

Yota Otachi

List of Publications by Year in descending order

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Version: 2024-02-01

97
papers

568
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687220

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887953

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102
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docs citations

102
times ranked

251
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Parameterized Complexity of (A, ℓ) -Path Packing. <i>Algorithmica</i> , 2022, 84, 871-895. | 1.0 | 1 |
| 2 | Linear-Time Recognition of Double-Threshold Graphs. <i>Algorithmica</i> , 2022, 84, 1163. | 1.0 | 3 |
| 3 | Exploring the gap between treedepth and vertex cover through vertex integrity. <i>Theoretical Computer Science</i> , 2022, 918, 60-76. | 0.5 | 6 |
| 4 | An Improved Deterministic Parameterized Algorithm for Cactus Vertex Deletion. <i>Theory of Computing Systems</i> , 2022, 66, 502-515. | 0.7 | 3 |
| 5 | Parameterized Complexity of Graph Burning. <i>Algorithmica</i> , 2022, 84, 2379-2393. | 1.0 | 3 |
| 6 | Token Sliding on Split Graphs. <i>Theory of Computing Systems</i> , 2021, 65, 662-686. | 0.7 | 12 |
| 7 | Exploring the Gap Between Treedepth and Vertex Cover Through Vertex Integrity. <i>Lecture Notes in Computer Science</i> , 2021, , 271-285. | 1.0 | 4 |
| 8 | Longest common subsequence in sublinear space. <i>Information Processing Letters</i> , 2021, 168, 106084. | 0.4 | 5 |
| 9 | Low-congestion shortcut and graph parameters. <i>Distributed Computing</i> , 2021, 34, 349-365. | 0.7 | 0 |
| 10 | On the security number of the Cartesian product of graphs. <i>Discrete Applied Mathematics</i> , 2021, 304, 119-128. | 0.5 | 2 |
| 11 | Computational Complexity of Jumping Block Puzzles. <i>Lecture Notes in Computer Science</i> , 2021, , 655-667. | 1.0 | 1 |
| 12 | Reconfiguring Directed Trees in a Digraph. <i>Lecture Notes in Computer Science</i> , 2021, , 343-354. | 1.0 | 1 |
| 13 | Efficient enumeration of maximal k -degenerate induced subgraphs of a chordal graph. <i>Theoretical Computer Science</i> , 2020, 818, 2-11. | 0.5 | 1 |
| 14 | Space-Efficient Algorithms for Longest Increasing Subsequence. <i>Theory of Computing Systems</i> , 2020, 64, 522-541. | 0.7 | 1 |
| 15 | Parameterized Orientable Deletion. <i>Algorithmica</i> , 2020, 82, 1909-1938. | 1.0 | 0 |
| 16 | Subgraph Isomorphism on Graph Classes that Exclude a Substructure. <i>Algorithmica</i> , 2020, 82, 3566-3587. | 1.0 | 4 |
| 17 | Independent Set Reconfiguration Parameterized by Modular-Width. <i>Algorithmica</i> , 2020, 82, 2586-2605. | 1.0 | 5 |
| 18 | Linear-Time Recognition of Double-Threshold Graphs. <i>Lecture Notes in Computer Science</i> , 2020, , 286-297. | 1.0 | 2 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | A Survey on Spanning Tree Congestion. Lecture Notes in Computer Science, 2020, , 165-172. | 1.0 | 1 |
| 20 | K^3 Edge Cover Problem in a Wide Sense. Journal of Information Processing, 2020, 28, 849-858. | 0.3 | 0 |
| 21 | Parameterized Complexity of (A, ℓ) -Path Packing. Lecture Notes in Computer Science, 2020, , 43-55. | 1.0 | 0 |
| 22 | Symmetric assembly puzzles are hard, beyond a few pieces. Computational Geometry: Theory and Applications, 2020, 90, 101648. | 0.3 | 2 |
| 23 | On the Classes of Interval Graphs of Limited Nesting and Count of Lengths. Algorithmica, 2019, 81, 1490-1511. | 1.0 | 2 |
| 24 | Subgraph Isomorphism on Graph Classes that Exclude a Substructure. Lecture Notes in Computer Science, 2019, , 87-98. | 1.0 | 1 |
| 25 | A lower bound on opaque sets. Computational Geometry: Theory and Applications, 2019, 80, 13-22. | 0.3 | 1 |
| 26 | On structural parameterizations of firefighting. Theoretical Computer Science, 2019, 782, 79-90. | 0.5 | 0 |
| 27 | Reconfiguration of colorable sets in classes of perfect graphs. Theoretical Computer Science, 2019, 772, 111-122. | 0.5 | 3 |
| 28 | Combined graph kernels for automatic patent classification: A hybrid approach. World Patent Information, 2019, 57, 18-24. | 0.7 | 3 |
| 29 | Parameterized Complexity of Safe Set. Lecture Notes in Computer Science, 2019, , 38-49. | 1.0 | 3 |
| 30 | A faster parameterized algorithm for Pseudoforest Deletion. Discrete Applied Mathematics, 2018, 236, 42-56. | 0.5 | 11 |
| 31 | Safe sets in graphs: Graph classes and structural parameters. Journal of Combinatorial Optimization, 2018, 36, 1221-1242. | 0.8 | 17 |
| 32 | Induced Minor Free Graphs: Isomorphism and Clique-Width. Algorithmica, 2018, 80, 29-47. | 1.0 | 6 |
| 33 | Degree-Constrained Orientation of Maximum Satisfaction: Graph Classes and Parameterized Complexity. Algorithmica, 2018, 80, 2160-2180. | 1.0 | 3 |
| 34 | Vertex deletion problems on chordal graphs. Theoretical Computer Science, 2018, 745, 75-86. | 0.5 | 10 |
| 35 | Swapping colored tokens on graphs. Theoretical Computer Science, 2018, 729, 1-10. | 0.5 | 5 |
| 36 | Exact Algorithms for the Max-Min Dispersion Problem. Lecture Notes in Computer Science, 2018, , 263-272. | 1.0 | 12 |

