

# Srikanta Tirthapura

## List of Publications by Year in descending order

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77  
papers

1,475  
citations

516215

16  
h-index

552369

26  
g-index

77  
all docs

77  
docs citations

77  
times ranked

797  
citing authors

#	ARTICLE	IF	CITATIONS
1	Stratified random sampling from streaming and stored data. Distributed and Parallel Databases, 2021, 39, 665-710.	1.0	21
2	Mining Largest Maximal Quasi-Cliques. ACM Transactions on Knowledge Discovery From Data, 2021, 15, 1-21.	2.5	9
3	Fast Streaming k-Means Clustering with Coreset Caching. IEEE Transactions on Knowledge and Data Engineering, 2020, , 1-1.	4.0	4
4	Shared-memory Parallel Maximal Clique Enumeration from Static and Dynamic Graphs. ACM Transactions on Parallel Computing, 2020, 7, 1-28.	1.2	17
5	Weighted Reservoir Sampling from Distributed Streams. , 2019, , .		5
6	Incremental maintenance of maximal cliques in a dynamic graph. VLDB Journal, 2019, 28, 351-375.	2.7	21
7	Shared-Memory Parallel Maximal Biclique Enumeration. , 2019, , .		9
8	FLEET. , 2019, , .		15
9	Parallel Streaming Random Sampling. Lecture Notes in Computer Science, 2019, , 451-465.	1.0	3
10	Incremental Maintenance of Maximal Bicliques in a Dynamic Bipartite Graph. IEEE Transactions on Multi-Scale Computing Systems, 2018, 4, 231-242.	2.5	14
11	Work-efficient parallel union-find. Concurrency Computation Practice and Experience, 2018, 30, e4333.	1.4	6
12	Learning Graphical Models from a Distributed Stream. , 2018, , .		2
13	Enumerating Top-k Quasi-Cliques. , 2018, , .		18
14	V2V: Vector Embedding of a Graph and Applications. , 2018, , .		0
15	Stream Sampling. , 2018, , 3782-3787.		0
16	HYDRA. Proceedings of the VLDB Endowment, 2018, 11, 1974-1977.	2.1	4
17	Enumerating Maximal Bicliques from a Large Graph Using MapReduce. IEEE Transactions on Services Computing, 2017, 10, 771-784.	3.2	31
18	Detecting Insider Threats Using RADISH: A System for Real-Time Anomaly Detection in Heterogeneous Data Streams. IEEE Systems Journal, 2017, 11, 471-482.	2.9	58

#	ARTICLE	IF	CITATIONS
19	Identifying correlated heavy-hitters in a two-dimensional data stream. Data Mining and Knowledge Discovery, 2016, 30, 797-818.	2.4	10
20	A Simple Message-Optimal Algorithm for Random Sampling from a Distributed Stream. IEEE Transactions on Knowledge and Data Engineering, 2016, 28, 1356-1368.	4.0	11
21	Space-Efficient Estimation of Statistics Over Sub-Sampled Streams. Algorithmica, 2016, 74, 787-811.	1.0	8
22	Stream Sampling. , 2016, , 1-6.		0
23	Estimating quantiles from the union of historical and streaming data. Proceedings of the VLDB Endowment, 2016, 10, 433-444.	2.1	2
24	Mining maximal cliques from a large graph using MapReduce: Tackling highly uneven subproblem sizes. Journal of Parallel and Distributed Computing, 2015, 79-80, 104-114.	2.7	24
25	A General Method for Estimating Correlated Aggregates Over a Data Stream. Algorithmica, 2015, 73, 235-260.	1.0	2
26	Mining maximal cliques from an uncertain graph. , 2015, , .		31
27	Parallel streaming frequency-based aggregates. , 2014, , .		9
28	Space-efficient tracking of persistent items in a massive data stream. Statistical Analysis and Data Mining, 2014, 7, 70-92.	1.4	8
29	EvoMiner: frequent subtree mining in phylogenetic databases. Knowledge and Information Systems, 2014, 41, 559-590.	2.1	13
30	Sparse Covers for Planar Graphs and Graphs that Exclude a Fixed Minor. Algorithmica, 2014, 69, 658-684.	1.0	4
31	Dense subgraph maintenance under streaming edge weight updates for real-time story identification. VLDB Journal, 2014, 23, 175-199.	2.7	39
32	Enumerating Maximal Bicliques from a Large Graph Using MapReduce. , 2014, , .		8
33	Monitoring persistent items in the union of distributed streams. Journal of Parallel and Distributed Computing, 2014, 74, 3115-3127.	2.7	13
34	Optimality of Clustering Properties of Space-Filling Curves. ACM Transactions on Database Systems, 2014, 39, 1-27.	1.5	14
35	Parallel triangle counting in massive streaming graphs. , 2013, , .		48
36	Counting and sampling triangles from a graph stream. Proceedings of the VLDB Endowment, 2013, 6, 1870-1881.	2.1	119

