

# Carlos Baquero

## List of Publications by Year in descending order

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Version: 2024-02-01

78  
papers

1,329  
citations

623188

14  
h-index

414034

32  
g-index

82  
all docs

82  
docs citations

82  
times ranked

816  
citing authors

#	ARTICLE	IF	CITATIONS
1	The dynamics of remembering and forgetting. Communications of the ACM, 2022, 65, 12-13.	3.3	0
2	Estimating the COVID-19 Prevalence in Spain With Indirect Reporting via Open Surveys. Frontiers in Public Health, 2021, 9, 658544.	1.3	6
3	Seeking out Camille, and being open to others. Communications of the ACM, 2021, 64, 14-15.	3.3	1
4	State-machine replication for planet-scale systems. , 2020, , .		20
5	Higher-Order Patterns in Replicated Data Types. , 2019, , .		5
6	Efficient Synchronization of State-Based CRDTs. , 2019, , .		17
7	Scalable eventually consistent counters over unreliable networks. Distributed Computing, 2019, 32, 69-89.	0.7	0
8	Conflict-Free Replicated Data Types CRDTs. , 2019, , 491-500.		6
9	Conflict-Free Replicated Data Types CRDTs. , 2018, , 1-10.		30
10	Delta state replicated data types. Journal of Parallel and Distributed Computing, 2018, 111, 162-173.	2.7	40
11	As Secure as Possible Eventual Consistency. , 2017, , .		4
12	Fault-tolerant aggregation: Flow-Updating meets Mass-Distribution. Distributed Computing, 2017, 30, 281-291.	0.7	4
13	Borrowing an Identity for a Distributed Counter. , 2017, , .		0
14	Multi-view data types for scalable concurrency in the multi-core era. , 2017, , .		0
15	The Single-Writer Principle in CRDT Composition. , 2017, , .		2
16	Aggregation protocols in light of reliable communication. , 2017, , .		0
17	DottedDB: Anti-Entropy without Merkle Trees, Deletes without Tombstones. , 2017, , .		4
18	Practical evaluation of the Lasp programming model at large scale. , 2017, , .		6

#	ARTICLE	IF	CITATIONS
19	Compact Resettable Counters through Causal Stability. , 2017, , .		2
20	Transparent cross-system consistency. , 2017, , .		2
21	Quality-Aware Reactive Programming for the Internet of Things. Lecture Notes in Computer Science, 2017, , 180-195.	1.0	4
22	A lack of $\beta$ -adrenergic receptor-mediated antidepressant-like effects of S-(+)-niguldipine and B8805-033 in the forced swim test. Behavioural Pharmacology, 2016, 27, 397-401.	0.8	1
23	Eventually consistent register revisited. , 2016, , .		7
24	Life Beyond Distributed Transactions on the Edge. , 2016, , .		0
25	Integration Challenges of Pure Operation-based CRDTs in Redis. , 2016, , .		1
26	Join Decompositions for Efficient Synchronization of CRDTs after a Network Partition. , 2016, , .		3
27	The problem with embedded CRDT counters and a solution. , 2016, , .		10
28	Why logical clocks are easy. Communications of the ACM, 2016, 59, 43-47.	3.3	9
29	Why Logical Clocks are Easy. Queue, 2016, 14, 53-69.	0.8	1
30	Adaptive Broadcast Cancellation Query Mechanism for Unstructured Networks. , 2015, , .		0
31	Exactly-Once Quantity Transfer. , 2015, , .		2
32	Flow updating: Fault-tolerant aggregation for dynamic networks. Journal of Parallel and Distributed Computing, 2015, 78, 53-64.	2.7	17
33	A Survey of Distributed Data Aggregation Algorithms. IEEE Communications Surveys and Tutorials, 2015, 17, 381-404.	24.8	106
34	Concise Server-Wide Causality Management for Eventually Consistent Data Stores. Lecture Notes in Computer Science, 2015, , 66-79.	1.0	3
35	Efficient State-Based CRDTs by Delta-Mutation. Lecture Notes in Computer Science, 2015, , 62-76.	1.0	26
36	Link Community Detection Using Generative Model and Nonnegative Matrix Factorization. PLoS ONE, 2014, 9, e86899.	1.1	26

