

Zhiming Zhao

List of Publications by Year in descending order

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Version: 2024-02-01

118
papers

1,494
citations

430874

18
h-index

454955

30
g-index

128
all docs

128
docs citations

128
times ranked

1461
citing authors

#	ARTICLE	IF	CITATIONS
1	Ocean FAIR Data Services. <i>Frontiers in Marine Science</i> , 2019, 6, .	2.5	116
2	Monitoring self-adaptive applications within edge computing frameworks: A state-of-the-art review. <i>Journal of Systems and Software</i> , 2018, 136, 19-38.	4.5	105
3	Addressing Big Data challenges for Scientific Data Infrastructure. , 2012, , .		78
4	A Blockchain based Witness Model for Trustworthy Cloud Service Level Agreement Enforcement. , 2019, , .		66
5	SWITCH workbench: A novel approach for the development and deployment of time-critical microservice-based cloud-native applications. <i>Future Generation Computer Systems</i> , 2019, 99, 197-212.	7.5	59
6	Concurrent container scheduling on heterogeneous clusters with multi-resource constraints. <i>Future Generation Computer Systems</i> , 2020, 102, 562-573.	7.5	47
7	Collaborative e-Science Experiments and Scientific Workflows. <i>IEEE Internet Computing</i> , 2011, 15, 39-47.	3.3	46
8	Current and Future Challenges of Software Engineering for Services and Applications. <i>Procedia Computer Science</i> , 2016, 97, 34-42.	2.0	37
9	Challenges Emerging from Future Cloud Application Scenarios. <i>Procedia Computer Science</i> , 2015, 68, 227-237.	2.0	34
10	Planning virtual infrastructures for time critical applications with multiple deadline constraints. <i>Future Generation Computer Systems</i> , 2017, 75, 365-375.	7.5	34
11	Distributed service-level agreement management with smart contracts and blockchain. <i>Concurrency Computation Practice and Experience</i> , 2021, 33, e5800.	2.2	33
12	Time-critical data management in clouds: Challenges and a Dynamic Real-time Infrastructure Planner (DRIP) solution. <i>Concurrency Computation Practice and Experience</i> , 2020, 32, e5269.	2.2	31
13	A semantic-web approach for modeling computing infrastructures. <i>Computers and Electrical Engineering</i> , 2013, 39, 2553-2565.	4.8	28
14	Developing and Operating Time Critical Applications in Clouds: The State of the Art and the SWITCH Approach. <i>Procedia Computer Science</i> , 2015, 68, 17-28.	2.0	27
15	Trustworthy Cloud Service Level Agreement Enforcement with Blockchain Based Smart Contract. , 2018, , .		26
16	A Software Workbench for Interactive, Time Critical and Highly Self-Adaptive Cloud Applications (SWITCH). , 2015, , .		24
17	Mapping heterogeneous research infrastructure metadata into a unified catalogue for use in a generic virtual research environment. <i>Future Generation Computer Systems</i> , 2019, 101, 1-13.	7.5	24
18	An agent based network resource planner for workflow applications. <i>Multiagent and Grid Systems</i> , 2011, 7, 187-202.	0.9	23

