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#	Paper	IF	Citations
711	.		14
710	.		12
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708	Proof verification and the hardness of approximation problems. <i>Journal of the ACM</i> , 1998 , 45, 501-555	2	831
707	.		11
706	Fast approximate PCPs. 1999 ,		12
705	Integer Programming and Combinatorial Optimization. 1999 ,		1
704	Max NP-completeness made easy. 1999 , 225, 65-79		5
703	Clique is hard to approximate within $n^{1-\epsilon}$ 1999 , 182, 105-142		553
702	Polynomial Time Approximation Schemes for Dense Instances of NP-Hard Problems. 1999 , 58, 193-210		107
701	PSPACE has constant-round quantum interactive proof systems.		9
700	Spot-Checkers. 2000 , 60, 717-751		86
699	On the efficiency of local decoding procedures for error-correcting codes. 2000 ,		140
698	A PCP characterization of NP with optimal amortized query complexity. 2000 ,		87
697	A Combinatorial Consistency Lemma with Application to Proving the PCP Theorem. 2000 , 29, 1132-1154		21
696	STACS 2000. 2000 ,		
695	On the hardness of 4-coloring a 3-colorable graph.		7

694 A survey of optimal PCP characterizations of NP.

693 Hardness of approximate hypergraph coloring.

11

692 Improved inapproximability results for MaxClique, chromatic number and approximate graph coloring. **2001,**

69

691 Some optimal inapproximability results. *Journal of the ACM*, **2001**, 48, 798-859

2

754

690 The Complexity of Counting in Sparse, Regular, and Planar Graphs. **2001**, 31, 398-427

142

689 The Approximability of Constraint Satisfaction Problems. **2001**, 30, 1863-1920

119

688 Checking Approximate Computations of Polynomials and Functional Equations. **2001**, 31, 550-576

3

687 Query efficient PCPs with perfect completeness. **2001,**

10

686 Approximation Algorithms for MAX 4-SAT and Rounding Procedures for Semidefinite Programs. **2001**, 40, 184-211

19

685 Linear-Consistency Testing. **2001**, 62, 589-607

7

684 Randomness efficient identity testing of multivariate polynomials. **2001,**

73

683 STACS 2001. **2001,**

2

682 Hardness results for coloring 3-colorable 3-uniform hypergraphs.

14

681 .

3

680 .

2

679 Universal arguments and their applications.

31

678 Pseudorandomness and average-case complexity via uniform reductions.

18

677 Massive Quasi-Clique Detection. **2002**, 598-612

132

676	Locally testable codes and PCPs of almost-linear length.	20
675	Hardness results for approximate hypergraph coloring. 2002 ,	11
674	Vertex cover on 4-regular hyper-graphs is hard to approximate within $2 - \epsilon$ 2002 ,	12
673	On the advantage over a random assignment. 2002 ,	5
672	The importance of being biased. 2002 ,	88
671	The hardness of cache conscious data placement. 2002 ,	58
670	The hardness of cache conscious data placement. 2002 , 37, 101-112	5
669	On the power of unique 2-prover 1-round games. 2002 ,	183
668	.	10
667	Hardness of Approximate Hypergraph Coloring. 2002 , 31, 1663-1686	29
666	The primal-dual method for approximation algorithms. 2002 , 91, 447-478	31
665	Testing properties of directed graphs: acyclicity and connectivity*. 2002 , 20, 184-205	21
664	Uniform hardness versus randomness tradeoffs for Arthur-Merlin games. 2003 , 12, 85	22
663	Approximating CVP to Within Almost-Polynomial Factors is NP-Hard. 2003 , 23, 205-243	68
662	Quantum multi-prover interactive proof systems with limited prior entanglement. 2003 , 66, 429-450	35
661	On the approximability of clique and related maximization problems. 2003 , 67, 633-651	8
660	PSPACE has constant-round quantum interactive proof systems. 2003 , 292, 575-588	36
659	Towards optimal lower bounds for clique and chromatic number. 2003 , 299, 537-584	16

658	Algebraic testing and weight distributions of codes. 2003 , 299, 81-106		6
657	Simple analysis of graph tests for linearity and PCP. 2003 , 22, 139-160		50
656	Uniform hardness vs. randomness tradeoffs for Arthur-Merlin games.		2
655	More on average case vs approximation complexity.		41
654	Three-query PCPs with perfect completeness over non-Boolean domains.		1
653	Improved inapproximability of lattice and coding problems with preprocessing.		6
652	A strong inapproximability gap for a generalization of minimum bisection.		
651	Hardness of approximating the shortest vector problem in high $L/\text{sub } p/$ norms.		4
650	Inapproximability - some history and some open problems.		
649	.		9
648	On the Work of Madhu Sudan. 2003 , 11,		
647	A complete problem for statistical zero knowledge. <i>Journal of the ACM</i> , 2003 , 50, 196-249	2	88
646	Derandomizing polynomial identity tests means proving circuit lower bounds. 2003 ,		33
645	Randomness-efficient low degree tests and short PCPs via epsilon-biased sets. 2003 ,		52
644	A new multilayered PCP and the hardness of hypergraph vertex cover. 2003 ,		28
643	Approximability of NP-Optimization Problems. 2003 , 195-243		
642	Feasible Proofs and Computations: Partnership and Fusion. 2004 , 8-14		
641	New hardness results for congestion minimization and machine scheduling. 2004 ,		18

640	A new PCP outer verifier with applications to homogeneous linear equations and max-bisection. 2004,	12
639	On the Hardness of 4-Coloring a 3-Colorable Graph. 2004, 18, 30-40	29
638	A Semidefinite Programming Approach to Side Chain Positioning with New Rounding Strategies. 2004, 16, 380-392	66
637	Asymmetric k-center is $\log^* n$ -hard to approximate. 2004,	10
636	Robust pcps of proximity, shorter pcps and applications to coding. 2004,	40
635	Improved inapproximability of lattice and coding problems with preprocessing. 2004, 50, 2031-2037	20
634	Fast approximate probabilistically checkable proofs. 2004, 189, 135-159	22
633	Testing juntas. 2004, 68, 753-787	58
632	Derandomizing Polynomial Identity Tests Means Proving Circuit Lower Bounds. 2004, 13, 1-46	210
631	On the advantage over a random assignment. 2004, 25, 117-149	21
630	Feasible proofs and computations: partnership and fusion. 2004,	
629	Ruling out PTAS for graph min-bisection, densest subgraph and bipartite clique.	44
628	Assignment testers: towards a combinatorial proof of the PCP-theorem.	11
627	On the Complexity of Hilbert's 17th Problem. 2004, 237-249	
626	Disjoint Cycles: Integrality Gap, Hardness, and Approximation. 2005, 51-65	10
625	On Some Relations Between Approximation Problems and PCPs over the Real Numbers. 2005, 322-331	2
624	Guest column: inapproximability results via Long Code based PCPs. 2005, 36, 25-42	13
623	Probabilistically Checkable Proofs Over the Reals. 2005, 123, 165-177	

