

Lars Arge

List of Publications by Year in descending order

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Version: 2024-02-01

58
papers

2,295
citations

361413

20
h-index

265206

42
g-index

61
all docs

61
docs citations

61
times ranked

2451
citing authors

#	ARTICLE	IF	CITATIONS
1	Residential green space in childhood is associated with lower risk of psychiatric disorders from adolescence into adulthood. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 5188-5193.	7.1	388
2	Topography as a driver of local terrestrial vascular plant diversity patterns. Nordic Journal of Botany, 2013, 31, 129-144.	0.5	175
3	The Buffer Tree: A Technique for Designing Batched External Data Structures. Algorithmica, 2003, 37, 1-24.	1.3	144
4	Topographically controlled soil moisture drives plant diversity patterns within grasslands. Biodiversity and Conservation, 2013, 22, 2151-2166.	2.6	124
5	Optimal External Memory Interval Management. SIAM Journal on Computing, 2003, 32, 1488-1508.	1.0	112
6	On two-dimensional indexability and optimal range search indexing. , 1999, , .		98
7	Indexing Moving Points. Journal of Computer and System Sciences, 2003, 66, 207-243.	1.2	98
8	Topographically controlled soil moisture is the primary driver of local vegetation patterns across a lowland region. Ecosphere, 2013, 4, 1-26.	2.2	94
9	The priority R-tree. ACM Transactions on Algorithms, 2008, 4, 1-30.	1.0	88
10	Efficient Flow Computation on Massive Grid Terrain Datasets. Geoinformatica, 2003, 7, 283-313.	2.7	87
11	The Priority R-tree. , 2004, , .		74
12	External Memory Data Structures. Massive Computing, 2002, , 313-357.	0.4	58
13	Childhood exposure to green space “ A novel risk-decreasing mechanism for schizophrenia?. Schizophrenia Research, 2018, 199, 142-148.	2.0	57
14	Cache-oblivious priority queue and graph algorithm applications. , 2002, , .		51
15	TerraStream. , 2007, , .		42
16	Natural surroundings in childhood are associated with lower schizophrenia rates. Schizophrenia Research, 2020, 216, 488-495.	2.0	39
17	Efficient Searching with Linear Constraints. Journal of Computer and System Sciences, 2000, 61, 194-216.	1.2	38
18	Associations between growing up in natural environments and subsequent psychiatric disorders in Denmark. Environmental Research, 2020, 188, 109788.	7.5	38

#	ARTICLE	IF	CITATIONS
19	Geographically Comprehensive Assessment of Salt-Meadow Vegetation-Elevation Relations Using LiDAR. <i>Wetlands</i> , 2011, 31, 471-482.	1.5	37
20	Association Between Childhood Green Space, Genetic Liability, and the Incidence of Schizophrenia. <i>Schizophrenia Bulletin</i> , 2020, 46, 1629-1637.	4.3	28
21	Efficient sorting using registers and caches. <i>Journal of Experimental Algorithmics</i> , 2002, 7, 9.	1.0	27
22	On external-memory MST, SSSP and multi-way planar graph separation. <i>Journal of Algorithms</i> , 2004, 53, 186-206.	0.9	26
23	I/O-efficient dynamic planar point location. <i>Computational Geometry: Theory and Applications</i> , 2004, 29, 147-162.	0.5	24
24	An Optimal Cache-Oblivious Priority Queue and Its Application to Graph Algorithms. <i>SIAM Journal on Computing</i> , 2007, 36, 1672-1695.	1.0	24
25	I/O-efficient batched union-find and its applications to terrain analysis. , 2006, , .		23
26	Orthogonal Range Reporting in Three and Higher Dimensions. , 2009, , .		23
27	I/O-efficient point location using persistent B-trees. <i>Journal of Experimental Algorithmics</i> , 2003, 8, .	1.0	22
28	External-Memory Algorithms for Processing Line Segments in Geographic Information Systems. <i>Algorithmica</i> , 2007, 47, 1-25.	1.3	21
29	From Point Cloud to Grid DEM: A Scalable Approach. , 2006, , 771-788.		19
30	Cache-oblivious data structures for orthogonal range searching. , 2003, , .		17
31	I/O-Efficient Contour Tree Simplification. <i>Lecture Notes in Computer Science</i> , 2009, , 1155-1165.	1.3	17
32	Improved Dynamic Planar Point Location. , 2006, , .		16
33	A Framework for Index Bulk Loading and Dynamization. <i>Lecture Notes in Computer Science</i> , 2001, , 115-127.	1.3	15
34	I/O-efficient computation of water flow across a terrain. , 2010, , .		14
35	I/O-efficient batched union-find and its applications to terrain analysis. <i>ACM Transactions on Algorithms</i> , 2010, 7, 1-21.	1.0	13
36	On External-Memory Planar Depth First Search. <i>Journal of Graph Algorithms and Applications</i> , 2003, 7, 105-129.	0.4	13

