

Alexandru A Costan

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8670658/publications.pdf>

Version: 2024-02-01

66
papers

730
citations

1040056

9
h-index

888059

17
g-index

68
all docs

68
docs citations

68
times ranked

610
citing authors

#	ARTICLE	IF	CITATIONS
1	Distributed intelligence on the Edge-to-Cloud Continuum: A systematic literature review. Journal of Parallel and Distributed Computing, 2022, 166, 71-94.	4.1	35
2	Virtual Log-Structured Storage for High-Performance Streaming. , 2021, , .		1
3	Reproducible Performance Optimization of Complex Applications on the Edge-to-Cloud Continuum. , 2021, , .		3
4	MDSC. , 2021, , .		2
5	Mission possible: Unify HPC and Big Data stacks towards application-defined blobs at the storage layer. Future Generation Computer Systems, 2020, 109, 668-677.	7.5	4
6	A Distributed Multi-Sensor Machine Learning Approach to Earthquake Early Warning. Proceedings of the AAAI Conference on Artificial Intelligence, 2020, 34, 403-411.	4.9	25
7	E2Clab: Exploring the Computing Continuum through Repeatable, Replicable and Reproducible Edge-to-Cloud Experiments. , 2020, , .		17
8	Towards a Methodology for Benchmarking Edge Processing Frameworks. , 2019, , .		7
9	Investigating Edge vs. Cloud Computing Trade-offs for Stream Processing. , 2019, , .		6
10	Efficient Scheduling of Scientific Workflows Using Hot Metadata in a Multisite Cloud. IEEE Transactions on Knowledge and Data Engineering, 2019, 31, 1940-1953.	5.7	15
11	Keeping up with storage: Decentralized, write-enabled dynamic geo-replication. Future Generation Computer Systems, 2018, 86, 1093-1105.	7.5	6
12	Planner: Cost-Efficient Execution Plans Placement for Uniform Stream Analytics on Edge and Cloud. , 2018, , .		9
13	KerA: Scalable Data Ingestion for Stream Processing. , 2018, , .		11
14	TÃ½rFS: Increasing Small Files Access Performance with Dynamic Metadata Replication. , 2018, , .		3
15	SLoG: Large-Scale Logging Middleware for HPC and Big Data Convergence. , 2018, , .		1
16	AutoCompBD: Autonomic Computing and Big Data platforms. Soft Computing, 2017, 21, 4497-4499.	3.6	6
17	A performance evaluation of Apache Kafka in support of big data streaming applications. , 2017, , .		57
18	Towards a unified storage and ingestion architecture for stream processing. , 2017, , .		5

#	ARTICLE	IF	CITATIONS
19	Exploring Shared State in Key-Value Store for Window-Based Multi-pattern Streaming Analytics. , 2017, , .		5
20	Managing hot metadata for scientific workflows on multisite clouds. , 2016, , .		6
21	TÃ½r: Blob Storage Meets Built-In Transactions. , 2016, , .		4
22	Spark Versus Flink: Understanding Performance in Big Data Analytics Frameworks. , 2016, , .		47
23	Towards Efficient Location and Placement of Dynamic Replicas for Geo-Distributed Data Stores. , 2016, , .		4
24	TomusBlobs: scalable data-intensive processing on Azure clouds. Concurrency Computation Practice and Experience, 2016, 28, 950-976.	2.2	9
25	OverFlow: Multi-Site Aware Big Data Management for Scientific Workflows on Clouds. IEEE Transactions on Cloud Computing, 2016, 4, 76-89.	4.4	32
26	JetStream: Enabling high throughput live event streaming on multi-site clouds. Future Generation Computer Systems, 2016, 54, 274-291.	7.5	17
27	Towards Multi-site Metadata Management for Geographically Distributed Cloud Workflows. , 2015, , .		12
28	Machine learning patterns for neuroimaging-genetic studies in the cloud. Frontiers in Neuroinformatics, 2014, 8, 31.	2.5	11
29	Transfer as a Service: Towards a Cost-Effective Model for Multi-site Cloud Data Management. , 2014, , .		4
30	To Overlap or Not to Overlap: Optimizing Incremental MapReduce Computations for On-Demand Data Upload. , 2014, , .		2
31	Achieving high throughput for large scale event streaming across geographically distributed data-centers with JetStream. , 2014, , .		0
32	Bridging Data in the Clouds: An Environment-Aware System for Geographically Distributed Data Transfers. , 2014, , .		25
33	JetStream. , 2014, , .		21
34	DataSteward: Using Dedicated Compute Nodes for Scalable Data Management on Public Clouds. , 2013, , .		4
35	Distributed Data Storage in Support for Context-Aware Applications. , 2013, , .		0
36	Adaptive file management for scientific workflows on the Azure cloud. , 2013, , .		11

