

CITATION REPORT

List of articles citing

The Space Complexity of Approximating the Frequency Moments

DOI: [10.1006/jcss.1997.1545](https://doi.org/10.1006/jcss.1997.1545)

Journal of Computer and System Sciences, 1999, 58, 137-147.

Source: <https://exaly.com/paper-pdf/30604856/citation-report.pdf>

Version: 2024-04-28

This report has been generated based on the citations recorded by exaly.com for the above article. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

#	Paper	IF	Citations
627	Testing that distributions are close.		50
626	On computing correlated aggregates over continual data streams. 2001,		100
625	On computing correlated aggregates over continual data streams. <i>SIGMOD Record</i> , 2001 , 30, 13-24	1.1	42
624	Sampling algorithms. 2001,		43
623	Streaming computation of combinatorial objects.		4
622	Dimension reduction in the ℓ_1 norm.		2
621	.		14
620	An information statistics approach to data stream and communication complexity.		25
619	Distributed streams algorithms for sliding windows. 2002,		59
618	Approximate counting of inversions in a data stream. 2002,		17
617	Similarity estimation techniques from rounding algorithms. 2002,		576
616	Fast, small-space algorithms for approximate histogram maintenance. 2002,		101
615	Mining data streams under block evolution. 2002 , 3, 1-10		74
614	An Approximate L1 -Difference Algorithm for Massive Data Streams. 2002 , 32, 131-151		64
613	Tracking Join and Self-Join Sizes in Limited Storage. <i>Journal of Computer and System Sciences</i> , 2002 , 64, 719-747	1	40
612	On finding common neighborhoods in massive graphs. 2003 , 299, 707-718		14
611	Better streaming algorithms for clustering problems. 2003,		90

610	Gossip-based computation of aggregate information.	481
609	.	18
608	Tight lower bounds for the distinct elements problem.	20
607	.	1
606	. 2003 , 15, 569-572	17
605	. 2003 , 15, 529-540	50
604	Efficient URL caching for world wide web crawling. 2003 ,	26
603	On-Line Discovery of Dense Areas in Spatio-temporal Databases. 2003 , 306-324	45
602	Loglog Counting of Large Cardinalities. 2003 , 605-617	106
601	Adaptive sampling for geometric problems over data streams. 2004 ,	15
600	Framework and algorithms for trend analysis in massive temporal data sets. 2004 ,	8
599	Efficient algorithms for constructing $(1+\epsilon)$ -spanners in the distributed and streaming models. 2004 ,	15
598	Image similarity search with compact data structures. 2004 ,	52
597	Characterizing memory requirements for queries over continuous data streams. 2004 , 29, 162-194	35
596	Spatially-decaying aggregation over a network. 2004 ,	11
595	A note on efficient aggregate queries in sensor networks. 2004 ,	18
594	Synopsis diffusion for robust aggregation in sensor networks. 2004 ,	265
593	Approximating the cut-norm via Grothendieck's inequality. 2004 ,	31

592	An information statistics approach to data stream and communication complexity. <i>Journal of Computer and System Sciences</i> , 2004 , 68, 702-732	1	245
591	Finding frequent items in data streams. 2004 , 312, 3-15		197
590	Approximate aggregation techniques for sensor databases.		199
589	On the streaming model augmented with a sorting primitive.		37
588	An improved data stream summary: the count-min sketch and its applications. 2005 , 55, 58-75		844
587	On graph problems in a semi-streaming model. 2005 , 348, 207-216		143
586	Computing Diameter in the Streaming and Sliding-Window Models. 2005 , 41, 25-41		26
585	Counting Distinct Items over Update Streams. 2005 , 505-514		10
584	Lower bounds for sorting with few random accesses to external memory. 2005 ,		22
583	On the impossibility of dimension reduction in l_1 . 2005 , 52, 766-788		54
582	Buffering in query evaluation over XML streams. 2005 ,		30
581	Space complexity of hierarchical heavy hitters in multi-dimensional data streams. 2005 ,		27
580	Advances in Computer Science - ASIAN 2004. Higher-Level Decision Making. 2005 ,		
579	Approximation, Randomization and Combinatorial Optimization. Algorithms and Techniques. 2005 ,		6
578	What's hot and what's not: tracking most frequent items dynamically. 2005 , 30, 249-278		155
577	Maintaining implicated statistics in constrained environments.		1
576	Range-efficient computation of F_0 over massive data streams.		11
575	A direct sum theorem for corruption and the multiparty NOF communication complexity of set disjointness.		9

574	Fractal Modeling of IP Network Traffic at Streaming Speeds. 2006,	
573	Approximating the Cut-Norm via Grothendieck's Inequality. 2006, 35, 787-803	95
572	Improved Approximation Algorithms for Large Matrices via Random Projections. 2006,	190
571	. 2006,	155
570	Finding longest increasing and common subsequences in streaming data. 2006, 11, 155-175	14
569	Efficient algorithms for constructing $(1+\epsilon)$ -spanners in the distributed and streaming models. 2006, 18, 375-385	42
568	. 2006, 52, 5406-5425	3865
567	The communication requirements of efficient allocations and supporting prices. 2006, 129, 192-224	133
566	Approximation and streaming algorithms for histogram construction problems. 2006, 31, 396-438	72
565	Randomized computations on large data sets. 2006,	14
564	Spatial scan statistics. 2006,	44
563	Sketching asynchronous streams over a sliding window. 2006,	23
562	High-throughput sketch update on a low-power stream processor. 2006,	8
561	Counting triangles in data streams. 2006,	116
560	Secure multiparty computation of approximations. 2006, 2, 435-472	61
559	A simpler and more efficient deterministic scheme for finding frequent items over sliding windows. 2006,	59
558	Maintaining stream statistics over multiscale sliding windows. 2006, 31, 1305-1334	5
557	Estimating statistical aggregates on probabilistic data streams. 2007,	51

556	Analysis of Data Streams: Computational and Algorithmic Challenges. 2007 , 49, 346-356	10
555	On synopses for distinct-value estimation under multiset operations. 2007 ,	89
554	Time-decaying sketches for sensor data aggregation. 2007 ,	12
553	Machine models and lower bounds for query processing. 2007 ,	11
552	Exponential separations for one-way quantum communication complexity, with applications to cryptography. 2007 ,	35
551	A Hybrid Algorithm for Accurate Stream Entropy Estimation. 2007 ,	0
550	Algorithmic Learning Theory. 2007 ,	
549	Range-Efficient Counting of Distinct Elements in a Massive Data Stream. 2007 , 37, 359-379	14
548	. 2007 ,	8
547	Strong Lower Bounds for Approximating Distribution Support Size and the Distinct Elements Problem. 2007 ,	4
546	Learning from Data Streams. 2007 ,	100
545	Sublinear Algorithms for Approximating String Compressibility. 2007 , 609-623	2
544	A note on efficient aggregate queries in sensor networks. 2007 , 370, 254-264	14
543	Counting distinct items over update streams. 2007 , 378, 211-222	19
542	Tight lower bounds for query processing on streaming and external memory data. 2007 , 380, 199-217	15
541	Query-monotonic Turing reductions. 2007 , 383, 153-186	
540	Sketching information divergences. 2008 , 72, 5-19	11
539	Algorithms for Data Streams. 241-269	1

