

Christian Komusiewicz

List of Publications by Year in descending order

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Version: 2024-02-01

94
papers

1,049
citations

586496

16
h-index

591227

27
g-index

103
all docs

103
docs citations

103
times ranked

606
citing authors

#	ARTICLE	IF	CITATIONS
1	Refined notions of parameterized enumeration kernels with applications to matching cut enumeration. <i>Journal of Computer and System Sciences</i> , 2022, 123, 76-102.	0.9	4
2	Enumerating connected induced subgraphs: Improved delay and experimental comparison. <i>Discrete Applied Mathematics</i> , 2021, 303, 262-282.	0.5	9
3	Sorting by Multi-cut Rearrangements. <i>Lecture Notes in Computer Science</i> , 2021, , 593-607.	1.0	1
4	Can Local Optimality Be Used for Efficient Data Reduction?. <i>Lecture Notes in Computer Science</i> , 2021, , 354-366.	1.0	0
5	Sorting by Multi-Cut Rearrangements. <i>Algorithms</i> , 2021, 14, 169.	1.2	3
6	Your rugby mates don't need to know your colleagues: Triadic closure with edge colors. <i>Journal of Computer and System Sciences</i> , 2021, 120, 75-96.	0.9	1
7	On the Relation of Strong Triadic Closure and Cluster Deletion. <i>Algorithmica</i> , 2020, 82, 853-880.	1.0	8
8	Matching cut: Kernelization, single-exponential time FPT, and exact exponential algorithms. <i>Discrete Applied Mathematics</i> , 2020, 283, 44-58.	0.5	14
9	Solving Partition Problems Almost Always Requires Pushing Many Vertices Around. <i>SIAM Journal on Discrete Mathematics</i> , 2020, 34, 640-681.	0.4	0
10	FixCon: A Generic Solver for Fixed-Cardinality Subgraph Problems. , 2020, , 12-26.		0
11	Parameterized algorithms for Module Map problems. <i>Discrete Applied Mathematics</i> , 2020, 283, 396-416.	0.5	2
12	Index manipulation by undoing merges. <i>Quantitative Science Studies</i> , 2020, 1, 1529-1552.	1.6	2
13	Assessing the computational complexity of multilayer subgraph detection. <i>Network Science</i> , 2019, 7, 215-241.	0.8	4
14	Enumerating Connected Induced Subgraphs: Improved Delay and Experimental Comparison. <i>Lecture Notes in Computer Science</i> , 2019, , 272-284.	1.0	2
15	Exact algorithms for finding well-connected 2-clubs in sparse real-world graphs: Theory and experiments. <i>European Journal of Operational Research</i> , 2019, 275, 846-864.	3.5	6
16	When Can Graph Hyperbolicity be Computed in Linear Time?. <i>Algorithmica</i> , 2019, 81, 2016-2045.	1.0	2
17	Destroying Bicolored P_3 s by Deleting Few Edges. <i>Lecture Notes in Computer Science</i> , 2019, , 193-204.	1.0	0
18	Tight Running Time Lower Bounds for Vertex Deletion Problems. <i>ACM Transactions on Computation Theory</i> , 2018, 10, 1-18.	0.4	6

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19	Matching algorithms for assigning orthologs after genome duplication events. Computational Biology and Chemistry, 2018, 74, 379-390.	1.1	0
20	Parameterizing Edge Modification Problems Above Lower Bounds. Theory of Computing Systems, 2018, 62, 739-770.	0.7	8
21	Parameterized algorithms for recognizing monopolar and 2-subcolorable graphs. Journal of Computer and System Sciences, 2018, 92, 22-47.	0.9	3
22	On the Relation of Strong Triadic Closure and Cluster Deletion. Lecture Notes in Computer Science, 2018, , 239-251.	1.0	7
23	Parameterized Algorithms for Module Map Problems. Lecture Notes in Computer Science, 2018, , 376-388.	1.0	1
24	A parameterized approximation algorithm for the mixed and windy capacitated arc routing problem: Theory and experiments. Networks, 2017, 70, 262-278.	1.6	15
25	Parameterized Algorithmics for Finding Exact Solutions of NP-Hard Biological Problems. Methods in Molecular Biology, 2017, 1526, 363-402.	0.4	1
26	When Can Graph Hyperbolicity Be Computed in Linear Time?. Lecture Notes in Computer Science, 2017, , 397-408.	1.0	6
27	Assessing the Computational Complexity of Multi-layer Subgraph Detection. Lecture Notes in Computer Science, 2017, , 128-139.	1.0	2
28	Multivariate Algorithmics for Finding Cohesive Subnetworks. Algorithms, 2016, 9, 21.	1.2	30
29	Twins in Subdivision Drawings of Hypergraphs. Lecture Notes in Computer Science, 2016, , 67-80.	1.0	3
30	(Prefix) reversal distance for (signed) strings with few blocks or small alphabets. Journal of Discrete Algorithms, 2016, 37, 44-55.	0.7	3
31	Parameterized complexity of critical node cuts. Theoretical Computer Science, 2016, 651, 62-75.	0.5	5
32	H-index manipulation by merging articles: Models, theory, and experiments. Artificial Intelligence, 2016, 240, 19-35.	3.9	20
33	Parameterizing Edge Modification Problems Above Lower Bounds. Lecture Notes in Computer Science, 2016, , 57-72.	1.0	2
34	Parameterized Algorithmics for Graph Modification Problems: On Interactions with Heuristics. Lecture Notes in Computer Science, 2016, , 3-15.	1.0	2
35	Kernelization, Partially Polynomial Kernels. , 2016, , 1028-1031.		0
36	A graph modification approach for finding core-periphery structures in protein interaction networks. Algorithms for Molecular Biology, 2015, 10, 16.	0.3	24

