

Ion Stoica

List of Publications by Year in descending order

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Version: 2024-02-01

77
papers

26,337
citations

201674

27
h-index

345221

36
g-index

77
all docs

77
docs citations

77
times ranked

13388
citing authors

#	ARTICLE	IF	CITATIONS
1	A view of cloud computing. Communications of the ACM, 2010, 53, 50-58.	4.5	7,593
2	Chord. , 2001, , .		5,519
3	Apache Spark. Communications of the ACM, 2016, 59, 56-65.	4.5	1,828
4	Delay scheduling. , 2010, , .		1,041
5	Wide-area cooperative storage with CFS. , 2001, , .		731
6	A data-oriented (and beyond) network architecture. , 2007, , .		702
7	Discretized streams. , 2013, , .		699
8	Looking up data in P2P systems. Communications of the ACM, 2003, 46, 43-48.	4.5	488
9	BlinkDB. , 2013, , .		467
10	Understanding the impact of video quality on user engagement. , 2011, , .		385
11	Internet indirection infrastructure. , 2002, , .		375
12	Core-stateless fair queueing. , 1998, , .		301
13	Managing data transfers in computer clusters with orchestra. , 2011, , .		301
14	Efficient coflow scheduling with Varys. , 2014, , .		272
15	Occupy the cloud. , 2017, , .		271
16	Providing guaranteed services without per flow management. , 1999, , .		270
17	Understanding the impact of video quality on user engagement. Computer Communication Review, 2011, 41, 362-373.	1.8	258
18	Managing data transfers in computer clusters with orchestra. Computer Communication Review, 2011, 41, 98-109.	1.8	249

#	ARTICLE	IF	CITATIONS
19	Shark. , 2013, , .		249
20	Coflow. , 2012, , .		248
21	FairCloud. , 2012, , .		226
22	Developing a predictive model of quality of experience for internet video. , 2013, , .		209
23	Scarlett. , 2011, , .		202
24	A layered naming architecture for the internet. , 2004, , .		163
25	A case for a coordinated internet video control plane. , 2012, , .		152
26	Bolt-on causal consistency. , 2013, , .		146
27	Developing a predictive model of quality of experience for internet video. Computer Communication Review, 2013, 43, 339-350.	1.8	143
28	Providing guaranteed services without per flow management. Computer Communication Review, 1999, 29, 81-94.	1.8	140
29	Declarative networking. Communications of the ACM, 2009, 52, 87-95.	4.5	132
30	Surviving failures in bandwidth-constrained datacenters. , 2012, , .		127
31	Low Latency Geo-distributed Data Analytics. Computer Communication Review, 2015, 45, 421-434.	1.8	127
32	Highly available transactions. Proceedings of the VLDB Endowment, 2013, 7, 181-192.	3.8	122
33	The Case for a Hybrid P2P Search Infrastructure. Lecture Notes in Computer Science, 2005, , 141-150.	1.3	118
34	A policy-aware switching layer for data centers. , 2008, , .		112
35	Leveraging endpoint flexibility in data-intensive clusters. , 2013, , .		106
36	Wide-area cooperative storage with CFS. Operating Systems Review (ACM), 2001, 35, 202-215.	1.9	106

#	ARTICLE	IF	CITATIONS
37	What serverless computing is and should become. Communications of the ACM, 2021, 64, 76-84.	4.5	102
38	Minimizing churn in distributed systems. Computer Communication Review, 2006, 36, 147-158.	1.8	98
39	Endpoint admission control. , 2000, , .		93
40	OpenDHT. Computer Communication Review, 2005, 35, 73-84.	1.8	92
41	A quest for an Internet video quality-of-experience metric. , 2012, , .		81
42	Scaling spark in the real world. Proceedings of the VLDB Endowment, 2015, 8, 1840-1843.	3.8	80
43	One More Bit is Enough. IEEE/ACM Transactions on Networking, 2008, 16, 1281-1294.	3.8	76
44	An Empirical Study of the Coolstreaming+ System. IEEE Journal on Selected Areas in Communications, 2007, 25, 1627-1639.	14.0	70
45	OverQoS. Computer Communication Review, 2003, 33, 11-16.	1.8	68
46	Reducing Congestion Effects in Wireless Networks by Multipath Routing. , 2006, , .		67
47	Efficient Coflow Scheduling Without Prior Knowledge. Computer Communication Review, 2015, 45, 393-406.	1.8	64
48	Enhancing P2P File-Sharing with an Internet-Scale Query Processor. , 2004, , 432-443.		63
49	A hierarchical fair service curve algorithm for link-sharing, real-time and priority services. , 1997, , .		60
50	Scalable atomic visibility with RAMP transactions. , 2014, , .		58
51	Taming IP packet flooding attacks. Computer Communication Review, 2004, 34, 45-50.	1.8	54
52	The potential dangers of causal consistency and an explicit solution. , 2012, , .		52
53	Feral Concurrency Control. , 2015, , .		47
54	SparkR. , 2016, , .		47

#	ARTICLE	IF	CITATIONS
55	<i>FairCloud</i>. , 2011, , .		45
56	The NEBULA Future Internet Architecture. Lecture Notes in Computer Science, 2013, , 16-26.	1.3	41
57	Declarative routing. Computer Communication Review, 2005, 35, 289-300.	1.8	38
58	Leveraging endpoint flexibility in data-intensive clusters. Computer Communication Review, 2013, 43, 231-242.	1.8	38
59	Harmonia. Proceedings of the VLDB Endowment, 2019, 13, 376-389.	3.8	34
60	A layered naming architecture for the internet. Computer Communication Review, 2004, 34, 343-352.	1.8	33
61	Micro Power Meter for Energy Monitoring of Wireless Sensor Networks at Scale. , 2007, , .		31
62	Real-Time Machine Learning. , 2017, , .		31
63	Quantifying eventual consistency with PBS. VLDB Journal, 2014, 23, 279-302.	4.1	29
64	Achieving convergence-free routing using failure-carrying packets. Computer Communication Review, 2007, 37, 241-252.	1.8	28
65	A brief overview of the NEBULA future internet architecture. Computer Communication Review, 2014, 44, 81-86.	1.8	21
66	Scalable Atomic Visibility with RAMP Transactions. ACM Transactions on Database Systems, 2016, 41, 1-45.	2.8	20
67	Revitalizing the public internet by making it extensible. Computer Communication Review, 2021, 51, 18-24.	1.8	20
68	A hierarchical fair service curve algorithm for link-sharing, real-time and priority services. Computer Communication Review, 1997, 27, 249-262.	1.8	15
69	Reliable broadcast in unknown fixed-identity networks. , 2005, , .		15
70	Supporting best-effort traffic with fair service curve. , 1999, , .		12
71	Scaling replicated state machines with compartmentalization. Proceedings of the VLDB Endowment, 2021, 14, 2203-2215.	3.8	9
72	PBS at work. , 2013, , .		7

#	ARTICLE	IF	CITATIONS
73	Hoplite. , 2021, , .		7
74	Read-Write Quorum Systems Made Practical. , 2021, , .		4
75	RAMP-TAO. Proceedings of the VLDB Endowment, 2021, 14, 3014-3027.	3.8	4
76	Securing User-Controlled Routing Infrastructures. IEEE/ACM Transactions on Networking, 2008, 16, 549-561.	3.8	3
77	Benchmark of Bitrate Adaptation in Video Streaming. Journal of Data and Information Quality, 2021, 13, 1-24.	2.1	2