538	Adaptive sampling for geometric problems over data streams. 2008 , 39, 191-208	7
537	Deterministic K-set structure. 2008 , 109, 27-31	1
536	Streaming algorithms for estimating entropy. 2008 ,	5
535	. 2008 ,	183
534	Sketching and Streaming Entropy via Approximation Theory. 2008 ,	37
533	On the Value of Multiple Read/Write Streams for Approximating Frequency Moments. 2008 ,	12
532	Sublinear Recovery of Sparse Wavelet Signals. 2008 ,	
531	Approximate Validity of XML Streaming Data. 2008 ,	
530	Link analysis for Web spam detection. 2008 , 2, 1-42	61
529	SAMPLING IN DYNAMIC DATA STREAMS AND APPLICATIONS. 2008 , 18, 3-28	18
528	Robust lower bounds for communication and stream computation. 2008 ,	24
527	Finding frequent items in probabilistic data. 2008 ,	106
526	Interdomain routing and games. 2008 ,	40
525	Estimating statistical aggregates on probabilistic data streams. 2008 , 33, 1-30	19
524	Synopsis diffusion for robust aggregation in sensor networks. 2008 , 4, 1-40	62
523	Estimating PageRank on graph streams. 2008 ,	34
522	Sketching in adversarial environments. 2008 ,	6
521	Recent results on processing random-order streams and space-efficient sampling. 2008 ,	1

520	Finding Heavy Hitters by Packet Count Flow Sampling. 2008 ,	1
519	. 2008 ,	7
518	Annotations in Data Streams. 2009 , 222-234	19
517	Optimal tracking of distributed heavy hitters and quantiles. 2009 ,	34
516	Weak Derandomization of Weak Algorithms: Explicit Versions of Yao's Lemma. 2009 ,	5
515	Experimental Evaluation of Duplicate Insensitive Counting Algorithms. 2009 ,	1
514	The Data Stream Space Complexity of Cascaded Norms. 2009 ,	20
513	APPROXIMATING SMALLEST ENCLOSING BALLS WITH APPLICATIONS TO MACHINE LEARNING. 2009 , 19, 389-414	30
512	Sublinear estimation of entropy and information distances. 2009 , 5, 1-16	8
511	Every microsecond counts. 2009 ,	40
510	Secure outsourced aggregation via one-way chains. 2009 ,	22
509	Trading off space for passes in graph streaming problems. 2009 , 6, 1-17	14
508	Lower bounds for processing data with few random accesses to external memory. 2009 , 56, 1-58	8
507	Numerical linear algebra in the streaming model. 2009 ,	77
506	Every microsecond counts. 2009 , 39, 255-266	13
505	Hierarchical Sampling from Sketches: Estimating Functions over Data Streams. 2009 , 53, 549-582	4
504	One-way multiparty communication lower bound for pointer jumping with applications. 2009 , 29, 719-743	6
503	A note on compressed sensing and the complexity of matrix multiplication. 2009 , 109, 468-471	10

502	Applying Approximate Counting for Computing the Frequency Moments of Long Data Streams. 2009 , 44, 332-348	1
501	Database Query Processing Using Finite Cursor Machines. 2009 , 44, 533-560	8
500	Two improved range-efficient algorithms for . 2009 , 410, 1073-1080	4
499	Multiple pass streaming algorithms for learning mixtures of distributions in . 2009 , 410, 1765-1780	
498	Encyclopedia of Database Systems. 2009 , 2599-2601	0
497	Encyclopedia of Database Systems. 2009 , 2695-2698	3
496	Encyclopedia of Database Systems. 2009 , 2659-2664	1
495	Encyclopedia of Database Systems. 2009 , 2873-2875	7
494	Finding the frequent items in streams of data. 2009 , 52, 97-105	145
493	A New Method for Estimating the Number of Distinct Values over Data Streams. 2009 ,	0
492	The Maximum Communication Complexity of Multi-Party Pointer Jumping. 2009 ,	3
491	On the Communication Complexity of Read-Once AC ⁰ Formulae. 2009 ,	5
490	. 2009 ,	11
489	Hardness of Learning Halfspaces with Noise. 2009 , 39, 742-765	12
488	Exponential Separation for One-Way Quantum Communication Complexity, with Applications to Cryptography. 2009 , 38, 1695-1708	35
487	Graph Distances in the Data-Stream Model. 2009 , 38, 1709-1727	51
486	Pass-Efficient Algorithms for Learning Mixtures of Uniform Distributions. 2009 , 39, 783-812	1
485	Strong Lower Bounds for Approximating Distribution Support Size and the Distinct Elements Problem. 2009 , 39, 813-842	39

484	Machine models for query processing. <i>SIGMOD Record</i> , 2009 , 38, 18-28	1.1	1
483	Approximation Algorithms for Combinatorial Auctions with Complement-Free Bidders. 2010 , 35, 1-13		37
482	Streaming Algorithms for Extent Problems in High Dimensions. 2010 ,		14
481	Methods for finding frequent items in data streams. 2010 , 19, 3-20		93
480	An online framework for catching top spreaders and scanners. 2010 , 54, 1375-1388		6
479	On the Exact Space Complexity of Sketching and Streaming Small Norms. 2010 ,		24
478	Information complexity. 2010 ,		3
477	Recognizing well-parenthesized expressions in the streaming model. 2010 ,		18
476	Zero-one frequency laws. 2010 ,		24
475	A near-optimal algorithm for estimating the entropy of a stream. 2010 , 6, 1-21		16
474	Approximate sparse recovery. 2010 ,		23
473	Fast Manhattan sketches in data streams. 2010 ,		15
472	A sparse Johnson. 2010 ,		37
471	Managing and Mining Graph Data. 2010 ,		207
470	Secure Distributed Data Aggregation. 2010 , 3, 149-201		5
469	Lower Bounds on Streaming Algorithms for Approximating the Length of the Longest Increasing Subsequence. 2010 , 39, 3463-3479		4
468	Effective Computations on Sliding Windows. 2010 , 39, 2113-2131		8
467	Adapting parallel algorithms to the W-Stream model, with applications to graph problems. 2010 , 411, 3994-4004		6