622	. 2005 , 51, 2849-2858		14
621	Testing Reed-Muller codes. 2005 , 51, 4032-4039		70
620	Multi-Linearity Self-Testing with Relative Error. 2005 , 38, 573-591		1
619	Some Results on Derandomization. 2005 , 38, 211-227		2
618	The Hardness of 3-Uniform Hypergraph Coloring. 2005 , 25, 519-535		31
617	Three-query PCPs with perfect completeness over non-Boolean domains. 2005 , 27, 46-75		3
616	Probabilistic Verification and Non-Approximability. 2004 , 83-191		
615	Complexity Theory. 2005 , 2, 1431-1504		
614	Beyond NP. 2005 ,		3
613	Simple PCPs with poly-log rate and query complexity. 2005 ,		31
612	Asymmetric k-center is $\log * n$ -hard to approximate. <i>Journal of the ACM</i> , 2005 , 52, 538-551	2	25
611	On non-approximability for quadratic programs.		22
610	Short PCPs verifiable in polylogarithmic time.		38
609	Approximation, Randomization and Combinatorial Optimization. Algorithms and Techniques. 2005 ,		6
608	The Local Ratio Technique and Its Application to Scheduling and Resource Allocation Problems. 2005 , 107-143		3
607	Towards a theory of insider threat assessment.		51
606	Hardness of Max 3SAT with no mixed clauses.		9
605	Almost orthogonal linear codes are locally testable.		21

604	Quantum information and the PCP theorem.	4
603	On the hardness of approximating MULTICUT and SPARSEST-CUT.	26
602	A New Multilayered PCP and the Hardness of Hypergraph Vertex Cover. 2005 , 34, 1129-1146	69
601	Complexity Theory. 2005 ,	2
600	Complexity Theory and Cryptology. 2005 ,	3
599	Approximation, Randomization, and Combinatorial Optimization. Algorithms and Techniques. 2006 ,	1
598	Expander graphs and their applications. 2006 , 43, 439-562	718
597	Better Inapproximability Results for MaxClique, Chromatic Number and Min-3Lin-Deletion. 2006 , 226-237	24
596	Assignment Testers: Towards a Combinatorial Proof of the PCP Theorem. 2006 , 36, 975-1024	80
595	Combinatorial Optimization. 2006 ,	8
594	. 2006 ,	19
593	Robust PCPs of Proximity, Shorter PCPs, and Applications to Coding. 2006 , 36, 889-974	104
592	Ruling Out PTAS for Graph Min-Bisection, Dense k-Subgraph, and Bipartite Clique. 2006 , 36, 1025-1071	107
591	Mathematics: proof at a roll of the dice. 2006 , 444, 1018-9	
590	A 3-query non-adaptive PCP with perfect completeness.	7
589	SIGACT news complexity theory column 51. 2006 , 37, 31-46	
588	On Dinur's proof of the PCP theorem. 2006 , 44, 19-62	6
587	Robust locally testable codes and products of codes. 2006 , 28, 387-402	27

586	APX-hardness of domination problems in circle graphs. 2006 , 97, 231-237		6
585	What can be efficiently reduced to the Kolmogorov-random strings?. 2006 , 138, 2-19		19
584	On the severity of Braess's Paradox: Designing networks for selfish users is hard. 2006 , 72, 922-953		94
583	On the complexity of approximating k-set packing. 2006 , 15, 20-39		115
582	ON THE HARDNESS OF APPROXIMATING MULTICUT AND SPARSEST-CUT. 2006 , 15, 94-114		99
581	Hardness of approximating the Shortest Vector Problem in high . 2006 , 72, 206-219		6
580	On maximizing welfare when utility functions are subadditive. 2006 ,		64
579	The PCP theorem by gap amplification. 2006 ,		28
578	The NP-completeness column. 2006 , 2, 473-489		4
577	Gowers uniformity, influence of variables, and PCPs. 2006 ,		44
576	Hardness of cut problems in directed graphs. 2006 ,		9
575	Sub-constant error low degree test of almost-linear size. 2006 ,		7
574	Locally testable codes and PCPs of almost-linear length. <i>Journal of the ACM</i> , 2006 , 53, 558-655	2	78
573	New hardness results for congestion minimization and machine scheduling. <i>Journal of the ACM</i> , 2006 , 53, 707-721	2	9
572	Algorithmic construction of sets for k -restrictions. 2006 , 2, 153-177		181
571	Information Security Applications. 2007 ,		5
570	Balanced max 2-sat might not be the hardest. 2007 ,		21
569	Polynomial flow-cut gaps and hardness of directed cut problems. 2007 ,		9

568	Low-degree tests at large distances. 2007 ,		52
567	Approximation algorithms and hardness results for cycle packing problems. 2007 , 3, 48		37
566	Distribution-Free Property-Testing. 2007 , 37, 1107-1138		11
565	Towards Sharp Inapproximability For Any 2-CSP. 2007 ,		205
564	The PCP theorem by gap amplification. <i>Journal of the ACM</i> , 2007 , 54, 12	2	194
563	The Hardness of Metric Labeling. 2007 , 36, 1376-1386		11
562	Approximating the Radii of Point Sets. 2007 , 36, 1764-1776		10
561	Efficient Arguments without Short PCPs. 2007 ,		63
560	. 2007 ,		11
559	Hardness of Reconstructing Multivariate Polynomials over Finite Fields. 2007 ,		4
558	Discovery Science. 2007 ,		
557	A Generic Time Hierarchy with One Bit of Advice. 2007 , 16, 139-179		10
556	Information Hiding in Software with Mixed Boolean-Arithmetic Transforms. 2007 , 61-75		12
555	The Resolution Complexity of Independent Sets and Vertex Covers in Random Graphs. 2007 , 16, 245-297		16
554	Vertex cover might be hard to approximate to within . 2008 , 74, 335-349		372
553	More efficient queries in PCPs for NP and improved approximation hardness of maximum CSP. 2008 , 33, 497-514		6
552	Combinatorial Optimization. 2008 ,		3
551	Delegating computation. 2008 ,		217

550	Short PCPs with Polylog Query Complexity. 2008 , 38, 551-607	83
549	2-Transitivity Is Insufficient for Local Testability. 2008 ,	21
548	Noisy Interpolating Sets for Low Degree Polynomials. 2008 ,	2
547	Hardness of Minimizing and Learning DNF Expressions. 2008 ,	12
546	Sub-Constant Error Low Degree Test of Almost-Linear Size. 2008 , 38, 140-180	13
545	Entangled Games are Hard to Approximate. 2008 ,	27
544	Two Query PCP with Sub-Constant Error. 2008 ,	15
543	Using Entanglement in Quantum Multi-prover Interactive Proofs. 2008 ,	7
542	Some topics in analysis of boolean functions. 2008 ,	46
541	Polylogarithmic two-round argument systems. 2008 , 2,	19
540	On hardness of learning intersection of two halfspaces. 2008 ,	6
539	Infeasibility of instance compression and succinct PCPs for NP. 2008 ,	37
538	Network design for vertex connectivity. 2008 ,	24
537	Combinatorial construction of locally testable codes. 2008 ,	5
536	Parallel repetition in projection games and a concentration bound. 2008 ,	42
535	Unique Games with Entangled Provers are Easy. 2008 ,	14
534	Applying practice to theory. 2008 , 39, 37-52	4
533	Optimal Long Code Test with One Free Bit. 2009 ,	32

