Alexander Russell

List of Publications by Year
in descending order

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	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
2	Automatic depression prediction using Internet traffic characteristics on smartphones. Smart Health, 2020, 18, 100137.	2.0	18
3	Asynchronous Neighbor Discovery on Duty-Cycled Mobile Devices: Models and Schedules. IEEE Transactions on Wireless Communications, 2020, 19, 5204-5217.	6.1	6
4	Grant Report on SCH: Personalized Depression Treatment Supported by Mobile Sensor Analytics. Journal of Psychiatry and Brain Science, 2020, 5, .	0.3	3
5	Let a Non-barking Watchdog Bite: Cliptographic Signatures with an Offline Watchdog. Lecture Notes in Computer Science, 2019, , 221-251.	1.0	14
6	Joint Modeling of Heterogeneous Sensing Data for Depression Assessment via Multi-task Learning. , 2018, 2, 1-21.		53
7	Ouroboros Praos: An Adaptively-Secure, Semi-synchronous Proof-of-Stake Blockchain. Lecture Notes in Computer Science, 2018, , 66-98.	1.0	203
8	Large-scale Automatic Depression Screening Using Meta-data from WiFi Infrastructure. , 2018, 2, 1-27.		27
9	Ouroboros Genesis. , 2018, , .		148
10	Correcting Subverted Random Oracles. Lecture Notes in Computer Science, 2018, , 241-271.	1.0	14
11	Quantum-Secure Symmetric-Key Cryptography Based on Hidden Shifts. Lecture Notes in Computer Science, 2017, , 65-93.	1.0	30
12	Ouroboros: A Provably Secure Proof-of-Stake Blockchain Protocol. Lecture Notes in Computer Science, 2017, , 357-388.	1.0	665
13	High Availability for VM Placement and a Stochastic Model for Multiple Knapsack. , 2017, , .		5
14	Fusing location data for depression prediction. , 2017, , .		7
15	Multi-view Bi-clustering to Identify Smartphone Sensing Features Indicative of Depression. , 2016, , .		40
16	Codes, lower bounds, and phase transitions in the symmetric rendezvous problem. Random Structures and Algorithms, 2016, 49, 742-765.	0.6	3
17	Cliptography: Clipping the Power of Kleptographic Attacks. Lecture Notes in Computer Science, 2016, , 34-64.	1.0	41
18	Asynchronous Adaptive Task Allocation. , 2015, , .		1

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19	Optimal ε-Biased Sets with Just a Little Randomness. SIAM Journal on Discrete Mathematics, 2015, 29, 1303-1311.	0.4	0
20	Work-Competitive Scheduling on Task Dependency Graphs. Parallel Processing Letters, 2015, 25, 1550001.	0.4	0
21	Group representations that resist random sampling. Random Structures and Algorithms, 2015, 47, 605-614.	0.6	1
22	Approximate Representations, Approximate Homomorphisms, and Low-Dimensional Embeddings of Groups. SIAM Journal on Discrete Mathematics, 2015, 29, 182-197.	0.4	9
23	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
24	Neighbor Discovery in Wireless Networks with Multipacket Reception. IEEE Transactions on Parallel and Distributed Systems, 2015, 26, 1984-1998.	4.0	21
25	Dealing with undependable workers in decentralized network supercomputing. Theoretical Computer Science, 2015, 561, 96-112.	0.5	3
26	Deterministic Blind Rendezvous in Cognitive Radio Networks. , 2014, , .		28
27	An Entropic Proof of Chang's Inequality. SIAM Journal on Discrete Mathematics, 2014, 28, 173-176.	0.4	7
28	A One-Time Stegosystem and Applications to Efficient Covert Communication. Journal of Cryptology, 2014, 27, 23-44.	2.1	4
29	Online Metric Tracking and Smoothing. Algorithmica, 2014, 68, 133-151.	1.0	0
30	Small-Bias Sets for Nonabelian Groups. Lecture Notes in Computer Science, 2013, , 436-451.	1.0	11
31	Integrity of electronic voting systems. , 2012, , .		5
32	Approximating the Permanent via Nonabelian Determinants. SIAM Journal on Computing, 2012, 41, 332-355.	0.8	3
33	Neighbor discovery in wireless networks with multipacket reception. , 2011, , .		32
34	Data Migration in Heterogeneous Storage Systems. , 2011, , .		10
35	A Graph Integral Formulation of the Circuit Partition Polynomial. Combinatorics Probability and Computing, 2011, 20, 911-920.	0.8	0
36	McEliece and Niederreiter Cryptosystems That Resist Quantum Fourier Sampling Attacks. Lecture Notes in Computer Science, 2011, , 761-779.	1.0	46

