Venkatesh Raman

List of Publications by Year
in descending order

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		218381	182168
85	2,776	26	51
papers	citations	h-index	g-index

86	86	86	671
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Frameworks for designing in-place graph algorithms. Journal of Computer and System Sciences, 2022, 123, 1-19.	0.9	0
2	Parameterized Complexity of Conflict-Free Set Cover. Theory of Computing Systems, 2021, 65, 515-540.	0.7	2
3	Approximation in (Poly-) Logarithmic Space. Algorithmica, 2021, 83, 2303-2331.	1.0	1
4	Recognizing k-Clique Extendible Orderings. Algorithmica, 2021, 83, 3338.	1.0	0
5	Sublinear-Space Approximation Algorithms for Max r-SAT. Lecture Notes in Computer Science, 2021, , 124-136.	1.0	0
6	A Polynomial Sized Kernel for Tracking Paths Problem. Algorithmica, 2020, 82, 41-63.	1.0	10
7	Parameterized Complexity of Geometric Covering Problems Having Conflicts. Algorithmica, 2020, 82, 1-19.	1.0	3
8	A characterization of KÃ¶nig-EgervÃ¡ry graphs with extendable vertex covers. Information Processing Letters, 2020, 161, 105964.	0.4	0
9	Fully dynamic arboricity maintenance. Theoretical Computer Science, 2020, 822, 1-14.	0.5	0
10	Recognizing k-Clique Extendible Orderings. Lecture Notes in Computer Science, 2020, , 274-285.	1.0	2
11	Parameterized Algorithms for Max Colorable Induced Subgraph Problem on Perfect Graphs. Algorithmica, 2019, 81, 26-46.	1.0	2
12	Tractability of KÃ¶nig edge deletion problems. Theoretical Computer Science, 2019, 796, 207-215.	0.5	2
13	Harmonious coloring: Parameterized algorithms and upper bounds. Theoretical Computer Science, 2019, 772, 132-142.	0.5	1
14	Parameterized Complexity of Conflict-Free Set Cover. Lecture Notes in Computer Science, 2019, , 191-202.	1.0	2
15	Selection and Sorting in the â€œRestoreâ€•Model. ACM Transactions on Algorithms, 2018, 14, 1-18.	0.9	5
16	Space Efficient Linear Time Algorithms for BFS, DFS and Applications. Theory of Computing Systems, 2018, 62, 1736-1762.	0.7	19
17	Revisiting Connected Vertex Cover: FPT Algorithms and Lossy Kernels. Theory of Computing Systems, 2018, 62, 1690-1714.	0.7	10
18	Polynomial Kernels for Vertex Cover Parameterized by Small Degree Modulators. Theory of Computing Systems, 2018, 62, 1910-1951.	0.7	9

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19	Approximability of Clique Transversal in Perfect Graphs. Algorithmica, 2018, 80, 2221-2239.	1.0	1
20	FrÃ©chet Distance Between a Line and Avatar Point Set. Algorithmica, 2018, 80, 2616-2636.	1.0	3
21	Structural Parameterizations of Undirected Feedback Vertex Set: FPT Algorithms and Kernelization. Algorithmica, 2018, 80, 2683-2724.	1.0	5
22	Structural Parameterizations ofÂDominating Set Variants. Lecture Notes in Computer Science, 2018, , 157-168.	1.0	3
23	On the Parameterized Complexity of Reconfiguration Problems. Algorithmica, 2017, 78, 274-297.	1.0	32
24	Biconnectivity, st-numbering and other applications of DFS using O(n) bits. Journal of Computer and System Sciences, 2017, 90, 63-79.	0.9	9
25	Finding modes with equality comparisons. Theoretical Computer Science, 2017, 704, 28-41.	0.5	1
26	On the Succinct Representation of Equivalence Classes. Algorithmica, 2017, 78, 1020-1040.	1.0	4
27	FPT Algorithms for FVS Parameterized by Split and Cluster Vertex Deletion Sets and Other Parameters. Lecture Notes in Computer Science, 2017, , 209-220.	1.0	2
28	Space efficient data structures for nearest larger neighbor. Journal of Discrete Algorithms, 2016, 36, 63-75.	0.7	4
29	Improved Space Efficient Algorithms for BFS, DFS and Applications. Lecture Notes in Computer Science, 2016, , 119-130.	1.0	11
30	Finding median in read-only memory on integer input. Theoretical Computer Science, 2015, 583, 51-56.	0.5	3
31	Time-Space Tradeoffs for Dynamic Programming Algorithms in Trees and Bounded Treewidth Graphs. Lecture Notes in Computer Science, 2015, , 349-360.	1.0	8
32	Selection and Sorting in the â€œRestoreâ€•Model. , 2014, , .		7
33	Faster Parameterized Algorithms Using Linear Programming. ACM Transactions on Algorithms, 2014, 11, 1-31.	0.9	109
34	Parameter ecology for Feedback Vertex Set. Tsinghua Science and Technology, 2014, 19, 387-409.	4.1	21
35	Fixed-Parameter Tractability of Satisfying Beyond the Number of Variables. Algorithmica, 2014, 68, 739-757.	1.0	3
36	The Kernelization Complexity of Connected Domination in Graphs with (no) Small Cycles. Algorithmica, 2014, 68, 504-530.	1.0	8