532	Composition of Low-Error 2-Query PCPs Using Decodable PCPs. 2009 ,	16
531	Are PCPs Inherent in Efficient Arguments?. 2009 ,	6
530	New direct-product testers and 2-query PCPs. 2009 ,	11
529	Conditional hardness for satisfiable 3-CSPs. 2009 ,	15
528	Chapter 4 A Status Report on the P Versus NP Question. 2009 , 77, 117-147	2
527	Probabilistically checkable proofs. 2009 , 52, 76-84	11
526	Sound 3-Query PCPPs Are Long. 2009 , 1, 1-49	9
525	Local search starting from an LP solution. 2009 , 14,	
524	Quantum Information and the PCP Theorem. 2009 , 55, 462-489	3
523	Short PCPPs verifiable in polylogarithmic time with $O(1)$ queries. 2009 , 56, 313-338	16
522	Deterministically testing sparse polynomial identities of unbounded degree. 2009 , 109, 187-192	18
521	Testing algebraic geometric codes. 2009 , 52, 2171-2176	1
520	Using Entanglement in Quantum Multi-Prover Interactive Proofs. 2009 , 18, 273-307	12
519	Testing low-degree polynomials over prime fields. 2009 , 35, 163-193	10
518	Quantum computation and quantum-state engineering driven by dissipation. 2009 , 5, 633-636	816
517	Hard constraint satisfaction problems have hard gaps at location 1. 2009 , 410, 3856-3874	10
516	Conditional Hardness for Approximate Coloring. 2009 , 39, 843-873	49
515	Oracularization and Two-Prover One-Round Interactive Proofs against Nonlocal Strategies. 2009 ,	29

514	Inapproximability Results for Computational Problems on Lattices. 2009 , 453-473	2
513	Encyclopedia of Complexity and Systems Science. 2009 , 7174-7201	67
512	Combinatorial PCPs with Efficient Verifiers. 2009 ,	12
511	. 2009 ,	9
510	Preparing ground States of quantum many-body systems on a quantum computer. 2009 , 102, 130503	34
509	Approximate List-Decoding of Direct Product Codes and Uniform Hardness Amplification. 2009 , 39, 564-605	7
508	Gowers Uniformity, Influence of Variables, and PCPs. 2009 , 39, 323-360	22
507	On Agnostic Learning of Parities, Monomials, and Halfspaces. 2009 , 39, 606-645	34
506	Universal Arguments and their Applications. 2009 , 38, 1661-1694	58
505	Survivable Network Design with Degree or Order Constraints. 2009 , 39, 1062-1087	39
504	On Maximizing Welfare When Utility Functions Are Subadditive. 2009 , 39, 122-142	72
503	Combinatorial Construction of Locally Testable Codes. 2009 , 39, 491-544	28
502	Local list-decoding and testing of random linear codes from high error. 2010 ,	9
501	Sub-Constant Error Probabilistically Checkable Proof of Almost-Linear Size. 2010 , 19, 367-422	7
500	Are PCPs Inherent in Efficient Arguments?. 2010 , 19, 265-304	11
499	Optimisation combinatoire. 2010 ,	1
498	Two-query PCP with subconstant error. <i>Journal of the ACM</i> , 2010 , 57, 1-29	2 47
497	How to Take Advantage of Distrusted Parties or Secure Auxiliary Computations for Every Language in NP. 2010 , 19, 160-174	

496	On the Unique Games Conjecture (Invited Survey). 2010 ,	27
495	Hardness of Reconstructing Multivariate Polynomials over Finite Fields. 2010 , 39, 2598-2621	8
494	Towards Sharp Inapproximability for Any 2-CSP. 2010 , 39, 2430-2463	15
493	Unique Games with Entangled Provers Are Easy. 2010 , 39, 3207-3229	32
492	The LLL Algorithm. 2010 ,	62
491	Hardness of Finding Independent Sets in Almost 3-Colorable Graphs. 2010 ,	7
490	Derandomized Parallel Repetition of Structured PCPs. 2010 ,	7
489	Parallel Repetition of Two Prover Games (Invited Survey). 2010 ,	1
488	Fair Secure Message Exchange Protocols. 2010 ,	
487	. 2011 ,	2
486	Towards Lower Bounds on Locally Testable Codes via Density Arguments. 2011 ,	1
485	Approximation Algorithms for QMA-Complete Problems. 2011 ,	2
484	Information Security and Cryptology. 2011 ,	
483	Ottimizzazione Combinatoria. 2011 ,	
482	Computer Science. 2011 ,	0
481	Self-correctors for Cryptographic Modules. 2011 , 132-151	1
480	Inapproximability Results for Maximum Edge Biclique, Minimum Linear Arrangement, and Sparsest Cut. 2011 , 40, 567-596	41
479	Entangled Games Are Hard to Approximate. 2011 , 40, 848-877	20

478	Parallel Repetition in Projection Games and a Concentration Bound. 2011 , 40, 1871-1891	29
477	Bibliography. 469-484	
476	Random Walks and Rapid Mixing. 2011 , 563-650	0
475	Maximum Clique, Maximum Independent Set, and Graph Coloring Problems. 2011 ,	2
474	An improved derandomized approximation algorithm for the max-controlled set problem. 2011 , 45, 181-196	
473	More on Average Case vs Approximation Complexity. 2011 , 20, 755-786	21
472	Derandomized Parallel Repetition via Structured PCPs. 2011 , 20, 207-327	9
471	PCP Characterizations of NP: Toward a Polynomially-Small Error-Probability. 2011 , 20, 413-504	10
470	On the hardness of learning intersections of two halfspaces. 2011 , 77, 129-141	11
469	Unrelated parallel machine scheduling perspectives and progress. 2011 , 48, 318-334	5
468	Infeasibility of instance compression and succinct PCPs for NP. 2011 , 77, 91-106	155
467	Best-order streaming model. 2011 , 412, 2544-2555	2
466	Practical delegation of computation using multiple servers. 2011 ,	66
465	NP-hardness of approximately solving linear equations over reals. 2011 ,	4
464	High-rate codes with sublinear-time decoding. 2011 ,	34
463	. 2011 ,	5
462	Formalizing Randomized Matching Algorithms. 2011 ,	
461	Guest column: testing linear properties. 2011 , 42, 59-80	4

460	Distributed Computing. 2011,	5
459	Verifying computations with streaming interactive proofs. 2011, 5, 25-36	20
458	Computing the Independence Number of Intersection Graphs. 2011,	16
457	Spherical cubes. 2012, 55, 90-97	2
456	Bounds on locally testable codes with unique tests. 2012,	
455	The Computational Complexity of Nash Equilibria in Concisely Represented Games. 2012, 4, 1-50	8
454	$2\log_1\delta$ -hardness for the closest vector problem with preprocessing. 2012,	3
453	Approximation algorithms and hardness of integral concurrent flow. 2012,	1
452	On the complexity of Turing machine accepting fuzzy language. 2012,	
451	Combinatorial PCPs with Short Proofs. 2012,	9
450	Guest column. 2012, 43, 62-81	
449	New Direct-Product Testers and 2-Query PCPs. 2012, 41, 1722-1768	8
448	Approximation Algorithms for QMA-Complete Problems. 2012, 41, 1028-1050	8
447	. 2012,	6
446	Components in time-varying graphs. 2012, 22, 023101	67
445	Pseudorandomness. 2012, 7, 1-336	118
444	Approximation Algorithms. 2012, 413-457	2
443	A Multi-prover Interactive Proof for NEXP Sound against Entangled Provers. 2012,	26

