Lars Arge

List of Publications by Year
in descending order

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	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
2	Natural surroundings in childhood are associated with lower schizophrenia rates. Schizophrenia Research, 2020, 216, 488-495.	2.0	39
3	Associations between growing up in natural environments and subsequent psychiatric disorders in Denmark. Environmental Research, 2020, 188, 109788.	7.5	38
4	Association Between Childhood Green Space, Genetic Liability, and the Incidence of Schizophrenia. Schizophrenia Bulletin, 2020, 46, 1629-1637.	4.3	28
5	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
6	Childhood exposure to green space â€" A novel risk-decreasing mechanism for schizophrenia?. Schizophrenia Research, 2018, 199, 142-148.	2.0	57
7	Guest Editorsâ€™ Foreword. Discrete and Computational Geometry, 2016, 56, 833-835.	0.6	0
8	RAM-Efficient External Memory Sorting. Algorithmica, 2015, 73, 623-636.	1.3	2
9	(Approximate) Uncertain Skylines. Theory of Computing Systems, 2013, 52, 342-366.	1.1	7
10	Computing betweenness centrality in external memory. , 2013, , .		3
11	Topographically controlled soil moisture is the primary driver of local vegetation patterns across a lowland region. Ecosphere, 2013, 4, 1-26.	2.2	94
12	Efficient external memory structures for range-aggregate queries. Computational Geometry: Theory and Applications, 2013, 46, 358-370.	0.5	3
13	Topography as a driver of local terrestrial vascular plant diversity patterns. Nordic Journal of Botany, 2013, 31, 129-144.	0.5	175
14	Topographically controlled soil moisture drives plant diversity patterns within grasslands. Biodiversity and Conservation, 2013, 22, 2151-2166.	2.6	124
15	On (Dynamic) Range Minimum Queries in External Memory. Lecture Notes in Computer Science, 2013, , 37-48.	1.3	6
16	An Optimal Dynamic Data Structure for Stabbing-Semigroup Queries. SIAM Journal on Computing, 2012, 41, 104-127.	1.0	10
17	Fast generation of multiple resolution instances of raster data sets. , 2012, , .		1
18	External Memory Planar Point Location with Logarithmic Updates. Algorithmica, 2012, 63, 457-475.	1.3	2

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19	Geographically Comprehensive Assessment of Salt-Meadow Vegetation-Elevation Relations Using LiDAR. Wetlands, 2011, 31, 471-482.	1.5	37
20	I/O-efficient batched union-find and its applications to terrain analysis. ACM Transactions on Algorithms, 2010, 7, 1-21.	1.0	13
21	I/O-efficient computation of water flow across a terrain. , 2010, , .		14
22	Cache-Oblivious R-Trees. Algorithmica, 2009, 53, 50-68.	1.3	5
23	Optimal External Memory Planar Point Enclosure. Algorithmica, 2009, 54, 337-352.	1.3	9
24	Orthogonal Range Reporting in Three and Higher Dimensions. , 2009, , .		23
25	I/O-Efficient Contour Tree Simplification. Lecture Notes in Computer Science, 2009, , 1155-1165.	1.3	17
26	Recent Advances in Worst-Case Efficient Range Search Indexing. Lecture Notes in Computer Science, 2009, , 3-4.	1.3	0
27	The priority R-tree. ACM Transactions on Algorithms, 2008, 4, 1-30.	1.0	88
28	I/o-efficient efficient algorithms for computing contours on a terrain. , 2008, , .		5
29	External memory planar point location with logarithmic updates. , 2008, , .		0
30	Cache-Oblivious Red-Blue Line Segment Intersection. Lecture Notes in Computer Science, 2008, , 88-99.	1.3	8
31	TerraStream. , 2007, , .		42
32	An Optimal Cacheâ€Oblivious Priority Queue and Its Application to Graph Algorithms. SIAM Journal on Computing, 2007, 36, 1672-1695.	1.0	24
33	External-Memory Algorithms for Processing Line Segments in Geographic Information Systems. Algorithmica, 2007, 47, 1-25.	1.3	21
34	I/O-efficient batched union-find and its applications to terrain analysis. , 2006, , .		23
35	Improved Dynamic Planar Point Location. , 2006, , .		16
36	From Point Cloud to Grid DEM: A Scalable Approach. , 2006, , 771-788.		19

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37	I/O-Efficient Hierarchical Watershed Decomposition of Grid Terrain Models. , 2006, , 825-844.		7
38	External Data Structures for Shortest Path Queries on Planar Digraphs. Lecture Notes in Computer Science, 2005, , 328-338.	1.3	4
39	The Priority R-tree. , 2004, , .		74
40	I/O-efficient dynamic planar point location. Computational Geometry: Theory and Applications, 2004, 29, 147-162.	0.5	24
41	On external-memory MST, SSSP and multi-way planar graph separation. Journal of Algorithms, 2004, 53, 186-206.	0.9	26
42	On external-memory MST, SSSP and multi-way planar graph separation*1. Journal of Algorithms, 2004, 53, 186-186.	0.9	0
43	Optimal External Memory Planar Point Enclosure. Lecture Notes in Computer Science, 2004, , 40-52.	1.3	8
44	Efficient Tradeoff Schemes in Data Structures for Querying Moving Objects. Lecture Notes in Computer Science, 2004, , 4-15.	1.3	3
45	Efficient Flow Computation on Massive Grid Terrain Datasets. GeoInformatica, 2003, 7, 283-313.	2.7	87
46	Indexing Moving Points. Journal of Computer and System Sciences, 2003, 66, 207-243.	1.2	98
47	The Buffer Tree: A Technique for Designing Batched External Data Structures. Algorithmica, 2003, 37, 1-24.	1.3	144
48	Optimal External Memory Interval Management. SIAM Journal on Computing, 2003, 32, 1488-1508.	1.0	112
49	Cache-oblivious data structures for orthogonal range searching. , 2003, , .		17
50	I/O-efficient point location using persistent B-trees. Journal of Experimental Algorithmics, 2003, 8, .	1.0	22
51	On External-Memory Planar Depth First Search. Journal of Graph Algorithms and Applications, 2003, 7, 105-129.	0.4	13
52	Cache-oblivious priority queue and graph algorithm applications. , 2002, , .		51
53	Efficient sorting using registers and caches. Journal of Experimental Algorithmics, 2002, 7, 9.	1.0	27
54	External Memory Data Structures. Massive Computing, 2002, , 313-357.	0.4	58

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55	Time Responsive External Data Structures for Moving Points. Lecture Notes in Computer Science, 2001, , 50-61.	1.3	12
56	A Framework for Index Bulk Loading and Dynamization. Lecture Notes in Computer Science, 2001, , 115-127.	1.3	15
57	Efficient Searching with Linear Constraints. Journal of Computer and System Sciences, 2000, 61, 194-216.	1.2	38
58	On two-dimensional indexability and optimal range search indexing. , 1999, , .		98