Alysson Neves Bessani

List of Publications by Year
in descending order

84 papers	2,427 citations	858243 12 h-index	488211 31 g-index
86 all docs	86 docs citations	86 times ranked	1636 citing authors

#	Article	IF	Citations
1	AWARE: Adaptive Wide-Area Replication for Fast and Resilient Byzantine Consensus. IEEE Transactions on Dependable and Secure Computing, 2022, 19, 1605-1620.	3.7	18
2	Charon: A Secure Cloud-of-Clouds System for Storing and Sharing Big Data. IEEE Transactions on Cloud Computing, 2021, 9, 1349-1361.	3.1	20
3	GenoDedup: Similarity-Based Deduplication and Delta-Encoding for Genome Sequencing Data. IEEE Transactions on Computers, 2021, 70, 669-681.	2.4	10
4	Making Reads in BFT State Machine Replication Fast, Linearizable, and Live. , 2021, , .		7
5	From Byzantine Replication to Blockchain: Consensus is Only the Beginning. , 2020, , .		21
6	A Survey and Classification of Software-Defined Storage Systems. ACM Computing Surveys, 2020, 53, 1-38.	16.1	13
7	Enabling the Efficient, Dependable Cloud-Based Storage of Human Genomes. , 2019, , .		2
8	A Cost-Effective Cloud Event Archival for SIEMs. , 2019, , .		1
9	Resilient Wide-Area Byzantine Consensus Using Adaptive Weighted Replication. , 2019, , .		10
10	SLICER: Safe Long-Term Cloud Event Archival. , 2019, , .		0
11	BigFlow: Real-time and reliable anomaly-based intrusion detection for high-speed networks. Future Generation Computer Systems, 2019, 93, 473-485.	4.9	62
12	Lazarus. , 2019, , .		11
13	Knowledge Connectivity Requirements for Solving Byzantine Consensus with Unknown Participants. IEEE Transactions on Dependable and Secure Computing, 2018, 15, 246-259.	3.7	8
14	SieveQ: A Layered BFT Protection System for Critical Services. IEEE Transactions on Dependable and Secure Computing, 2018, 15, 511-525.	3.7	10
15	Detecting Malicious Web Scraping Activity: A Study with Diverse Detectors. , 2018, , .		1
16	Dynamic adaptation of byzantine consensus protocols. , 2018, , .		4
17	How blockchains can improve measuring instruments regulation and control. , 2018, , .		12
18	BCRB 2018 introduction. , 2018, , .		0

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19	A Byzantine Fault-Tolerant Ordering Service for the Hyperledger Fabric Blockchain Platform. , 2018, , .		185
20	Byzantine Fault-Tolerant Atomic Multicast. , 2018, , .		9
21	On the Challenges of Building a BFT SCADA. , 2018, , .		9
22	Using Diverse Detectors for Detecting Malicious Web Scraping Activity. , 2018, , .		1
23	Elastic State Machine Replication. IEEE Transactions on Parallel and Distributed Systems, 2017, 28, 2486-2499.	4.0	10
24	A byzantine fault-tolerant ordering service for the hyperledger fabric blockchain platform. , 2017, , .		29
25	Ginja. , 2017, , .		4
26	How blockchains can help legal metrology. , 2017, , .		4
27	A Resilient Stream Learning Intrusion Detection Mechanism for Real-Time Analysis of Network Traffic. , 2017, , .		7
28	How Can Photo Sharing Inspire Sharing Genomes?. Advances in Intelligent Systems and Computing, 2017, , 74-82.	0.5	1
29	Design and Implementation of a Consistent Data Store for a Distributed SDN Control Plane. , 2016, , .		19
30	JITeR: Just-in-time application-layer routing. Computer Networks, 2016, 104, 122-136.	3.2	5
31	BiobankCloud: A Platform for the Secure Storage, Sharing, and Processing of Large Biomedical Data Sets. Lecture Notes in Computer Science, 2016, , 89-105.	1.0	15
32	A High-Throughput Method to Detect Privacy-Sensitive Human Genomic Data. , 2015, , .		14
33	On-Demand Indexing for Referential Compression of DNA Sequences. PLoS ONE, 2015, 10, e0132460.	1.1	8
34	Separating the WHEAT from the Chaff: An Empirical Design for Geo-Replicated State Machines. , 2015, , .		30
35	Extensible distributed coordination. , 2015, , .		11
36	On the consistency of heterogeneous composite objects. , 2015, , .		0