442	Hamiltonian complexity. 2012 , 75, 022001	65
441	Towards lower bounds on locally testable codes via density arguments. 2012 , 21, 267-309	7
440	Characterizations of locally testable linear- and affine-invariant families. 2012 , 414, 55-75	
439	Logical Foundations of Mathematics and Computational Complexity. 2013 ,	4
438	Exponential Inapproximability of Selecting a Maximum Volume Sub-matrix. 2013 , 65, 159-176	12
437	2-Transitivity is Insufficient for Local Testability. 2013 , 22, 137-158	2
436	Resolving the conflict between generality and plausibility in verified computation. 2013 ,	57
435	Quadratic Span Programs and Succinct NIZKs without PCPs. 2013 , 626-645	307
434	\mathcal{NP} -Hardness of Approximately Solving Linear Equations over Reals. 2013 , 42, 752-791	3
433	Product-state approximations to quantum ground states. 2013 ,	12
432	Constant Rate PCPs for Circuit-SAT with Sublinear Query Complexity. 2013 ,	7
431	Quantum XOR Games. 2013 ,	7
430	Notice of Retraction: Three-Player Entangled XOR Games Are NP-Hard to Approximate. 2013 ,	12
429	Strong LTCs with Inverse Poly-Log Rate and Constant Soundness. 2013 ,	4
428	. 2013 ,	24
427	A polynomial-time algorithm for the maximum clique problem. 2013 ,	7
426	Computational complexity in electronic structure. 2013 , 15, 397-411	30
425	Refereed delegation of computation. 2013 , 226, 16-36	15

424	The Complexity of Computations. 2013 , 365-493	
423	. 2013 , 59, 7747-7760	
422	Guest column. 2013 , 44, 47-79	33
421	Towards an optimal query efficient PCP?. 2013 ,	2
420	Approximation resistance on satisfiable instances for predicates with few accepting inputs. 2013 ,	5
419	Verifying the correctness of remote executions. 2013 ,	1
418	Stronger methods of making quantum interactive proofs perfectly complete. 2013 ,	2
417	Verifying computations with state. 2013 ,	68
416	On the power of many one-bit provers. 2013 ,	1
415	On the concrete efficiency of probabilistically-checkable proofs. 2013 ,	35
414	A new family of locally correctable codes based on degree-lifted algebraic geometry codes. 2013 ,	3
413	Composition of Low-Error 2-Query PCPs Using Decodable PCPs. 2013 , 42, 2452-2486	6
412	Local List-Decoding and Testing of Random Linear Codes from High Error. 2013 , 42, 1302-1326	5
411	Encyclopedia of Complexity and Systems Science. 2013 , 1-40	2
410	A Hybrid Architecture for Interactive Verifiable Computation. 2013 ,	65
409	. 2013 ,	386
408	Better Algorithms for Satisfiability Problems for Formulas of Bounded Rank-width. 2013 , 123, 59-76	10
407	Bibliography. 2013 , 453-473	

406 Turing's algorithmic lens: From computability to complexity theory. **2013**, 189, a080

405 References. **2014**, 458-479

404 Turing and the development of computational complexity. 299-328

403 A survey of cryptographic approaches to securing big-data analytics in the cloud. **2014**, 30

402 Locally testable codes and cayley graphs. **2014**, 0

401 Hardness of Finding Independent Sets in 2-Colorable and Almost 2-Colorable Hypergraphs. **2014**, 5

400 Maximum Quadratic Assignment Problem. **2014**, 10, 1-18 5

399 Approximating Rooted Steiner Networks. **2014**, 11, 1-22 5

398 Analytical approach to parallel repetition. **2014**, 127

397 The complexity of fairness through equilibrium. **2014**, 11

396 Computational Complexity. **2014**, 9, 495-521

395 A fast proof generating system for verifying cloud search. **2014**,

394 Parallel Repetition from Fortification. **2014**, 4

393 Gyrus: A Framework for User-Intent Monitoring of Text-Based Networked Applications. **2014**, 9

392 Breaking the quadratic barrier for 3-LCC's over the reals. **2014**, 6

391 Computer Science - Theory and Applications. **2014**,

390 Quantum Multiprover Interactive Proofs with Communicating Provers. **2014**, 43, 987-1011

389 A Parallel Repetition Theorem for Entangled Two-Player One-Round Games under Product Distributions. **2014**, 7

388	Almost Polynomial Factor Hardness for Closest Vector Problem with Preprocessing. 2014 , 43, 1184-1205	2
387	Combinatorial algorithms for distributed graph coloring. 2014 , 27, 79-93	5
386	Verifiable computation with access control in cloud computing. 2014 , 69, 528-546	4
385	Column Subset Selection Problem is UG-hard. 2014 , 80, 849-859	13
384	Finding Hidden Cliques in Linear Time with High Probability. 2014 , 23, 29-49	17
383	AM with Multiple Merlins. 2014 ,	10
382	Hardness of Finding Independent Sets in 2-Colorable Hypergraphs and of Satisfiable CSPs. 2014 ,	4
381	Many-Electron Approaches in Physics, Chemistry and Mathematics. 2014 ,	6
380	High-rate codes with sublinear-time decoding. <i>Journal of the ACM</i> , 2014 , 61, 1-20	2 22
379	Approximability of Optimization Problems through Adiabatic Quantum Computation. 2014 , 5, 1-113	
378	Combinatorial PCPs with Efficient Verifiers. 2014 , 23, 355-478	2
377	Hardness results for approximate pure Horn CNF formulae minimization. 2014 , 71, 327-363	4
376	A Simple Deterministic Reduction for the Gap Minimum Distance of Code Problem. 2014 , 60, 6636-6645	3
375	A Dynamic Programming Framework for Non-Preemptive Scheduling Problems on Multiple Machines [Extended Abstract]. 2015 ,	1
374	Stronger Methods of Making Quantum Interactive Proofs Perfectly Complete. 2015 , 44, 243-289	1
373	A combination of testability and decodability by tensor products. 2015 , 46, 572-598	10
372	A query efficient non-adaptive long code test with perfect completeness. 2015 , 47, 386-406	
371	Input-Oblivious Proof Systems and a Uniform Complexity Perspective on P/poly. 2015 , 7, 1-13	0

370	Computing with Colored Tangles. 2015 , 7, 1289-1332	3
369	Committee polyhedral separability: complexity and polynomial approximation. 2015 , 101, 231-251	3
368	On Power Splitting Games in Distributed Computation: The Case of Bitcoin Pooled Mining. 2015 ,	85
367	Quantum XOR Games. 2015 , 7, 1-43	13
366	Some applications of verifiable computation to biometric verification. 2015 ,	3
365	The commuting local Hamiltonian problem on locally expanding graphs is approximable in $\text{maths}^{\{\{NP\}\}}$. 2015 , 14, 83-101	5
364	Rank-one quantum games. 2015 , 24, 133-196	5
363	Hardness of Max-2Lin and Max-3Lin over Integers, Reals, and Large Cyclic Groups. 2015 , 7, 1-16	
362	Inapproximability of Minimum Vertex Cover on k -Uniform k -Partite Hypergraphs. 2015 , 29, 36-58	4
361	Verifying computations without reexecuting them. 2015 , 58, 74-84	71
360	Geppetto: Versatile Verifiable Computation. 2015 ,	89
359	Direct Sum Testing. 2015 ,	4
358	Polynomially Low Error PCPs with polyloglog n Queries via Modular Composition. 2015 ,	3
357	Quantum Locally Testable Codes. 2015 , 44, 1230-1262	8
356	A Multiprover Interactive Proof System for the Local Hamiltonian Problem. 2015 ,	10
355	The Computational Benefit of Correlated Instances. 2015 ,	2
354	Fast Proof Generation for Verifying Cloud Search. 2015 ,	
353	Delegating Computation. <i>Journal of the ACM</i> , 2015 , 62, 1-64	2 68