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|----|---|-----|-----------|
| 37 | Computational Complexity of Robot Arm Simulation Problems. Lecture Notes in Computer Science, 2018, , 177-188. | 1.0 | 0 |
| 38 | Thin strip graphs. Discrete Applied Mathematics, 2017, 216, 203-210. | 0.5 | 1 |
| 39 | Ferrers dimension of grid intersection graphs. Discrete Applied Mathematics, 2017, 216, 130-135. | 0.5 | 3 |
| 40 | Extending Partial Representations of Proper and Unit Interval Graphs. Algorithmica, 2017, 77, 1071-1104. | 1.0 | 15 |
| 41 | Alliances in graphs of bounded clique-width. Discrete Applied Mathematics, 2017, 223, 91-97. | 0.5 | 12 |
| 42 | Efficient Enumeration of Maximal k -Degenerate Subgraphs in a Chordal Graph. Lecture Notes in Computer Science, 2017, , 150-161. | 1.0 | 9 |
| 43 | Extending Partial Representations of Interval Graphs. Algorithmica, 2017, 78, 945-967. | 1.0 | 14 |
| 44 | Hitori Numbers. Journal of Information Processing, 2017, 25, 695-707. | 0.3 | 0 |
| 45 | Finding a chain graph in a bipartite permutation graph. Information Processing Letters, 2016, 116, 569-573. | 0.4 | 2 |
| 46 | 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 |
| 47 | On the treewidth of toroidal grids. Discrete Applied Mathematics, 2016, 198, 303-306. | 0.5 | 0 |
| 48 | Polynomial-time algorithms for Subgraph Isomorphism in small graph classes of perfect graphs. Discrete Applied Mathematics, 2016, 199, 37-45. | 0.5 | 9 |
| 49 | Symmetric Assembly Puzzles are Hard, Beyond a Few Pieces. Lecture Notes in Computer Science, 2016, , 180-192. | 1.0 | 1 |
| 50 | Safe Sets in Graphs: Graph Classes and Structural Parameters. Lecture Notes in Computer Science, 2016, , 241-253. | 1.0 | 0 |
| 51 | Induced Minor Free Graphs: Isomorphism and Clique-width. Lecture Notes in Computer Science, 2016, , 299-311. | 1.0 | 0 |
| 52 | 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 |
| 53 | Linear-time algorithm for sliding tokens on trees. Theoretical Computer Science, 2015, 600, 132-142. | 0.5 | 36 |
| 54 | Extending partial representations of subclasses of chordal graphs. Theoretical Computer Science, 2015, 576, 85-101. | 0.5 | 19 |

