

Saurabh Bagchi

List of Publications by Year in descending order

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Version: 2024-02-01

69
papers

1,585
citations

567281

15
h-index

580821

25
g-index

69
all docs

69
docs citations

69
times ranked

1655
citing authors

#	ARTICLE	IF	CITATIONS
1	The MG-RAST metagenomics database and portal in 2015. <i>Nucleic Acids Research</i> , 2016, 44, D590-D594.	14.5	187
2	LITEWORP: A Lightweight Countermeasure for the Wormhole Attack in Multihop Wireless Networks. , 0, , .		175
3	MG-RAST version 4â€™lessons learned from a decade of low-budget ultra-high-throughput metagenome analysis. <i>Briefings in Bioinformatics</i> , 2019, 20, 1151-1159.	6.5	98
4	MobiWorp: Mitigation of the wormhole attack in mobile multihop wireless networks. <i>Ad Hoc Networks</i> , 2008, 6, 344-362.	5.5	83
5	Modeling and Automated Containment of Worms. <i>IEEE Transactions on Dependable and Secure Computing</i> , 2008, 5, 71-86.	5.4	75
6	Characterizing Failures in Mobile OSes: A Case Study with Android and Symbian. , 2010, , .		54
7	Stealthy Attacks in Wireless Ad Hoc Networks: Detection and Countermeasure. <i>IEEE Transactions on Mobile Computing</i> , 2011, 10, 1096-1112.	5.8	54
8	Learning from the Ones that Got Away: Detecting New Forms of Phishing Attacks. <i>IEEE Transactions on Dependable and Secure Computing</i> , 2018, 15, 988-1001.	5.4	54
9	Hybrid Low-Power Wide-Area Mesh Network for IoT Applications. <i>IEEE Internet of Things Journal</i> , 2021, 8, 901-915.	8.7	54
10	Prediction of Resource Availability in Fine-Grained Cycle Sharing Systems Empirical Evaluation. <i>Journal of Grid Computing</i> , 2007, 5, 173-195.	3.9	48
11	MOBIWORP: Mitigation of the Wormhole Attack in Mobile Multihop Wireless Networks. , 2006, , .		40
12	The NEEShub Cyberinfrastructure for Earthquake Engineering. <i>Computing in Science and Engineering</i> , 2011, 13, 67-78.	1.2	40
13	Spam detection in voice-over-IP calls through semi-supervised clustering. , 2009, , .		36
14	MCREngine: A scalable checkpointing system using data-aware aggregation and compression. , 2012, , .		36
15	New Frontiers in IoT: Networking, Systems, Reliability, and Security Challenges. <i>IEEE Internet of Things Journal</i> , 2020, 7, 11330-11346.	8.7	34
16	Rafiki. , 2017, , .		33
17	Automated Rule-Based Diagnosis Through a Distributed Monitor System. <i>IEEE Transactions on Dependable and Secure Computing</i> , 2007, 4, 266-279.	5.4	32
18	MicroRNA target prediction using thermodynamic and sequence curves. <i>BMC Genomics</i> , 2015, 16, 999.	2.8	28

