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	Succinct indexable dictionaries with applications to encoding k -ary trees, prefix sums and multisets. ACM Transactions on Algorithms, 2007, 3, 43.	0.9	292
2	Succinct Representation of Balanced Parentheses and Static Trees. SIAM Journal on Computing, 2001, 31, 762-776.	0.8	264
3	Parameterizing above Guaranteed Values: MaxSat and MaxCut. Journal of Algorithms, 1999, 31, 335-354.	0.9	243
4	Representing Trees of Higher Degree. Algorithmica, 2005, 43, 275-292.	1.0	176
5	Parameterized complexity of finding subgraphs with hereditary properties. Theoretical Computer Science, 2002, 289, 997-1008.	0.5	130
6	Faster Parameterized Algorithms Using Linear Programming. ACM Transactions on Algorithms, 2014, 11, 1-31.	0.9	109
7	Parameterizing above or below guaranteed values. Journal of Computer and System Sciences, 2009, 75, 137-153.	0.9	106
8	Short Cycles Make W-hard Problems Hard: FPTÂAlgorithms for W-hard Problems in Graphs withÂnoÂShort Cycles. Algorithmica, 2008, 52, 203-225.	1.0	95
9	Space Efficient Suffix Trees. Journal of Algorithms, 2001, 39, 205-222.	0.9	89
10	A simple optimal representation for balanced parentheses. Theoretical Computer Science, 2006, 368, 231-246.	0.5	78
11	Succinct ordinal trees with level-ancestor queries. ACM Transactions on Algorithms, 2006, 2, 510-534.	0.9	69
12	Parameterized algorithms for feedback set problems and their duals in tournaments. Theoretical Computer Science, 2006, 351, 446-458.	0.5	67
13	Lower bounds on kernelization. Discrete Optimization, 2011, 8, 110-128.	0.6	63
14	On Parameterized Independent Feedback Vertex Set. Theoretical Computer Science, 2012, 461, 65-75.	0.5	59
15	Succinct representations of permutations and functions. Theoretical Computer Science, 2012, 438, 74-88.	0.5	58
16	Selection from read-only memory and sorting with minimum data movement. Theoretical Computer Science, 1996, 165, 311-323.	0.5	57
17	Succinct Dynamic Data Structures. Lecture Notes in Computer Science, 2001, , 426-437.	1.0	55
18	Polynomial kernels for dominating set in graphs of bounded degeneracy and beyond. ACM Transactions on Algorithms, 2012, 9, 1-23.	0.9	53

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19	Faster algorithms for finding and counting subgraphs. Journal of Computer and System Sciences, 2012, 78, 698-706.	0.9	53
20	Succinct Representations of Permutations. Lecture Notes in Computer Science, 2003, , 345-356.	1.0	44
21	Efficient Exact Algorithms through Enumerating Maximal Independent Sets and Other Techniques. Theory of Computing Systems, 2007, 41, 563-587.	0.7	42
22	Fixed-parameter algorithms for Cochromatic Number and Disjoint Rectangle Stabbing via iterative localization. Information and Computation, 2013, 231, 109-116.	0.5	35
23	The Complexity of KÃ¶nig Subgraph Problems andÂAbove-Guarantee Vertex Cover. Algorithmica, 2011, 61, 857-881.	1.0	34
24	A Polynomial Kernel for Feedback Arc Set on Bipartite Tournaments. Theory of Computing Systems, 2013, 53, 609-620.	0.7	34
25	On the Parameterized Complexity of Reconfiguration Problems. Algorithmica, 2017, 78, 274-297.	1.0	32
26	Subexponential algorithms for partial cover problems. Information Processing Letters, 2011, 111, 814-818.	0.4	29
27	Faster Fixed Parameter Tractable Algorithms for Undirected Feedback Vertex Set. Lecture Notes in Computer Science, 2002, , 241-248.	1.0	27
