Assaf Schuster

List of Publications by Year
in descending order

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96	2,105	361413 20	361022 35
papers	citations	h-index	g-index

99	99	99	1137
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Deconstructing Amazon EC2 Spot Instance Pricing. ACM Transactions on Economics and Computation, 2013, 1, 1-20.	1.1	173
2	ELI. , 2012, , .		127
3	Deconstructing Amazon EC2 Spot Instance Pricing. , 2011, , .		105
4	Providing k-anonymity in data mining. VLDB Journal, 2008, 17, 789-804.	4.1	93
5	A geometric approach to monitoring threshold functions over distributed data streams. , 2006, , .		88
6	A geometric approach to monitoring threshold functions over distributed data streams. ACM Transactions on Database Systems, 2007, 32, 23.	2.8	83
7	MultiRace: efficient on-the-fly data race detection in multithreaded C++ programs. Concurrency Computation Practice and Experience, 2007, 19, 327-340.	2.2	79
8	Association Rule Mining in Peer-to-Peer Systems. IEEE Transactions on Systems, Man, and Cybernetics, 2004, 34, 2426-2438.	5.0	68
9	The rise of RaaS. Communications of the ACM, 2014, 57, 76-84.	4.5	68
10	Thread migration and its applications in distributed shared memory systems. Journal of Systems and Software, 1998, 42, 71-87.	4.5	61
11	Toward Integration of Data Race Detection in DSM Systems. Journal of Parallel and Distributed Computing, 1999, 59, 180-203.	4.1	55
12	Communication-efficient distributed mining of association rules. , 2001, , .		47
13	A high-performance distributed algorithm for mining association rules. Knowledge and Information Systems, 2005, 7, 458-475.	3.2	45
14	Shape Sensitive Geometric Monitoring. IEEE Transactions on Knowledge and Data Engineering, 2012, 24, 1520-1535.	5.7	43
15	k-TTP. , 2004, , .		42
16	MILLIPEDE: Easy Parallel Programming in Available Distributed Environments. Software - Practice and Experience, 1997, 27, 929-965.	3.6	37
17	Ginseng. , 2014, , .		37
18	Shape sensitive geometric monitoring. , 2008, , .		33

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19	Greedy hot-potato routing on the two-dimensional mesh. Distributed Computing, 1995, 9, 3-19.	0.8	31
20	Achieving Speedups in Distributed Symbolic Reachability Analysis Through Asynchronous Computation. Lecture Notes in Computer Science, 2005, , 129-145.	1.3	30
21	A Local Facility Location Algorithm for Sensor Networks. Lecture Notes in Computer Science, 2005, , 368-375.	1.3	26
22	Lazy evaluation methods for detecting complex events. , 2015, , .		26
23	Efficient on-the-fly data race detection in multithreaded C++ programs. ACM SIGPLAN Notices, 2003, 38, 179-190.	0.2	25
24	MC2: Multiple Clients on a Multilevel Cache. , 2008, , .		24
25	Instrumentation of standard libraries in object-oriented languages. , 2004, , .		23
26	Meeting the unmet needs of clinicians from AI systems showcased for cardiology with deep-learningâ€“based ECG analysis. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	23
27	A work-efficient distributed algorithm for reachability analysis. Formal Methods in System Design, 2006, 29, 157-175.	0.8	22
28	Geometric Monitoring of Heterogeneous Streams. IEEE Transactions on Knowledge and Data Engineering, 2014, 26, 1890-1903.	5.7	22
29	A Local Algorithm for Ad Hoc Majority Voting via Charge Fusion. Lecture Notes in Computer Science, 2004, , 275-289.	1.3	22
30	Exploiting graph-theoretic tools for matching in carpooling applications. Journal of Ambient Intelligence and Humanized Computing, 2014, 5, 393-407.	4.9	21
31	Automatic classification of healthy and disease conditions from images or digital standard 12-lead electrocardiograms. Scientific Reports, 2020, 10, 16331.	3.3	21
32	Communication-Efficient Distributed Mining of Association Rules. Data Mining and Knowledge Discovery, 2004, 8, 171-196.	3.7	20
33	A Scalable Parallel Algorithm for Reachability Analysis of Very Large Circuits. Formal Methods in System Design, 2002, 21, 317-338.	0.8	19
34	Distributed Geometric Query Monitoring Using Prediction Models. ACM Transactions on Database Systems, 2014, 39, 1-42.	2.8	19
35	A Local Facility Location Algorithm for Large-scale Distributed Systems. Journal of Grid Computing, 2007, 5, 361-378.	3.9	18
36	Monitoring distributed streams using convex decompositions. Proceedings of the VLDB Endowment, 2015, 8, 545-556.	3.8	18