#	ARTICLE	IF	CITATIONS
19	SLAM: Sleep-Wake Aware Local Monitoring in Sensor Networks. , 2007, , .		27
20	Distributed online channel assignment toward optimal monitoring in multi-channel wireless networks. , 2012, , .		23
21	ApproxDet. , 2020, , .		23
22	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
23	Battery-Less Wireless Chipless Sensor Tag for Subsoil Moisture Monitoring. IEEE Sensors Journal, 2021, 21, 6071-6082.	4.7	20
24	Minerva: A reinforcement learning-based technique for optimal scheduling and bottleneck detection in distributed factory operations. , 2018, , .		19
25	Federation in genomics pipelines: techniques and challenges. Briefings in Bioinformatics, 2019, 20, 235-244.	6.5	18
26	Intrusion detection in voice over IP environments. International Journal of Information Security, 2009, 8, 153-172.	3.4	17
27	Denial of Service Elusion (DoSE): Keeping Clients Connected for Less. , 2015, , .		17
28	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
29	PySE: Automatic Worst-Case Test Generation by Reinforcement Learning. , 2019, , .		16
30	Distributed Diagnosis of Failures in a Three Tier E-Commerce System. , 2007, , .		15
31	SARVAVID. , 2016, , .		14
32	Finite-Time Distributed State Estimation over Time-Varying Graphs: Exploiting the Age-of-Information. , 2019, , .		14
33	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
34	RDAS: Reputation-Based Resilient Data Aggregation in Sensor Network. , 2010, , .		13
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	BenchIoT: A Security Benchmark for the Internet of Things. , 2019, , .		9
38	Distributed Inference With Sparse and Quantized Communication. IEEE Transactions on Signal Processing, 2021, 69, 3906-3921.	5.3	8
39	ApproxNet: Content and Contention-Aware Video Object Classification System for Embedded Clients. ACM Transactions on Sensor Networks, 2022, 18, 1-27.	3.6	8
40	Toward optimal sniffer-channel assignment for reliable monitoring in multi-channel wireless networks. , 2013, , .		7
41	McrEngine: A Scalable Checkpointing System Using Data-Aware Aggregation and Compression. Scientific Programming, 2013, 21, 149-163.	0.7	7
42	Network defense and behavioral biases: an experimental study. Experimental Economics, 2022, 25, 254-286.	2.1	7
43	The Impacts of Behavioral Probability Weighting on Security Investments in Interdependent Systems. , 2019, , .		7
44	Sirius: Neural Network Based Probabilistic Assertions for Detecting Silent Data Corruption in Parallel Programs. , 2016, , .		6
45	XSTRESSOR : Automatic Generation of Large-Scale Worst-Case Test Inputs by Inferring Path Conditions. , 2019, , .		6
46	Event-Triggered Distributed Inference. , 2020, , .		6
47	Performance Comparison of SPIN based Push-Pull Protocols. , 2007, , .		5
48	Stateful Detection in High Throughput Distributed Systems. , 2007, , .		5
49	SeNDORComm: An Energy-Efficient Priority-Driven Communication Layer for Reliable Wireless Sensor Networks. , 2008, , .		5
50	Multigrade security monitoring for ad-hoc wireless networks. , 2009, , .		5
51	Failure handling in a reliable multicast protocol for improving buffer utilization and accommodating heterogeneous receivers. , 0, , .		3
52	Topology Insensitive Location Determination Using Independent Estimates Through Semi-Directional Antennas. IEEE Transactions on Antennas and Propagation, 2006, 54, 3458-3472.	5.1	3
53	The Search for Efficiency in Automated Intrusion Response for Distributed Applications. , 2008, , .		3
54	To cloud or not to cloud: A study of trade-offs between in-house and outsourced virtual private network. , 2012, , .		3

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55	Defending against strategic adversaries in dynamic pricing markets for smart grids. , 2016, , .		3
56	Profiting from attacks on real-time price communications in smart grids. , 2017, , .		3
57	The Effect of Behavioral Probability Weighting in a Sequential Defender-Attacker Game. , 2020, , .		3
58	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
59	DISA: Detection and isolation of sneaky attackers in locally monitored multi-hop wireless networks. Security and Communication Networks, 2013, 6, 1524-1538.	1.5	1
60	Optimizing Defensive Investments in Energy-Based Cyber-Physical Systems. , 2015, , .		1
61	Proactive privacy-preserving proximity prevention through bluetooth transceivers. , 2020, , .		1
62	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
63	Work in progress - impact of research technologies on service learning. , 2008, , .		0
64	Dangers and Joys of Stock Trading on the Web: Failure Characterization of a Three-Tier Web Service. , 2011, , .		0
65	Position statements from panelists: Ubiquitous sensing and privacy: Can the twins meet?. , 2017, , .		0
66	Position statements from panelists: Smart cities-delusions of grandeur. , 2017, , .		0
67	HIOA-CPS: Combining Hybrid Input-Output Automaton and Game Theory for Security Modeling of Cyber-Physical Systems. , 2021, , .		0
68	Distributed Diagnosis of Failures in a Three Tier E-Commerce System. Proceedings of the IEEE Symposium on Reliable Distributed Systems, 2007, , .	0.0	0
69	Stateful Detection in High Throughput Distributed Systems. Proceedings of the IEEE Symposium on Reliable Distributed Systems, 2007, , .	0.0	0