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37	Finding Supported Paths in Heterogeneous Networks. <i>Algorithms</i> , 2015, 8, 810-831.	1.2	3
38	The Parameterized Complexity of the Rainbow Subgraph Problem. <i>Algorithms</i> , 2015, 8, 60-81.	1.2	2
39	Polynomial-Time Data Reduction for the Subset Interconnection Design Problem. <i>SIAM Journal on Discrete Mathematics</i> , 2015, 29, 1-25.	0.4	12
40	On explaining integer vectors by few homogeneous segments. <i>Journal of Computer and System Sciences</i> , 2015, 81, 766-782.	0.9	1
41	An algorithmic framework for fixed-cardinality optimization in sparse graphs applied to dense subgraph problems. <i>Discrete Applied Mathematics</i> , 2015, 193, 145-161.	0.5	20
42	Towards an algorithmic guide to Spiral Galaxies. <i>Theoretical Computer Science</i> , 2015, 586, 26-39.	0.5	2
43	On structural parameterizations for the 2-club problem. <i>Discrete Applied Mathematics</i> , 2015, 185, 79-92.	0.5	13
44	Finding Connected Subgraphs of Fixed Minimum Density: Implementation and Experiments. <i>Lecture Notes in Computer Science</i> , 2015, , 82-93.	1.0	2
45	Finding Highly Connected Subgraphs. <i>Lecture Notes in Computer Science</i> , 2015, , 254-265.	1.0	9
46	Parameterized Algorithmics and Computational Experiments for Finding 2-Clubs. <i>Journal of Graph Algorithms and Applications</i> , 2015, 19, 155-190.	0.4	22
47	Editing Graphs Into Few Cliques: Complexity, Approximation, and Kernelization Schemes. <i>Lecture Notes in Computer Science</i> , 2015, , 410-421.	1.0	3
48	Minimum Common String Partition Parameterized by Partition Size Is Fixed-Parameter Tractable. , 2014, , .		9
49	A Cubic-Vertex Kernel for Flip Consensus Tree. <i>Algorithmica</i> , 2014, 68, 81-108.	1.0	4
50	Partitioning Biological Networks into Highly Connected Clusters with Maximum Edge Coverage. <i>IEEE/ACM Transactions on Computational Biology and Bioinformatics</i> , 2014, 11, 455-467.	1.9	14
51	Local search for string problems: Brute-force is essentially optimal. <i>Theoretical Computer Science</i> , 2014, 525, 30-41.	0.5	9
52	On the parameterized complexity of consensus clustering. <i>Theoretical Computer Science</i> , 2014, 542, 71-82.	0.5	4
53	Towards an Algorithmic Guide to Spiral Galaxies. <i>Lecture Notes in Computer Science</i> , 2014, , 171-182.	1.0	0
54	The Parameterized Complexity of the Rainbow Subgraph Problem. <i>Lecture Notes in Computer Science</i> , 2014, , 287-298.	1.0	0