#	ARTICLE	IF	CITATIONS
37	Rectangle-efficient aggregation in spatial data streams. , 2012, , .		7
38	On the optimality of clustering properties of space filling curves. , 2012, , .		14
39	Space-efficient estimation of statistics over sub-sampled streams. , 2012, , .		6
40	A General Method for Estimating Correlated Aggregates over a Data Stream. , 2012, , .		14
41	Approximate covering detection among content-based subscriptions using space filling curves. Journal of Parallel and Distributed Computing, 2012, 72, 1591-1602.	2.7	11
42	Computational characterization of bulk heterojunction nanomorphology. Journal of Applied Physics, 2012, 112, .	1.1	22
43	A Lower Bound on Proximity Preservation by Space Filling Curves. , 2012, , .		6
44	A graph-based formulation for computational characterization of bulk heterojunction morphology. Organic Electronics, 2012, 13, 1105-1113.	1.4	63
45	Space-efficient tracking of persistent items in a massive data stream. , 2011, , .		12
46	Optimal Random Sampling from Distributed Streams Revisited. Lecture Notes in Computer Science, 2011, , 283-297.	1.0	18
47	Identifying frequent items in a network using gossip. Journal of Parallel and Distributed Computing, 2010, 70, 1241-1253.	2.7	18
48	Concurrent counting is harder than queuing. Theoretical Computer Science, 2010, 411, 3823-3833.	0.5	2
49	Delay, cost and infrastructure tradeoff of epidemic routing in mobile sensor networks. , 2010, , .		4
50	Time-decaying Sketches for Robust Aggregation of Sensor Data. SIAM Journal on Computing, 2010, 39, 1309-1339.	0.8	16
51	Time-Decayed Correlated Aggregates over Data Streams. , 2009, , .		3
52	Finding correlated heavy-hitters over data streams. , 2009, , .		7
53	Time-decayed correlated aggregates over data streams. Statistical Analysis and Data Mining, 2009, 2, 294-310.	1.4	6
54	Wireless sensor deployment for 3D coverage with constraints. , 2009, , .		23

#	ARTICLE	IF	CITATIONS
55	Stream Sampling. , 2009, , 2838-2842.		3
56	Sketching asynchronous data streams over sliding windows. Distributed Computing, 2008, 20, 359-374.	0.7	22
57	Time-decaying aggregates in out-of-order streams. , 2008, , .		37
58	Exponentially Decayed Aggregates on Data Streams. , 2008, , .		39
59	Computing Frequent Elements Using Gossip. Lecture Notes in Computer Science, 2008, , 119-130.	1.0	6
60	Time-decaying sketches for sensor data aggregation. , 2007, , .		29
61	Improved sparse covers for graphs excluding a fixed minor. , 2007, , .		14
62	Range-efficient Counting of Distinct Elements in a Massive Data Stream. SIAM Journal on Computing, 2007, 37, 359-379.	0.8	30
63	A Deterministic Algorithm for Summarizing Asynchronous Streams over a Sliding Window. , 2007, , 465-476.		17
64	Randomized smoothing networks. Journal of Parallel and Distributed Computing, 2006, 66, 626-632.	2.7	10
65	Self-stabilizing smoothing and balancing networks. Distributed Computing, 2006, 18, 345-357.	0.7	14
66	Dynamic Analysis of the Arrow Distributed Protocol. Theory of Computing Systems, 2006, 39, 875-901.	0.7	19
67	Sketching asynchronous streams over a sliding window. , 2006, , .		30
68	Analysis of Link Reversal Routing Algorithms. SIAM Journal on Computing, 2005, 35, 305-326.	0.8	20
69	Distributed Streams Algorithms for Sliding Windows. Theory of Computing Systems, 2004, 37, 457-478.	0.7	27
70	Distributed streams algorithms for sliding windows. , 2002, , .		88
71	Ordered Multicast and Distributed Swap. Operating Systems Review (ACM), 2001, 35, 85-96.	1.5	12
72	Estimating simple functions on the union of data streams. , 2001, , .		135

#	ARTICLE	IF	CITATIONS
73	Competitive concurrent distributed queuing. , 2001, , .		30
74	<title>Indexing based on edit-distance matching of shape graphs</title>. , 1998, , .		30
75	Randomized smoothing networks. , 0, , .		1
76	A Formal Analysis of Space Filling Curves for Parallel Domain Decomposition. , 0, , .		7
77	An Evaluation of Streaming Algorithms for Distinct Counting Over a Sliding Window. Frontiers in ICT, 0, 2, .	3.6	3