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|----|---|-----|-----------|
| 55 | Reconfiguration of Cliques in a Graph. Lecture Notes in Computer Science, 2015, , 212-223. | 1.0 | 14 |
| 56 | Swapping Colored Tokens on Graphs. Lecture Notes in Computer Science, 2015, , 619-628. | 1.0 | 5 |
| 57 | Sliding Token on Bipartite Permutation Graphs. Lecture Notes in Computer Science, 2015, , 237-247. | 1.0 | 17 |
| 58 | Completely independent spanning trees in (partial) k-trees. Discussiones Mathematicae - Graph Theory, 2015, 35, 427. | 0.2 | 19 |
| 59 | Competitive Diffusion on Weighted Graphs. Lecture Notes in Computer Science, 2015, , 422-433. | 1.0 | 2 |
| 60 | Polynomial-Time Algorithm for Sliding Tokens on Trees. Lecture Notes in Computer Science, 2014, , 389-400. | 1.0 | 10 |
| 61 | Extending Partial Representations of Proper and Unit Interval Graphs. Lecture Notes in Computer Science, 2014, , 253-264. | 1.0 | 5 |
| 62 | Base-object location problems for base-monotone regions. Theoretical Computer Science, 2014, 555, 71-84. | 0.5 | 0 |
| 63 | Approximating the path-distance-width for AT-free graphs and graphs in related classes. Discrete Applied Mathematics, 2014, 168, 69-77. | 0.5 | 1 |
| 64 | A 4.31-approximation for the geometric unique coverage problem on unit disks. Theoretical Computer Science, 2014, 544, 14-31. | 0.5 | 8 |
| 65 | Efficient algorithms for network localization using cores of underlying graphs. Theoretical Computer Science, 2014, 553, 18-26. | 0.5 | 1 |
| 66 | Lower bounds for treewidth of product graphs. Discrete Applied Mathematics, 2014, 162, 251-258. | 0.5 | 4 |
| 67 | Intersection Dimension of Bipartite Graphs. Lecture Notes in Computer Science, 2014, , 323-340. | 1.0 | 6 |
| 68 | Reduction Techniques for Graph Isomorphism in the Context of Width Parameters. Lecture Notes in Computer Science, 2014, , 368-379. | 1.0 | 6 |
| 69 | Depth-First Search Using $O(n)$ Bits. Lecture Notes in Computer Science, 2014, , 553-564. | 1.0 | 20 |
| 70 | Polynomial-Time Algorithms for Subgraph Isomorphism in Small Graph Classes of Perfect Graphs. Lecture Notes in Computer Science, 2014, , 216-228. | 1.0 | 0 |
| 71 | On Complexity of Flooding Games on Graphs with Interval Representations. Lecture Notes in Computer Science, 2013, , 73-84. | 1.0 | 3 |
| 72 | The path-distance-width of hypercubes. Discussiones Mathematicae - Graph Theory, 2013, 33, 467. | 0.2 | 0 |

