

Publications

1. **Making “Fast” Atomic Operations Computationally Tractable** (Antonio Fernández Anta, Nicolas Nicolaou, Alexandru Popa), *OPODIS* 2015.
2. **The Min-Max Edge q -Coloring Problem**, (Tommi Larjomaa and Alexandru Popa), *Journal of Graph Algorithms and Applications* 2015, vol. 19, no. 1, pp. 507-528.
3. **A Unifying Framework for Interactive Programming and Applications to Communicating Peer-to-peer Systems**, (Alexandru Popa, Iulia Teodora Banu-Demergian, Camelia Chira, Florian Mircea Boian and Gheorghe Stefanescu), *Embracing Global Computing in Emerging Economies (EGC)* 2015.
4. **A Parameterized Study of Generalized Function and Pattern Matching** (Sebastian Ordyniak, Alexandru Popa), *Algorithmica* 2015, pp. 1-26.
5. **Explaining a Weighted DAG with Few Paths for Solving Genome-Guided Multi-assembly**, (Alexandru Tomescu, Travis Gagie, Alexandru Popa, Romeo Rizzi, Anna Kuosmanen, Veli Makinen), *IEEE/ACM Transactions on Computational Biology and Bioinformatics* 2015.
6. **Parameterized Complexity of Asynchronous Border Minimization** (Robert Ganian, Martin Kronegger, Andreas Pfandler and Alexandru Popa), *Theory and Applications of Models of Computation (TAMC)* 2015.
7. **Approximation and Hardness Results for the Maximum Edges in Transitive Closure Problem** (Anna Adamaszek, Guillaume Blin, Alexandru Popa), *International Workshop on Combinatorial Algorithms (IWOCA)* 2014.
8. **A Parameterized Study of Generalized Function and Pattern Matching** (Sebastian Ordyniak, Alexandru Popa), *International Workshop on Parameterized and Exact Computation (IPEC)* 2014, pp. 270-281.
9. **Algorithmic and Hardness Results for the Colorful Components Problems** (Anna Adamaszek, Alexandru Popa), *Algorithmica*, 2014, pp. 1-8.
10. **The min-max edge q -coloring problem** (Tommi Larjomaa, Alexandru Popa), *International Workshop on Combinatorial Algorithms (IWOCA)* 2014.
11. **The 2-Paths Min-Sum Orientation Problem** (Trevor Fenner, Oded Lachish, Alexandru Popa), *Theory of Computing Systems* 2014, pp. 1-17.
12. **Better lower and upper bounds for the minimum rainbow subgraph problem** (Alexandru Popa), *Theoretical Computer Science*, Volume 543, 2013, pp. 1-8.
13. **Enumeration of Steiner Triple Systems with Subsystems** (Petteri Kaski, Patric R. J. Östergård, Alexandru Popa), *Mathematics of Computation*.
14. **Algorithmic and Hardness Results for the Colorful Components Problems** (Anna Adamaszek, Alexandru Popa), *Latin American Theoretical Informatics Symposium (LATIN)* 2014, pp. 683-694.
15. **Enumerating Cube Tilings** (K Ashik Mathew, Patric R. J. Östergård, Alexandru Popa), *Discrete and Computational Geometry*, Volume 50, Issue 4, pp. 1112-1122.
16. **On the Shannon Capacity of Triangular Graphs** (K Ashik Mathew, Patric R. J. Östergård, Alexandru Popa), *Electronic Journal of Combinatorics*, Volume 20, Number 2, 2013 #P27.
17. **The 2-Paths Min-Sum Orientation Problem** (Trevor Fenner, Oded Lachish, Alexandru Popa), *Workshop on Approximation and Online Algorithms (WAOA)* 2013, pp 1-11.
18. **Modelling the Power Supply Network - Hardness and Approximation** (Alexandru Popa), *Theory and Applications of Models of Computation (TAMC)* 2013, pp. 62-71.

19. **Synthesizing Minimal Tile Sets for Complex Patterns in the framework of Patterned DNA Self-Assembly** (Eugen Czeizler, Alexandru Popa), *Theoretical Computer Science*, Volume 499, 2013, pp. 23-37.
20. **The Mendelsohn Triple Systems of Order 13** (Mahdad Khatirinejad, Patric R. J. Östergård, Alexandru Popa), *Journal of Combinatorial Designs*, 2013.
21. **Synthesizing Minimal Tile Sets for Complex Patterns in the framework of Patterned DNA Self-Assembly** (Eugen Czeizler, Alexandru Popa), *International Conference on DNA Computing and Molecular Programming (DNA)* 2012, pp. 58-72.
22. **Approximating the Rainbow - Better Lower and Upper Bounds** (Alexandru Popa), *International Computing and Combinatorics Conference (COCOON)* 2012, pp. 193-203.
23. **On the Closest String via Rank Distance** (Liviu Dinu, Alexandru Popa), *Combinatorial Pattern Matching (CPM)* 2012, pp. 413-426.
24. **Hardness and Approximation of The Asynchronous Border Minimization Problem - (Extended Abstract)** (Alexandru Popa, Prudence W.H. Wong, Fencol C.C. Yung), *Theory and Applications of Models of Computation (TAMC)* 2012, pp. 164-176.
25. **Restricted Common Superstring and Restricted Common Supersequence** (Raphaël Clifford, Zvi Gotthilf, Moshe Lewenstein, Alexandru Popa), *Combinatorial Pattern Matching (CPM)* 2011, pp. 467-478.
26. **Maximum Subset Intersection** (Raphaël Clifford and Alexandru Popa), *Information Processing Letters*, Volume 111, Number 7, 2011, pp. 323-325.
27. **On Shortest Common Superstring and Swap Permutations** (Zvi Gotthilf, Moshe Lewenstein, Alexandru Popa), *String Processing and Information Retrieval Symposium (SPIRE)* 2010, pp. 270-278.
28. **Approximation and Hardness Results for the Maximum Edge q -Coloring Problem** (Anna Adamaszek, Alexandru Popa), *International Symposium on Algorithms and Computation (ISAAC)* 2010, Part 2, pp. 132-143.
29. **(In)approximability Results for Pattern Matching Problems** (Raphaël Clifford, Alexandru Popa), *Prague Stringology Conference (PSC)* 2010, pp. 52-62.
30. **Undecidability Results for Finite Interactive Systems** (Alexandru Sofronia, Alexandru Popa, Gheorghe Stefanescu), *Romanian Journal of Information Science and Technology (ROMJIST)*, Volume 12, Number 2, 2009, pp. 265-279.
31. **Generalised Matching** (Raphaël Clifford, Aram Wettroth Harrow, Alexandru Popa, Benjamin Sach), *String Processing and Information Retrieval Symposium (SPIRE)* 2009, pp. 295-301.
32. **Undecidability Results for Finite Interactive Systems** (Alexandru Sofronia, Alexandru Popa, Gheorghe Stefanescu), *International Symposium on Symbolic and Numeric Algorithms for Scientific Computing (SYNASC)* 2008, pp. 366-369.
33. **High-level Structured Interactive Programs with Registers and Voices** (Alexandru Popa, Alexandru Sofronia, Gheorghe Stefanescu), *Journal of Universal Computer Science (JUCS)*, Volume 13, Number 11, 2007, pp. 1722-1754.