#	ARTICLE	IF	CITATIONS
37	Time Responsive External Data Structures for Moving Points. Lecture Notes in Computer Science, 2001, , 50-61.	1.3	12
38	An Optimal Dynamic Data Structure for Stabbing-Semigroup Queries. SIAM Journal on Computing, 2012, 41, 104-127.	1.0	10
39	Optimal External Memory Planar Point Enclosure. Algorithmica, 2009, 54, 337-352.	1.3	9
40	Optimal External Memory Planar Point Enclosure. Lecture Notes in Computer Science, 2004, , 40-52.	1.3	8
41	Cache-Oblivious Red-Blue Line Segment Intersection. Lecture Notes in Computer Science, 2008, , 88-99.	1.3	8
42	(Approximate) Uncertain Skylines. Theory of Computing Systems, 2013, 52, 342-366.	1.1	7
43	I/O-Efficient Hierarchical Watershed Decomposition of Grid Terrain Models. , 2006, , 825-844.		7
44	On (Dynamic) Range Minimum Queries in External Memory. Lecture Notes in Computer Science, 2013, , 37-48.	1.3	6
45	I/o-efficient efficient algorithms for computing contours on a terrain. , 2008, , .		5
46	Cache-Oblivious R-Trees. Algorithmica, 2009, 53, 50-68.	1.3	5
47	A life course approach to understanding associations between natural environments and mental well-being for the Danish blood donor cohort. Health and Place, 2021, 72, 102678.	3.3	5
48	External Data Structures for Shortest Path Queries on Planar Digraphs. Lecture Notes in Computer Science, 2005, , 328-338.	1.3	4
49	Computing betweenness centrality in external memory. , 2013, , .		3
50	Efficient external memory structures for range-aggregate queries. Computational Geometry: Theory and Applications, 2013, 46, 358-370.	0.5	3
51	Efficient Tradeoff Schemes in Data Structures for Querying Moving Objects. Lecture Notes in Computer Science, 2004, , 4-15.	1.3	3
52	External Memory Planar Point Location with Logarithmic Updates. Algorithmica, 2012, 63, 457-475.	1.3	2
53	RAM-Efficient External Memory Sorting. Algorithmica, 2015, 73, 623-636.	1.3	2
54	Fast generation of multiple resolution instances of raster data sets. , 2012, , .		1

#	ARTICLE	IF	CITATIONS
55	On external-memory MST, SSSP and multi-way planar graph separation*1. Journal of Algorithms, 2004, 53, 186-186.	0.9	0
56	External memory planar point location with logarithmic updates. , 2008, , .		0
57	Guest Editorsâ€™ Foreword. Discrete and Computational Geometry, 2016, 56, 833-835.	0.6	0
58	Recent Advances in Worst-Case Efficient Range Search Indexing. Lecture Notes in Computer Science, 2009, , 3-4.	1.3	0