Christian Komusiewicz

List of Publications by Year
in descending order

94	1,049	516710 16	526287 27
papers	citations	h-index	g-index

103	103	103	539
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Fixed-Parameter Algorithms forÂCluster Vertex Deletion. Theory of Computing Systems, 2010, 47, 196-217.	1.1	74
2	Cluster editing with locally bounded modifications. Discrete Applied Mathematics, 2012, 160, 2259-2270.	0.9	73
3	Graph-based data clustering with overlaps. Discrete Optimization, 2011, 8, 2-17.	0.9	58
4	Parameterized computational complexity of finding small-diameter subgraphs. Optimization Letters, 2012, 6, 883-891.	1.6	58
5	Parameterized Algorithmics for Finding Connected Motifs in Biological Networks. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2011, 8, 1296-1308.	3.0	43
6	Isolation concepts for efficiently enumerating dense subgraphs. Theoretical Computer Science, 2009, 410, 3640-3654.	0.9	36
7	On Generating Triangle-Free Graphs. Electronic Notes in Discrete Mathematics, 2009, 32, 51-58.	0.4	33
8	Average parameterization and partial kernelization for computing medians. Journal of Computer and System Sciences, 2011, 77, 774-789.	1.2	33
9	A More Relaxed Model for Graph-Based Data Clustering: s-Plex Cluster Editing. SIAM Journal on Discrete Mathematics, 2010, 24, 1662-1683.	0.8	31
10	Multivariate Algorithmics for Finding Cohesive Subnetworks. Algorithms, 2016, 9, 21.	2.1	30
11	Parameterized Algorithms and Hardness Results for Some Graph Motif Problems. , 2008, , 31-43.		26
12	New Races in Parameterized Algorithmics. Lecture Notes in Computer Science, 2012, , 19-30.	1.3	26
13	A graph modification approach for finding coreâ€“periphery structures in protein interaction networks. Algorithms for Molecular Biology, 2015, 10, 16.	1.2	24
14	Parameterized Algorithmics and Computational Experiments for Finding 2-Clubs. Journal of Graph Algorithms and Applications, 2015, 19, 155-190.	0.4	22
15	An algorithmic framework for fixed-cardinality optimization in sparse graphs applied to dense subgraph problems. Discrete Applied Mathematics, 2015, 193, 145-161.	0.9	20
16	H-index manipulation by merging articles: Models, theory, and experiments. Artificial Intelligence, 2016, 240, 19-35.	5.8	20
17	Deconstructing intractabilityâ€”A multivariate complexity analysis of interval constrained coloring. Journal of Discrete Algorithms, 2011, 9, 137-151.	0.7	17
18	A parameterized approximation algorithm for the mixed and windy capacitated arc routing problem: Theory and experiments. Networks, 2017, 70, 262-278.	2.7	15

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19	Measuring Indifference: Unit Interval Vertex Deletion. Lecture Notes in Computer Science, 2010, , 232-243.	1.3	15
20	Partitioning Biological Networks into Highly Connected Clusters with Maximum Edge Coverage. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2014, 11, 455-467.	3.0	14
21	Matching cut: Kernelization, single-exponential time FPT, and exact exponential algorithms. Discrete Applied Mathematics, 2020, 283, 44-58.	0.9	14
22	Improved Algorithms for Bicluster Editing. , 2008, , 445-456.		14
23	Finding Dense Subgraphs of Sparse Graphs. Lecture Notes in Computer Science, 2012, , 242-251.	1.3	14
24	Editing Graphs into Disjoint Unions of Dense Clusters. Algorithmica, 2011, 61, 949-970.	1.3	13
25	On structural parameterizations for the 2-club problem. Discrete Applied Mathematics, 2015, 185, 79-92.	0.9	13
26	Evaluation of ILP-Based Approaches for Partitioning into Colorful Components. Lecture Notes in Computer Science, 2013, , 176-187.	1.3	13
27	Isolation concepts for clique enumeration: Comparison and computational experiments. Theoretical Computer Science, 2009, 410, 5384-5397.	0.9	12
28	Polynomial-Time Data Reduction for the Subset Interconnection Design Problem. SIAM Journal on Discrete Mathematics, 2015, 29, 1-25.	0.8	12
29	Fixed-Parameter Algorithms for Cluster Vertex Deletion. , 2008, , 711-722.		11
30	Deconstructing Intractability: A Case Study for IntervalÂConstrainedÂColoring. Lecture Notes in Computer Science, 2009, , 207-220.	1.3	11
31	Parameterized Algorithmics and Computational Experiments for Finding 2-Clubs. Lecture Notes in Computer Science, 2012, , 231-241.	1.3	11
32	A Fixed-Parameter Algorithm for Minimum Common String Partition with Few Duplications. Lecture Notes in Computer Science, 2013, , 244-258.	1.3	11
33	On making directed graphs transitive. Journal of Computer and System Sciences, 2012, 78, 559-574.	1.2	9
34	Minimum Common String Partition Parameterized by Partition Size Is Fixed-Parameter Tractable. , 2014, , .		9
35	Local search for string problems: Brute-force is essentially optimal. Theoretical Computer Science, 2014, 525, 30-41.	0.9	9
36	Enumerating connected induced subgraphs: Improved delay and experimental comparison. Discrete Applied Mathematics, 2021, 303, 262-282.	0.9	9