#	ARTICLE	IF	CITATIONS
37	Making operation-based CRDTs operation-based. , 2014, , .		15
38	SwiftCloud: Fault-Tolerant Geo-Replication Integrated all the Way to the Client Machine. , 2014, , .		21
39	Efficient state-based CRDTs by decomposition. , 2014, , .		3
40	Making Operation-Based CRDTs Operation-Based. Lecture Notes in Computer Science, 2014, , 126-140.	1.0	20
41	Scalable and Accurate Causality Tracking for Eventually Consistent Stores. Lecture Notes in Computer Science, 2014, , 67-81.	1.0	14
42	Collaborative and Privacy-Aware Sensing for Observing Urban Movement Patterns. Lecture Notes in Computer Science, 2014, , 51-65.	1.0	0
43	Extending a configuration model to find communities in complex networks. Journal of Statistical Mechanics: Theory and Experiment, 2013, 2013, P09013.	0.9	9
44	Broadcast cancellation in search mechanisms. , 2013, , .		8
45	Genetic Algorithm with a Local Search Strategy for Discovering Communities in Complex Networks. International Journal of Computational Intelligence Systems, 2013, 6, 354.	1.6	27
46	Fast distributed estimation of empirical mass functions over anonymous networks. , 2013, , .		2
47	Topic 8: Distributed Systems and Algorithms. Lecture Notes in Computer Science, 2013, , 367-368.	1.0	1
48	Extrema Propagation: Fast Distributed Estimation of Sums and Network Sizes. IEEE Transactions on Parallel and Distributed Systems, 2012, 23, 668-675.	4.0	42
49	Fast distributed computation of distances in networks. , 2012, , .		13
50	Spectra: Robust Estimation of Distribution Functions in Networks. Lecture Notes in Computer Science, 2012, , 96-103.	1.0	4
51	Stopping ongoing broadcasts in large MANETs. , 2012, , .		1
52	Brief Announcement: Semantics of Eventually Consistent Replicated Sets. Lecture Notes in Computer Science, 2012, , 441-442.	1.0	13
53	Conflict-Free Replicated Data Types. Lecture Notes in Computer Science, 2011, , 386-400.	1.0	317
54	A Markov random walk under constraint for discovering overlapping communities in complex networks. Journal of Statistical Mechanics: Theory and Experiment, 2011, 2011, P05031.	0.9	56

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55	Ant Colony Optimization with Markov Random Walk for Community Detection in Graphs. Lecture Notes in Computer Science, 2011, , 123-134.	1.0	8
56	Logic Training through Algorithmic Problem Solving. Lecture Notes in Computer Science, 2011, , 62-69.	1.0	9
57	Privacy Preserving Gate Counting with Collaborative Bluetooth Scanners. Lecture Notes in Computer Science, 2011, , 534-543.	1.0	3
58	Fault-Tolerant Aggregation: Flow-Updating Meets Mass-Distribution. Lecture Notes in Computer Science, 2011, , 513-527.	1.0	8
59	Fault-Tolerant Aggregation for Dynamic Networks. , 2010, , .		16
60	Genetic Algorithm with Local Search for Community Mining in Complex Networks. , 2010, , .		46
61	Probabilistic Estimation of Network Size and Diameter. , 2009, , .		17
62	Fast Estimation of Aggregates in Unstructured Networks. , 2009, , .		19
63	Search Optimizations in Structured Peer-to-Peer Systems. , 2009, , .		1
64	Fault-Tolerant Aggregation by Flow Updating. Lecture Notes in Computer Science, 2009, , 73-86.	1.0	16
65	Forby: Providing Groupware Features Relying on Distributed File System Event Dissemination. Lecture Notes in Computer Science, 2009, , 158-173.	1.0	1
66	Interval Tree Clocks. Lecture Notes in Computer Science, 2008, , 259-274.	1.0	33
67	Scalable Bloom Filters. Information Processing Letters, 2007, 101, 255-261.	0.4	158
68	Implementing Range Queries with a Decentralized Balanced Tree over Distributed Hash Tables. , 2007, , 197-206.		6
69	Improving on Version Stamps. , 2007, , 1025-1031.		1
70	Bounded Version Vectors. Lecture Notes in Computer Science, 2004, , 102-116.	1.0	15
71	Towards peer-to-peer content indexing. Operating Systems Review (ACM), 2003, 37, 90-96.	1.5	3
72	Panasync. , 2000, , .		4

#	ARTICLE	IF	CITATIONS
73	Mobile Transaction Management in Mobisnap. Lecture Notes in Computer Science, 2000, , 379-386.	1.0	11
74	Using structural characteristics for autonomous operation. Operating Systems Review (ACM), 1999, 33, 90-96.	1.5	10
75	3rd Workshop on Mobility and Replication. Lecture Notes in Computer Science, 1998, , 307-308.	1.0	0
76	Improving causality logging in mobile computing networks. Mobile Computing and Communications Review, 1998, 2, 62-66.	1.7	3
77	Concurrency annotations in C++. ACM SIGPLAN Notices, 1994, 29, 61-67.	0.2	5
78	Worlds of Events: Deduction with Partial Knowledge about Causality. Electronic Proceedings in Theoretical Computer Science, EPTCS, 0, 223, 113-127.	0.8	0