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37	A Polynomial Kernel for Feedback Arc Set on Bipartite Tournaments. Theory of Computing Systems, 2013, 53, 609-620.	0.7	34
38	Guest Editorial: Special Issue on Parameterized and Exact Computation, Part II. Algorithmica, 2013, 65, 711-712.	1.0	0
39	The Parameterized Complexity of Unique Coverage and Its Variants. Algorithmica, 2013, 65, 517-544.	1.0	12
40	Fixed-parameter algorithms for Cochromatic Number and Disjoint Rectangle Stabbing via iterative localization. Information and Computation, 2013, 231, 109-116.	0.5	35
41	Solving min ones 2 -sat as fast as vertex cover. Theoretical Computer Science, 2013, 506, 115-121.	0.5	7
42	Beyond bidimensionality: Parameterized subexponential algorithms on directed graphs. Information and Computation, 2013, 233, 60-70.	0.5	13
43	Faster, Space-Efficient Selection Algorithms in Read-Only Memory for Integers. Lecture Notes in Computer Science, 2013, , 405-412.	1.0	5
44	Parameterized Algorithms for Max Colorable Induced Subgraph Problem on Perfect Graphs. Lecture Notes in Computer Science, 2013, , 370-381.	1.0	5
45	An FPT Algorithm for Tree Deletion Set. Lecture Notes in Computer Science, 2013, , 286-297.	1.0	1
46	Polynomial kernels for dominating set in graphs of bounded degeneracy and beyond. ACM Transactions on Algorithms, 2012, 9, 1-23.	0.9	53
47	Maximum r-Regular Induced Subgraph Problem: Fast Exponential Algorithms and Combinatorial Bounds. SIAM Journal on Discrete Mathematics, 2012, 26, 1758-1780.	0.4	26
48	On Parameterized Independent Feedback Vertex Set. Theoretical Computer Science, 2012, 461, 65-75.	0.5	59
49	FPT algorithms for Connected Feedback Vertex Set. Journal of Combinatorial Optimization, 2012, 24, 131-146.	0.8	24
50	Guest Editorial: Special Issue on Parameterized and Exact Computation, Part I. Algorithmica, 2012, 64, 1-2.	1.0	0
51	Succinct representations of permutations and functions. Theoretical Computer Science, 2012, 438, 74-88.	0.5	58
52	Faster algorithms for finding and counting subgraphs. Journal of Computer and System Sciences, 2012, 78, 698-706.	0.9	53
53	Vertex Cover, Dominating Set and My Encounters with Parameterized Complexity and Mike Fellows. Lecture Notes in Computer Science, 2012, , 69-73.	1.0	0
54	The Complexity of KÃ¶nig Subgraph Problems andÂAbove-Guarantee Vertex Cover. Algorithmica, 2011, 61, 857-881.	1.0	34

