Peter Rossmanith

List of Publications by Year
in descending order

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43 papers	1,299 citations	361413 20 h-index	345221 36 g-index
44 all docs	44 docs citations	44 times ranked	559 citing authors

#	Article	IF	Citations
1	A general method to speed up fixed-parameter-tractable algorithms. Information Processing Letters, 2000, 73, 125-129.	0.6	142
2	On efficient fixed-parameter algorithms for weighted vertex cover. Journal of Algorithms, 2003, 47, 63-77.	0.9	126
3	An efficient fixed-parameter algorithm for 3-Hitting Set. Journal of Discrete Algorithms, 2003, 1, 89-102.	0.7	122
4	New Upper Bounds for Maximum Satisfiability. Journal of Algorithms, 2000, 36, 63-88.	0.9	93
5	Worst-case upper bounds for MAX-2-SAT with an application to MAX-CUT. Discrete Applied Mathematics, 2003, 130, 139-155.	0.9	71
6	Linear Kernels and Single-Exponential Algorithms Via Protrusion Decompositions. ACM Transactions on Algorithms, 2016, 12, 1-41.	1.0	65
7	Upper Bounds for Vertex Cover Further Improved. Lecture Notes in Computer Science, 1999, , 561-570.	1.3	56
8	Kernelization using structural parameters on sparse graph classes. Journal of Computer and System Sciences, 2017, 84, 219-242.	1.2	54
9	Parameterized power domination complexity. Information Processing Letters, 2006, 98, 145-149.	0.6	53
10	Randomized Divide-and-Conquer: Improved Path, Matching, and Packing Algorithms. SIAM Journal on Computing, 2009, 38, 2526-2547.	1.0	53
11	Enumerate and Expand: Improved Algorithms for Connected Vertex Cover and Tree Cover. Theory of Computing Systems, 2008, 43, 234-253.	1.1	39
12	The online knapsack problem: Advice and randomization. Theoretical Computer Science, 2014, 527, 61-72.	0.9	37
13	Courcelleâ€™s theoremâ€”A game-theoretic approach. Discrete Optimization, 2011, 8, 568-594.	0.9	32
14	Digraph width measures in parameterized algorithmics. Discrete Applied Mathematics, 2014, 168, 88-107.	0.9	32
15	A Faster Algorithm for the Steiner Tree Problem. Lecture Notes in Computer Science, 2006, , 561-570.	1.3	28
16	An exact algorithm for the Maximum Leaf Spanning Tree problem. Theoretical Computer Science, 2011, 412, 6290-6302.	0.9	25
17	Stochastic Finite Learning of the Pattern Languages. Machine Learning, 2001, 44, 67-91.	5.4	24
18	Fixed-parameter algorithms for vertex cover <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" display="inline" overflow="scroll"><mml:msub><mml:mrow><mml:mi>P</mml:mi></mml:mrow><mml:mrow><mml:mn>3</mml:mn></mml:mrow></m Discrete Optimization, 2016, 19, 12-22.	0.9	24

#	Article	IF	Citations
19	Exact algorithms for problems related to the densest k-set problem. Information Processing Letters, 2014, 114, 510-513.	0.6	22
20	Practical algorithms for MSO model-checking on tree-decomposable graphs. Computer Science Review, 2014, 13-14, 39-74.	15.3	22
21	Are there any good digraph width measures?. Journal of Combinatorial Theory Series B, 2016, 116, 250-286.	1.0	22
22	An efficient automata approach to some problems on context-free grammars. Information Processing Letters, 2000, 74, 221-227.	0.6	19
23	Breaking the <mml:math altimg="si1.gif" overflow="scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:sb="http://www.elsevier.com/xml/common/struct-bib/dtd" xmlns:ce="http://www.elsevier.com/x	0.7	19
24	On Digraph Width Measures in Parameterized Algorithmics. Lecture Notes in Computer Science, 2009, , 185-197.	1.3	19
25	A Bound on the Pathwidth of Sparse Graphs with Applications to Exact Algorithms. SIAM Journal on Discrete Mathematics, 2009, 23, 407-427.	0.8	18
26	A New Algorithm for Finding Trees with Many Leaves. Algorithmica, 2011, 61, 882-897.	1.3	12
27	Fast exact algorithm for<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" display="inline" overflow="scroll"><mml:mi>L</mml:mi><mml:mrow><mml:mo>(</mml:mo><mml:mn>2</mml:mn><mml:mo>,</mml:mo><mml:mn>1 of graphs. Theoretical Computer Science, 2013, 505, 42-54.	0.9	11
28	On the Power of Randomness versus Advice in Online Computation. Lecture Notes in Computer Science, 2012, , 30-43.	1.3	10
29	Observations on log (n) time parallel recognition of unambiguous cfl's. Information Processing Letters, 1992, 44, 267-272.	0.6	9
30	Lower bounds on the complexity ofMSO1model-checking. Journal of Computer and System Sciences, 2014, 80, 180-194.	1.2	8
31	Structural sparsity of complex networks: Bounded expansion in random models and real-world graphs. Journal of Computer and System Sciences, 2019, 105, 199-241.	1.2	7
32	New Fixed-Parameter Algorithms for the Minimum Quartet Inconsistency Problem. Theory of Computing Systems, 2010, 47, 342-367.	1.1	5
33	Recognition of probe distance-hereditary graphs. Discrete Applied Mathematics, 2013, 161, 336-348.	0.9	4
34	Online Node- and Edge-Deletion Problems with Advice. Algorithmica, 2021, 83, 2719-2753.	1.3	4
35	Linear-Time Algorithms for Graphs of Bounded Rankwidth: A Fresh Look Using Game Theory. Lecture Notes in Computer Science, 2011, , 505-516.	1.3	4
36	A Property Tester for Tree-Likeness of Quartet Topologies. Theory of Computing Systems, 2011, 49, 576-587.	1.1	2

#	Article	IF	Citations
37	Width, Depth, and Space: Tradeoffs between Branching and Dynamic Programming. Algorithms, 2018, 11, 98.	2.1	2
38	Moderately exponential time algorithms for the maximum bounded-degree-1 set problem. Discrete Applied Mathematics, 2018, 251, 114-125.	0.9	2
39	Further Results on Online Node- and Edge-Deletion Problems with Advice. Lecture Notes in Computer Science, 2020, , 140-153.	1.3	1
40	The Secretary Problem with Reservation Costs. Lecture Notes in Computer Science, 2021, , 553-564.	1.3	1
41	Testing consistency of quartet topologies: A parameterized approach. Information Processing Letters, 2013, 113, 852-857.	0.6	0
42	What one has to know when attacking P vs. NP. Journal of Computer and System Sciences, 2020, 107, 142-155.	1.2	0
43	Simulated Annealing. , 2008, , 423-431.		0