Saurabh Bagchi

List of Publications by Year
in descending order

69	1,585	567281 15	580821 25
papers	citations	h-index	g-index

69	69	69	1655
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Network defense and behavioral biases: an experimental study. Experimental Economics, 2022, 25, 254-286.	2.1	7
2	ApproxNet: Content and Contention-Aware Video Object Classification System for Embedded Clients. ACM Transactions on Sensor Networks, 2022, 18, 1-27.	3.6	8
3	Hybrid Low-Power Wide-Area Mesh Network for IoT Applications. IEEE Internet of Things Journal, 2021, 8, 901-915.	8.7	54
4	Distributed Inference With Sparse and Quantized Communication. IEEE Transactions on Signal Processing, 2021, 69, 3906-3921.	5.3	8
5	Battery-Less Wireless Chipless Sensor Tag for Subsoil Moisture Monitoring. IEEE Sensors Journal, 2021, 21, 6071-6082.	4.7	20
6	Context-Aware Collaborative Intelligence With Spatio-Temporal In-Sensor-Analytics for Efficient Communication in a Large-Area IoT Testbed. IEEE Internet of Things Journal, 2021, 8, 6800-6814.	8.7	17
7	HIOA-CPS: Combining Hybrid Input-Output Automaton and Game Theory for Security Modeling of Cyber-Physical Systems. , 2021, , .		0
8	New Frontiers in IoT: Networking, Systems, Reliability, and Security Challenges. IEEE Internet of Things Journal, 2020, 7, 11330-11346.	8.7	34
9	Vision Paper: Grand Challenges in Resilience: Autonomous System Resilience through Design and Runtime Measures. IEEE Open Journal of the Computer Society, 2020, 1, 155-172.	7.8	14
10	Behavioral and Game-Theoretic Security Investments in Interdependent Systems Modeled by Attack Graphs. IEEE Transactions on Control of Network Systems, 2020, 7, 1585-1596.	3.7	20
11	ApproxDet. , 2020, , .		23
12	Event-Triggered Distributed Inference. , 2020, , .		6
13	The Effect of Behavioral Probability Weighting in a Sequential Defender-Attacker Game. , 2020, , .		3
14	Proactive privacy-preserving proximity prevention through bluetooth transceivers. , 2020, , .		1
15	BenchIoT: A Security Benchmark for the Internet of Things. , 2019, , .		9
16	PySE: Automatic Worst-Case Test Generation by Reinforcement Learning. , 2019, , .		16
17	XSTRESSOR : Automatic Generation of Large-Scale Worst-Case Test Inputs by Inferring Path Conditions. , 2019, , .		6
18	Finite-Time Distributed State Estimation over Time-Varying Graphs: Exploiting the Age-of-Information. , 2019, , .		14

#	Article	IF	Citations
19	MG-RAST version 4â€”lessons learned from a decade of low-budget ultra-high-throughput metagenome analysis. Briefings in Bioinformatics, 2019, 20, 1151-1159.	6.5	98
20	Federation in genomics pipelines: techniques and challenges. Briefings in Bioinformatics, 2019, 20, 235-244.	6.5	18
21	The Impacts of Behavioral Probability Weighting on Security Investments in Interdependent Systems. , 2019, , .		7
22	Minerva: A reinforcement learning-based technique for optimal scheduling and bottleneck detection in distributed factory operations. , 2018, , .		19
23	Learning from the Ones that Got Away: Detecting New Forms of Phishing Attacks. IEEE Transactions on Dependable and Secure Computing, 2018, 15, 988-1001.	5.4	54
24	Profiting from attacks on real-time price communications in smart grids. , 2017, , .		3
25	Rafiki. , 2017, , .		33
26	Position statements from panelists: Ubiquitous sensing and privacy: Can the twains meet?. , 2017, , .		0
27	Position statements from panelists: Smart cities-delusions of grandeur. , 2017, , .		0
28	SARVAVID. , 2016, , .		14
29	Sirius: Neural Network Based Probabilistic Assertions for Detecting Silent Data Corruption in Parallel Programs. , 2016, , .		6
30	Defending against strategic adversaries in dynamic pricing markets for smart grids. , 2016, , .		3
31	The MG-RAST metagenomics database and portal in 2015. Nucleic Acids Research, 2016, 44, D590-D594.	14.5	187
32	Optimizing Defensive Investments in Energy-Based Cyber-Physical Systems. , 2015, , .		1
33	MicroRNA target prediction using thermodynamic and sequence curves. BMC Genomics, 2015, 16, 999.	2.8	28
34	Denial of Service Elusion (DoSE): Keeping Clients Connected for Less. , 2015, , .		17
35	Diagnosis of Performance Faults in LargeScale MPI Applications via Probabilistic Progress-Dependence Inference. IEEE Transactions on Parallel and Distributed Systems, 2015, 26, 1280-1289.	5.6	11
36	Orion: Scaling Genomic Sequence Matching with Fine-Grained Parallelization. , 2014, , .		9