466	An optimal algorithm for the distinct elements problem. 2010 ,	112
465	Privacy-preserving data publishing. 2010 , 42, 1-53	867
464	A Survey on Streaming Algorithms for Massive Graphs. 2010 , 393-420	14
463	On Finding Similar Items in a Stream of Transactions. 2010 ,	4
462	Time-decaying Sketches for Robust Aggregation of Sensor Data. 2010 , 39, 1309-1339	11
461	. 2010 ,	1
460	Characteristic measurement of the connection degree for network monitoring. 2010 ,	
459	Explicit Dimension Reduction and Its Applications. 2011 ,	1
458	Space-efficient tracking of network-wide flow correlations. 2011 ,	
457	. 2011 ,	24
456	The Power of Linear Estimators. 2011 ,	31
455	HyperANF. 2011 ,	61
454	NETWORKING 2011 Workshops. 2011 ,	
453	Sketching in Adversarial Environments. 2011 , 40, 1845-1870	10
452	Wiki-Watchdog: Anomaly Detection in Wikipedia Through a Distributional Lens. 2011 ,	2
451	Methods for mining frequent items in data streams: an overview. 2011 , 26, 1-30	48
450	Weak Derandomization of Weak Algorithms: Explicit Versions of Yao's Lemma. 2011 , 20, 87-143	7
449	Polylog Space Compression, Pushdown Compression, and Lempel-Ziv Are Incomparable. 2011 , 48, 731-766	3

448	Online querying of d-dimensional hierarchies. 2011 , 71, 424-437	5
447	Streaming techniques and data aggregation in networks of tiny artefacts. 2011 , 5, 27-46	4
446	Stochastic convergence of random search methods to fixed size Pareto front approximations. 2011 , 213, 414-421	34
445	Partition arguments in multiparty communication complexity. 2011 , 412, 2611-2622	3
444	Best-order streaming model. 2011 , 412, 2544-2555	2
443	Fast moment estimation in data streams in optimal space. 2011 ,	27
442	Fine-grained latency and loss measurements in the presence of reordering. 2011 ,	15
441	Subspace embeddings for the L1-norm with applications. 2011 ,	8
440	Space-efficient tracking of persistent items in a massive data stream. 2011 ,	5
439	Efficient and secure threshold-based event validation for VANETs. 2011 ,	25
438	Finding heavy distinct hitters in data streams. 2011 ,	5
437	Estimating PageRank on graph streams. 2011 , 58, 1-19	39
436	Near-optimal private approximation protocols via a black box transformation. 2011 ,	1
435	Triangle listing in massive networks and its applications. 2011 ,	71
434	Beyond simple aggregates. 2011 ,	6
433	Secure and efficient in-network processing of exact SUM queries. 2011 ,	8
432	Estimating the unseen. 2011 ,	92
431	Verifying computations with streaming interactive proofs. <i>Proceedings of the VLDB Endowment</i> , 2011 , 5, 25-36	3.1 20

430	Optimal Bounds for Johnson-Lindenstrauss Transforms and Streaming Problems with Sub-Constant Error. 2011,		5
429	Streaming and fully dynamic centralized algorithms for constructing and maintaining sparse spanners. 2011, 7, 1-17		23
428	Algorithms for distributed functional monitoring. 2011, 7, 1-20		45
427	Fully decentralized computation of aggregates over data streams. 2011, 12, 83-91		
426	Rectangle-efficient aggregation in spatial data streams. 2012,		3
425	Validating XML documents in the streaming model with external memory. 2012,		3
424	Triangle listing in massive networks. 2012, 6, 1-32		46
423	Sketch-based querying of distributed sliding-window data streams. <i>Proceedings of the VLDB Endowment</i> , 2012, 5, 992-1003	3.1	37
422	Compressed matrix multiplication. 2012,		9
421	Multidimensional online tracking. 2012, 8, 1-16		6
420	The Value of Multiple Read/Write Streams for Approximating Frequency Moments. 2012, 3, 1-22		2
419	Space-efficient estimation of statistics over sub-sampled streams. 2012,		3
418	The Power of Simple Tabulation Hashing. 2012, 59, 1-50		23
417	Sketching and streaming algorithms for processing massive data. 2012, 19, 14-19		5
416	Approximate answers to OLAP queries on streaming data warehouses. 2012,		3
415	Graph sketches. 2012,		103
414	. 2012,		11
413	Applications of the Shannon-Hartley theorem to data streams and sparse recovery. 2012,		6

412	An Optimal Lower Bound on the Communication Complexity of Gap-Hamming-Distance. 2012 , 41, 1299-1317	36
411	Approximate Sparse Recovery: Optimizing Time and Measurements. 2012 , 41, 436-453	19
410	Tabulation-Based 5-Independent Hashing with Applications to Linear Probing and Second Moment Estimation. 2012 , 41, 293-331	32
409	Explicit Dimension Reduction and Its Applications. 2012 , 41, 219-249	13
408	Mergeable summaries. 2012 ,	43
407	. 2012 , 20, 811-824	7
406	Estimation of deduplication ratios in large data sets. 2012 ,	20
405	A near-linear time approximation algorithm for angle-based outlier detection in high-dimensional data. 2012 ,	58
404	Pseudorandomness. 2012 , 7, 1-336	118
403	A survey on learning from data streams: current and future trends. 2012 , 1, 45-55	82
402	Statistical estimation with bounded memory. 2012 , 22, 1155-1164	5
401	A Statistical Analysis of Probabilistic Counting Algorithms. 2012 , 39, 1-14	8
400	A note on randomized streaming space bounds for the longest increasing subsequence problem. 2012 , 112, 261-263	2
399	Estimating hybrid frequency moments of data streams. 2012 , 23, 373-394	1
398	Continuous Monitoring of Distributed Data Streams over a Time-Based Sliding Window. 2012 , 62, 1088-1111	15
397	Sublinear Algorithms for Approximating String Compressibility. 2013 , 65, 685-709	10
396	Optimal Tracking of Distributed Heavy Hitters and Quantiles. 2013 , 65, 206-223	28
395	Deutsch-indische Kooperation im Algorithm Engineering. 2013 , 36, 180-186	

394	Space-Efficient Data Structures, Streams, and Algorithms. 2013,	3
393	Compressed matrix multiplication. 2013, 5, 1-17	34
392	On the information complexity of cascaded norms with small domains. 2013,	1
391	Communication complexity and data compression. 2013,	
390	Automated signature extraction for high volume attacks. 2013,	4
389	How robust are linear sketches to adaptive inputs?. 2013,	10
388	Testing Closeness of Discrete Distributions. 2013, 60, 1-25	38
387	Streaming computations with a loquacious prover. 2013,	4
386	Communication steps for parallel query processing. 2013,	76
385	Optimal Bounds for Johnson-Lindenstrauss Transforms and Streaming Problems with Subconstant Error. 2013, 9, 1-17	19
384	Validating XML documents in the streaming model with external memory. 2013, 38, 1-36	2
383	. 2013, 59, 7711-7717	84
382	Mergeable summaries. 2013, 38, 1-28	67
381	Finding Heavy-Hitter by Periodically Deleting Small Flows. 2013,	1
380	Beating the Direct Sum Theorem in Communication Complexity with Implications for Sketching. 2013,	6
379	A cyber-physical algorithm for selecting a prevalent element from big data streams. 2014, 4,	
378	Correlation clustering in MapReduce. 2014,	23
377	On Sketching Matrix Norms and the Top Singular Vector. 2014,	9

