

Alexander S Kulikov

List of Publications by Year in descending order

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Version: 2024-02-01

34
papers

20,433
citations

1039406

9
h-index

610482

24
g-index

35
all docs

35
docs citations

35
times ranked

27048
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | SPAdes: A New Genome Assembly Algorithm and Its Applications to Single-Cell Sequencing. Journal of Computational Biology, 2012, 19, 455-477. | 0.8 | 20,193 |
| 2 | Finding Efficient Circuits Using SAT-Solvers. Lecture Notes in Computer Science, 2009, , 32-44. | 1.0 | 27 |
| 3 | On covering graphs by complete bipartite subgraphs. Discrete Mathematics, 2009, 309, 3399-3403. | 0.4 | 21 |
| 4 | New upper bounds on the Boolean circuit complexity of symmetric functions. Information Processing Letters, 2010, 110, 264-267. | 0.4 | 21 |
| 5 | An Elementary Proof of a $3n \sim \omega(n)$ Lower Bound on the Circuit Complexity of Affine Dispersers. Lecture Notes in Computer Science, 2011, , 256-265. | 1.0 | 21 |
| 6 | A new approach to proving upper bounds for MAX-2-SAT. , 2006, , . | | 21 |
| 7 | A Better-Than- $3n$ Lower Bound for the Circuit Complexity of an Explicit Function. , 2016, , . | | 18 |
| 8 | Automated Generation of Simplification Rules for SAT and MAXSAT. Lecture Notes in Computer Science, 2005, , 430-436. | 1.0 | 15 |
| 9 | New Bounds for MAX-SAT by Clause Learning. Lecture Notes in Computer Science, 2007, , 194-204. | 1.0 | 13 |
| 10 | Tight Lower Bounds on Graph Embedding Problems. Journal of the ACM, 2017, 64, 1-22. | 1.8 | 10 |
| 11 | Circuit Complexity and Multiplicative Complexity of Boolean Functions. Lecture Notes in Computer Science, 2010, , 239-245. | 1.0 | 9 |
| 12 | Solving SCS for bounded length strings in fewer than steps. Information Processing Letters, 2014, 114, 421-425. | 0.4 | 8 |
| 13 | On convex complexity measures. Theoretical Computer Science, 2010, 411, 1842-1854. | 0.5 | 7 |
| 14 | Parameterized Complexity of Secluded Connectivity Problems. Theory of Computing Systems, 2017, 61, 795-819. | 0.7 | 7 |
| 15 | Automated Proofs of Upper Bounds on the Running Time of Splitting Algorithms. Lecture Notes in Computer Science, 2004, , 248-259. | 1.0 | 7 |
| 16 | Approximating Shortest Superstring Problem Using de Bruijn Graphs. Lecture Notes in Computer Science, 2013, , 120-129. | 1.0 | 7 |
| 17 | New upper bounds for the problem of maximal satisfiability. Discrete Mathematics and Applications, 2009, 19, . | 0.1 | 6 |
| 18 | New Lower Bounds on Circuit Size of Multi-output Functions. Theory of Computing Systems, 2015, 56, 630-642. | 0.7 | 3 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Greedy Conjecture for Strings of Length 4. Lecture Notes in Computer Science, 2015, , 307-315. | 1.0 | 3 |
| 20 | Families with Infants: A General Approach to Solve Hard Partition Problems. Lecture Notes in Computer Science, 2014, , 551-562. | 1.0 | 3 |
| 21 | Lower Bounds for the Graph Homomorphism Problem. Lecture Notes in Computer Science, 2015, , 481-493. | 1.0 | 2 |
| 22 | Weighted Gate Elimination. , 2016, , . | | 2 |
| 23 | Families with Infants. ACM Transactions on Algorithms, 2016, 12, 1-17. | 0.9 | 2 |
| 24 | Gate elimination: Circuit size lower bounds and #SAT upper bounds. Theoretical Computer Science, 2018, 719, 46-63. | 0.5 | 2 |
| 25 | Solving 3-Superstring in $3^{n/3}$ Time. Lecture Notes in Computer Science, 2013, , 480-491. | 1.0 | 2 |
| 26 | Improving circuit size upper bounds using SAT-solvers. , 2018, , . | | 1 |
| 27 | On the limits of gate elimination. Journal of Computer and System Sciences, 2018, 96, 107-119. | 0.9 | 1 |
| 28 | A $5n \log(n)$ Lower Bound on the Circuit Size over \mathbb{U}_2 of a Linear Boolean Function. Lecture Notes in Computer Science, 2012, , 432-439. | 1.0 | 1 |
| 29 | Parameterized Complexity of Superstring Problems. Algorithmica, 2017, 79, 798-813. | 1.0 | 0 |
| 30 | Preface to the Special Issue on Computer Science in Russia 2016. Theory of Computing Systems, 2018, 62, 465-466. | 0.7 | 0 |
| 31 | Lower Bounds for Unrestricted Boolean Circuits: Open Problems. Lecture Notes in Computer Science, 2018, , 15-22. | 1.0 | 0 |
| 32 | Computing Majority by Constant Depth Majority Circuits with Low Fan-in Gates. Theory of Computing Systems, 2019, 63, 956-986. | 0.7 | 0 |
| 33 | Complexity of Semialgebraic Proofs with Restricted Degree of Falsity. Lecture Notes in Computer Science, 2006, , 11-21. | 1.0 | 0 |
| 34 | Parameterized Complexity of Superstring Problems. Lecture Notes in Computer Science, 2015, , 89-99. | 1.0 | 0 |