352	Shorter arithmetization of nondeterministic computations. 2015 , 600, 107-131	2
351	On Hardness of Approximating the Parameterized Clique Problem. 2016 ,	2
350	($\text{Pmathop{=}limits^{\{?}}\text{NP}$). 2016 , 1-122	3
349	A combinatorial characterization of smooth LTCs and applications. 2016 , 49, 280-307	
348	Linear game non-contextuality and Bell inequalities – graph-theoretic approach. 2016 , 18, 045020	5
347	High-rate locally-correctable and locally-testable codes with sub-polynomial query complexity. 2016 ,	8
346	A Verifiable System for Automated Face Identification. 2016 ,	
345	Query-Driven Maximum Quasi-Clique Search. 2016 ,	8
344	Encyclopedia of Algorithms. 2016 , 1057-1059	
343	How to Solve NP-Complete Problems. 2016 , 275-297	1
342	Progress in Cryptology – AFRICACRYPT 2016. 2016 ,	
341	Bounds on 2-query Locally Testable Codes with affine tests. 2016 , 116, 521-525	
340	Classical verification of quantum proofs. 2016 ,	10
339	Grundkurs Theoretische Informatik. 2016 ,	6
338	Three-Player Entangled XOR Games are NP-Hard to Approximate. 2016 , 45, 1007-1063	4
337	Can Almost Everybody be Almost Happy?. 2016 ,	3
336	Information Security Theory and Practice. 2016 ,	1
335	The Complexity of Fairness Through Equilibrium. 2016 , 4, 1-19	6

334	Candidate hard unique game. 2016,	4
333	Cryptography for Big Data Security. 2016, 241-287	8
332	Algebraic attacks against random local functions and their countermeasures. 2016,	22
331	Approximability of the d-dimensional Euclidean capacitated vehicle routing problem. 2016,	
330	Towards a PTAS for the generalized TSP in grid clusters. 2016,	4
329	An efficient instance hiding scheme. 2016,	
328	Combinatorial PCPs with Short Proofs. 2016, 25, 1-102	1
327	Encyclopedia of Algorithms. 2016, 1162-1167	2
326	Quantum Proofs. 2016, 11, 1-215	16
325	Product-State Approximations to Quantum States. 2016, 342, 47-80	10
324	Label Cover Instances with Large Girth and the Hardness of Approximating Basic k -Spanner. 2016, 12, 1-16	7
323	Improved Approximation Algorithms for Projection Games. 2017, 77, 555-594	0
322	An algebraic proof of the real number PCP theorem. 2017, 40, 34-77	2
321	Secure Collaborative Publicly Verifiable Computation. 2017, 5, 2479-2488	7
320	High-Rate Locally Correctable and Locally Testable Codes with Sub-Polynomial Query Complexity. <i>Journal of the ACM,</i> 2017, 64, 1-42	2 12
319	Quantum de Finetti Theorems Under Local Measurements with Applications. 2017, 353, 469-506	14
318	Proof and Argument Based Verifiable Computing. 2017, 13-22	0
317	Privately and Publicly Verifiable Computing Techniques. 2017,	6

316	On independent sets, 2-to-2 games, and Grassmann graphs. 2017,	16
315	New hardness results for routing on disjoint paths. 2017,	7
314	Zero Knowledge Protocols from Succinct Constraint Detection. 2017, 172-206	12
313	Low-degree test with polynomially small error. 2017, 26, 531-582	0
312	Sparse approximation is provably hard under coherent dictionaries. 2017, 84, 32-43	
311	Formation Potential Field for Trajectory Tracking Control of Multi-Agents in Constrained Space. 2017, 90, 2137-2151	16
310	Ligero. 2017,	131
309	Direct Sum Testing. 2017, 46, 1336-1369	3
308	Even 1 in Edge-Matching and Jigsaw Puzzles are Really Hard. 2017, 25, 682-694	3
307	. 2017,	5
306	Full Accounting for Verifiable Outsourcing. 2017,	23
305	. 2017,	16
304	Lower Bounds for Constant Query Affine-Invariant LCCs and LTCs. 2017, 9, 1-17	0
303	Almost-polynomial ratio ETH-hardness of approximating densest k-subgraph. 2017,	36
302	ETH Hardness for Densest-k-Subgraph with Perfect Completeness. 2017,	2
301	Compression of quantum multi-prover interactive proofs. 2017,	6
300	Non-interactive delegation and batch NP verification from standard computational assumptions. 2017,	22
299	Algebraic Attacks against Random Local Functions and Their Countermeasures. 2018, 47, 52-79	8

298	Bipartite discrimination of independently prepared quantum states as a counterexample to a parallel repetition conjecture. 2018 , 97,	1
297	Snkl: Somewhat Practical, Pretty Much Declarative Verifiable Computing in Haskell. 2018 , 36-52	1
296	Primitives towards verifiable computation: a survey. 2018 , 12, 451-478	5
295	Verifiable outsourcing of constrained nonlinear programming by particle swarm optimization in cloud. 2018 , 22, 3343-3355	2
294	Pseudorandom Sets in Grassmann Graph Have Near-Perfect Expansion. 2018 ,	7
293	Low-Degree Testing for Quantum States, and a Quantum Entangled Games PCP for QMA. 2018 ,	11
292	Complexity Theory. 2018 , 15, 3025-3080	
291	Engineering a Delegatable and Error-Tolerant Algorithm for Counting Small Subgraphs. 2018 , 184-198	0
290	Towards a proof of the 2-to-1 games conjecture?. 2018 ,	11
289	On the parameterized complexity of approximating dominating set. 2018 ,	5
288	Arya: Nearly Linear-Time Zero-Knowledge Proofs for Correct Program Execution. 2018 , 595-626	10
287	Verifiable Outsourced Computation with Full Delegation. 2018 , 270-287	2
286	The Maximum Clique and Vertex Coloring. 2018 , 1259-1289	
285	Black-Box Identity Testing of Depth-4 Multilinear Circuits. 2018 , 38, 1205-1238	1
284	Hardness of approximate nearest neighbor search. 2018 ,	15
283	Approximation Algorithms. 2018 , 423-469	
282	Inapproximability of Maximum Biclique Problems, Minimum k-Cut and Densest At-Least-k-Subgraph from the Small Set Expansion Hypothesis. 2018 , 11, 10	18
281	Local Testing of Lattices. 2018 , 32, 1265-1295	

280	Subvector Commitments with Application to Succinct Arguments. 2019 , 530-560	28
279	Scalable Zero Knowledge with No Trusted Setup. 2019 , 701-732	57
278	On the Parameterized Complexity of Approximating Dominating Set. <i>Journal of the ACM</i> , 2019 , 66, 1-38	2
277	Algebraic Theory of Promise Constraint Satisfaction Problems, First Steps. 2019 , 3-17	
276	Zero-Knowledge Proofs on Secret-Shared Data via Fully Linear PCPs. 2019 , 67-97	30
275	Quantum proof systems for iterated exponential time, and beyond. 2019 ,	4
274	Fundamentals of Computation Theory. 2019 ,	0
273	Secure and trusted partial grey-box verification. 2019 , 18, 677-700	
272	A nonlocal game for witnessing quantum networks. 2019 , 5,	9
271	Hardness of Approximation Between P and NP. 2019 ,	1
270	Towards dependable and trustworthy outsourced computing: A comprehensive survey and tutorial. 2019 , 131, 55-65	5
269	Incremental Proofs of Sequential Work. 2019 , 292-323	6
268	Aurora: Transparent Succinct Arguments for R1CS. 2019 , 103-128	96
267	The Constant Inapproximability of the Parameterized Dominating Set Problem. 2019 , 48, 513-533	4
266	A note on degree vs gap of Min-Rep Label Cover and improved inapproximability for connectivity problems. 2019 , 145, 24-29	
265	Non-black-box Simulation in the Fully Concurrent Setting, Revisited. 2019 , 32, 393-434	1
264	Semialgebraic Proofs and Efficient Algorithm Design. 2019 , 14, 1-221	5
263	Non-deterministic Quasi-Polynomial Time is Average-Case Hard for ACC Circuits. 2019 ,	8