376	Data stream mining in ubiquitous environments: state-of-the-art and current directions. 2014 , 4, 116-138	25
375	All-distances sketches, revisited. 2014 ,	23
374	Turnstile streaming algorithms might as well be linear sketches. 2014 ,	13
373	Efficient delegation protocols for data streams. 2014 ,	
372	On the power of the congested clique model. 2014 ,	84
371	Annotations in Data Streams. 2014 , 11, 1-30	7
370	Distance queries from sampled data. 2014 ,	1
369	Space-efficient tracking of persistent items in a massive data stream. 2014 , 7, 70-92	4
368	Indexing for summary queries. 2014 , 39, 1-39	6
367	An efficient FPRAS type group testing procedure to approximate the number of defectives. 2014 , 27, 302-314	7
366	Optimal Collapsing Protocol for Multiparty Pointer Jumping. 2014 , 54, 13-23	1
365	Tradeoff lower bounds for stack machines. 2014 , 23, 99-146	
364	A Pseudorandom Generator for Polynomial Threshold Functions of Gaussian with Subpolynomial Seed Length. 2014 ,	5
363	Overlays and Limited Memory Communication. 2014 ,	7
362	On the Organization of Cluster Voting with Massive Distributed Streams. 2014 ,	0
361	Communication-Efficient Distributed Variance Monitoring and Outlier Detection for Multivariate Time Series. 2014 ,	18
360	Beyond set disjointness. 2014 ,	11
359	. 2014 , 22, 1136-1149	1

358	Indexing Word Sequences for Ranked Retrieval. 2014 , 32, 1-26	8
357	Real-time detection of changes in network with OpenFlow based on NetFPGA implementation. 2014 , 38, 431-442	6
356	A new connection degree calculation and measurement method for large scale network monitoring. 2014 , 41, 15-26	10
355	How to catch L2-heavy-hitters on sliding windows. 2014 , 554, 82-94	6
354	Recognizing Well-Parentesized Expressions in the Streaming Model. 2014 , 43, 1880-1905	2
353	Catching the Head, Tail, and Everything in Between: A Streaming Algorithm for the Degree Distribution. 2015 ,	7
352	. 2015 ,	
351	Parameterized Streaming: Maximal Matching and Vertex Cover. 2015 ,	12
350	Empirical risk minimization for heavy-tailed losses. 2015 , 43,	27
349	Multi-objective Weighted Sampling. 2015 ,	5
348	A contact detection algorithm for multi-sphere particles by means of two-level-grid-searching in DEM simulations. 2015 , 102, 1869-1893	14
347	Boosting distinct random sampling for basic counting on the union of distributed streams. 2015 , 602, 60-79	
346	. 2015 ,	1
345	A General Method for Estimating Correlated Aggregates Over a Data Stream. 2015 , 73, 235-260	0
344	Fingerprints for highly similar streams. 2015 , 244, 113-121	8
343	Possibilistic Very Fast Decision Tree for Uncertain Data Streams. 2015 , 195-207	
342	Sketching distributed sliding-window data streams. 2015 , 24, 345-368	17
341	All-Distances Sketches, Revisited: HIP Estimators for Massive Graphs Analysis. 2015 , 27, 2320-2334	13

340	Time Lower Bounds for Nonadaptive Turnstile Streaming Algorithms. 2015,	3
339	Communication-Efficient Computation on Distributed Noisy Datasets. 2015,	6
338	On Information Complexity in the Broadcast Model. 2015,	8
337	Persistent Data Sketching. 2015,	21
336	Competitive analysis of maintaining frequent items of a stream. 2015, 562, 23-32	11
335	Streaming Algorithms for Extent Problems in High Dimensions. 2015, 72, 83-98	8
334	The NOF Multiparty Communication Complexity of Composed Functions. 2015, 24, 645-694	2
333	Clustering Problems on Sliding Windows. 2016,	9
332	Encyclopedia of Algorithms. 2016, 1203-1206	
331	Algorithmic Aspects in Information and Management. 2016,	
330	Beating CountSketch for heavy hitters in insertion streams. 2016,	12
329	Traffic features extraction and clustering analysis for abnormal behavior detection. 2016,	2
328	Answering ad-hoc continuous aggregate queries over data streams using Dynamic Prefix Aggregate Tree. 2016, 20, 1351-1384	1
327	Encyclopedia of Algorithms. 2016, 1183-1185	
326	Encyclopedia of Algorithms. 2016, 1369-1372	
325	On approximating functions of the singular values in a stream. 2016,	4
324	Graph Stream Summarization. 2016,	32
323	Data Stream Management. 2016,	51

322	Challenges in Crawling the Deep Web. 2016 , 113-136	
321	Top-(k) Frequent Item Maintenance over Streams. 2016 , 103-119	
320	Distinct-Values Estimation over Data Streams. 2016 , 121-147	2
319	Lower Bounds for Number-in-Hand Multiparty Communication Complexity, Made Easy. 2016 , 45, 174-196	3
318	Encyclopedia of Algorithms. 2016 , 1282-1287	2
317	Streaming Algorithms for Robust Distinct Elements. 2016 ,	2
316	Encyclopedia of Algorithms. 2016 , 1260-1264	
315	. 2016 ,	4
314	Space-Efficient Approximations for Subset Sum. 2016 , 8, 1-28	2
313	Encyclopedia of Algorithms. 2016 , 1287-1291	
312	Robust estimation of U-statistics. 2016 , 126, 3760-3773	9
311	Communication Complexity (for Algorithm Designers). 2016 , 11, 217-404	5
310	Fast Constructions of Lightweight Spanners for General Graphs. 2016 , 12, 1-21	5
309	Encyclopedia of Algorithms. 2016 , 1346-1349	
308	Quantiles over data streams: experimental comparisons, new analyses, and further improvements. 2016 , 25, 449-472	22
307	Tracking frequent items over distributed probabilistic data. 2016 , 19, 579-604	15
306	Space-Efficient Estimation of Statistics Over Sub-Sampled Streams. 2016 , 74, 787-811	4
305	Random projections for Bayesian regression. 2017 , 27, 79-101	12

