

# Yota Otachi

## List of Publications by Year in descending order

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Version: 2024-02-01

97  
papers

568  
citations

687220

13  
h-index

887953

17  
g-index

102  
all docs

102  
docs citations

102  
times ranked

251  
citing authors

#	ARTICLE	IF	CITATIONS
1	Linear-time algorithm for sliding tokens on trees. <i>Theoretical Computer Science</i> , 2015, 600, 132-142.	0.5	36
2	Subgraph isomorphism in graph classes. <i>Discrete Mathematics</i> , 2012, 312, 3164-3173.	0.4	21
3	Depth-First Search Using $O(n)$ Bits. <i>Lecture Notes in Computer Science</i> , 2014, , 553-564.	1.0	20
4	Extending partial representations of subclasses of chordal graphs. <i>Theoretical Computer Science</i> , 2015, 576, 85-101.	0.5	19
5	Completely independent spanning trees in (partial) $k$ -trees. <i>Discussiones Mathematicae - Graph Theory</i> , 2015, 35, 427.	0.2	19
6	Safe sets in graphs: Graph classes and structural parameters. <i>Journal of Combinatorial Optimization</i> , 2018, 36, 1221-1242.	0.8	17
7	Sliding Token on Bipartite Permutation Graphs. <i>Lecture Notes in Computer Science</i> , 2015, , 237-247.	1.0	17
8	Relationships between the class of unit grid intersection graphs and other classes of bipartite graphs. <i>Discrete Applied Mathematics</i> , 2007, 155, 2383-2390.	0.5	15
9	On spanning tree congestion of graphs. <i>Discrete Mathematics</i> , 2009, 309, 4215-4224.	0.4	15
10	Random generation and enumeration of bipartite permutation graphs. <i>Journal of Discrete Algorithms</i> , 2012, 10, 84-97.	0.7	15
11	Extending Partial Representations of Proper and Unit Interval Graphs. <i>Algorithmica</i> , 2017, 77, 1071-1104.	1.0	15
12	Extending Partial Representations of Interval Graphs. <i>Algorithmica</i> , 2017, 78, 945-967.	1.0	14
13	Reconfiguration of Cliques in a Graph. <i>Lecture Notes in Computer Science</i> , 2015, , 212-223.	1.0	14
14	Alliances in graphs of bounded clique-width. <i>Discrete Applied Mathematics</i> , 2017, 223, 91-97.	0.5	12
15	Token Sliding on Split Graphs. <i>Theory of Computing Systems</i> , 2021, 65, 662-686.	0.7	12
16	Exact Algorithms for the Max-Min Dispersion Problem. <i>Lecture Notes in Computer Science</i> , 2018, , 263-272.	1.0	12
17	Security number of grid-like graphs. <i>Discrete Applied Mathematics</i> , 2009, 157, 2555-2561.	0.5	11
18	Parameterized Complexity of the Spanning Tree Congestion Problem. <i>Algorithmica</i> , 2012, 64, 85-111.	1.0	11

#	ARTICLE	IF	CITATIONS
19	A faster parameterized algorithm for Pseudoforest Deletion. Discrete Applied Mathematics, 2018, 236, 42-56.	0.5	11
20	An improved algorithm for the longest induced path problem on $k$ -chordal graphs. Discrete Applied Mathematics, 2008, 156, 3057-3059.	0.5	10
21	Efficient enumeration of ordered trees with $k$ leaves. Theoretical Computer Science, 2012, 442, 22-27.	0.5	10
22	Polynomial-Time Algorithm for Sliding Tokens on Trees. Lecture Notes in Computer Science, 2014, , 389-400.	1.0	10
23	Vertex deletion problems on chordal graphs. Theoretical Computer Science, 2018, 745, 75-86.	0.5	10
24	Bandwidth and pathwidth of three-dimensional grids. Discrete Mathematics, 2011, 311, 881-887.	0.4	9
25	Polynomial-time algorithms for Subgraph Isomorphism in small graph classes of perfect graphs. Discrete Applied Mathematics, 2016, 199, 37-45.	0.5	9
26	Efficient Enumeration of Maximal $k$ -Degenerate Subgraphs in a Chordal Graph. Lecture Notes in Computer Science, 2017, , 150-161.	1.0	9
27	$k$ -chordal graphs. Discrete Applied Mathematics, 2018, 236, 42-56.	0.4	8
28	A 4.31-approximation for the geometric unique coverage problem on unit disks. Theoretical Computer Science, 2014, 544, 14-31.	0.5	8
29	Complexity Results for the Spanning Tree Congestion Problem. Lecture Notes in Computer Science, 2010, , 3-14.	1.0	8
30	A polynomial-time approximation scheme for the geometric unique coverage problem on unit squares. Computational Geometry: Theory and Applications, 2016, 51, 25-39.	0.3	7
31	Extending Partial Representations of Subclasses of Chordal Graphs. Lecture Notes in Computer Science, 2012, , 444-454.	1.0	7
32	Induced Minor Free Graphs: Isomorphism and Clique-Width. Algorithmica, 2018, 80, 29-47.	1.0	6
33	Intersection Dimension of Bipartite Graphs. Lecture Notes in Computer Science, 2014, , 323-340.	1.0	6
34	Reduction Techniques for Graph Isomorphism in the Context of Width Parameters. Lecture Notes in Computer Science, 2014, , 368-379.	1.0	6
35	Exploring the gap between treedepth and vertex cover through vertex integrity. Theoretical Computer Science, 2022, 918, 60-76.	0.5	6
36	Extending Partial Representations of Proper and Unit Interval Graphs. Lecture Notes in Computer Science, 2014, , 253-264.	1.0	5