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37	Veracity radius. , 2006, , .		17
38	Java consistency. ACM Transactions on Computer Systems, 2000, 18, 333-386.	0.8	16
39	Potential function analysis of greedy hot-potato routing. , 1994, , .		15
40	Monitoring Least Squares Models of Distributed Streams. , 2015, , .		15
41	Scaling model checking of dataraces using dynamic information. , 2005, , .		14
42	Visualizing and Quantifying Irregular Heart Rate Irregularities to Identify Atrial Fibrillation Events. Frontiers in Physiology, 2021, 12, 637680.	2.8	14
43	A Work-Efficient Distributed Algorithm for Reachability Analysis. Lecture Notes in Computer Science, 2003, , 54-66.	1.3	14
44	Distributed threshold querying of general functions by a difference of monotonic representation. Proceedings of the VLDB Endowment, 2010, 4, 46-57.	3.8	13
45	Communication-Efficient Distributed Online Prediction by Dynamic Model Synchronization. Lecture Notes in Computer Science, 2014, , 623-639.	1.3	13
46	Latent fault detection in large scale services. , 2012, , .		12
47	Scaling model checking of dataraces using dynamic information. Journal of Parallel and Distributed Computing, 2007, 67, 536-550.	4.1	10
48	Randomized Single-Target Hot-Potato Routing. Journal of Algorithms, 1997, 23, 101-120.	0.9	9
49	Aggregate Threshold Queries in Sensor Networks. , 2007, , .		9
50	Anarchists, Unite. , 2017, , .		9
51	Running Parallel Applications with Topology-Aware Grid Middleware. , 2009, , .		8
52	Top- vectorial aggregation queries in a distributed environment. Journal of Parallel and Distributed Computing, 2011, 71, 302-315.	4.1	8
53	Extending Amdahlâ€™s Law for Multicores with Turbo Boost. IEEE Computer Architecture Letters, 2017, 16, 30-33.	1.5	8
54	Lightweight Monitoring of Distributed Streams. ACM Transactions on Database Systems, 2018, 43, 1-37.	2.8	8

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55	Scalable distributed on-the-fly symbolic model checking. International Journal on Software Tools for Technology Transfer, 2003, 4, 496-504.	1.9	7
56	A scheduling framework for large-scale, parallel, and topology-aware applications. Journal of Parallel and Distributed Computing, 2010, 70, 983-992.	4.1	7
57	LDA classifier monitoring in distributed streaming systems. Journal of Parallel and Distributed Computing, 2019, 123, 156-167.	4.1	7
58	Efficient Dynamic Aggregation. Lecture Notes in Computer Science, 2006, , 90-104.	1.3	7
59	Bounds and Analysis Techniques for Greedy Hot-Potato Routing. , 1998, , 283-354.		7
60	Communication-efficient distributed mining of association rules. SIGMOD Record, 2001, 30, 473-484.	1.2	7
61	Transparent adaptation of sharing granularity in MultiView-based DSM systems. Software - Practice and Experience, 2001, 31, 1439.	3.6	6
62	Symphony: An Infrastructure for Managing Virtual Servers. Cluster Computing, 2001, 4, 221-233.	5.0	6
63	Lightweight Monitoring of Distributed Streams. , 2016, , .		6
64	TIME-SIZE TRADEOFFS FOR RECONFIGURABLE MESHES. Parallel Processing Letters, 1996, 06, 231-245.	0.6	5
65	Distributed Symbolic Model Checking for Î¼-Calculus. Formal Methods in System Design, 2005, 26, 197-219.	0.8	5
66	Stochastic resource allocation. , 2019, , .		5
67	2-D SIMD algorithms for perfect shuffle networks. Journal of Parallel and Distributed Computing, 1992, 16, 250-257.	4.1	4
68	Software Distributed Shared Memory: a VIA-based implementation and comparison of sequential consistency with home-based lazy release consistency. Software - Practice and Experience, 2005, 35, 755-786.	3.6	4
69	VERIFYING VERY LARGE INDUSTRIAL CIRCUITS USING 100 PROCESSES AND BEYOND. International Journal of Foundations of Computer Science, 2007, 18, 45-61.	1.1	4
70	Cooperative caching with return on investment. , 2013, , .		4
71	Greedy hot-potato routing on the two-dimensional mesh. Distributed Computing, 1995, 9, 3-19.	0.8	4
72	RANKING ON RECONFIGURABLE NETWORKS. Parallel Processing Letters, 1991, 01, 149-156.	0.6	3