304	Efficient quantum communications with coherent state fingerprints over multiple channels. 2017 , 95,	14
303	Communication Steps for Parallel Query Processing. 2017 , 64, 1-58	27
302	Streaming symmetric norms via measure concentration. 2017 ,	4
301	StreamQRE: modular specification and efficient evaluation of quantitative queries over streaming data. 2017 ,	17
300	Improved Algorithms for Distributed Entropy Monitoring. 2017 , 78, 1041-1066	1
299	Compressed and Quantized Correlation Estimators. 2017 , 65, 56-68	6
298	Efficiently handling boundary frequent elements in stream data. 2017 ,	
297	High frequency moments via max-stability. 2017 ,	2
296	BPTree. 2017 ,	9
295	Stream Aggregation Through Order Sampling. 2017 ,	2
294	On the estimation of the mean of a random vector. 2017 , 11,	10
293	A Rounds vs. Communication Tradeoff for Multi-Party Set Disjointness. 2017 ,	2
292	. 2017 ,	9
291	ntCard: a streaming algorithm for cardinality estimation in genomics data. 2017 , 33, 1324-1330	18
290	Language and Automata Theory and Applications. 2018 ,	
289	Detecting heavy flows in the SDN match and action model. 2018 , 136, 1-12	37
288	Randomized OBDD-based graph algorithms. 2018 , 751, 24-45	
287	Sublinear-Time Algorithms for Counting Star Subgraphs via Edge Sampling. 2018 , 80, 668-697	7

286 Know when to persist: Deriving value from a stream buffer. **2018**, 717, 47-61

285 $\text{Sample}(x)=(a*x$. **2018**, 47, 2510-2526

284 Sketch Based Reduced Memory Hough Transform. **2018**,

283 Faster Space-Efficient Algorithms for Subset Sum, $\$k\$$ -Sum, and Related Problems. **2018**, 47, 1755-1777 2

282 Estimating Edge-Local Triangle Count Heavy Hitters in Edge-Linear Time and Almost-Vertex-Linear Space. **2018**, 1

281 Dynamic Count-Min Sketch for Analytical Queries Over Continuous Data Streams. **2018**, 0

280 Models of Computation for Big Data. **2018**,

279 Shuffles and Circuits (On Lower Bounds for Modern Parallel Computation). **2018**, 65, 1-24 9

278 Stream Sampling Framework and Application for Frequency Cap Statistics. **2018**, 14, 1-40 0

277 Streaming Communication Protocols. **2018**, 10, 1-21 1

276 Distinct Sampling on Streaming Data with Near-Duplicates. **2018**, 2

275 Distributed Statistical Estimation of Matrix Products with Applications. **2018**, 3

274 Social Network Based Big Data Analysis and Applications. **2018**, 3

273 . **2018**, 67, 6615-6626 3

272 Lower Bounds for Testing Digraph Connectivity with One-Pass Streaming Algorithms. **2018**, 1, 9-11

271 Dynamic Pattern Detection for Big Data Stream Analytics. **2018**, 183-200

270 Data Sketches for Disaggregated Subset Sum and Frequent Item Estimation. **2018**, 16

269 A Distributed Algorithm to Calculate Max-Min Fair Rates Without Per-Flow State. **2019**, 3, 1-42 5

268	Near-optimal mean estimators with respect to general norms. 2019 , 175, 957-973	6
267	Mean Estimation and Regression Under Heavy-Tailed Distributions: A Survey. 2019 , 19, 1145-1190	18
266	Tracking Influential Nodes in Time-Decaying Dynamic Interaction Networks. 2019 ,	6
265	Structural Information and Communication Complexity. 2019 ,	
264	The breakdown point of the median of means tournament. 2019 , 153, 108-112	3
263	Streaming Pattern Matching with d Wildcards. 2019 , 81, 1988-2015	1
262	Bursty Event Detection Throughout Histories. 2019 ,	2
261	Memory-sample tradeoffs for linear regression with small error. 2019 ,	0
260	Adversarial and Uncertain Reasoning for Adaptive Cyber Defense. 2019 ,	2
259	On Data Summarization for Machine Learning in Multi-organization Federations. 2019 ,	1
258	Approximate Distinct Counts for Billions of Datasets. 2019 ,	13
257	MR-Cubes: On-the-Fly Computation of Location Popularity from Check-in Data Streams. 2019 ,	1
256	Data integrity management for detection of redundancy and recurrence patterns in cloud. 2019 , 1	1
255	Distributed and Streaming Linear Programming in Low Dimensions. 2019 ,	2
254	A Probabilistic Counting Framework for Distributed Measurements. 2019 , 7, 22644-22659	1
253	An optimal (1, ϵ)-randomized approximation scheme for the mean of random variables with bounded relative variance. 2019 , 55, 356-370	2
252	Zero-Day Signature Extraction for High-Volume Attacks. 2019 , 27, 691-706	9
251	Learning from MOM ϵ principles: Le Cam ϵ approach. 2019 , 129, 4385-4410	2

250	Sketching and Sublinear Data Structures in Genomics. 2019 , 2, 93-118	21
249	L _p Samplers and Their Applications. 2019 , 52, 1-31	2
248	InstaMeasure: Instant Per-flow Detection Using Large In-DRAM Working Set of Active Flows. 2019 ,	2
247	Sublinear Time Estimation of Degree Distribution Moments: The Arboricity Connection. 2019 , 33, 2267-2285	1
246	Verifiable Stream Computation and Arthur--Merlin Communication. 2019 , 48, 1265-1299	
245	Tight Trade-offs for the Maximum k-Coverage Problem in the General Streaming Model. 2019 ,	1
244	On Approximating Matrix Norms in Data Streams. 2019 , 48, 1643-1697	0
243	Sub-Gaussian estimators of the mean of a random vector. 2019 , 47,	21
242	Similarity Join and Similarity Self-Join Size Estimation in a Streaming Environment. 2020 , 32, 768-781	4
241	CAPEST: Offloading Network Capacity and Available Bandwidth Estimation to Programmable Data Planes. 2020 , 17, 175-189	6
240	Robust statistical learning with Lipschitz and convex loss functions. 2020 , 176, 897-940	4
239	Optimal Variable Selection and Adaptive Noisy Compressed Sensing. 2020 , 66, 2517-2532	2
238	Detecting DDoS Attack on SDN Due to Vulnerabilities in OpenFlow. 2020 ,	6
237	Randomized numerical linear algebra: Foundations and algorithms. 2020 , 29, 403-572	17
236	Gradient-based adaptive modeling for IoT data transmission reduction. 2020 , 26, 6175-6188	3
235	An Econometric Perspective on Algorithmic Subsampling. 2020 , 12, 45-80	1
234	Communication complexity of approximate maximum matching in the message-passing model. 2020 , 33, 515-531	0
233	Sketching algorithms for genomic data analysis and querying in a secure enclave. 2020 , 17, 295-301	11

