

Alexander Russell

List of Publications by Year in descending order

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75
papers

2,295
citations

471061

17
h-index

276539

41
g-index

78
all docs

78
docs citations

78
times ranked

1404
citing authors

#	ARTICLE	IF	CITATIONS
1	Ouroboros: A Provably Secure Proof-of-Stake Blockchain Protocol. Lecture Notes in Computer Science, 2017, , 357-388.	1.0	665
2	Ouroboros Praos: An Adaptively-Secure, Semi-synchronous Proof-of-Stake Blockchain. Lecture Notes in Computer Science, 2018, , 66-98.	1.0	203
3	Ouroboros Genesis. , 2018, , .		148
4	The Hidden Subgroup Problem and Quantum Computation Using Group Representations. SIAM Journal on Computing, 2003, 32, 916-934.	0.8	85
5	Quantum random walk with Rydberg atoms in an optical lattice. New Journal of Physics, 2006, 8, 156-156.	1.2	80
6	Quantum algorithms for Simon's problem over nonabelian groups. ACM Transactions on Algorithms, 2009, 6, 1-15.	0.9	53
7	Joint Modeling of Heterogeneous Sensing Data for Depression Assessment via Multi-task Learning. , 2018, 2, 1-21.		53
8	Limitations of quantum coset states for graph isomorphism. , 2006, , .		52
9	Normal subgroup reconstruction and quantum computation using group representations. , 2000, , .		50
10	Generic quantum Fourier transforms. ACM Transactions on Algorithms, 2006, 2, 707-723.	0.9	48
11	Decoherence in quantum walks on the hypercube. Physical Review A, 2005, 72, .	1.0	46
12	McEliece and Niederreiter Cryptosystems That Resist Quantum Fourier Sampling Attacks. Lecture Notes in Computer Science, 2011, , 761-779.	1.0	46
13	The Complexity of Solving Equations over Finite Groups. Information and Computation, 2002, 178, 253-262.	0.5	45
14	Cryptography: Clipping the Power of Kleptographic Attacks. Lecture Notes in Computer Science, 2016, , 34-64.	1.0	41
15	Multi-view Bi-clustering to Identify Smartphone Sensing Features Indicative of Depression. , 2016, , .		40
16	On the impossibility of a quantum sieve algorithm for graph isomorphism. , 2007, , .		37
17	The Power of Strong Fourier Sampling: Quantum Algorithms for Affine Groups and Hidden Shifts. SIAM Journal on Computing, 2007, 37, 938-958.	0.8	35
18	Neighbor discovery in wireless networks with multipacket reception. , 2011, , .		32

#	ARTICLE	IF	CITATIONS
19	Perfect Information Leader Election in $\log^*n+O(1)$ Rounds. Journal of Computer and System Sciences, 2001, 63, 612-626.	0.9	30
20	Quantum-Secure Symmetric-Key Cryptography Based on Hidden Shifts. Lecture Notes in Computer Science, 2017, , 65-93.	1.0	30
21	Deterministic Blind Rendezvous in Cognitive Radio Networks. , 2014, , .		28
22	Large-scale Automatic Depression Screening Using Meta-data from WiFi Infrastructure. , 2018, 2, 1-27.		27
23	Lower Bounds for Leader Election and Collective Coin-Flipping in the Perfect Information Model. SIAM Journal on Computing, 2002, 31, 1645-1662.	0.8	21
24	Neighbor Discovery in Wireless Networks with Multipacket Reception. IEEE Transactions on Parallel and Distributed Systems, 2015, 26, 1984-1998.	4.0	21
25	Quantum and Randomized Lower Bounds for Local Search on Vertex-Transitive Graphs. Lecture Notes in Computer Science, 2008, , 385-401.	1.0	21
26	A critical look at experimental evaluations of EBL. Machine Learning, 1991, 6, 183-195.	3.4	19
27	Automatic depression prediction using Internet traffic characteristics on smartphones. Smart Health, 2020, 18, 100137.	2.0	18
28	The Complexity of Solving Equations over Finite Groups. Information and Computation, 2002, 178, 253-262.	0.5	16
29	The complexity of synchronous iterative Do-All with crashes. Distributed Computing, 2004, 17, 47-63.	0.7	16
30	The Symmetric Group Defies Strong Fourier Sampling. SIAM Journal on Computing, 2008, 37, 1842-1864.	0.8	16
31	Work-Competitive Scheduling for Cooperative Computing with Dynamic Groups. SIAM Journal on Computing, 2005, 34, 848-862.	0.8	15
32	Limitations of quantum coset states for graph isomorphism. Journal of the ACM, 2010, 57, 1-33.	1.8	15
33	Modeling time and topology for animation and visualization with examples on parametric geometry. Theoretical Computer Science, 2008, 405, 41-49.	0.5	14
34	Correcting Subverted Random Oracles. Lecture Notes in Computer Science, 2018, , 241-271.	1.0	14
35	Let a Non-barking Watchdog Bite: Cliptographic Signatures with an Offline Watchdog. Lecture Notes in Computer Science, 2019, , 221-251.	1.0	14
36	Distributed Cooperation During the Absence of Communication. Lecture Notes in Computer Science, 2000, , 119-133.	1.0	14