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|----|--|-----|-----------|
| 73 | Isomorphism on Subgraph-Closed Graph Classes: A Complexity Dichotomy and Intermediate Graph Classes. Lecture Notes in Computer Science, 2013, , 111-118. | 1.0 | 3 |
| 74 | Base Location Problems for Base-Monotone Regions. Lecture Notes in Computer Science, 2013, , 53-64. | 1.0 | 1 |
| 75 | Enumerating All Rooted Trees Including k Leaves. IEICE Transactions on Information and Systems, 2012, E95-D, 763-768. | 0.4 | 0 |
| 76 | Subgraph isomorphism in graph classes. Discrete Mathematics, 2012, 312, 3164-3173. | 0.4 | 21 |
| 77 | Parameterized Complexity of the Spanning Tree Congestion Problem. Algorithmica, 2012, 64, 85-111. | 1.0 | 11 |
| 78 | Efficient enumeration of ordered trees with k leaves. Theoretical Computer Science, 2012, 442, 22-27. | 0.5 | 10 |
| 79 | Random generation and enumeration of bipartite permutation graphs. Journal of Discrete Algorithms, 2012, 10, 84-97. | 0.7 | 15 |
| 80 | 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 |
| 81 | Extending Partial Representations of Subclasses of Chordal Graphs. Lecture Notes in Computer Science, 2012, , 444-454. | 1.0 | 7 |
| 82 | Isomorphism for Graphs of Bounded Connected-Path-Distance-Width. Lecture Notes in Computer Science, 2012, , 455-464. | 1.0 | 2 |
| 83 | Bandwidth and pathwidth of three-dimensional grids. Discrete Mathematics, 2011, 311, 881-887. | 0.4 | 9 |
| 84 | Spanning tree congestion of k leaves. Discrete Mathematics, 2011, 311, 881-887. | 0.4 | 8 |
| 85 | Hardness Results and an Exact Exponential Algorithm for the Spanning Tree Congestion Problem. Lecture Notes in Computer Science, 2011, , 452-462. | 1.0 | 3 |
| 86 | Designing Low-Congestion Networks with Structural Graph Theory. Interdisciplinary Information Sciences, 2011, 17, 197-216. | 0.2 | 1 |
| 87 | Spanning tree congestion of rook's graphs. Discussiones Mathematicae - Graph Theory, 2011, 31, 753. | 0.2 | 5 |
| 88 | 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 |
| 89 | Approximability of the Path-Distance-Width for AT-free Graphs. Lecture Notes in Computer Science, 2011, , 271-282. | 1.0 | 2 |
| 90 | The carving-width of generalized hypercubes. Discrete Mathematics, 2010, 310, 2867-2876. | 0.4 | 4 |

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|----|---|-----|-----------|
| 91 | Complexity Results for the Spanning Tree Congestion Problem. Lecture Notes in Computer Science, 2010, , 3-14. | 1.0 | 8 |
| 92 | Security number of grid-like graphs. Discrete Applied Mathematics, 2009, 157, 2555-2561. | 0.5 | 11 |
| 93 | On spanning tree congestion of graphs. Discrete Mathematics, 2009, 309, 4215-4224. | 0.4 | 15 |
| 94 | Efficient Enumeration of Ordered Trees with k Leaves (Extended Abstract). Lecture Notes in Computer Science, 2009, , 141-150. | 1.0 | 3 |
| 95 | An improved algorithm for the longest induced path problem on k -chordal graphs. Discrete Applied Mathematics, 2008, 156, 3057-3059. | 0.5 | 10 |
| 96 | A lower bound for the vertex boundary-width of complete k -ary trees. Discrete Mathematics, 2008, 308, 2389-2395. | 0.4 | 3 |
| 97 | Relationships between the class of unit grid intersection graphs and other classes of bipartite graphs. Discrete Applied Mathematics, 2007, 155, 2383-2390. | 0.5 | 15 |