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37	Swapping colored tokens on graphs. Theoretical Computer Science, 2018, 729, 1-10.	0.5	5
38	Independent Set Reconfiguration Parameterized by Modular-Width. Algorithmica, 2020, 82, 2586-2605.	1.0	5
39	Longest common subsequence in sublinear space. Information Processing Letters, 2021, 168, 106084.	0.4	5
40	Swapping Colored Tokens on Graphs. Lecture Notes in Computer Science, 2015, , 619-628.	1.0	5
41	Spanning tree congestion of rook's graphs. Discussiones Mathematicae - Graph Theory, 2011, 31, 753.	0.2	5
42	Hardness Results and an Exact Exponential Algorithm for the Spanning Tree Congestion Problem. Journal of Graph Algorithms and Applications, 2011, 15, 727-751.	0.4	5
43	The carving-width of generalized hypercubes. Discrete Mathematics, 2010, 310, 2867-2876.	0.4	4
44	Lower bounds for treewidth of product graphs. Discrete Applied Mathematics, 2014, 162, 251-258.	0.5	4
45	Subgraph Isomorphism on Graph Classes that Exclude a Substructure. Algorithmica, 2020, 82, 3566-3587.	1.0	4
46	Exploring the Gap Between Treedepth and Vertex Cover Through Vertex Integrity. Lecture Notes in Computer Science, 2021, , 271-285.	1.0	4
47	A Polynomial-Time Approximation Scheme for the Geometric Unique Coverage Problem on Unit Squares. Lecture Notes in Computer Science, 2012, , 24-35.	1.0	4
48	A lower bound for the vertex boundary-width of complete k-ary trees. Discrete Mathematics, 2008, 308, 2389-2395.	0.4	3
49	On Complexity of Flooding Games on Graphs with Interval Representations. Lecture Notes in Computer Science, 2013, , 73-84.	1.0	3
50	Ferrers dimension of grid intersection graphs. Discrete Applied Mathematics, 2017, 216, 130-135.	0.5	3
51	Degree-Constrained Orientation of Maximum Satisfaction: Graph Classes and Parameterized Complexity. Algorithmica, 2018, 80, 2160-2180.	1.0	3
52	Reconfiguration of colorable sets in classes of perfect graphs. Theoretical Computer Science, 2019, 772, 111-122.	0.5	3
53	Combined graph kernels for automatic patent classification: A hybrid approach. World Patent Information, 2019, 57, 18-24.	0.7	3
54	Hardness Results and an Exact Exponential Algorithm for the Spanning Tree Congestion Problem. Lecture Notes in Computer Science, 2011, , 452-462.	1.0	3

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55	Isomorphism on Subgraph-Closed Graph Classes: A Complexity Dichotomy and Intermediate Graph Classes. Lecture Notes in Computer Science, 2013, , 111-118.	1.0	3
56	Efficient Enumeration of Ordered Trees with $k$ Leaves (Extended Abstract). Lecture Notes in Computer Science, 2009, , 141-150.	1.0	3
57	Parameterized Complexity of Safe Set. Lecture Notes in Computer Science, 2019, , 38-49.	1.0	3
58	Linear-Time Recognition of Double-Threshold Graphs. Algorithmica, 2022, 84, 1163.	1.0	3
59	An Improved Deterministic Parameterized Algorithm for Cactus Vertex Deletion. Theory of Computing Systems, 2022, 66, 502-515.	0.7	3
60	Parameterized Complexity of Graph Burning. Algorithmica, 2022, 84, 2379-2393.	1.0	3
61	Finding a chain graph in a bipartite permutation graph. Information Processing Letters, 2016, 116, 569-573.	0.4	2
62	On the Classes of Interval Graphs of Limited Nesting and Count of Lengths. Algorithmica, 2019, 81, 1490-1511.	1.0	2
63	On the security number of the Cartesian product of graphs. Discrete Applied Mathematics, 2021, 304, 119-128.	0.5	2
64	Linear-Time Recognition of Double-Threshold Graphs. Lecture Notes in Computer Science, 2020, , 286-297.	1.0	2
65	Approximability of the Path-Distance-Width for AT-free Graphs. Lecture Notes in Computer Science, 2011, , 271-282.	1.0	2
66	Isomorphism for Graphs of Bounded Connected-Path-Distance-Width. Lecture Notes in Computer Science, 2012, , 455-464.	1.0	2
67	Competitive Diffusion on Weighted Graphs. Lecture Notes in Computer Science, 2015, , 422-433.	1.0	2
68	Symmetric assembly puzzles are hard, beyond a few pieces. Computational Geometry: Theory and Applications, 2020, 90, 101648.	0.3	2
69	Approximating the path-distance-width for AT-free graphs and graphs in related classes. Discrete Applied Mathematics, 2014, 168, 69-77.	0.5	1
70	Efficient algorithms for network localization using cores of underlying graphs. Theoretical Computer Science, 2014, 553, 18-26.	0.5	1
71	Secure Sets and Defensive Alliances in Graphs: A Faster Algorithm and Improved Bounds. IEICE Transactions on Information and Systems, 2015, E98.D, 486-489.	0.4	1
72	Thin strip graphs. Discrete Applied Mathematics, 2017, 216, 203-210.	0.5	1