262 Stochastic PCP vs. Randomness. **2019**,

261 NEEXP is Contained in MIP. **2019**,

6

260 . **2019**,

6

259 SETH vs Approximation. **2019**, 50, 57-76

7

258 Robust Multiplication-Based Tests for ReedMuller Codes. **2019**, 65, 184-197

0

257 Probably bounded suboptimal heuristic search. **2019**, 267, 39-57

2

256 The maximum independent union of cliques problem: complexity and exact approaches. **2020**, 76, 545-562

6

255 The Chinese deliveryman problem. **2020**, 18, 341-356

254 A Blockchain-based Decentralized Electronic Marketplace for Computing Resources. **2020**, 1, 1

1

253 From Gap-Exponential Time Hypothesis to Fixed Parameter Tractable Inapproximability: Clique, Dominating Set, and More. **2020**, 49, 772-810

2

252 Interactive Verifiable Polynomial Evaluation. **2020**,

251 Local decoding and testing of polynomials over grids. **2020**, 57, 658-694

0

250 Generalized XOR non-locality games with graph description on a square lattice. **2020**, 53, 265302

249 Zilch: A Framework for Deploying Transparent Zero-Knowledge Proofs. **2021**, 16, 3269-3284

3

248 A PCP of Proximity for Real Algebraic Polynomials. **2021**, 264-282

247 Efficient approximation of the metric CVRP in spaces of fixed doubling dimension. **2021**, 80, 679

1

246 Smooth and Strong PCPs. **2021**, 30, 1

1

245 Interactive Verifiable Polynomial Evaluation. **2021**, 2, 317-325

1

244	Off-chain Execution and Verification of Computationally Intensive Smart Contracts. 2021 ,		1
243	Warm-starting quantum optimization. 5, 479		16
242	Constant approximating k-clique is w[1]-hard. 2021 ,		1
241	Optimal inapproximability of satisfiable k-LIN over non-abelian groups. 2021 ,		1
240	Erasures versus errors in local decoding and property testing. 2021 , 59, 640		1
239	Algebraic Approach to Promise Constraint Satisfaction. <i>Journal of the ACM</i> , 2021 , 68, 1-66	2	2
238	The Complexity of Promise SAT on Non-Boolean Domains. 2021 , 13, 1-20		2
237	The Projection Games Conjecture and the hardness of approximation of super-SAT and related problems. 2022 , 123, 186-201		2
236	High-entropy dual functions over finite fields and locally decodable codes. 2021 , 9,		1
235	Subquadratic SNARGs in the Random Oracle Model. 2021 , 711-741		6
234	Inapproximability of Combinatorial Optimization Problems. 381-434		3
233	Inapproximability of Combinatorial Optimization Problems. 381-434		1
232	Tolerant Locally Testable Codes. 2005 , 306-317		15
231	The Tensor Product of Two Codes Is Not Necessarily Robustly Testable. 2005 , 472-481		20
230	Gap Amplification in PCPs Using Lazy Random Walks. 2006 , 96-107		2
229	On Pseudorandom Generators with Linear Stretch in NC0. 2006 , 260-271		12
228	Robust Local Testability of Tensor Products of LDPC Codes. 2006 , 304-315		25
227	On Parameterized Approximability. 2006 , 109-120		31

226	Some Results on Derandomization. 2003 , 212-222	6
225	On the Hardness of Approximating NP Witnesses. 2000 , 120-131	6
224	Clique Is Hard to Approximate within $n^{1-o(1)}$. 2000 , 2-12	20
223	Inapproximability Results for Equations over Finite Groups. 2002 , 73-84	2
222	A Probabilistic-Time Hierarchy Theorem for Slightly Non-uniform Algorithms. 2002 , 194-208	15
221	Codes and Graphs. 2000 , 1-12	5
220	Approximation Algorithms for MAX 4-SAT and Rounding Procedures for Semidefinite Programs. 1999 , 202-217	1
219	Computational Complexity. 2012 , 2361-2387	6
218	Distance-Based Clique Relaxations in Networks: s-Clique and s-Club. 2013 , 149-174	9
217	Property Testing in Massive Graphs. 2002 , 123-147	7
216	Succinct Arguments in the Quantum Random Oracle Model. 2019 , 1-29	20
215	Linear-Size Constant-Query IOPs for Delegating Computation. 2019 , 494-521	11
214	An Extension of the Das and Mathieu QPTAS to the Case of Polylog Capacity Constrained CVRP in Metric Spaces of a Fixed Doubling Dimension. 2020 , 49-68	3
213	Spartan: Efficient and General-Purpose zkSNARKs Without Trusted Setup. 2020 , 704-737	45
212	Barriers for Succinct Arguments in the Random Oracle Model. 2020 , 47-76	5
211	The Computational Complexity of Density Functional Theory. 2014 , 245-260	1
210	Testing Low Degree Trigonometric Polynomials. 2014 , 77-96	2
209	Verifiable Computation in Multiparty Protocols with Honest Majority. 2014 , 146-161	5

208	Delegating Biometric Authentication with the Sumcheck Protocol. 2016 , 236-244	1
207	Computational Integrity with a Public Random String from Quasi-Linear PCPs. 2017 , 551-579	26
206	All or Nothing: Toward a Promise Problem Dichotomy for Constraint Problems. 2017 , 139-156	1
205	Verifiable Document Redacting. 2017 , 334-351	1
204	Robust Locally Testable Codes and Products of Codes. 2004 , 286-297	9
203	Transparent Long Proofs: A First PCP Theorem for $(\text{mbox{NP}}_{\mathbb{R}})$. 2004 , 959-970	2
202	Distribution-Free Property Testing. 2003 , 302-317	14
201	Succinct NP Proofs from an Extractability Assumption. 2008 , 175-185	29
200	Asymptotically Optimal Hitting Sets Against Polynomials. 2008 , 345-356	4
199	Sound 3-Query PCPPs Are Long. 2008 , 686-697	4
198	Diagonal Circuit Identity Testing and Lower Bounds. 2008 , 60-71	31
197	Interactive PCP. 2008 , 536-547	35
196	Hardness of Embedding Metric Spaces of Equal Size. 2007 , 218-227	3
195	On Locally Decodable Codes, Self-correctable Codes, and t -Private PIR. 2007 , 311-325	10
194	On Approximating Minimum Infrequent and Maximum Frequent Sets. 2007 , 68-77	3
193	The Complexity of Zero Knowledge. 2007 , 52-70	1
192	Incrementally Verifiable Computation or Proofs of Knowledge Imply Time/Space Efficiency. 2008 , 1-18	56
191	Sub-linear Zero-Knowledge Argument for Correctness of a Shuffle. 2008 , 379-396	46

