

Leslie Lamport

List of Publications by Year in descending order

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69
papers

22,838
citations

101384

36
h-index

114278

63
g-index

72
all docs

72
docs citations

72
times ranked

5845
citing authors

#	ARTICLE	IF	CITATIONS
1	Time, clocks, and the ordering of events in a distributed system. Communications of the ACM, 1978, 21, 558-565.	3.3	6,713
2	The Byzantine Generals Problem. ACM Transactions on Programming Languages and Systems, 1982, 4, 382-401.	1.7	4,124
3	Distributed snapshots. ACM Transactions on Computer Systems, 1985, 3, 63-75.	0.6	1,933
4	The part-time parliament. ACM Transactions on Computer Systems, 1998, 16, 133-169.	0.6	1,881
5	On interprocess communication. Distributed Computing, 1986, 1, 77-85.	0.7	643
6	A new solution of Dijkstra's concurrent programming problem. Communications of the ACM, 1974, 17, 453-455.	3.3	571
7	The existence of refinement mappings. Theoretical Computer Science, 1991, 82, 253-284.	0.5	566
8	The parallel execution of DO loops. Communications of the ACM, 1974, 17, 83-93.	3.3	504
9	On-the-fly garbage collection. Communications of the ACM, 1978, 21, 966-975.	3.3	474
10	Proving Liveness Properties of Concurrent Programs. ACM Transactions on Programming Languages and Systems, 1982, 4, 455-495.	1.7	437
11	Specifying Concurrent Program Modules. ACM Transactions on Programming Languages and Systems, 1983, 5, 190-222.	1.7	426
12	A fast mutual exclusion algorithm. ACM Transactions on Computer Systems, 1987, 5, 1-11.	0.6	375
13	Composing specifications. ACM Transactions on Programming Languages and Systems, 1993, 15, 73-132.	1.7	326
14	Conjoining specifications. ACM Transactions on Programming Languages and Systems, 1995, 17, 507-535.	1.7	325
15	Fast Paxos. Distributed Computing, 2006, 19, 79-103.	0.7	297
16	"Sometime" is sometimes "not never"., 1980, , .		221
17	Concurrent reading and writing. Communications of the ACM, 1977, 20, 806-811.	3.3	215
18	Using Time Instead of Timeout for Fault-Tolerant Distributed Systems.. ACM Transactions on Programming Languages and Systems, 1984, 6, 254-280.	1.7	213

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19	The mutual exclusion problem. Journal of the ACM, 1986, 33, 313-326.	1.8	199
20	The mutual exclusion problem. Journal of the ACM, 1986, 33, 327-348.	1.8	191
21	On interprocess communication. Distributed Computing, 1986, 1, 86-101.	0.7	189
22	A simple approach to specifying concurrent systems. Communications of the ACM, 1989, 32, 32-45.	3.3	174
23	An old-fashioned recipe for real time. ACM Transactions on Programming Languages and Systems, 1994, 16, 1543-1571.	1.7	144
24	The "Hoare logic" of concurrent programs. Acta Informatica, 1980, 14, 21-37.	0.5	131
25	Model Checking TLA+ Specifications. Lecture Notes in Computer Science, 1999, , 54-66.	1.0	130
26	Disk Paxos. Distributed Computing, 2003, 16, 1-20.	0.7	93
27	The "Hoare Logic" of CSP, and All That. ACM Transactions on Programming Languages and Systems, 1984, 6, 281-296.	1.7	90
28	Vertical paxos and primary-backup replication. , 2009, , .		90
29	How to Write a Proof. American Mathematical Monthly, 1995, 102, 600-608.	0.2	78
30	Lower bounds for asynchronous consensus. Distributed Computing, 2006, 19, 104-125.	0.7	74
31	A New Approach to Proving the Correctness of Multiprocess Programs. ACM Transactions on Programming Languages and Systems, 1979, 1, 84-97.	1.7	66
32	Reconfiguring a state machine. ACM SIGACT News, 2010, 41, 63-73.	0.1	65
33	Composing specifications. Lecture Notes in Computer Science, 1990, , 1-41.	1.0	62
34	Byzantizing Paxos by Refinement. Lecture Notes in Computer Science, 2011, , 211-224.	1.0	55
35	An assertional correctness proof of a distributed algorithm. Science of Computer Programming, 1982, 2, 175-206.	1.5	53
36	Distributed Computing: Models and Methods. , 1990, , 1157-1199.		42