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37	Partitioning into Colorful Components by Minimum Edge Deletions. Lecture Notes in Computer Science, 2012, , 56-69.	1.3	9
38	On Structural Parameterizations for the 2-Club Problem. Lecture Notes in Computer Science, 2013, , 233-243.	1.3	9
39	Finding Highly Connected Subgraphs. Lecture Notes in Computer Science, 2015, , 254-265.	1.3	9
40	Parameterizing Edge Modification Problems Above Lower Bounds. Theory of Computing Systems, 2018, 62, 739-770.	1.1	8
41	On the Relation of Strong Triadic Closure and ClusterÂDeletion. Algorithmica, 2020, 82, 853-880.	1.3	8
42	Graph-Based Data Clustering with Overlaps. Lecture Notes in Computer Science, 2009, , 516-526.	1.3	8
43	Train Marshalling Is Fixed Parameter Tractable. Lecture Notes in Computer Science, 2012, , 51-56.	1.3	7
44	On the Relation of Strong Triadic Closure and Cluster Deletion. Lecture Notes in Computer Science, 2018, , 239-251.	1.3	7
45	When Can Graph Hyperbolicity Be Computed in Linear Time?. Lecture Notes in Computer Science, 2017, , 397-408.	1.3	6
46	Tight Running Time Lower Bounds for Vertex Deletion Problems. ACM Transactions on Computation Theory, 2018, 10, 1-18.	0.7	6
47	Exact algorithms for finding well-connected 2-clubs in sparse real-world graphs: Theory and experiments. European Journal of Operational Research, 2019, 275, 846-864.	5.7	6
48	A More Relaxed Model for Graph-Based Data Clustering: s-Plex Editing. Lecture Notes in Computer Science, 2009, , 226-239.	1.3	6
49	An Analytical Approach to Network Motif Detection in Samples of Networks with Pairwise Different Vertex Labels. Computational and Mathematical Methods in Medicine, 2012, 2012, 1-12.	1.3	5
50	Parameterized complexity of critical node cuts. Theoretical Computer Science, 2016, 651, 62-75.	0.9	5
51	Enumerating Isolated Cliques in Synthetic and Financial Networks. Lecture Notes in Computer Science, 2008, , 405-416.	1.3	5
52	Alternative Parameterizations for Cluster Editing. Lecture Notes in Computer Science, 2011, , 344-355.	1.3	5
53	A Cubic-Vertex Kernel for Flip Consensus Tree. Algorithmica, 2014, 68, 81-108.	1.3	4
54	On the parameterized complexity of consensus clustering. Theoretical Computer Science, 2014, 542, 71-82.	0.9	4

