

Darren Strash

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

704
citations

933447

10
h-index

642732

23
g-index

44
all docs

44
docs citations

44
times ranked

565
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Listing All Maximal Cliques in Sparse Graphs in Near-Optimal Time. Lecture Notes in Computer Science, 2010, , 403-414. | 1.3 | 173 |
| 2 | Listing All Maximal Cliques in Large Sparse Real-World Graphs. Lecture Notes in Computer Science, 2011, , 364-375. | 1.3 | 97 |
| 3 | Listing All Maximal Cliques in Large Sparse Real-World Graphs. Journal of Experimental Algorithmics, 2013, 18, . | 1.0 | 96 |
| 4 | Finding near-optimal independent sets at scale. Journal of Heuristics, 2017, 23, 207-229. | 1.4 | 32 |
| 5 | Succinct Greedy Geometric Routing in the Euclidean Plane. Lecture Notes in Computer Science, 2009, , 781-791. | 1.3 | 31 |
| 6 | Exactly Solving the Maximum Weight Independent Set Problem on Large Real-World Graphs. , 2019, , 144-158. | | 20 |
| 7 | Efficiently enumerating all maximal cliques with bit-parallelism. Computers and Operations Research, 2018, 92, 37-46. | 4.0 | 19 |
| 8 | Communication-free massively distributed graph generation. Journal of Parallel and Distributed Computing, 2019, 131, 200-217. | 4.1 | 19 |
| 9 | Communication-Free Massively Distributed Graph Generation. , 2018, , . | | 18 |
| 10 | Finding Near-Optimal Independent Sets at Scale. , 2016, , . | | 14 |
| 11 | WeGotYouCovered: The Winning Solver from the PACE 2019 Challenge, Vertex Cover Track. , 2020, , 1-11. | | 14 |
| 12 | Scalable Kernelization for Maximum Independent Sets. Journal of Experimental Algorithmics, 2019, 24, 1-22. | 1.0 | 13 |
| 13 | Extended dynamic subgraph statistics using $\langle \text{mml:math altimg="si1.gif" display="inline"} \rangle$ <small>overflow= scroll xmlns:xocs= http://www.elsevier.com/xml/xocs/dtd xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:sb="http://www.elsevier.com/xml/co</small> | 0.9 | 12 |
| 14 | Graph Partitioning: Formulations and Applications to Big Data. , 2018, , 1-7. | | 12 |
| 15 | Scalable Edge Partitioning. , 2019, , 211-225. | | 12 |
| 16 | On Minimizing Crossings in Storyline Visualizations. Lecture Notes in Computer Science, 2015, , 192-198. | 1.3 | 9 |
| 17 | Temporal map labeling. , 2016, , . | | 9 |
| 18 | Shared Memory Parallel Subgraph Enumeration. , 2017, , . | | 8 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Practical Minimum Cut Algorithms. Journal of Experimental Algorithmics, 2018, 23, 1-22. | 1.0 | 7 |
| 20 | Linear-Time Algorithms for Geometric Graphs with Sublinearly Many Edge Crossings. SIAM Journal on Computing, 2010, 39, 3814-3829. | 1.0 | 6 |
| 21 | On the complexity of barrier resilience for fat regions and bounded ply. Computational Geometry: Theory and Applications, 2018, 72, 34-51. | 0.5 | 6 |
| 22 | Convexity-increasing morphs of planar graphs. Computational Geometry: Theory and Applications, 2019, 84, 69-88. | 0.5 | 6 |
| 23 | Extended Dynamic Subgraph Statistics Using h-Index Parameterized Data Structures. Lecture Notes in Computer Science, 2010, , 128-141. | 1.3 | 6 |
| 24 | Category-based routing in social networks: Membership dimension and the small-world phenomenon. , 2011, , . | | 5 |
| 25 | Scalable Kernelization for Maximum Independent Sets. , 2018, , 223-237. | | 5 |
| 26 | Dynamic Planar Point Location with Sub-logarithmic Local Updates. Lecture Notes in Computer Science, 2013, , 499-511. | 1.3 | 5 |
| 27 | Engineering Kernelization for Maximum Cut. , 2020, , 27-41. | | 4 |
| 28 | Distributed evolutionary k-way node separators. , 2017, , . | | 3 |
| 29 | Engineering Data Reduction for Nested Dissection. , 2021, , 113-127. | | 3 |
| 30 | A Semi-exact Algorithm for Quickly Computing A Maximum Weight Clique in Large Sparse Graphs. Journal of Artificial Intelligence Research, 0, 72, 39-67. | 7.0 | 3 |
| 31 | Graph Partitioning: Formulations and Applications to Big Data. , 2019, , 858-864. | | 3 |
| 32 | Category-based routing in social networks: Membership dimension and the small-world phenomenon. Theoretical Computer Science, 2013, 514, 96-104. | 0.9 | 2 |
| 33 | Practical Minimum Cut Algorithms. , 2018, , 48-61. | | 2 |
| 34 | On Romeo and Juliet problems: Minimizing distance-to-sight. Computational Geometry: Theory and Applications, 2019, 84, 12-21. | 0.5 | 2 |
| 35 | Boosting Data Reduction for the Maximum Weight Independent Set Problem Using Increasing Transformations. , 2021, , 128-142. | | 2 |
| 36 | Convexity-Increasing Morphs of Planar Graphs. Lecture Notes in Computer Science, 2018, , 318-330. | 1.3 | 2 |

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|----|--|-----|-----------|
| 37 | Linear-Time Algorithms for Geometric Graphs with Sublinearly Many Crossings. , 2009, , . | | 1 |
| 38 | On the Complexity of Barrier Resilience for Fat Regions. Lecture Notes in Computer Science, 2014, , 201-216. | 1.3 | 1 |
| 39 | Priority Range Trees. Lecture Notes in Computer Science, 2010, , 97-108. | 1.3 | 0 |
| 40 | Reconstructing Generalized Staircase Polygons with Uniform Step Length. Journal of Graph Algorithms and Applications, 2018, 22, 431-459. | 0.4 | 0 |