

Umut A Acar

List of Publications by Year in descending order

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Version: 2024-02-01

49
papers

1,227
citations

933447

10
h-index

752698

20
g-index

51
all docs

51
docs citations

51
times ranked

403
citing authors

#	ARTICLE	IF	CITATIONS
1	Incoop. , 2011, , .		229
2	The Data Locality of Work Stealing. Theory of Computing Systems, 2002, 35, 321-347.	1.1	93
3	Scheduling parallel programs by work stealing with private dequeues. , 2013, , .		80
4	Adaptive functional programming. ACM Transactions on Programming Languages and Systems, 2006, 28, 990-1034.	2.1	70
5	Imperative self-adjusting computation. , 2008, , .		59
6	CEAL. , 2009, , .		59
7	An experimental analysis of self-adjusting computation. ACM Transactions on Programming Languages and Systems, 2009, 32, 1-53.	2.1	54
8	Adaptive functional programming. , 2002, , .		46
9	Provenance as dependency analysis. Mathematical Structures in Computer Science, 2011, 21, 1301-1337.	0.6	37
10	An experimental analysis of self-adjusting computation. , 2006, , .		33
11	Self-adjusting computation. , 2009, , .		31
12	Hierarchical memory management for parallel programs. , 2016, , .		28
13	Compiling self-adjusting programs with continuations. , 2008, , .		25
14	A cost semantics for self-adjusting computation. , 2009, , .		25
15	Dynamic well-spaced point sets. , 2010, , .		25
16	Robust Kinetic Convex Hulls in 3D. Lecture Notes in Computer Science, 2008, , 29-40.	1.3	25
17	A proposal for parallel self-adjusting computation. , 2007, , .		22
18	Type-directed automatic incrementalization. , 2012, , .		22

#	ARTICLE	IF	CITATIONS
19	Traceable data types for self-adjusting computation. , 2010, , .		21
20	Memory management for self-adjusting computation. , 2008, , .		17
21	Selective memoization. ACM SIGPLAN Notices, 2003, 38, 14-25.	0.2	16
22	Implicit self-adjusting computation for purely functional programs. , 2011, , .		16
23	Oracle scheduling. , 2011, , .		16
24	Oracle-guided scheduling for controlling granularity in implicitly parallel languages. Journal of Functional Programming, 2016, 26, .	0.8	14
25	A Core Calculus for Provenance. Lecture Notes in Computer Science, 2012, , 410-429.	1.3	14
26	Parallelism in dynamic well-spaced point sets. , 2011, , .		13
27	Latency-Hiding Work Stealing. , 2016, , .		13
28	Self-adjusting stack machines. , 2011, , .		11
29	Database Queries that Explain their Work. , 2014, , .		11
30	Implicit self-adjusting computation for purely functional programs. Journal of Functional Programming, 2014, 24, 56-112.	0.8	11
31	A core calculus for provenance. Journal of Computer Security, 2013, 21, 919-969.	0.8	10
32	Toward a Theory of Self-explaining Computation. Lecture Notes in Computer Science, 2013, , 193-216.	1.3	6
33	Automatically Splitting a Two-Stage Lambda Calculus. Lecture Notes in Computer Science, 2016, , 255-281.	1.3	6
34	A consistent semantics of self-adjusting computation. Journal of Functional Programming, 2013, 23, 249-292.	0.8	5
35	Functional programming for dynamic and large data with self-adjusting computation. , 2014, , .		5
36	Task parallel assembly language for uncompromising parallelism. , 2021, , .		5

#	ARTICLE	IF	CITATIONS
37	A cost semantics for self-adjusting computation. ACM SIGPLAN Notices, 2009, 44, 186-199.	0.2	5
38	A Consistent Semantics of Self-adjusting Computation. Lecture Notes in Computer Science, 2007, , 458-474.	1.3	4
39	Traceable data types for self-adjusting computation. ACM SIGPLAN Notices, 2010, 45, 483-496.	0.2	3
40	Dynamic well-spaced point sets. Computational Geometry: Theory and Applications, 2013, 46, 756-773.	0.5	3
41	SVR: Practical Engineering of a Fast 3D Meshing Algorithm* . , 2008, , 45-62.		3
42	Non-monotonic Self-Adjusting Computation. Lecture Notes in Computer Science, 2012, , 476-496.	1.3	3
43	Type-directed automatic incrementalization. ACM SIGPLAN Notices, 2012, 47, 299-310.	0.2	3
44	Hierarchical memory management for parallel programs. ACM SIGPLAN Notices, 2016, 51, 392-406.	0.2	3
45	Implicit self-adjusting computation for purely functional programs. ACM SIGPLAN Notices, 2011, 46, 129-141.	0.2	2
46	Self-adjusting Computation with Delta ML. Lecture Notes in Computer Science, 2009, , 1-38.	1.3	2
47	Self-adjusting stack machines. ACM SIGPLAN Notices, 2011, 46, 753-772.	0.2	1
48	Functional programming for dynamic and large data with self-adjusting computation. ACM SIGPLAN Notices, 2014, 49, 227-240.	0.2	1
49	Responsive parallel computation: bridging competitive and cooperative threading. ACM SIGPLAN Notices, 2017, 52, 677-692.	0.2	0