190	Complexity and Algorithms for Well-Structured k-SAT Instances. 2008 , 105-118	7
189	Cube Attacks on Tweakable Black Box Polynomials. 2009 , 278-299	187
188	Best-Order Streaming Model. 2009 , 178-191	4
187	Towards a Study of Low-Complexity Graphs. 2009 , 119-131	7
186	Linear Algebra with Sub-linear Zero-Knowledge Arguments. 2009 , 192-208	51
185	Probabilistically Checkable Arguments. 2009 , 143-159	31
184	Maximum Quadratic Assignment Problem: Reduction from Maximum Label Cover and LP-Based Approximation Algorithm. 2010 , 594-604	4
183	Interactive Locking, Zero-Knowledge PCPs, and Unconditional Cryptography. 2010 , 173-190	30
182	Short Locally Testable Codes and Proofs: A Survey in Two Parts. 2010 , 65-104	5
181	Short Non-interactive Zero-Knowledge Proofs. 2010 , 341-358	27
180	Using the FGLSS-Reduction to Prove Inapproximability Results for Minimum Vertex Cover in Hypergraphs. 2011 , 88-97	2
179	Bravely, Moderately: A Common Theme in Four Recent Works. 2011 , 373-389	2
178	Randomness and Computation. 2011 , 507-539	1
177	On Sums of Locally Testable Affine Invariant Properties. 2011 , 400-411	10
176	Limits on the Rate of Locally Testable Affine-Invariant Codes. 2011 , 412-423	8
175	Almost Transparent Short Proofs for NPR. 2011 , 41-52	4
174	Efficient Zero-Knowledge Arguments from Two-Tiered Homomorphic Commitments. 2011 , 431-448	27
173	Secure Two-Party Computation with Low Communication. 2012 , 54-74	61

172	On Efficient Zero-Knowledge PCPs. 2012 , 151-168	20
171	Label Cover Instances with Large Girth and the Hardness of Approximating Basic k-Spanner. 2012 , 290-301	0
170	The Projection Games Conjecture and the NP-Hardness of In n-Approximating Set-Cover. 2012 , 276-287	15
169	A Combination of Testability and Decodability by Tensor Products. 2012 , 651-662	5
168	Languages with Efficient Zero-Knowledge PCPs are in SZK. 2013 , 297-314	5
167	Improved Hardness of Approximating Chromatic Number. 2013 , 233-243	6
166	On the NP-Hardness of Approximating Ordering Constraint Satisfaction Problems. 2013 , 26-41	1
165	Probabilistically Checkable Proofs of Proximity with Zero-Knowledge. 2014 , 121-145	12
164	Strong Inapproximability of the Shortest Reset Word. 2015 , 243-255	8
163	Quasi-Linear Size Zero Knowledge from Linear-Algebraic PCPs. 2016 , 33-64	17
162	Interactive Oracle Proofs. 2016 , 31-60	86
161	The Nature of Computation. 2011 ,	142
160	Non-Interactive Zero-Knowledge for Blockchain: A Survey. 2020 , 8, 227945-227961	12
159	Settling the Complexity of Computing Approximate Two-Player Nash Equilibria. 2016 ,	20
158	. 2020 ,	3
157	Quantum isomorphism is equivalent to equality of homomorphism counts from planar graphs. 2020	6
156	. 2020 ,	2
155	SIGACT news complexity theory column 52. 2006 , 37, 36-54	4

154	PCPs with small soundness error. 2008 , 39, 41-57	5
153	Approximation Algorithms and Hardness of the k-Route Cut Problem. 2016 , 12, 1-40	3
152	Bypassing UGC from Some Optimal Geometric Inapproximability Results. 2016 , 12, 1-25	2
151	Constant Rate PCPs for Circuit-SAT with Sublinear Query Complexity. <i>Journal of the ACM</i> , 2016 , 63, 1-57 2	6
150	Complete Derandomization of Identity Testing and Reconstruction of Read-Once Formulas. 2018 , 10, 1-11	2
149	Strong average-case lower bounds from non-trivial derandomization. 2020 ,	5
148	Ligero++: A New Optimized Sublinear IOP. 2020 ,	19
147	Matrix product operators and central elements: classical description of a quantum state. 2012 ,	3
146	Quantum Low-Density Parity-Check Codes. 2021 , 2,	8
145	Provably Safe Artificial General Intelligence via Interactive Proofs. 2021 , 6, 83	
144	Approximation Algorithms. 2002 , 361-396	
143	Computational Complexity Since 1980. 2005 , 19-47	
142	Note bibliografiche. 2008 , 533-601	
141	A Hypergraph Dictatorship Test with Perfect Completeness. 2009 , 448-461	3
140	Query-Efficient Dictatorship Testing with Perfect Completeness. 2010 , 276-279	1
139	Composition of Low-Error 2-Query PCPs Using Decodable PCPs. 2010 , 280-288	1
138	Limitation on the Rate of Families of Locally Testable Codes. 2010 , 13-31	1
137	Extremal Problems for Sparse Graphs. 2010 , 447-490	

136	Guest column. 2010 , 40, 46-61	1
135	Data Stream Algorithms for Codeword Testing. 2010 , 629-640	5
134	Algorithms d'approximation. 2010 , 413-461	
133	On Obfuscating Programs with Tamper-proof Hardware. 2011 , 487-502	
132	Inapproximability of b-Matching in k-Uniform Hypergraphs. 2011 , 57-69	1
131	Satisfying Degree-d Equations over $GF[2]^n$. 2011 , 242-253	2
130	Algoritmi approssimati. 2011 , 415-462	
129	Short Locally Testable Codes and Proofs. 2011 , 333-372	0
128	A Simple Deterministic Reduction for the Gap Minimum Distance of Code Problem. 2011 , 474-485	2
127	Nearly Optimal NP-Hardness of Vertex Cover on k-Uniform k-Partite Hypergraphs. 2011 , 327-338	1
126	Combinatorial Algorithms for Distributed Graph Coloring. 2011 , 66-81	
125	Complexity Theory. 2011 , 241-267	1
124	Symmetric Functions Capture General Functions. 2011 , 436-447	
123	Characterizations of Locally Testable Linear- and Affine-Invariant Families. 2011 , 467-478	
122	When Formulas Freeze: Phase Transitions in Computation. 2011 , 723-818	
121	The Grand Unified Theory of Computation. 2011 , 223-299	
120	Interaction and Pseudorandomness. 2011 , 506-562	
119	Memory, Paths, and Games. 2011 , 300-350	