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73	Subgraph Isomorphism on Graph Classes that Exclude a Substructure. Lecture Notes in Computer Science, 2019, , 87-98.	1.0	1
74	A lower bound on opaque sets. Computational Geometry: Theory and Applications, 2019, 80, 13-22.	0.3	1
75	Efficient enumeration of maximal k-degenerate induced subgraphs of a chordal graph. Theoretical Computer Science, 2020, 818, 2-11.	0.5	1
76	Space-Efficient Algorithms for Longest Increasing Subsequence. Theory of Computing Systems, 2020, 64, 522-541.	0.7	1
77	Symmetric Assembly Puzzles are Hard, Beyond a Few Pieces. Lecture Notes in Computer Science, 2016, , 180-192.	1.0	1
78	Designing Low-Congestion Networks with Structural Graph Theory. Interdisciplinary Information Sciences, 2011, 17, 197-216.	0.2	1
79	Computational Complexity of Jumping Block Puzzles. Lecture Notes in Computer Science, 2021, , 655-667.	1.0	1
80	Reconfiguring Directed Trees in a Digraph. Lecture Notes in Computer Science, 2021, , 343-354.	1.0	1
81	Parameterized Complexity of $(A, \ell)$ -Path Packing. Algorithmica, 2022, 84, 871-895.	1.0	1
82	Base Location Problems for Base-Monotone Regions. Lecture Notes in Computer Science, 2013, , 53-64.	1.0	1
83	A Survey on Spanning Tree Congestion. Lecture Notes in Computer Science, 2020, , 165-172.	1.0	1
84	Enumerating All Rooted Trees Including k Leaves. IEICE Transactions on Information and Systems, 2012, E95-D, 763-768.	0.4	0
85	The path-distance-width of hypercubes. Discussiones Mathematicae - Graph Theory, 2013, 33, 467.	0.2	0
86	Base-object location problems for base-monotone regions. Theoretical Computer Science, 2014, 555, 71-84.	0.5	0
87	On the treewidth of toroidal grids. Discrete Applied Mathematics, 2016, 198, 303-306.	0.5	0
88	On structural parameterizations of firefighting. Theoretical Computer Science, 2019, 782, 79-90.	0.5	0
89	Parameterized Orientable Deletion. Algorithmica, 2020, 82, 1909-1938.	1.0	0
90	Low-congestion shortcut and graph parameters. Distributed Computing, 2021, 34, 349-365.	0.7	0

#	ARTICLE	IF	CITATIONS
91	Polynomial-Time Algorithms for Subgraph Isomorphism in Small Graph Classes of Perfect Graphs. Lecture Notes in Computer Science, 2014, , 216-228.	1.0	0
92	Safe Sets in Graphs: Graph Classes and Structural Parameters. Lecture Notes in Computer Science, 2016, , 241-253.	1.0	0
93	Induced Minor Free Graphs: Isomorphism and Clique-width. Lecture Notes in Computer Science, 2016, , 299-311.	1.0	0
94	Hitori Numbers. Journal of Information Processing, 2017, 25, 695-707.	0.3	0
95	Computational Complexity of Robot Arm Simulation Problems. Lecture Notes in Computer Science, 2018, , 177-188.	1.0	0
96	$K_3$ Edge Cover Problem in a Wide Sense. Journal of Information Processing, 2020, 28, 849-858.	0.3	0
97	Parameterized Complexity of $(A, \ell)$ -Path Packing. Lecture Notes in Computer Science, 2020, , 43-55.	1.0	0