Nir Shavit

List of Publications by Year
in descending order

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57	4,115	257357	302012
papers	citations	24 h-index	39 g-index

57	57	57	1373
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Transactional Locking II. Lecture Notes in Computer Science, 2006, , 194-208.	1.0	631
2	The topological structure of asynchronous computability. Journal of the ACM, 1999, 46, 858-923.	1.8	394
3	Atomic snapshots of shared memory. Journal of the ACM, 1993, 40, 873-890.	1.8	361
4	Software transactional memory. Distributed Computing, 1997, 10, 99-116.	0.7	290
5	Flat combining and the synchronization-parallelism tradeoff. , 2010, , .		232
6	Connectomes across development reveal principles of brain maturation. Nature, 2021, 596, 257-261.	13.7	205
7	The big data challenges of connectomics. Nature Neuroscience, 2014, 17, 1448-1454.	7.1	194
8	Data structures in the multicore age. Communications of the ACM, 2011, 54, 76-84.	3.3	159
9	A scalable lock-free stack algorithm. , 2004, , .		143
10	Counting networks. Journal of the ACM, 1994, 41, 1020-1048.	1.8	134
11	A scalable lock-free stack algorithm. Journal of Parallel and Distributed Computing, 2010, 70, 1-12.	2.7	105
12	Diffracting trees. ACM Transactions on Computer Systems, 1996, 14, 385-428.	0.6	95
13	On the space complexity of randomized synchronization. Journal of the ACM, 1998, 45, 843-862.	1.8	79
14	Using elimination to implement scalable and lock-free FIFO queues. , 2005, , .		73
15	Non-blocking steal-half work queues. , 2002, , .		64
16	Combining Funnels: A Dynamic Approach to Software Combining. Journal of Parallel and Distributed Computing, 2000, 60, 1355-1387.	2.7	62
17	Bounded Concurrent Time-Stamping. SIAM Journal on Computing, 1997, 26, 418-455.	0.8	61
18	TLRW. , 2010, , .		60

#	Article	IF	Citations
19	Are wait-free algorithms fast?. Journal of the ACM, 1994, 41, 725-763.	1.8	57
20	Understanding Tradeoffs in Software Transactional Memory. , 2007, , .		55
21	The SprayList: a scalable relaxed priority queue. , 2015, , .		55
22	StackTrack. , 2014, , .		42
23	A dynamic-sized nonblocking work stealing deque. Distributed Computing, 2006, 18, 189-207.	0.7	40
24	Scalable concurrent counting. ACM Transactions on Computer Systems, 1995, 13, 343-364.	0.6	39
25	A bounded first-in, first-enabled solution to the l -exclusion problem. ACM Transactions on Programming Languages and Systems, 1994, 16, 939-953.	1.7	37
26	Linearizable counting networks. Distributed Computing, 1996, 9, 193-203.	0.7	37
27	Maintaining Consistent Transactional States without a Global Clock. Lecture Notes in Computer Science, 2008, , 131-140.	1.0	32
28	Concurrent Data Structures. Chapman & Hall/CRC Computer and Information Science Series, 2004, , 47-1-47-30.	0.4	32
29	Reduced hardware transactions. , 2013, , .		31
30	An optimistic approach to lock-free FIFO queues. Distributed Computing, 2008, 20, 323-341.	0.7	30
31	On the Inherent Sequentiality of Concurrent Objects. SIAM Journal on Computing, 2012, 41, 519-536.	0.8	30
32	Nonblocking k-compare-single-swap. , 2003, , .		29
33	Reactive Diffracting Trees. Journal of Parallel and Distributed Computing, 2000, 60, 853-890.	2.7	27
34	A Lazy Concurrent List-Based Set Algorithm. Parallel Processing Letters, 2007, 17, 411-424.	0.4	25
35	On the Uncontended Complexity of Consensus. Lecture Notes in Computer Science, 2003, , 45-59.	1.0	24
36	Toward a Topological Characterization of Asynchronous Complexity. SIAM Journal on Computing, 2006, 36, 457-497.	0.8	24

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37	Towards a practical snapshot algorithm. Theoretical Computer Science, 2001, 269, 163-201.	0.5	22
38	Towards Consistency Oblivious Programming. Lecture Notes in Computer Science, 2011, , 65-79.	1.0	22
39	The SprayList: a scalable relaxed priority queue. ACM SIGPLAN Notices, 2015, 50, 11-20.	0.2	16
40	The computability of relaxed data structures: queues and stacks as examples. Distributed Computing, 2016, 29, 395-407.	0.7	13
41	Sparse sign-consistent Johnsonâ€“Lindenstrauss matrices: Compression with neuroscience-based constraints. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 16872-16876.	3.3	11
42	Combining funnels. , 1998, , .		9
43	A Multicore Path to Connectomics-on-Demand. , 2017, , .		8
44	The Computability of Relaxed Data Structures: Queues and Stacks as Examples. Lecture Notes in Computer Science, 2015, , 414-428.	1.0	6
45	Predictive log-synchronization. Operating Systems Review (ACM), 2006, 40, 305-315.	1.5	3
46	Solo-valency and the cost of coordination. Distributed Computing, 2008, 21, 43-54.	0.7	3
47	A Multicore Path to Connectomics-on-Demand. ACM SIGPLAN Notices, 2017, 52, 267-281.	0.2	3
48	Reduced Hardware NOrec. ACM SIGPLAN Notices, 2015, 50, 59-71.	0.2	3
49	Nonblocking k-Compare-Single-Swap. Theory of Computing Systems, 2009, 44, 39-66.	0.7	2
50	Inherent limitations of hybrid transactional memory. Distributed Computing, 2018, 31, 167-185.	0.7	2
51	Learning Guided Electron Microscopy with Active Acquisition. Lecture Notes in Computer Science, 2020, , 77-87.	1.0	2
52	Software transactional memory: Where do we come from? What are we? Where are we going?. , 2009, , .		1
53	Transactional Memory. , 2015, , 1-4.		1
54	Foundations of shared memory. , 2021, , 75-102.		0

#	Article	IF	Citations
55	Transactional programming. , 2021, , 467-496.		0
56	Mutual exclusion. , 2021, , 21-47.		0
57	Transactional Memory. , 2016, , 2246-2249.		0