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55	On the directed Full Degree Spanning Tree problem. Discrete Optimization, 2011, 8, 97-109.	0.6	2
56	Lower bounds on kernelization. Discrete Optimization, 2011, 8, 110-128.	0.6	63
57	Subexponential algorithms for partial cover problems. Information Processing Letters, 2011, 111, 814-818.	0.4	29
58	Paths, Flowers and Vertex Cover. Lecture Notes in Computer Science, 2011, , 382-393.	1.0	24
59	A Polynomial Kernel for Feedback Arc Set on Bipartite Tournaments. Lecture Notes in Computer Science, 2011, , 333-343.	1.0	1
60	Parameterizing above or below guaranteed values. Journal of Computer and System Sciences, 2009, 75, 137-153.	0.9	106
61	Solving Dominating Set in Larger Classes of Graphs: FPT Algorithms and Polynomial Kernels. Lecture Notes in Computer Science, 2009, , 694-705.	1.0	14
62	Short Cycles Make W-hard Problems Hard: FPTÂAlgorithms for W-hard Problems in Graphs withÂnoÂShort Cycles. Algorithmica, 2008, 52, 203-225.	1.0	95
63	KÃ¶nig Deletion Sets and Vertex Covers above the Matching Size. Lecture Notes in Computer Science, 2008, , 836-847.	1.0	3
64	Succinct indexable dictionaries with applications to encoding k -ary trees, prefix sums and multisets. ACM Transactions on Algorithms, 2007, 3, 43.	0.9	292
65	Efficient Exact Algorithms through Enumerating Maximal Independent Sets and Other Techniques. Theory of Computing Systems, 2007, 41, 563-587.	0.7	42
66	Parameterized complexity of the induced subgraph problem in directed graphs. Information Processing Letters, 2007, 104, 79-85.	0.4	9
67	Improved fixed parameter tractable algorithms for two â€œedgeâ€•problems: MAXCUT and MAXDAG. Information Processing Letters, 2007, 104, 65-72.	0.4	18
68	A simple optimal representation for balanced parentheses. Theoretical Computer Science, 2006, 368, 231-246.	0.5	78
69	Parameterized algorithms for feedback set problems and their duals in tournaments. Theoretical Computer Science, 2006, 351, 446-458.	0.5	67
70	Succinct ordinal trees with level-ancestor queries. ACM Transactions on Algorithms, 2006, 2, 510-534.	0.9	69
71	Triangles, 4-Cycles and Parameterized (In-)Tractability. Lecture Notes in Computer Science, 2006, , 304-315.	1.0	5
72	Faster algorithms for feedback vertex set. Electronic Notes in Discrete Mathematics, 2005, 19, 273-279.	0.4	10

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73	Representing Trees of Higher Degree. Algorithmica, 2005, 43, 275-292.	1.0	176
74	Improved Parameterized Algorithms for Feedback Set Problems in Weighted Tournaments. Lecture Notes in Computer Science, 2004, , 260-270.	1.0	4
75	Succinct Representations of Permutations. Lecture Notes in Computer Science, 2003, , 345-356.	1.0	44
76	Parameterized Complexity of Directed Feedback Set Problems in Tournaments. Lecture Notes in Computer Science, 2003, , 484-492.	1.0	3
77	Parameterized complexity of finding subgraphs with hereditary properties. Theoretical Computer Science, 2002, 289, 997-1008.	0.5	130
78	Faster Fixed Parameter Tractable Algorithms for Undirected Feedback Vertex Set. Lecture Notes in Computer Science, 2002, , 241-248.	1.0	27
79	Succinct Representation of Balanced Parentheses and Static Trees. SIAM Journal on Computing, 2001, 31, 762-776.	0.8	264
80	Space Efficient Suffix Trees. Journal of Algorithms, 2001, 39, 205-222.	0.9	89
81	Succinct Dynamic Data Structures. Lecture Notes in Computer Science, 2001, , 426-437.	1.0	55
82	The complexity of irredundant sets parameterized by size. Discrete Applied Mathematics, 2000, 100, 155-167.	0.5	22
83	Parameterizing above Guaranteed Values: MaxSat and MaxCut. Journal of Algorithms, 1999, 31, 335-354.	0.9	243
84	Selection from read-only memory and sorting with minimum data movement. Theoretical Computer Science, 1996, 165, 311-323.	0.5	57
85	Structural Parameterizations with Modulator Oblivion. Algorithmica, 0, , 1.	1.0	2