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55	Kernelization, Partially Polynomial Kernels. , 2014, , 1-4.		1
56	Reversal Distances for Strings with Few Blocks or Small Alphabets. Lecture Notes in Computer Science, 2014, , 50-59.	1.0	1
57	On Structural Parameterizations for the 2-Club Problem. Lecture Notes in Computer Science, 2013, , 233-243.	1.0	9
58	Evaluation of ILP-Based Approaches for Partitioning into Colorful Components. Lecture Notes in Computer Science, 2013, , 176-187.	1.0	13
59	A Fixed-Parameter Algorithm for Minimum Common String Partition with Few Duplications. Lecture Notes in Computer Science, 2013, , 244-258.	1.0	11
60	Local Search for String Problems: Brute Force Is Essentially Optimal. Lecture Notes in Computer Science, 2013, , 130-141.	1.0	0
61	Partitioning Biological Networks into Highly Connected Clusters with Maximum Edge Coverage. Lecture Notes in Computer Science, 2013, , 99-111.	1.0	2
62	On Explaining Integer Vectors by Few Homogenous Segments. Lecture Notes in Computer Science, 2013, , 207-218.	1.0	0
63	Effective and Efficient Data Reduction for the Subset Interconnection Design Problem. Lecture Notes in Computer Science, 2013, , 361-371.	1.0	3
64	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.	0.7	5
65	Cluster editing with locally bounded modifications. Discrete Applied Mathematics, 2012, 160, 2259-2270.	0.5	73
66	Train Marshalling Is Fixed Parameter Tractable. Lecture Notes in Computer Science, 2012, , 51-56.	1.0	7
67	Parameterized computational complexity of finding small-diameter subgraphs. Optimization Letters, 2012, 6, 883-891.	0.9	58
68	On making directed graphs transitive. Journal of Computer and System Sciences, 2012, 78, 559-574.	0.9	9
69	Partitioning into Colorful Components by Minimum Edge Deletions. Lecture Notes in Computer Science, 2012, , 56-69.	1.0	9
70	New Races in Parameterized Algorithmics. Lecture Notes in Computer Science, 2012, , 19-30.	1.0	26
71	Parameterized Algorithmics and Computational Experiments for Finding 2-Clubs. Lecture Notes in Computer Science, 2012, , 231-241.	1.0	11
72	Finding Dense Subgraphs of Sparse Graphs. Lecture Notes in Computer Science, 2012, , 242-251.	1.0	14

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73	Parameterized Algorithms for Finding Connected Motifs in Biological Networks. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2011, 8, 1296-1308.	1.9	43
74	Editing Graphs into Disjoint Unions of Dense Clusters. Algorithmica, 2011, 61, 949-970.	1.0	13
75	Average parameterization and partial kernelization for computing medians. Journal of Computer and System Sciences, 2011, 77, 774-789.	0.9	33
76	Graph-based data clustering with overlaps. Discrete Optimization, 2011, 8, 2-17.	0.6	58
77	Deconstructing intractability – A multivariate complexity analysis of interval constrained coloring. Journal of Discrete Algorithms, 2011, 9, 137-151.	0.7	17
78	On the Parameterized Complexity of Consensus Clustering. Lecture Notes in Computer Science, 2011, , 624-633.	1.0	1
79	Alternative Parameterizations for Cluster Editing. Lecture Notes in Computer Science, 2011, , 344-355.	1.0	5
80	Fixed-Parameter Algorithms for Cluster Vertex Deletion. Theory of Computing Systems, 2010, 47, 196-217.	0.7	74
81	A More Relaxed Model for Graph-Based Data Clustering: s -Plex Cluster Editing. SIAM Journal on Discrete Mathematics, 2010, 24, 1662-1683.	0.4	31
82	Measuring Indifference: Unit Interval Vertex Deletion. Lecture Notes in Computer Science, 2010, , 232-243.	1.0	15
83	Isolation concepts for efficiently enumerating dense subgraphs. Theoretical Computer Science, 2009, 410, 3640-3654.	0.5	36
84	Isolation concepts for clique enumeration: Comparison and computational experiments. Theoretical Computer Science, 2009, 410, 5384-5397.	0.5	12
85	On Generating Triangle-Free Graphs. Electronic Notes in Discrete Mathematics, 2009, 32, 51-58.	0.4	33
86	A More Relaxed Model for Graph-Based Data Clustering: s -Plex Editing. Lecture Notes in Computer Science, 2009, , 226-239.	1.0	6
87	Deconstructing Intractability: A Case Study for Interval Constrained Coloring. Lecture Notes in Computer Science, 2009, , 207-220.	1.0	11
88	Graph-Based Data Clustering with Overlaps. Lecture Notes in Computer Science, 2009, , 516-526.	1.0	8
89	Editing Graphs into Disjoint Unions of Dense Clusters. Lecture Notes in Computer Science, 2009, , 583-593.	1.0	1
90	Parameterized Algorithms and Hardness Results for Some Graph Motif Problems. , 2008, , 31-43.		26

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91	Fixed-Parameter Algorithms for Cluster Vertex Deletion. , 2008, , 711-722.		11
92	Improved Algorithms for Bicliaster Editing. , 2008, , 445-456.		14
93	Enumerating Isolated Cliques in Synthetic and Financial Networks. Lecture Notes in Computer Science, 2008, , 405-416.	1.0	5
94	Learning Bayesian Networks Under Sparsity Constraints: A Parameterized Complexity Analysis. Journal of Artificial Intelligence Research, 0, 74, 1225-1267.	7.0	0