28	Maximum r-Regular Induced Subgraph Problem: Fast Exponential Algorithms and Combinatorial Bounds. SIAM Journal on Discrete Mathematics, 2012, 26, 1758-1780.	0.4	26
29	FPT algorithms for Connected Feedback Vertex Set. Journal of Combinatorial Optimization, 2012, 24, 131-146.	0.8	24
30	Paths, Flowers and Vertex Cover. Lecture Notes in Computer Science, 2011, , 382-393.	1.0	24
31	The complexity of irredundant sets parameterized by size. Discrete Applied Mathematics, 2000, 100, 155-167.	0.5	22
32	Parameter ecology for Feedback Vertex Set. Tsinghua Science and Technology, 2014, 19, 387-409.	4.1	21
33	Space Efficient Linear Time Algorithms for BFS, DFS and Applications. Theory of Computing Systems, 2018, 62, 1736-1762.	0.7	19
34	Improved fixed parameter tractable algorithms for two â€œedgeâ€•problems: MAXCUT and MAXDAG. Information Processing Letters, 2007, 104, 65-72.	0.4	18
35	Solving Dominating Set in Larger Classes of Graphs: FPT Algorithms and Polynomial Kernels. Lecture Notes in Computer Science, 2009, , 694-705.	1.0	14
36	Beyond bidimensionality: Parameterized subexponential algorithms on directed graphs. Information and Computation, 2013, 233, 60-70.	0.5	13

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37	The Parameterized Complexity of Unique Coverage and Its Variants. Algorithmica, 2013, 65, 517-544.	1.0	12
38	Improved Space Efficient Algorithms for BFS, DFS and Applications. Lecture Notes in Computer Science, 2016, , 119-130.	1.0	11
39	Faster algorithms for feedback vertex set. Electronic Notes in Discrete Mathematics, 2005, 19, 273-279.	0.4	10
40	Revisiting Connected Vertex Cover: FPT Algorithms and Lossy Kernels. Theory of Computing Systems, 2018, 62, 1690-1714.	0.7	10
41	A Polynomial Sized Kernel for Tracking Paths Problem. Algorithmica, 2020, 82, 41-63.	1.0	10
42	Parameterized complexity of the induced subgraph problem in directed graphs. Information Processing Letters, 2007, 104, 79-85.	0.4	9
43	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
44	Polynomial Kernels for Vertex Cover Parameterized by Small Degree Modulators. Theory of Computing Systems, 2018, 62, 1910-1951.	0.7	9
45	The Kernelization Complexity of Connected Domination in Graphs with (no) Small Cycles. Algorithmica, 2014, 68, 504-530.	1.0	8
46	Time-Space Tradeoffs for Dynamic Programming Algorithms in Trees and Bounded Treewidth Graphs. Lecture Notes in Computer Science, 2015, , 349-360.	1.0	8
47	Solving min ones 2 -sat as fast as vertex cover. Theoretical Computer Science, 2013, 506, 115-121.	0.5	7
48	Selection and Sorting in the â€œRestoreâ€•Model. , 2014, , .		7
49	Selection and Sorting in the â€œRestoreâ€•Model. ACM Transactions on Algorithms, 2018, 14, 1-18.	0.9	5
50	Structural Parameterizations of Undirected Feedback Vertex Set: FPT Algorithms and Kernelization. Algorithmica, 2018, 80, 2683-2724.	1.0	5
51	Triangles, 4-Cycles and Parameterized (In-)Tractability. Lecture Notes in Computer Science, 2006, , 304-315.	1.0	5
52	Faster, Space-Efficient Selection Algorithms in Read-Only Memory for Integers. Lecture Notes in Computer Science, 2013, , 405-412.	1.0	5
53	Parameterized Algorithms for Max Colorable Induced Subgraph Problem on Perfect Graphs. Lecture Notes in Computer Science, 2013, , 370-381.	1.0	5
54	Space efficient data structures for nearest larger neighbor. Journal of Discrete Algorithms, 2016, 36, 63-75.	0.7	4

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55	On the Succinct Representation of Equivalence Classes. Algorithmica, 2017, 78, 1020-1040.	1.0	4