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55	Assessing the computational complexity of multilayer subgraph detection. Network Science, 2019, 7, 215-241.	1.0	4
56	Refined notions of parameterized enumeration kernels with applications to matching cut enumeration. Journal of Computer and System Sciences, 2022, 123, 76-102.	1.2	4
57	Finding Supported Paths in Heterogeneous Networks. Algorithms, 2015, 8, 810-831.	2.1	3
58	Twins in Subdivision Drawings of Hypergraphs. Lecture Notes in Computer Science, 2016, , 67-80.	1.3	3
59	(Prefix) reversal distance for (signed) strings with few blocks or small alphabets. Journal of Discrete Algorithms, 2016, 37, 44-55.	0.7	3
60	Parameterized algorithms for recognizing monopolar and 2-subcolorable graphs. Journal of Computer and System Sciences, 2018, 92, 22-47.	1.2	3
61	Sorting by Multi-Cut Rearrangements. Algorithms, 2021, 14, 169.	2.1	3
62	Effective and Efficient Data Reduction for the Subset Interconnection Design Problem. Lecture Notes in Computer Science, 2013, , 361-371.	1.3	3
63	Editing Graphs Into Few Cliques: Complexity, Approximation, and Kernelization Schemes. Lecture Notes in Computer Science, 2015, , 410-421.	1.3	3
64	The Parameterized Complexity of the Rainbow Subgraph Problem. Algorithms, 2015, 8, 60-81.	2.1	2
65	Towards an algorithmic guide to Spiral Galaxies. Theoretical Computer Science, 2015, 586, 26-39.	0.9	2
66	Parameterizing Edge Modification Problems Above Lower Bounds. Lecture Notes in Computer Science, 2016, , 57-72.	1.3	2
67	Enumerating Connected Induced Subgraphs: Improved Delay and Experimental Comparison. Lecture Notes in Computer Science, 2019, , 272-284.	1.3	2
68	When Can Graph Hyperbolicity be Computed in Linear Time?. Algorithmica, 2019, 81, 2016-2045.	1.3	2
69	Parameterized algorithms for Module Map problems. Discrete Applied Mathematics, 2020, 283, 396-416.	0.9	2
70	Finding Connected Subgraphs of Fixed Minimum Density: Implementation and Experiments. Lecture Notes in Computer Science, 2015, , 82-93.	1.3	2
71	Assessing the Computational Complexity of Multi-layer Subgraph Detection. Lecture Notes in Computer Science, 2017, , 128-139.	1.3	2
72	Parameterized Algorithmics for Graph Modification Problems: On Interactions with Heuristics. Lecture Notes in Computer Science, 2016, , 3-15.	1.3	2

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73	h-Index manipulation by undoing merges. Quantitative Science Studies, 2020, 1, 1529-1552.	3.3	2
74	Partitioning Biological Networks into Highly Connected Clusters with Maximum Edge Coverage. Lecture Notes in Computer Science, 2013, , 99-111.	1.3	2
75	On explaining integer vectors by few homogeneous segments. Journal of Computer and System Sciences, 2015, 81, 766-782.	1.2	1
76	Parameterized Algorithmics for Finding Exact Solutions of NP-Hard Biological Problems. Methods in Molecular Biology, 2017, 1526, 363-402.	0.9	1
77	Sorting by Multi-cut Rearrangements. Lecture Notes in Computer Science, 2021, , 593-607.	1.3	1
78	Your rugby mates don't need to know your colleagues: Triadic closure with edge colors. Journal of Computer and System Sciences, 2021, 120, 75-96.	1.2	1
79	Editing Graphs into Disjoint Unions of Dense Clusters. Lecture Notes in Computer Science, 2009, , 583-593.	1.3	1
80	On the Parameterized Complexity of Consensus Clustering. Lecture Notes in Computer Science, 2011, , 624-633.	1.3	1
81	Kernelization, Partially Polynomial Kernels. , 2014, , 1-4.		1
82	Reversal Distances for Strings with Few Blocks or Small Alphabets. Lecture Notes in Computer Science, 2014, , 50-59.	1.3	1
83	Parameterized Algorithms for Module Map Problems. Lecture Notes in Computer Science, 2018, , 376-388.	1.3	1
84	Matching algorithms for assigning orthologs after genome duplication events. Computational Biology and Chemistry, 2018, 74, 379-390.	2.3	0
85	Solving Partition Problems Almost Always Requires Pushing Many Vertices Around. SIAM Journal on Discrete Mathematics, 2020, 34, 640-681.	0.8	0
86	FixCon: A Generic Solver for Fixed-Cardinality Subgraph Problems. , 2020, , 12-26.		0
87	Can Local Optimality Be Used forÂEfficient Data Reduction?. Lecture Notes in Computer Science, 2021, , 354-366.	1.3	0
88	Local Search for String Problems: Brute Force Is Essentially Optimal. Lecture Notes in Computer Science, 2013, , 130-141.	1.3	0
89	On Explaining Integer Vectors by Few Homogenous Segments. Lecture Notes in Computer Science, 2013, , 207-218.	1.3	0
90	Towards an Algorithmic Guide to Spiral Galaxies. Lecture Notes in Computer Science, 2014, , 171-182.	1.3	0

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91	The Parameterized Complexity of the Rainbow Subgraph Problem. Lecture Notes in Computer Science, 2014, , 287-298.	1.3	0
92	Kernelization, Partially Polynomial Kernels. , 2016, , 1028-1031.		0
93	Destroying Bicolored $$P_3$$P3s by Deleting Few Edges. Lecture Notes in Computer Science, 2019, , 193-204.	1.3	0
94	Learning Bayesian Networks Under Sparsity Constraints: A Parameterized Complexity Analysis. Journal of Artificial Intelligence Research, 0, 74, 1225-1267.	7.0	0