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37	Towards Secure and Dependable Authentication and Authorization Infrastructures. , 2014, , .		9
38	The TClouds Platform. Operating Systems Review (ACM), 2014, 48, 13-22.	1.5	4
39	On the Design of Practical Fault-Tolerant SDN Controllers. , 2014, , .		61
40	State Machine Replication for the Masses with BFT-SMART. , 2014, , .		301
41	Analysis of operating system diversity for intrusion tolerance. Software - Practice and Experience, 2014, 44, 735-770.	2.5	53
42	Sharing Files Using Cloud Storage Services. Lecture Notes in Computer Science, 2014, , 13-25.	1.0	2
43	An intrusion-tolerant firewall design for protecting SIEM systems. , 2013, , .		3
44	Efficient Byzantine Fault-Tolerance. IEEE Transactions on Computers, 2013, 62, 16-30.	2.4	208
45	On the Performance of Byzantine Fault-Tolerant MapReduce. IEEE Transactions on Dependable and Secure Computing, 2013, 10, 301-313.	3.7	11
46	DepSky. ACM Transactions on Storage, 2013, 9, 1-33.	1.4	236
47	E-biobanking: What Have You Done to My Cell Samples?. IEEE Security and Privacy, 2013, 11, 62-65.	1.5	12
48	On the Feasibility of a Consistent and Fault-Tolerant Data Store for SDNs. , 2013, , .		40
49	The TClouds platform. , 2013, , .		3
50	From Byzantine Consensus to BFT State Machine Replication: A Latency-Optimal Transformation. , 2012, , .		48
51	On the Feasibility of Byzantine Fault-Tolerant MapReduce in Clouds-of-Clouds. , 2012, , .		8
52	A look to the old-world_sky. Operating Systems Review (ACM), 2012, 46, 43-56.	1.5	6
53	The TClouds architecture: Open and resilient cloud-of-clouds computing. , 2012, , .		31
54	Brief Announcement: Decoupled and Consensus-Free Reconfiguration for Fault-Tolerant Storage. Lecture Notes in Computer Science, 2012, , 443-444.	1.0	0

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55	Recursive virtual machines for advanced security mechanisms. , 2011, , .		14
56	OS diversity for intrusion tolerance: Myth or reality?. , 2011, , .		59
57	From Byzantine fault tolerance to intrusion tolerance (a position paper). , 2011, , .		8
58	DepSky. , 2011, , .		233
59	On the Reliability and Availability of Systems Tolerant to Stealth Intrusion. , 2011, , .		1
60	Highly Available Intrusion-Tolerant Services with Proactive-Reactive Recovery. IEEE Transactions on Parallel and Distributed Systems, 2010, 21, 452-465.	4.0	97
61	EBAWA: Efficient Byzantine Agreement for Wide-Area Networks. , 2010, , .		50
62	A Dependable Infrastructure for Cooperative Web Services Coordination. International Journal of Web Services Research, 2010, 7, 43-64.	0.5	1
63	Spin One's Wheels? Byzantine Fault Tolerance with a Spinning Primary. , 2009, , .		79
64	Sharing Memory between Byzantine Processes Using Policy-Enforced Tuple Spaces. IEEE Transactions on Parallel and Distributed Systems, 2009, 20, 419-432.	4.0	10
65	An Efficient Byzantine-Resilient Tuple Space. IEEE Transactions on Computers, 2009, 58, 1080-1094.	2.4	9
66	Proactive Byzantine Quorum Systems. Lecture Notes in Computer Science, 2009, , 708-725.	1.0	0
67	On Byzantine generals with alternative plans. Journal of Parallel and Distributed Computing, 2008, 68, 1291-1296.	2.7	12
68	The Crutial Way of Critical Infrastructure Protection. IEEE Security and Privacy, 2008, 6, 44-51.	1.5	59
69	A Dependable Infrastructure for Cooperative Web Services Coordination. , 2008, , .		6
70	FOREVER. , 2008, , .		3
71	DepSpace. Operating Systems Review (ACM), 2008, 42, 163-176.	1.5	12
72	Byzantine Consensus with Unknown Participants. Lecture Notes in Computer Science, 2008, , 22-40.	1.0	28

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73	DepSpace. , 2008, , .		48
74	The FOREVER service for fault/intrusion removal. , 2008, , .		11
75	Resilient Intrusion Tolerance through Proactive and Reactive Recovery. , 2007, , .		39
76	Evaluating Byzantine Quorum Systems. , 2007, , .		5
77	Decoupled Quorum-Based Byzantine-Resilient Coordination in Open Distributed Systems. , 2007, , .		2
78	Evaluating Byzantine Quorum Systems. Proceedings of the IEEE Symposium on Reliable Distributed Systems, 2007, , .	0.0	0
79	BTS. , 2006, , .		8
80	Integrating the ROMIOP and ETF Specifications for Atomic Multicast in CORBA. Lecture Notes in Computer Science, 2005, , 680-697.	1.0	1
81	A Semi-reliable Multicast Protocol for Distributed Multimedia Applications in Large Scale Networks. Lecture Notes in Computer Science, 2005, , 109-120.	1.0	4
82	Active Replication in CORBA: Standards, Protocols, and Implementation Framework. Lecture Notes in Computer Science, 2004, , 1395-1412.	1.0	5
83	Integrating the Unreliable Multicast Inter-ORB Protocol in MJaco. Lecture Notes in Computer Science, 2003, , 200-211.	1.0	2
84	A Dependable Infrastructure for Cooperative Web Services Coordination. , 0, , 27-49.		0