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73	COMPLEXITY OF VERIFYING JAVA SHARED MEMORY EXECUTION. Parallel Processing Letters, 2003, 13, 721-733.	0.6	3
74	Want scalable computing?. ACM SIGACT News, 2006, 37, 59-66.	0.1	3
75	A Platform-Independent Distributed Runtime for Standard Multithreaded Java. International Journal of Parallel Programming, 2006, 34, 113-142.	1.5	3
76	GWiQ-P. Operating Systems Review (ACM), 2008, 42, 111-118.	1.9	3
77	Mining for Misconfigured Machines in Grid Systems. , 2009, , 71-89.		3
78	2DT-FP: An FP based programming language for efficient parallel programming of multiprocessor networks. Lecture Notes in Computer Science, 1993, , 42-55.	1.3	3
79	Implementing 2DT on a multiprocessor. Lecture Notes in Computer Science, 1994, , 113-127.	1.3	3
80	Hybrid BDD and All-SAT Method for Model Checking. Lecture Notes in Computer Science, 2009, , 228-244.	1.3	3
81	FAST, EFFICIENT MUTUAL AND SELF SIMULATIONS FOR SHARED MEMORY AND RECONFIGURABLE MESH. International Journal of Parallel, Emergent and Distributed Systems, 1996, 8, 195-221.	0.4	2
82	Monitoring Distributed, Heterogeneous Data Streams: The Emergence of Safe Zones. Lecture Notes in Computer Science, 2014, , 17-28.	1.3	2
83	Parallel vertex-to-vertex radiosity on a distributed shared memory system. Lecture Notes in Computer Science, 1998, , 238-250.	1.3	2
84	Attacks in the Resource-as-a-Service (RaaS) Cloud Context. Lecture Notes in Computer Science, 2016, , 10-18.	1.3	2
85	Efficient Multi-resource, Multi-unit VCG Auction. Lecture Notes in Computer Science, 2019, , 231-246.	1.3	2
86	Detection in the Dark â€“ Exploiting XSS Vulnerability in C&C Panels to Detect Malwares. Lecture Notes in Computer Science, 2018, , 227-242.	1.3	1
87	Verifying Very Large Industrial Circuits Using 100 Processes and Beyond. Lecture Notes in Computer Science, 2005, , 11-25.	1.3	1
88	Preventing Collusion in Cloud Computing Auctions. Lecture Notes in Computer Science, 2019, , 24-38.	1.3	1
89	2DT-FP: A parallel functional programming language on two-dimensional data. International Journal of Parallel Programming, 1995, 23, 389-422.	1.5	0
90	LOW CROSSTALK ADDRESS ENCODINGS FOR OPTICAL MESSAGE SWITCHING SYSTEMS. Parallel Processing Letters, 1996, 06, 87-100.	0.6	0

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91	Single Step Undirected Reconfigurable Networks. VLSI Design, 1999, 9, 17-28.	0.5	0
92	Dynamic adaptation of sharing granularity in dsm systems. Journal of Systems and Software, 2000, 55, 19-32.	4.5	0
93	A scheduling framework for large-scale, parallel, and topology-aware applications. , 2010, , .		0
94	Collusion in Cloud Computing Auctions. , 2018, , .		0
95	Violation Resolution in Distributed Stream Networks. Communications in Computer and Information Science, 2018, , 144-171.	0.5	0
96	AutoMon: Automatic Distributed Monitoring for Arbitrary Multivariate Functions. , 2022, , .		0