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37	Inapproximability results for equations over finite groups. Theoretical Computer Science, 2004, 312, 17-45.	0.5	13
38	Small-Bias Sets for Nonabelian Groups. Lecture Notes in Computer Science, 2013, , 436-451.	1.0	11
39	The Do-All problem with Byzantine processor failures. Theoretical Computer Science, 2005, 333, 433-454.	0.5	10
40	Distributed scheduling for disconnected cooperation. Distributed Computing, 2006, 18, 409-420.	0.7	10
41	Data Migration in Heterogeneous Storage Systems. , 2011, , .		10
42	Approximate Representations, Approximate Homomorphisms, and Low-Dimensional Embeddings of Groups. SIAM Journal on Discrete Mathematics, 2015, 29, 182-197.	0.4	9
43	Efficient Steganography with Provable Security Guarantees. Lecture Notes in Computer Science, 2005, , 118-130.	1.0	9
44	Quantum Fourier Transforms and the Complexity of Link Invariants for Quantum Doubles of Finite Groups. Communications in Mathematical Physics, 2015, 334, 743-777.	1.0	8
45	Complexity Bounds on General Hard-Core Predicates. Journal of Cryptology, 2001, 14, 177-195.	2.1	7
46	An Entropic Proof of Chang's Inequality. SIAM Journal on Discrete Mathematics, 2014, 28, 173-176.	0.4	7
47	Fusing location data for depression prediction. , 2017, , .		7
48	Uncertainty principles for compact groups. Illinois Journal of Mathematics, 2008, 52, .	0.1	7
49	Optimal scheduling for disconnected cooperation. , 2001, , .		6
50	Tampering with Special Purpose Trusted Computing Devices: A Case Study in Optical Scan E-Voting. , 2007, , .		6
51	Asynchronous Neighbor Discovery on Duty-Cycled Mobile Devices: Models and Schedules. IEEE Transactions on Wireless Communications, 2020, 19, 5204-5217.	6.1	6
52	Taking total control of voting systems. , 2009, , .		5
53	Integrity of electronic voting systems. , 2012, , .		5
54	High Availability for VM Placement and a Stochastic Model for Multiple Knapsack. , 2017, , .		5

#	ARTICLE	IF	CITATIONS
55	More the Merrier: Neighbor Discovery on Duty-Cycled Mobile Devices in Group Settings. IEEE Transactions on Wireless Communications, 2022, 21, 4754-4768.	6.1	5
56	On the Impossibility of a Quantum Sieve Algorithm for Graph Isomorphism. SIAM Journal on Computing, 2010, 39, 2377-2396.	0.8	4
57	A One-Time Stegosystem and Applications to Efficient Covert Communication. Journal of Cryptology, 2014, 27, 23-44.	2.1	4
58	Topological Neighborhoods for Spline Curves: Practice & Theory. Lecture Notes in Computer Science, 2008, , 149-161.	1.0	4
59	The chilean highway problem. Theoretical Computer Science, 2004, 326, 329-342.	0.5	3
60	Approximating the Permanent via Nonabelian Determinants. SIAM Journal on Computing, 2012, 41, 332-355.	0.8	3
61	Dealing with undependable workers in decentralized network supercomputing. Theoretical Computer Science, 2015, 561, 96-112.	0.5	3
62	Codes, lower bounds, and phase transitions in the symmetric rendezvous problem. Random Structures and Algorithms, 2016, 49, 742-765.	0.6	3
63	Grant Report on SCH: Personalized Depression Treatment Supported by Mobile Sensor Analytics. Journal of Psychiatry and Brain Science, 2020, 5, .	0.3	3
64	Spectral Concentration of Positive Functions on Compact Groups. Journal of Fourier Analysis and Applications, 2011, 17, 355-373.	0.5	2
65	An ergodic theorem for read-once non-uniform deterministic finite automata. Information Processing Letters, 2000, 73, 23-28.	0.4	1
66	FAILURE-SENSITIVE ANALYSIS OF PARALLEL ALGORITHMS WITH CONTROLLED MEMORY ACCESS CONCURRENCY. Parallel Processing Letters, 2007, 17, 153-168.	0.4	1
67	Randomized Work-Competitive Scheduling for Cooperative Computing on k-partite Task Graphs. , 2008, , .		1
68	Asynchronous Adaptive Task Allocation. , 2015, , .		1
69	Group representations that resist random sampling. Random Structures and Algorithms, 2015, 47, 605-614.	0.6	1
70	The relativized relationship between probabilistically checkable debate systems, IP and PSPACE. Information Processing Letters, 1995, 53, 61-68.	0.4	0
71	A Graph Integral Formulation of the Circuit Partition Polynomial. Combinatorics Probability and Computing, 2011, 20, 911-920.	0.8	0
72	Online Metric Tracking and Smoothing. Algorithmica, 2014, 68, 133-151.	1.0	0

#	ARTICLE	IF	CITATIONS
73	Optimal ϵ -Biased Sets with Just a Little Randomness. SIAM Journal on Discrete Mathematics, 2015, 29, 1303-1311.	0.4	0
74	Work-Competitive Scheduling on Task Dependency Graphs. Parallel Processing Letters, 2015, 25, 1550001.	0.4	0
75	Tampering with Special Purpose Trusted Computing Devices: A Case Study in Optical Scan E-Voting. Proceedings of the Computer Security Applications Conference, 2007, , .	0.0	0