#	ARTICLE	IF	CITATIONS
37	Grid Data Handling. , 2013, , 294-321.		0
38	A performance evaluation of Azure and Nimbus clouds for scientific applications. , 2012, , .		38
39	MapIterativeReduce. , 2012, , .		15
40	TomusBlobs: Towards Communication-Efficient Storage for MapReduce Applications in Azure. , 2012, , .		7
41	Towards a Generic Security Framework for Cloud Data Management Environments. International Journal of Distributed Systems and Technologies, 2012, 3, 17-34.	0.7	1
42	Distributed Architectures for Event-Based Systems. Studies in Computational Intelligence, 2011, , 11-45.	0.9	5
43	Managing Data Access on Clouds: A Generic Framework for Enforcing Security Policies. , 2011, , .		35
44	Middleware and architectures for space-based and situated computing. International Journal of Space-Based and Situated Computing, 2011, 1, 43.	0.2	9
45	Bringing introspection into BlobSeer: Towards a self-adaptive distributed data management system. International Journal of Applied Mathematics and Computer Science, 2011, 21, 229-242.	1.5	4
46	A dependability layer for large-scale distributed systems. International Journal of Grid and Utility Computing, 2011, 2, 109.	0.2	9
47	A visualisation technique for network topology transformation within MonALISA monitoring framework. International Journal of Grid and Utility Computing, 2011, 2, 119.	0.2	9
48	Towards a multi-stream low-priority high throughput (multi)point-to-(multi)point data transport protocol. , 2010, , .		1
49	Simulation Model and Instrument to Evaluate Replication Techniques. , 2010, , .		2
50	Prediction of Distributed Systems State Based on Monitoring Data. , 2010, , .		4
51	A fault tolerance approach for distributed systems using monitoring based replication. , 2010, , .		7
52	Fault Tolerance and Recovery in Grid Workflow Management Systems. , 2010, , .		22
53	A Solution for Fault-Tolerance Based on Adaptive Replication in MonALISA. , 2010, , .		0
54	A Worklow Management Platform for Scientific Applications in Grid Environments. , 2010, , .		1

#	ARTICLE	IF	CITATIONS
55	Automatic Generation of Functional Workflows Using a Semantic Specification. , 2010, , .		2
56	Prediction Strategies for Self-Adaptive Behavior in Distributed Systems. , 2010, , .		0
57	Bringing Introspection Into the BlobSeer Data-Management System Using the MonALISA Distributed Monitoring Framework. , 2010, , .		4
58	Monitoring and control of large systems with MonALISA. Communications of the ACM, 2009, 52, 49-55.	4.5	14
59	MonALISA: An agent based, dynamic service system to monitor, control and optimize distributed systems. Computer Physics Communications, 2009, 180, 2472-2498.	7.5	81
60	Dynamic Meta-Scheduling Architecture Based on Monitoring in Distributed Systems. , 2009, , .		3
61	Monitoring of Complex Applications Execution in Distributed Dependable Systems. , 2009, , .		2
62	Data replication techniques with applications to the MonALISA distributed monitoring system. , 2009, , .		1
63	Monitoring and Control of Large Systems with MonALISA. Queue, 2009, 7, 40-49.	1.1	3
64	A Monitoring Architecture for High-Speed Networks in Large Scale Distributed Collaborations. , 2008, , .		6
65	Monitoring, accounting and automated decision support for the alice experiment based on the MonALISA framework. , 2007, , .		14
66	Grid Data Handling. , 0, , 112-139.		1