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37	Spectral Concentration of Positive Functions onÂCompact Groups. Journal of Fourier Analysis and Applications, 2011, 17, 355-373.	0.5	2
38	Limitations of quantum coset states for graph isomorphism. Journal of the ACM, 2010, 57, 1-33.	1.8	15
39	On the Impossibility of a Quantum Sieve Algorithm for Graph Isomorphism. SIAM Journal on Computing, 2010, 39, 2377-2396.	0.8	4
40	Taking total control of voting systems. , 2009, , .		5
41	Quantum algorithms for Simon's problem over nonabelian groups. ACM Transactions on Algorithms, 2009, 6, 1-15.	0.9	53
42	Modeling time and topology for animation and visualization with examples on parametric geometry. Theoretical Computer Science, 2008, 405, 41-49.	0.5	14
43	The Symmetric Group Defies Strong Fourier Sampling. SIAM Journal on Computing, 2008, 37, 1842-1864.	0.8	16
44	Randomized Work-Competitive Scheduling for Cooperative Computing on k-partite Task Graphs. , 2008, , .		1
45	Uncertainty principles for compact groups. Illinois Journal of Mathematics, 2008, 52, .	0.1	7
46	Quantum and Randomized Lower Bounds for Local Search on Vertex-Transitive Graphs. Lecture Notes in Computer Science, 2008, , 385-401.	1.0	21
47	Topological Neighborhoods for Spline Curves: Practice & Theory. Lecture Notes in Computer Science, 2008, , 149-161.	1.0	4
48	FAILURE-SENSITIVE ANALYSIS OF PARALLEL ALGORITHMS WITH CONTROLLED MEMORY ACCESS CONCURRENCY. Parallel Processing Letters, 2007, 17, 153-168.	0.4	1
49	On the impossibility of a quantum sieve algorithm for graph isomorphism. , 2007, , .		37
50	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
51	Tampering with Special Purpose Trusted Computing Devices: A Case Study in Optical Scan E-Voting. , 2007, , .		6
52	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
53	Generic quantum Fourier transforms. ACM Transactions on Algorithms, 2006, 2, 707-723.	0.9	48
54	Distributed scheduling for disconnected cooperation. Distributed Computing, 2006, 18, 409-420.	0.7	10

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55	Limitations of quantum coset states for graph isomorphism. , 2006, , .		52
56	Quantum random walk with Rydberg atoms in an optical lattice. New Journal of Physics, 2006, 8, 156-156.	1.2	80
57	The Do-All problem with Byzantine processor failures. Theoretical Computer Science, 2005, 333, 433-454.	0.5	10
58	Work-Competitive Scheduling for Cooperative Computing with Dynamic Groups. SIAM Journal on Computing, 2005, 34, 848-862.	0.8	15
59	Decoherence in quantum walks on the hypercube. Physical Review A, 2005, 72, .	1.0	46
60	Efficient Steganography with Provable Security Guarantees. Lecture Notes in Computer Science, 2005, , 118-130.	1.0	9
61	The complexity of synchronous iterative Do-All with crashes. Distributed Computing, 2004, 17, 47-63.	0.7	16
62	Inapproximability results for equations over finite groups. Theoretical Computer Science, 2004, 312, 17-45.	0.5	13
63	The chilean highway problem. Theoretical Computer Science, 2004, 326, 329-342.	0.5	3
64	The Hidden Subgroup Problem and Quantum Computation Using Group Representations. SIAM Journal on Computing, 2003, 32, 916-934.	0.8	85
65	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
66	The Complexity of Solving Equations over Finite Groups. Information and Computation, 2002, 178, 253-262.	0.5	45
67	The Complexity of Solving Equations over Finite Groups. Information and Computation, 2002, 178, 253-262.	0.5	16
68	Complexity Bounds on General Hard-Core Predicates. Journal of Cryptology, 2001, 14, 177-195.	2.1	7
69	Perfect Information Leader Election in log*n+O(1) Rounds. Journal of Computer and System Sciences, 2001, 63, 612-626.	0.9	30
70	Optimal scheduling for disconnected cooperation. , 2001, , .		6
71	An ergodic theorem for read-once non-uniform deterministic finite automata. Information Processing Letters, 2000, 73, 23-28.	0.4	1
72	Normal subgroup reconstruction and quantum computation using group representations. , 2000, , .		50

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73	Distributed Cooperation During the Absence of Communication. Lecture Notes in Computer Science, 2000, , 119-133.	1.0	14
74	The relativized relationship between probabilistically checkable debate systems, IP and PSPACE. Information Processing Letters, 1995, 53, 61-68.	0.4	0
75	A critical look at experimental evaluations of EBL. Machine Learning, 1991, 6, 183-195.	3.4	19