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37	DISA: Detection and isolation of sneaky attackers in locally monitored multiâ€hop wireless networks. Security and Communication Networks, 2013, 6, 1524-1538.	1.5	1
38	Toward optimal sniffer-channel assignment for reliable monitoring in multi-channel wireless networks. , 2013, , .		7
39	McrEngine: A Scalable Checkpointing System Using Data-Aware Aggregation and Compression. Scientific Programming, 2013, 21, 149-163.	0.7	7
40	Distributed online channel assignment toward optimal monitoring in multi-channel wireless networks. , 2012, , .		23
41	MCREngine: A scalable checkpointing system using data-aware aggregation and compression. , 2012, , .		36
42	Mitigating the Effects of Software Component Shifts for Incremental Reprogramming of Wireless Sensor Networks. IEEE Transactions on Parallel and Distributed Systems, 2012, 23, 1882-1894.	5.6	2
43	To cloud or not to cloud: A study of trade-offs between in-house and outsourced virtual private network. , 2012, , .		3
44	Stealthy Attacks in Wireless Ad Hoc Networks: Detection and Countermeasure. IEEE Transactions on Mobile Computing, 2011, 10, 1096-1112.	5.8	54
45	The NEEShub Cyberinfrastructure for Earthquake Engineering. Computing in Science and Engineering, 2011, 13, 67-78.	1.2	40
46	Dangers and Joys of Stock Trading on the Web: Failure Characterization of a Three-Tier Web Service. , 2011, , .		0
47	RDAS: Reputation-Based Resilient Data Aggregation in Sensor Network. , 2010, , .		13
48	Characterizing Failures in Mobile OSes: A Case Study with Android and Symbian. , 2010, , .		54
49	Intrusion detection in voice over IP environments. International Journal of Information Security, 2009, 8, 153-172.	3.4	17
50	Spam detection in voice-over-IP calls through semi-supervised clustering. , 2009, , .		36
51	Multigrade security monitoring for ad-hoc wireless networks. , 2009, , .		5
52	MobiWorp: Mitigation of the wormhole attack in mobile multihop wireless networks. Ad Hoc Networks, 2008, 6, 344-362.	5.5	83
53	The Search for Efficiency in Automated Intrusion Response for Distributed Applications. , 2008, , .		3
54	SeNDORComm: An Energy-Efficient Priority-Driven Communication Layer for Reliable Wireless Sensor Networks. , 2008, , .		5

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55	Modeling and Automated Containment of Worms. IEEE Transactions on Dependable and Secure Computing, 2008, 5, 71-86.	5.4	75
56	Work in progress - impact of research technologies on service learning. , 2008, , .		0
57	Performance Comparison of SPIN based Push-Pull Protocols. , 2007, , .		5
58	SLAM: Sleep-Wake Aware Local Monitoring in Sensor Networks. , 2007, , .		27
59	Stateful Detection in High Throughput Distributed Systems. , 2007, , .		5
60	Automated Rule-Based Diagnosis Through a Distributed Monitor System. IEEE Transactions on Dependable and Secure Computing, 2007, 4, 266-279.	5.4	32
61	Distributed Diagnosis of Failures in a Three Tier E-Commerce System. , 2007, , .		15
62	Prediction of Resource Availability in Fine-Grained Cycle Sharing Systems Empirical Evaluation. Journal of Grid Computing, 2007, 5, 173-195.	3.9	48
63	Distributed Diagnosis of Failures in a Three Tier E-Commerce System. Proceedings of the IEEE Symposium on Reliable Distributed Systems, 2007, , .	0.0	0
64	Stateful Detection in High Throughput Distributed Systems. Proceedings of the IEEE Symposium on Reliable Distributed Systems, 2007, , .	0.0	0
65	Topology Insensitive Location Determination Using Independent Estimates Through Semi-Directional Antennas. IEEE Transactions on Antennas and Propagation, 2006, 54, 3458-3472.	5.1	3
66	MOBIWORP: Mitigation of the Wormhole Attack in Mobile Multihop Wireless Networks. , 2006, , .		40
67	Pesticide: Using SMT to Improve Performance of Pointer-Bug Detection. Proceedings - IEEE International Conference on Computer Design: VLSI in Computers and Processors, 2006, , .	0.0	0
68	Failure handling in a reliable multicast protocol for improving buffer utilization and accommodating heterogeneous receivers. , 0, , .		3
69	LITEWORP: A Lightweight Countermeasure for the Wormhole Attack in Multihop Wireless Networks. , 0, , .		175