- 232 Challenges in benchmarking stream learning algorithms with real-world data. **2020**, 34, 1805-1858 15
- 231 Median-of-means approach for repeated measures data. **2020**, 1-10 1
- 230 Preface. **2020**, xi-xii
- 229 Introduction. **2020**, 1-6
- 228 Deterministic Protocols. **2020**, 9-32
- 227 Rank. **2020**, 33-45
- 226 Randomized Protocols. **2020**, 46-56
- 225 Numbers on Foreheads. **2020**, 57-66
- 224 Discrepancy. **2020**, 67-92
- 223 Information. **2020**, 93-120
- 222 Compressing Communication. **2020**, 121-143
- 221 Lifting. **2020**, 144-154
- 220 Circuits and Proofs. **2020**, 157-174
- 219 Memory Size. **2020**, 175-186
- 218 Data Structures. **2020**, 187-209
- 217 Extension Complexity of Polytopes. **2020**, 210-238
- 216 Distributed Computing. **2020**, 239-243
- 215 Bibliography. **2020**, 244-249

214 Index. **2020**, 250-252

213 To Petabytes and beyond: recent advances in probabilistic and signal processing algorithms and their application to metagenomics. **2020**, 48, 5217-5234 4

212 Faster Update Time for Turnstile Streaming Algorithms. **2020**, 1803-1813

211 Robust classification via MOM minimization. **2020**, 109, 1635-1665 4

210 Derandomization for Sliding Window Algorithms with Strict Correctness*. **2021**, 65, 1-18 4

209 Why Be Random?. **2021**, 130, 111-139 2

208 . **2021**, 9, 87094-87155 12

207 A High-Throughput Hardware Accelerator for Network Entropy Estimation Using Sketches. **2021**, 9, 85823-85838

206 Concentration of the Collision Estimator. **2021**, 440-456

205 . **2021**, 1-1 0

204 Paradigms for Effective Parallelization of Inherently Sequential Graph Algorithms on Multi-Core Architectures. **2021**, 74-95

203 Robust Estimation and Tests for Parameters of Some Nonlinear Regression Models. **2021**, 9, 599 0

202 A Distance-Based Scheme for Reducing Bandwidth in Distributed Geometric Monitoring. **2021**, 0

201 Memory-Efficient Key/Foreign-Key Join Size Estimation via Multiplicity and Intersection Size. **2021**, 0

200 A Framework for Adversarially Robust Streaming Algorithms. *SIGMOD Record*, **2021**, 50, 6-13 1.1 1

199 Estimating the Size of Union of Sets in Streaming Models. **2021**, 0

198 Clan embeddings into trees, and low treewidth graphs. **2021**, 0

197 Model Counting meets F₀ Estimation. **2021**, 0

196	Weighted Distinct Sampling: Cardinality Estimation for SPJ Queries. 2021 ,	2
195	A faster algorithm for solving general LPs. 2021 ,	3
194	Information theoretic limits of cardinality estimation: Fisher meets Shannon. 2021 ,	2
193	Data-Independent Space Partitionings for Summaries. 2021 ,	0
192	A robust estimator of the S-Gini index for massive data. 1-18	
191	The communication complexity of multiparty set disjointness under product distributions. 2021 ,	
190	Subspace exploration: Bounds on Projected Frequency Estimation. 2021 , 2021, 273-284	
189	A Survey of On-Device Machine Learning. 2021 , 2, 1-49	10
188	Frameworks for designing in-place graph algorithms. <i>Journal of Computer and System Sciences</i> , 2021 , 123, 1-1	1
187	Interactive Graph Stream Analytics in Arkouda. 2021 , 14, 221	0
186	Robust k-means clustering for distributions with two moments. 2021 , 49,	0
185	Data Stream Summary in Big Data Context: Challenges and Opportunities. 2021 , 6, 414-430	0
184	Data-induced predicates for sideways information passing in query optimizers. 1	
183	Approximate Set Union via Approximate Randomization. 2021 ,	
182	Tight Lower Bounds for Query Processing on Streaming and External Memory Data. 2005 , 1076-1088	12
181	The Complexity of Querying External Memory and Streaming Data. 2005 , 1-16	5
180	Finding Graph Matchings in Data Streams. 2005 , 170-181	59
179	Practical Algorithms for Tracking Database Join Sizes. 2005 , 297-309	9

178	The Ubiquitous Digital Tree. 2006 , 1-22	2
177	Finding Frequent Items in Data Streams. 2002 , 693-703	267
176	The Communication Complexity of Approximate Set Packing and Covering. 2002 , 868-875	18
175	Counting Distinct Elements in a Data Stream. 2002 , 1-10	107
174	Data Stream Processing. 2007 , 25-39	19
173	Encyclopedia of Database Systems. 2009 , 1948-1949	5
172	Encyclopedia of Database Systems. 2009 , 2838-2842	3
171	Encyclopedia of Database Systems. 2009 , 511-516	9
170	A Survey of Graph Algorithms Under Extended Streaming Models of Computation. 2009 , 455-476	6
169	On Distributed Merlin-Arthur Decision Protocols. 2019 , 230-245	3
168	Optimal In-place Algorithms for Basic Graph Problems. 2020 , 126-139	1
167	Derivatives of Quantitative Regular Expressions. 2017 , 75-95	6
166	Sliding Window Algorithms for Regular Languages. 2018 , 26-35	2
165	An Improved Data Stream Summary: The Count-Min Sketch and Its Applications. 2004 , 29-38	78
164	The Sketching Complexity of Pattern Matching. 2004 , 261-272	9
163	Estimating Frequency Moments of Data Streams Using Random Linear Combinations. 2004 , 369-380	14
162	On Graph Problems in a Semi-streaming Model. 2004 , 531-543	32
161	Counting by Coin Tossings. 2004 , 1-12	7

160	Adaptive Spatial Partitioning for Multidimensional Data Streams. 2004 , 522-533	13
159	Estimating Dominance Norms of Multiple Data Streams. 2003 , 148-160	9
158	Tight Lower Bounds for Multi-pass Stream Computation Via Pass Elimination. 2008 , 760-772	6
157	Sketching Information Divergences. 2007 , 424-438	2
156	Streaming and Fully Dynamic Centralized Algorithms for Constructing and Maintaining Sparse Spanners. 2007 , 716-727	10
155	Checking and Spot-Checking the Correctness of Priority Queues. 2007 , 728-739	2
154	On Estimating Frequency Moments of Data Streams. 2007 , 479-493	16
153	Adapting Parallel Algorithms to the W-Stream Model, with Applications to Graph Problems. 2007 , 194-205	2
152	Multiple Pass Streaming Algorithms for Learning Mixtures of Distributions in (\mathbb{R}^d) . 2007 , 211-226	1
151	Fast Private Norm Estimation and Heavy Hitters. 2008 , 176-193	3
150	Lower Bounds on Frequency Estimation of Data Streams (Extended Abstract). 2008 , 204-215	6
149	Polylog Space Compression Is Incomparable with Lempel-Ziv and Pushdown Compression. 2009 , 633-644	1
148	Best-Order Streaming Model. 2009 , 178-191	4
147	Functional Monitoring without Monotonicity. 2009 , 95-106	42
146	Revisiting the Direct Sum Theorem and Space Lower Bounds in Random Order Streams. 2009 , 513-524	6
145	Graph Sparsification in the Semi-streaming Model. 2009 , 328-338	30
144	Hellinger Strikes Back: A Note on the Multi-party Information Complexity of AND. 2009 , 562-573	22
143	Network Traffic Analysis and SCADA Security. 2010 , 383-405	10