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37	Verifying Safety Properties with the TLA ⁺ Proof System. Lecture Notes in Computer Science, 2010, , 142-148.	1.0	41
38	How to Write a Proof. American Mathematical Monthly, 1995, 102, 600.	0.2	39
39	Fairness and hyperfairness. Distributed Computing, 2000, 13, 239-245.	0.7	39
40	Formal Specification of a Web Services Protocol. Electronic Notes in Theoretical Computer Science, 2004, 105, 147-158.	0.9	36
41	TLA ⁺ Proofs. Lecture Notes in Computer Science, 2012, , 147-154.	1.0	35
42	How to write a 21st century proof. Journal of Fixed Point Theory and Applications, 2012, 11, 43-63.	0.6	34
43	Lower Bounds for Asynchronous Consensus. Lecture Notes in Computer Science, 2003, , 22-23.	1.0	28
44	What it means for a concurrent program to satisfy a specification. , 1985, , .		26
45	Concurrent reading and writing of clocks. ACM Transactions on Computer Systems, 1990, 8, 305-310.	0.6	24
46	Lazy caching in TLA. Distributed Computing, 1999, 12, 151-174.	0.7	24
47	The synchronization of independent processes. Acta Informatica, 1976, 7, 15-34.	0.5	21
48	The TLA ⁺ Toolbox. Electronic Proceedings in Theoretical Computer Science, EPTCS, 0, 310, 50-62.	0.8	21
49	Arbitration-free synchronization. Distributed Computing, 2003, 16, 219-237.	0.7	20
50	How to write a long formula. Formal Aspects of Computing, 1994, 6, 580-584.	1.4	19
51	High-Level Specifications: Lessons from Industry. Lecture Notes in Computer Science, 2003, , 242-261.	1.0	18
52	Control predicates are better than dummy variables for reasoning about program control. ACM Transactions on Programming Languages and Systems, 1988, 10, 267-281.	1.7	17
53	Multiple byte processing with full-word instructions. Communications of the ACM, 1975, 18, 471-475.	3.3	15
54	Turing lectureThe computer science of concurrency. Communications of the ACM, 2015, 58, 71-76.	3.3	15

#	ARTICLE	IF	CITATIONS
55	On the proof of correctness of a calendar program. Communications of the ACM, 1979, 22, 554-556.	3.3	12
56	Reasoning about nonatomic operations. , 1983, , .		11
57	Processes are in the eye of the beholder. Theoretical Computer Science, 1997, 179, 333-351.	0.5	10
58	Formal specification of a Web services protocol. The Journal of Logic and Algebraic Programming, 2007, 70, 34-52.	1.4	10
59	Brief Announcement: Leaderless Byzantine Paxos. Lecture Notes in Computer Science, 2011, , 141-142.	1.0	9
60	Preserving liveness: Comments on "œsafety and liveness from a methodological point of view"• Information Processing Letters, 1991, 40, 141-142.	0.4	8
61	On programming parallel computers. ACM SIGPLAN Notices, 1975, 10, 25-33.	0.2	6
62	Critique of the Lake Arrowhead Three. Distributed Computing, 1992, 6, 65-71.	0.7	5
63	The mailbox problem. Distributed Computing, 2010, 23, 113-134.	0.7	5
64	The hyperplane method for an array computer. Lecture Notes in Computer Science, 1975, , 113-131.	1.0	5
65	The specification and proof of correctness of interactive programs. Lecture Notes in Computer Science, 1979, , 474-537.	1.0	3
66	State the problem before describing the solution. Software Engineering Notes: an Informal Newsletter of the Special Interest Committee on Software Engineering / ACM, 1978, 3, 26-26.	0.5	2
67	Implementing dataflow with threads. Distributed Computing, 2008, 21, 163-181.	0.7	1
68	Program logics and program verification. , 1981, , 197-199.		0
69	Concurrent Algorithms. , 2022, , 47-80.		0