

# 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	Online Node- and Edge-Deletion Problems with Advice. <i>Algorithmica</i> , 2021, 83, 2719-2753.	1.3	4
2	The Secretary Problem with Reservation Costs. <i>Lecture Notes in Computer Science</i> , 2021, , 553-564.	1.3	1
3	What one has to know when attacking P vs. NP. <i>Journal of Computer and System Sciences</i> , 2020, 107, 142-155.	1.2	0
4	Further Results on Online Node- and Edge-Deletion Problems with Advice. <i>Lecture Notes in Computer Science</i> , 2020, , 140-153.	1.3	1
5	Structural sparsity of complex networks: Bounded expansion in random models and real-world graphs. <i>Journal of Computer and System Sciences</i> , 2019, 105, 199-241.	1.2	7
6	Width, Depth, and Space: Tradeoffs between Branching and Dynamic Programming. <i>Algorithms</i> , 2018, 11, 98.	2.1	2
7	Moderately exponential time algorithms for the maximum bounded-degree-1 set problem. <i>Discrete Applied Mathematics</i> , 2018, 251, 114-125.	0.9	2
8	Kernelization using structural parameters on sparse graph classes. <i>Journal of Computer and System Sciences</i> , 2017, 84, 219-242.	1.2	54
9	Fixed-parameter algorithms for vertex cover $P^{3,24}$ . <i>Discrete Optimization</i> , 2016, 19, 12-22.	0.9	24
10	Are there any good digraph width measures?. <i>Journal of Combinatorial Theory Series B</i> , 2016, 116, 250-286.	1.0	22
11	Linear Kernels and Single-Exponential Algorithms Via Protrusion Decompositions. <i>ACM Transactions on Algorithms</i> , 2016, 12, 1-41.	1.0	65
12	Digraph width measures in parameterized algorithmics. <i>Discrete Applied Mathematics</i> , 2014, 168, 88-107.	0.9	32
13	Exact algorithms for problems related to the densest k-set problem. <i>Information Processing Letters</i> , 2014, 114, 510-513.	0.6	22
14	Practical algorithms for MSO model-checking on tree-decomposable graphs. <i>Computer Science Review</i> , 2014, 13-14, 39-74.	15.3	22
15	The online knapsack problem: Advice and randomization. <i>Theoretical Computer Science</i> , 2014, 527, 61-72.	0.9	37
16	Lower bounds on the complexity of MSO1 model-checking. <i>Journal of Computer and System Sciences</i> , 2014, 80, 180-194.	1.2	8
17	Testing consistency of quartet topologies: A parameterized approach. <i>Information Processing Letters</i> , 2013, 113, 852-857.	0.6	0
18	Fast exact algorithm for $L_{2,2}$ of graphs. <i>Theoretical Computer Science</i> , 2013, 505, 42-54.	0.9	11

#	ARTICLE	IF	CITATIONS
19	Recognition of probe distance-hereditary graphs. <i>Discrete Applied Mathematics</i> , 2013, 161, 336-348.	0.9	4
20	On the Power of Randomness versus Advice in Online Computation. <i>Lecture Notes in Computer Science</i> , 2012, , 30-43.	1.3	10
21	An exact algorithm for the Maximum Leaf Spanning Tree problem. <i>Theoretical Computer Science</i> , 2011, 412, 6290-6302.	0.9	25
22	Courcelle's theorem – A game-theoretic approach. <i>Discrete Optimization</i> , 2011, 8, 568-594.	0.9	32
23	A New Algorithm for Finding Trees with Many Leaves. <i>Algorithmica</i> , 2011, 61, 882-897.	1.3	12
24	A Property Tester for Tree-Likeness of Quartet Topologies. <i>Theory of Computing Systems</i> , 2011, 49, 576-587.	1.1	2
25	Breaking the $\langle \text{mml:math altimg}="si1.gif" \text{ overflow}="scroll" \rangle$ <small>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:tbl_struct="http://www.elsevier.com/xml/common/struct-bib/dtd" xmlns:tbl_struct="http://www.elsevier.com/xml/common/struct-bib/dtd" id="tbl_struct_1" data-bbox="82 365 942 425"/&gt;</small> <small>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:tbl_struct="http://www.elsevier.com/xml/common/struct-bib/dtd" xmlns:tbl_struct="http://www.elsevier.com/xml/common/struct-bib/dtd" id="tbl_struct_1" data-bbox="82 365 942 425"/&gt;</small>	0.7	19
26	Linear-Time Algorithms for Graphs of Bounded Rankwidth: A Fresh Look Using Game Theory. <i>Lecture Notes in Computer Science</i> , 2011, , 505-516.	1.3	4
27	New Fixed-Parameter Algorithms for the Minimum Quartet Inconsistency Problem. <i>Theory of Computing Systems</i> , 2010, 47, 342-367.	1.1	5
28	Randomized Divide-and-Conquer: Improved Path, Matching, and Packing Algorithms. <i>SIAM Journal on Computing</i> , 2009, 38, 2526-2547.	1.0	53
29	A Bound on the Pathwidth of Sparse Graphs with Applications to Exact Algorithms. <i>SIAM Journal on Discrete Mathematics</i> , 2009, 23, 407-427.	0.8	18
30	On Digraph Width Measures in Parameterized Algorithmics. <i>Lecture Notes in Computer Science</i> , 2009, , 185-197.	1.3	19
31	Enumerate and Expand: Improved Algorithms for Connected Vertex Cover and Tree Cover. <i>Theory of Computing Systems</i> , 2008, 43, 234-253.	1.1	39
32	Simulated Annealing. , 2008, , 423-431.		0
33	Parameterized power domination complexity. <i>Information Processing Letters</i> , 2006, 98, 145-149.	0.6	53
34	A Faster Algorithm for the Steiner Tree Problem. <i>Lecture Notes in Computer Science</i> , 2006, , 561-570.	1.3	28
35	Worst-case upper bounds for MAX-2-SAT with an application to MAX-CUT. <i>Discrete Applied Mathematics</i> , 2003, 130, 139-155.	0.9	71
36	An efficient fixed-parameter algorithm for 3-Hitting Set. <i>Journal of Discrete Algorithms</i> , 2003, 1, 89-102.	0.7	122

#	ARTICLE	IF	CITATIONS
37	On efficient fixed-parameter algorithms for weighted vertex cover. Journal of Algorithms, 2003, 47, 63-77.	0.9	126
38	Stochastic Finite Learning of the Pattern Languages. Machine Learning, 2001, 44, 67-91.	5.4	24
39	New Upper Bounds for Maximum Satisfiability. Journal of Algorithms, 2000, 36, 63-88.	0.9	93
40	A general method to speed up fixed-parameter-tractable algorithms. Information Processing Letters, 2000, 73, 125-129.	0.6	142
41	An efficient automata approach to some problems on context-free grammars. Information Processing Letters, 2000, 74, 221-227.	0.6	19
42	Upper Bounds for Vertex Cover Further Improved. Lecture Notes in Computer Science, 1999, , 561-570.	1.3	56
43	Observations on $\log(n)$ time parallel recognition of unambiguous cfl's. Information Processing Letters, 1992, 44, 267-272.	0.6	9