142	Streaming Algorithms for Independent Sets. 2010 , 641-652	11
141	Periodicity and Cyclic Shifts via Linear Sketches. 2011 , 158-170	3
140	Almost Optimal Explicit Johnson-Lindenstrauss Families. 2011 , 628-639	7
139	Privacy-Preserving Environment Monitoring in Networks of Mobile Devices. 2011 , 179-191	4
138	A Randomized Algorithm for Finding Frequent Elements in Streams Using $O(\log\log N)$ Space. 2011 , 514-523	2
137	Encyclopedia of Algorithms. 2014 , 1-7	2
136	Space-Constrained Interval Selection. 2012 , 302-313	5
135	Rademacher-Sketch: A Dimensionality-Reducing Embedding for Sum-Product Norms, with an Application to Earth-Mover Distance. 2012 , 834-845	3
134	Maximum Matching in Semi-streaming with Few Passes. 2012 , 231-242	21
133	How to Catch L2-Heavy-Hitters on Sliding Windows. 2013 , 638-650	4
132	Tight Lower Bound for Linear Sketches of Moments. 2013 , 25-32	7
131	Sketching for Big Data Recommender Systems Using Fast Pseudo-random Fingerprints. 2013 , 459-471	10
130	Approximating Large Frequency Moments with Pick-and-Drop Sampling. 2013 , 42-57	8
129	Generalizing the Layering Method of Indyk and Woodruff: Recursive Sketches for Frequency-Based Vectors on Streams. 2013 , 58-70	10
128	An Improved Interactive Streaming Algorithm for the Distinct Elements Problem. 2014 , 919-930	4
127	Communication Complexity Theory: Thirty-Five Years of Set Disjointness. 2014 , 24-43	3
126	Taylor Polynomial Estimator for Estimating Frequency Moments. 2015 , 542-553	2
125	Communication Complexity: and Applications. 2020 ,	10

124	. 2020,	3
123	Extractors and Secret Sharing Against Bounded Collusion Protocols. 2020,	9
122	Fully decentralized computation of aggregates over data streams. 2010,	1
121	Stream Sampling for Frequency Cap Statistics. 2015,	9
120	Weighted Similarity Estimation in Data Streams. 2015,	4
119	Space-Constrained Interval Selection. 2016, 12, 1-32	2
118	HyperLogLog Hyperextended. 2017,	3
117	StreamQRE: Modular Specification and Efficient Evaluation of Quantitative Queries over Streaming Data. 2017, 52, 693-708	10
116	Broadcast Congested Clique. 2019,	2
115	Algorithms for heavy-tailed statistics: regression, covariance estimation, and beyond. 2020,	2
114	A Framework for Adversarially Robust Streaming Algorithms. 2020,	9
113	Robust machine learning by median-of-means: Theory and practice. 2020, 48,	17
112	Mean estimation with sub-Gaussian rates in polynomial time. 2020, 48,	5
111	Pushing data-induced predicates through joins in big-data clusters. <i>Proceedings of the VLDB Endowment</i> , 2019, 13, 252-265	3.1 7
110	iDEC. <i>Proceedings of the VLDB Endowment</i> , 2020, 13, 1483-1497	3.1 5
109	Differentially-Private Multi-Party Sketching for Large-Scale Statistics. 2020, 2020, 153-174	5
108	Correlation Estimating Algorithm of XML Stream Based on Hamming Norms. 2010, 21, 672-679	1
107	Symmetric Norm Estimation and Regression on Sliding Windows. 2021, 528-539	

106 Data Streams and Data Synopses for Massive Data Sets (Invited Talk). **2005**, 8-9

105 A Single-Pass Online Data Mining Algorithm Combined with Control Theory with Limited Memory in Dynamic Data Streams. **2005**, 1119-1130

104 Data Streams and Data Synopses for Massive Data Sets. **2005**, 8-9

103 On Finding Frequent Elements in a Data Stream. **2007**, 584-595 2

102 Estimating Hybrid Frequency Moments of Data Streams. **2008**, 55-66 3

101 Encyclopedia of Database Systems. **2009**, 1169-1170 1

100 Partition Arguments in Multiparty Communication Complexity. **2009**, 390-402 2

99 A Note on Estimating Hybrid Frequency Moment of Data Streams. **2009**, 202-211

98 FM Synopsis. **2009**, 1143-1147

97 The average-case complexity of counting distinct elements. **2009**, 5

96 Grammar-Based Compression in a Streaming Model. **2010**, 273-284 3

95 Validation and Improvement of the Lossy Difference Aggregator to Measure Packet Delays. **2010**, 155-170 1

94 Towards a Universal Sketch for Origin-Destination Network Measurements. **2011**, 201-213 1

93 Space-Efficient Approximation Scheme for Circular Earth Mover Distance. **2012**, 97-108 2

92 The Relationship between Inner Product and Counting Cycles. **2012**, 643-654 1

91 Competitive Analysis of Maintaining Frequent Items of a Stream. **2012**, 340-351 1

90 The Complexity of Unary Subset Sum. **2012**, 458-469

89 Multiparty Communication Complexity of Vector-Valued and Sum-Type Functions. **2013**, 451-462 0

- 88 Software Streams: Big Data Challenges in Dynamic Program Analysis. **2013**, 124-134
- 87 Computing (and Life) Is All about Tradeoffs. **2013**, 112-132 ○
- 86 Boosting the basic counting on distributed streams. **2014**,
- 85 Sampling from Dense Streams without Penalty. **2014**, 13-24
- 84 On the Communication Complexity of Linear Algebraic Problems in the Message Passing Model. **2014**, 499-513 4
- 83 Optimal Bounds for Estimating Entropy with PMF Queries. **2015**, 187-198 ○
- 82 Randomized OBDD-Based Graph Algorithms. **2015**, 254-269 1
- 81 Encyclopedia of Algorithms. **2015**, 1-10
- 80 Encyclopedia of Database Systems. **2016**, 1-6
- 79 Encyclopedia of Database Systems. **2016**, 1-2
- 78 Know When to Persist: Deriving Value from a Stream Buffer. **2016**, 101-112 1
- 77 Encyclopedia of Database Systems. **2016**, 1-6
- 76 Encyclopedia of Database Systems. **2016**, 1-2
- 75 Encyclopedia of Algorithms. **2016**, 349-357
- 74 Engineering a Bipartite Matching Algorithm in the Semi-Streaming Model. **2016**, 352-378 1
- 73 Encyclopedia of Database Systems. **2017**, 1-6
- 72 Fast and powerful hashing using tabulation. **2017**, 60, 94-101 2
- 71 Providing a Dynamic Technique for Answering Ad-hoc Continuous Aggregate Queries. **2017**, 14, 3-22 ○