118 The Deep Question: P vs. NP. **2011**, 173-222

117 The Basics. **2011**, 15-40

116 Needles in a Haystack: the Class NP. **2011**, 94-126

115 Counting, Sampling, and Statistical Physics. **2011**, 651-722

114 Insights and Algorithms. **2011**, 41-93

113 Prologue. **2011**, 1-14

112 Optimization and Approximation. **2011**, 351-449

111 Quantum Computation. **2011**, 819-910

110 Randomized Algorithms. **2011**, 450-505

109 Who is the Hardest One of All? NP-Completeness. **2011**, 127-172

108 Approximation algorithms. **2012**, 437-484

107 Principles of Network Computing. **2012**, 30-39

106 Probabilistic Verification and Non-approximability. **2013**, 2625-2683

105 Improved Approximation Algorithms for Projection Games. **2013**, 683-694

104 Randomness-Efficient Curve Samplers. **2013**, 575-590

103 On Pseudorandom Generators with Linear Stretch in NC0. **2014**, 123-146

102 Introduction. **2014**, 1-9

101 Cryptography and Reliable Interaction. **1987**, 359-379

- 100 Inefficiency and Intractability. **1987**, 181-216
- 99 Linear Consistency Testing. **1999**, 109-120 1
- 98 General Bibliography. 707-765
- 97 Simultaneous Approximation of Constraint Satisfaction Problems. **2015**, 193-205
- 96 An Algebraic Proof of the Real Number PCP Theorem. **2015**, 50-61
- 95 Encyclopedia of Algorithms. **2015**, 1-5
- 94 Interactive Proofs with Approximately Commuting Provers. **2015**, 355-366
- 93 QMA with Subset State Witnesses. **2015**, 163-174
- 92 Parallel Repetition of Two-Prover One-Round Games: An Exposition. **2015**, 21, 289-306
- 91 On the Complexity of the Minimum Independent Set Partition Problem. **2015**, 121-132
- 90 Encyclopedia of Algorithms. **2016**, 1149-1152
- 89 Certificate Validation in Secure Computation and Its Use in Verifiable Linear Programming. **2016**, 265-284 5
- 88 Guest Column. **2016**, 47, 46-66 3
- 87 Succinct Spooky Free Compilers Are Not Black Box Sound. **2017**, 159-180
- 86 No-signaling Linear PCPs. **2018**, 67-97 1
- 85 The Maximum Clique and Vertex Coloring. **2018**, 1-31
- 84 Approximation algorithms. **2018**, 449-497
- 83 Some Estimated Likelihoods for Computational Complexity. **2019**, 9-26

82 Authenticated LSM Trees with Minimal Trust. **2019**, 454-471

81 PPAD-hardness of approximation. **2019**,

80 The Frontier of Intractability. **2019**,

79 2-player approximate Nash equilibrium. **2019**,

78 CourseMatch. **2019**,

77 The generalized circuit problem. **2019**,

76 References. **2019**,

75 Preliminaries. **2019**,

74 Communication complexity of approximate Nash equilibrium. **2019**,

73 Many-player games. **2019**,

72 Signaling. **2019**,

71 Brouwer's fixed point. **2019**,

70 VC and Littlestone's dimensions. **2019**,

69 Bayesian Nash equilibrium. **2019**,

68 Market equilibrium. **2019**,

67 Preface. **2019**,

66 Densest k-subgraph. **2019**,

65 Birthday Repetition. **2019**,

- 64 Community detection. **2019**,
- 63 Sliding Scale Conjectures in PCP. **2019**, 50, 25-33
- 62 Rational Delegation Computing Using Information Theory and Game Theory Approach. **2020**, 669-680 0
- 61 Multi-matrix verifiable computation. **2021**, 24, 475-488
- 60 AND testing and robust judgement aggregation. **2020**, 0
- 59 Verifiable state machines. **2020**, 54, 40-46 2
- 58 New Hardness Results for Routing on Disjoint Paths. STOC17-189-STOC17-237 1
- 57 Tight Security Bounds for Micali's SNARGs. **2021**, 401-434 3
- 56 Testing Linearity against Non-signaling Strategies. **2020**, 12, 1-51
- 55 Hierarchies Based on NP. **2005**, 171-259
- 54 Other Public-Key Cryptosystems and Protocols. **2005**, 361-412
- 53 Approximation Algorithms. **2006**, 377-413
- 52 Kryptografie und zuverlässige Interaktion. **2006**, 383-406
- 51 Ineffizienz und Unhandhabbarkeit. **2006**, 191-230
- 50 Approximation Algorithms. **2008**, 393-437
- 49 Complexity Upper Bounds for Classical Locally Random Reductions Using a Quantum Computational Argument. **2007**, 548-558
- 48 Approximationsalgorithmen. **2008**, 423-471
- 47 Local Proofs Approaching the Witness Length [Extended Abstract]. **2020**, 10

46	Nonlocal Games with Noisy Maximally Entangled States are Decidable. 2021 , 50, 1800-1891	
45	Verifiable Computing Using Computation Fingerprints Within FHE. 2021 ,	0
44	On regularity of Max-CSPs and Min-CSPs. 2022 , 176, 106244	
43	Verifiable Isogeny Walks: Towards an Isogeny-Based Postquantum VDF. 2022 , 441-460	5
42	Quantum soundness of testing tensor codes. 2022 ,	
41	Post-Quantum Succinct Arguments: Breaking the Quantum Rewinding Barrier. 2022 ,	3
40	An Invariance Principle for the Multi-slice, with Applications. 2022 ,	5
39	Improved Approximation Algorithms for Bounded-Degree Local Hamiltonians.. 2021 , 127, 250502	3
38	Efficient verifiable computation over quotient polynomial rings.	
37	Strong Average-Case Circuit Lower Bounds from Nontrivial Derandomization. STOC20-115-STOC20-173	0
36	Succinct Non-Interactive Arguments via Linear Interactive Proofs. 2022 , 35, 1	1
35	Zero-Knowledge IOPs with Linear-Time Prover and Polylogarithmic-Time Verifier. 2022 , 275-304	3
34	A PCP Theorem for Interactive Proofs and Applications. 2022 , 64-94	1
33	Real-Time, Constant-Space, Constant-Randomness Verifiers. 2022 , 212-224	
32	Theoretische Grenzen. 2022 , 57-84	
31	Preprocessing succinct non-interactive arguments for rank-1 constraint satisfiability from holographic proofs. 2022 ,	
30	Locally testable codes with constant rate, distance, and locality. 2022 ,	0
29	On approximability of satisfiable k -CSPs: I. 2022 ,	5

28	An invitation to the promise constraint satisfaction problem. 2022 , 9, 30-59	0
27	NP-Hard Problems and Approximation Algorithms. 2022 , 199-257	0
26	A Toolbox for Barriers on Interactive Oracle Proofs. 2022 , 447-466	0
25	Scalable and Transparent Proofs over All Large Fields, via Elliptic Curves. 2022 , 467-496	2
24	Interactive Proofs for Rounding Arithmetic. 2022 , 10, 122706-122725	0
23	Monotonicity Testing and Directed Isoperimetric Inequalities. 2022 ,	0
22	Introduction. 2022 ,	0
21	On Monotonicity Testing and the 2-to-2 Games Conjecture. 2022 ,	0
20	Bibliography. 2022 ,	0
19	Conclusions and Open Problems. 2022 ,	0
18	NP-hardness of 2-to-2 Games. 2022 ,	0
17	Author Biographies/Index. 2022 ,	0
16	The Biased Long Code and Hardness of Vertex Cover. 2022 ,	0
15	Pseudo-random Sets in the Grassmann Graph Have Near-Perfect Expansion. 2022 ,	0
14	Acknowledgements. 2022 ,	0
13	Relaxed Locally Correctable Codes with Nearly-Linear Block Length and Constant Query Complexity. 2022 , 51, 1839-1865	0
12	Mathematical Tools. 2011 , 911-943	0
11	Copyright Page. 2011 , iv-iv	0

10	Figure Credits. 2011 , xii-xiv	o
9	Dedication. 2011 , v-v	o
8	Preface. 2011 , xv-xvii	o
7	On the Range Avoidance Problem for Circuits. 2022 ,	o
6	CLAP: A New Algorithm for Promise CSPs. 2023 , 52, 1-37	o
5	No-Signaling Linear PCPs. 2023 , 36,	o
4	Max-3-Lin Over Non-abelian Groups with Universal Factor Graphs.	o
3	Commitments to Quantum States. 2023 ,	o
2	NP-Hardness of Approximating Meta-Complexity: A Cryptographic Approach. 2023 ,	o
1	Quantum Free Games. 2023 ,	o