. Steger. **Maximal Biconnected Subgraphs of Random Planar Graphs.** In: *Proceedings of the 20th ACM-SIAM Symposium on Discrete Algorithms (SODA '09)*, p. 432-440, 2009.
25. N. Fountoulakis, A. Huber und K. Panagiotou. **The Speed of Broadcasting on Random Networks: Density does not Matter.** In: *23rd Symposium on Distributed Computing (DISC'09)*, p. 529-530, 2009.
26. K. Panagiotou und M. Sinha. **Vertices of Degree k in Random Unlabeled Trees.** In: *European Conference on Combinatorics, Graph Theory and Applications (EuroComb'09), Electronic Notes in Discrete Mathematics 34*, p. 41-45, 2009.
27. K. Panagiotou. **Blocks in Constrained Random Graphs with Fixed Average Degree.** In: *21st International Conference on Formal Power Series and Algebraic Combinatorics (FPSAC'09), DMTCS AK*, p. 733-744, 2009.
28. N. Bernasconi, K. Panagiotou und A. Steger. **On Properties of Random Dissections and Triangulations.** In: *Proceedings of the 19th ACM-SIAM Symposium on Discrete Algorithms (SODA'08)*, p. 132-141, 2008.
29. N. Bernasconi, K. Panagiotou und A. Steger. **On the Degree Sequences of Random Outerplanar and Series-Parallel Graphs.** In: *Proceedings of the 12th International Workshop on Randomized Techniques in Computation (RANDOM'08)*, p. 303-316, 2008.
30. G. Brightwell, K. Panagiotou und A. Steger. **On Extremal Subgraphs of Random Graphs.** In: *Proceedings of the 18th ACM-SIAM Symposium on Discrete Algorithms (SODA '07)*, p. 477-485, 2007.
31. A. Coja-Oghlan, K. Panagiotou und A. Steger. **On the Chromatic Number of Random Graphs.** In: *Proceedings of the 34th International Colloquium on Automata, Languages and Programming (ICALP '07, Track A)*, p. 777-788, 2007.
32. J. Lorenz, K. Panagiotou und A. Steger. **Optimal Algorithms for k -Search with Application in Option Pricing.** In: *15th European Symposium on Algorithms (ESA '07)*, p. 275-286, 2007.
33. K. Panagiotou und A. Weißl. **Properties of Random Graphs via Boltzmann Samplers.** In: *2007 International Conference on Analysis of Algorithms (AoFA '07), DMTCS AH*, p. 159-168, 2007.
34. K. Panagiotou und A. Souza. **On Adequate Performance Measures for Paging.** In: *Proceedings of the 38th ACM Symposium on Theory of Computing (STOC'06)*, p. 487-496, 2006.

Publications in Journals

(Articles marked with (*) have also appeared as an extended abstract in conference proceedings.)

1. (*) M. Drmota, O. Gimenez, M. Noy, K. Panagiotou and A. Steger. **The Maximum Degree of Random Planar Graphs**. *Accepted: Proceedings of the London Mathematical Society*.
2. (*) S. Angelopoulos, A. Lopez-Ortiz und K. Panagiotou. **Multi-Target Search in Lists and Rays**. In: *Theoretical Computer Science 540*, p. 2-12, 2014.
3. M. Kang and K. Panagiotou. **On the Connectivity Threshold of Achlioptas Processes**. *Accepted: Journal of Combinatorics*.
4. S. Gerke, K. Panagiotou, A. Steger and J. Schwartz. **Maximizing the Minimum Load for Random Processing Times**. *Accepted: Transactions on Algorithms*.
5. N. Fountoulakis, K. Panagiotou and A. Steger. **On the Insertion Time of Cuckoo Hashing**. In: *SIAM Journal on Computing*, 46(2), p. 2156-2181, 2013.
6. K. Panagiotou, X. Perez-Gimenez, T. Sauerwald, H. Sun. **Randomized Broadcasting: on the Effect of the Network Topology**. *Accepted: Combinatorics, Probability and Computing*.
7. M. Kang und K. Panagiotou. **On the Connectivity of Random Graphs from Addable Classes**. In: *Journal of Combinatorial Theory, Series B*, 103(2), p. 306-312, 2013.
8. (*) M. Drmota und K. Panagiotou. **A Central Limit Theorem for the Number of Degree-k Vertices in Random Maps**. In: *Algorithmica*, 66(4), p. 741-761, 2013.
9. (*) N. Fountoulakis und K. Panagiotou. **Rumor Spreading on Random Regular Graphs and Expanders**. In: *Random Structures & Algorithms*, 43(2), p. 201-220, 2013.
10. (*) K. Panagiotou, R. Spöhel, A. Steger und H. Thomas. **Explosive Percolation in Erdős-Renyi-Like Processes**. In: *Combinatorics, Probability and Computing*, 22(1), p. 133-145, 2013.
11. (*) G. Brighwell, K. Panagiotou und A. Steger. **Extremal Subgraphs of Random Graphs**. In: *Random Structures & Algorithms*, 41(2), p. 147-178, 2012.
12. (*) N. Fountoulakis und K. Panagiotou. **Tight Load Thresholds for Cuckoo Hashing**. In: *Random Structures & Algorithms*, 41(3), p. 306-333, 2012.
13. (*) K. Panagiotou und M. Sinha. **Vertices of Degree k in Random Unlabelled Trees**. In: *Journal of Graph Theory*, 69(2), p. 114-130, 2012.
14. N. Fountoulakis und K. Panagiotou. **3-Connected Cores in Random Planar Graphs**. In: *Combinatorics, Probability and Computing*, 20(3), p. 381-412, 2011.
15. (*) N. Bernasconi, K. Panagiotou und A. Steger. **On Properties of Random Dissections and Triangulations**. In: *Combinatorica*, 30(6), p. 627-654, 2010.
16. (*) K. Panagiotou und A. Steger. **Maximal Biconnected Subgraphs of Random Planar Graphs**. In: *Transactions on Algorithms*, 6(2), p. 1-21, 2010. Spezielle Ausgabe, die den besten Artikeln aus SODA '09 gewidmet wurde.
17. N. Bernasconi, K. Panagiotou und A. Steger. **The Degree Sequences of Subcritical Random Graphs**. In: *Combinatorics, Probability and Computing*, Volume 18, Special Issue 05, p. 647-681, 2009.
18. S. Angelopoulos, B. Doerr, A. Huber und K. Panagiotou. **Tight Bounds for Quasirandom Rumor Spreading**. In: *Electronic Journal of Combinatorics*, 16(1), R102, 2009.
19. (*) J. Lorenz, K. Panagiotou und A. Steger. **Optimal Algorithms for k -Search with Application in Option Pricing**. In: *Algorithmica*, 55(2), p. 311-328, 2009. Spezielle Ausgabe, die den besten Artikeln aus ESA '07 gewidmet wurde.
20. K. Panagiotou und A. Steger. **A Note on the Chromatic Number of a Dense Random Graph**. In: *Discrete Mathematics*, 309(10), p. 3420-3423, 2009.

21. (*) A. Coja-Oghlan, K. Panagiotou und A. Steger. **On the Chromatic Number of Random Graphs.** In: *Journal of Combinatorial Theory, Series B* 98, p. 980-993, 2008.

My **PhD Thesis** is available online at <http://e-collection.ethbib.ethz.ch/view/eth:30657>.