70	Encyclopedia of Database Systems. 2018 , 1487-1492		
69	Encyclopedia of Database Systems. 2018 , 1518-1519		
68	Encyclopedia of Database Systems. 2018 , 2556-2557		1
67	Encyclopedia of Database Systems. 2018 , 3782-3787		
66	Count-Min Sketch. 2018 , 653-659		0
65	Advanced Technology and Social Media Influence on Research, Industry and Community. 2018 , 1-9		
64	Approximating the Caro-Wei Bound for Independent Sets in Graph Streams. 2018 , 101-114		1
63	Online and Scalable Adaptive Cyber Defense. 2019 , 232-261		1
62	A Study on Gossip Computation of Aggregate Information. 2019 , 22-27		
61	Guest Column. 2019 , 50, 52-74		
60	I Know What You Did Last Summer. 2019 , 3, 1-28		5
59	On the Streaming Indistinguishability of a Random Permutation and a Random Function. 2020 , 433-460		5
58	Non-adaptive adaptive sampling on turnstile streams. 2020 ,		0
57	Data Sketching for Real Time Analytics. 2020 ,		1
56	MP-RW-LSH. <i>Proceedings of the VLDB Endowment</i> , 2021 , 14, 3267-3280		3.1
55	. 2020 ,		1
54	Space- and computationally-efficient set reconciliation via parity bitmap sketch (PBS). <i>Proceedings of the VLDB Endowment</i> , 2020 , 14, 458-470	3.1	2
53	Multi-dimensional Impact Detection and Diagnosis in Cellular Networks. 2020 ,		

52	K-bMOM: A robust Lloyd-type clustering algorithm based on bootstrap median-of-means. 2022 , 167, 107370	3
51	Tight Time-Space Lower Bounds for Finding Multiple Collision Pairs and Their Applications. 2020 , 405-434	5
50	On the Communication Complexity Methodology for Proving Lower Bounds on the Query Complexity of Property Testing. 2020 , 87-118	1
49	Space-efficient Query Evaluation over Probabilistic Event Streams. 2020 ,	0
48	A Lower Bound for Sampling Disjoint Sets. 2020 , 12, 1-13	
47	Finding Frequent Items over General Update Streams. 2008 , 204-221	3
46	Two Improved Range-Efficient Algorithms for F0 Estimation. 2007 , 659-669	0
45	Streaming Algorithms Measured in Terms of the Computed Quantity. 2007 , 338-348	
44	Space-Efficient Structures for Detecting Port Scans. 2007 , 120-129	
43	Mining Dynamic Graph Streams for Predictive Queries Under Resource Constraints. 2020 , 31-43	1
42	Don't Work on Individual Data Plane Algorithms. Put Them Together!. 2020 ,	0
41	Adversarial laws of large numbers and optimal regret in online classification. 2021 ,	3
40	Vertex connectivity in poly-logarithmic max-flows. 2021 ,	1
39	The Andoni&rauthgamer&Bazenshteyn Characterization of Sketchable Norms Fails for Sketchable Metrics. 2021 , 185-204	
38	Finite sample properties of parametric MMD estimation: Robustness to misspecification and dependence. 2022 , 28,	1
37	A One-Pass Distributed and Private Sketch for Kernel Sums with Applications to Machine Learning at Scale. 2021 ,	
36	Multiparty Reach and Frequency Histogram: Private, Secure, and Practical. 2022 , 2022, 373-395	
35	Three-wise independent random walks can be slightly unbounded.	

- 34 A Framework for Adversarially Robust Streaming Algorithms. **2022**, 69, 1-33 0
- 33 Statistically Robust, Risk-Averse Best Arm Identification in Multi-Armed Bandits. **2022**, 1-1 1
- 32 Hop-Constrained Metric Embeddings and their Applications. **2022**, 0
- 31 Optimal Sub-Gaussian Mean Estimation in \mathbb{R}^d . **2022**, 0
- 30 Robust sub-Gaussian estimation of a mean vector in nearly linear time. **2022**, 50, 1
- 29 Optimal (Euclidean) Metric Compression. **2022**, 51, 467-491
- 28 Persistent Summaries.
- 27 Model Counting Meets Distinct Elements in a Data Stream. *SIGMOD Record*, **2022**, 51, 87-94 1.1
- 26 SpaceSaving \square . *Proceedings of the VLDB Endowment*, **2022**, 15, 1215-1227 3.1
- 25 Near-optimal Quantum algorithms for multivariate mean estimation. **2022**, 0
- 24 The White-Box Adversarial Data Stream Model. **2022**,
- 23 Truly Perfect Samplers for Data Streams and Sliding Windows. **2022**, 1
- 22 Estimation of the Size of Union of Delphic Sets: Achieving Independence from Stream Size. **2022**,
- 21 Optimal Bounds for Approximate Counting. **2022**,
- 20 Streaming algorithms for multitasking scheduling with shared processing. *Discrete Applied Mathematics*, **2022**, 320, 346-355 1
- 19 Optimal Multi-Dimensional Mechanisms are not Locally-Implementable. **2022**,
- 18 Deterministic Near-Optimal Distributed Listing of Cliques. **2022**, 0
- 17 High-Level Design Optimizations for Implementing Data Stream Sketch Frequency Estimators on FPGAs. **2022**, 11, 2399

- 16 Sampling-based Estimation of the Number of Distinct Values in Distributed Environment. **2022,**
- 15 Adversarially Robust Streaming Algorithms via Differential Privacy.
- 14 Non-asymptotic analysis and inference for an outlyingness induced winsorized mean. ○
- 13 On Streaming Algorithms for ℓ_1 Geometric Independent Set and ℓ_1 Clique. **2022,** 211-224 ○
- 12 A robust estimator of the proportional hazard transform for massive data. **2022,** ○
- 11 Shifted Inverse. **2022,** ○
- 10 An estimator for matching size in low arboricity graphs with two applications. **2023,** 45, ○
- 9 Low Treewidth Embeddings of Planar and Minor-Free Metrics. **2022,** ○
- 8 Heuristic Distribution of Latency-Sensitive Tasks in Multi-Access Edge Computing Systems. **2022,** ○
- 7 Robust Online and Distributed Mean Estimation Under Adversarial Data Corruption. **2022,** ○
- 6 On the robustness to adversarial corruption and to heavy-tailed data of the Stahel-Donoho median of means. ○
- 5 A Machine Learning Accelerator for DDoS Attack Detection and Classification on FPGA. **2022,** ○
- 4 References. **2022,** 541-557 ○
- 3 Measuring network traffic. **2022,** 449-488 ○
- 2 HXPY: A High-Performance Data Processing Package for Financial Time-Series Data. **2023,** 38, 3-24 ○
- 1 Streaming analysis of online video channels in the Philippines through social media analytic. **2023,** ○