56	Improved Parameterized Algorithms for Feedback Set Problems in Weighted Tournaments. Lecture Notes in Computer Science, 2004, , 260-270.	1.0	4
57	Fixed-Parameter Tractability of Satisfying Beyond the Number of Variables. Algorithmica, 2014, 68, 739-757.	1.0	3
58	Finding median in read-only memory on integer input. Theoretical Computer Science, 2015, 583, 51-56.	0.5	3
59	FrÃ©chet Distance Between a Line and Avatar Point Set. Algorithmica, 2018, 80, 2616-2636.	1.0	3
60	Parameterized Complexity of Geometric Covering Problems Having Conflicts. Algorithmica, 2020, 82, 1-19.	1.0	3
61	Structural Parameterizations ofÂDominating Set Variants. Lecture Notes in Computer Science, 2018, , 157-168.	1.0	3
62	Parameterized Complexity of Directed Feedback Set Problems in Tournaments. Lecture Notes in Computer Science, 2003, , 484-492.	1.0	3
63	KÃ¶nig Deletion Sets and Vertex Covers above the Matching Size. Lecture Notes in Computer Science, 2008, , 836-847.	1.0	3
64	On the directed Full Degree Spanning Tree problem. Discrete Optimization, 2011, 8, 97-109.	0.6	2
65	Parameterized Algorithms for Max Colorable Induced Subgraph Problem on Perfect Graphs. Algorithmica, 2019, 81, 26-46.	1.0	2
66	Tractability of KÃ¶nig edge deletion problems. Theoretical Computer Science, 2019, 796, 207-215.	0.5	2
67	Parameterized Complexity of Conflict-Free Set Cover. Theory of Computing Systems, 2021, 65, 515-540.	0.7	2
68	Parameterized Complexity of Conflict-Free Set Cover. Lecture Notes in Computer Science, 2019, , 191-202.	1.0	2
69	Recognizing k-Clique Extendible Orderings. Lecture Notes in Computer Science, 2020, , 274-285.	1.0	2
70	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
71	Structural Parameterizations with Modulator Oblivion. Algorithmica, 0, , 1.	1.0	2
72	Finding modes with equality comparisons. Theoretical Computer Science, 2017, 704, 28-41.	0.5	1

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73	Approximability of Clique Transversal in Perfect Graphs. Algorithmica, 2018, 80, 2221-2239.	1.0	1
74	Harmonious coloring: Parameterized algorithms and upper bounds. Theoretical Computer Science, 2019, 772, 132-142.	0.5	1
75	Approximation in (Poly-) Logarithmic Space. Algorithmica, 2021, 83, 2303-2331.	1.0	1
76	A Polynomial Kernel for Feedback Arc Set on Bipartite Tournaments. Lecture Notes in Computer Science, 2011, , 333-343.	1.0	1
77	An FPT Algorithm for Tree Deletion Set. Lecture Notes in Computer Science, 2013, , 286-297.	1.0	1
78	Guest Editorial: Special Issue on Parameterized and Exact Computation, Part I. Algorithmica, 2012, 64, 1-2.	1.0	0
79	Guest Editorial: Special Issue on Parameterized and Exact Computation, Part II. Algorithmica, 2013, 65, 711-712.	1.0	0
80	A characterization of KÃ¶nig-EgervÃ¡ry graphs with extendable vertex covers. Information Processing Letters, 2020, 161, 105964.	0.4	0
81	Fully dynamic arboricity maintenance. Theoretical Computer Science, 2020, 822, 1-14.	0.5	0
82	Frameworks for designing in-place graph algorithms. Journal of Computer and System Sciences, 2022, 123, 1-19.	0.9	0
83	Recognizing k-Clique Extendible Orderings. Algorithmica, 2021, 83, 3338.	1.0	0
84	Sublinear-Space Approximation Algorithms for Max r-SAT. Lecture Notes in Computer Science, 2021, , 124-136.	1.0	0
85	Vertex Cover, Dominating Set and My Encounters with Parameterized Complexity and Mike Fellows. Lecture Notes in Computer Science, 2012, , 69-73.	1.0	0