#	ARTICLE	IF	CITATIONS
19	Dynamically reconfigurable workflows for time-critical applications. , 2015, , .		20
20	Operating Permissioned Blockchain in Clouds: A Performance Study of Hyperledger Sawtooth. , 2019, , .		20
21	Unsupervised Approaches for Textual Semantic Annotation, A Survey. ACM Computing Surveys, 2020, 52, 1-45.	23.0	20
22	Deadline-Aware Deployment for Time Critical Applications in Clouds. Lecture Notes in Computer Science, 2017, , 345-357.	1.3	20
23	Agent-Based Flow Control for HLA Components. Simulation, 2005, 81, 487-501.	1.8	18
24	Reference Model Guided System Design and Implementation for Interoperable Environmental Research Infrastructures. , 2015, , .		18
25	SDN-aware federation of distributed data. Future Generation Computer Systems, 2016, 56, 64-76.	7.5	18
26	CloudsStorm: A framework for seamlessly programming and controlling virtual infrastructure functions during the DevOps lifecycle of cloud applications. Software - Practice and Experience, 2019, 49, 1421-1447.	3.6	18
27	Multi-objective Container Deployment on Heterogeneous Clusters. , 2019, , .		17
28	ENVRI-FAIR - Interoperable Environmental FAIR Data and Services for Society, Innovation and Research. , 2019, , .		17
29	Special section on workflow systems and applications in e-Science. Future Generation Computer Systems, 2009, 25, 525-527.	7.5	16
30	Optimizing Service Placement for Microservice Architecture in Clouds. Applied Sciences (Switzerland), 2019, 9, 4663.	2.5	16
31	Distributed execution of aggregated multi domain workflows using an agent framework. , 2007, , .		15
32	Using Jade agent framework to prototype an e-Science workflow bus. , 2007, , .		15
33	QoS-aware virtual SDN network planning. , 2017, , .		15
34	ECSched: Efficient Container Scheduling on Heterogeneous Clusters. Lecture Notes in Computer Science, 2018, , 365-377.	1.3	15
35	VLE-WFBus: A Scientific Workflow Bus for Multi e-Science Domains. , 2006, , .		14
36	The ARTICONF approach to decentralized car-sharing. Blockchain: Research and Applications, 2021, 2, 100013.	6.7	13

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37	Dynamic Real-Time Infrastructure Planning and Deployment for Disaster Early Warning Systems. Lecture Notes in Computer Science, 2018, , 644-654.	1.3	13
38	Measuring success for a future vision: Defining impact in science gateways/virtual research environments. Concurrency Computation Practice and Experience, 2021, 33, e6099.	2.2	12
39	AG-IVE: An Agent Based Solution to Constructing Interactive Simulation Systems. Lecture Notes in Computer Science, 2002, , 693-703.	1.3	12
40	Fast Resource Co-provisioning for Time Critical Applications Based on Networked Infrastructures. , 2016, , .		11
41	Notebookâ€œâ€œVRE (NaaVRE): From private notebooks to a collaborative cloud virtual research environment. Software - Practice and Experience, 2022, 52, 1947-1966.	3.6	11
42	Enforcing trustworthy cloud SLA with witnesses: A game theoryâ€œbased model using smart contracts. Concurrency Computation Practice and Experience, 2021, 33, e5511.	2.2	10
43	CloudsStorm: An Application-Driven Framework to Enhance the Programmability and Controllability of Cloud Virtual Infrastructures. Lecture Notes in Computer Science, 2018, , 265-280.	1.3	10
44	WS-VLAM: A GT4 Based Workflow Management System. Lecture Notes in Computer Science, 2007, , 191-198.	1.3	10
45	Knowledge-as-a-Service: A Community Knowledge Base for Research Infrastructures in Environmental and Earth Sciences. , 2019, , .		9
46	A Bayesian game-enhanced auction model for federated cloud services using blockchain. Future Generation Computer Systems, 2022, 136, 49-66.	7.5	9
47	Open Information Linking for Environmental Research Infrastructures. , 2015, , .		8
48	Contemporary challenges for data-intensive scientific workflow management systems. , 2015, , .		8
49	Label entropyâ€œbased cooperative particle swarm optimization algorithm for dynamic overlapping community detection in complex networks. International Journal of Intelligent Systems, 2022, 37, 1371-1407.	5.7	8
50	Data Provenance. Lecture Notes in Computer Science, 2020, , 208-225.	1.3	8
51	Fast and Dynamic Resource Provisioning for Quality Critical Cloud Applications. , 2016, , .		7
52	Learning Workflow Scheduling on Multi-Resource Clusters. , 2019, , .		7
53	A Network Edge Monitoring Approach for Real-Time Data Streaming Applications. Lecture Notes in Computer Science, 2017, , 293-303.	1.3	6
54	Profiling the scheduling decisions for handling critical paths in deadline-constrained cloud workflows. Future Generation Computer Systems, 2019, 100, 237-249.	7.5	6

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55	Contextual Linking between Workflow Provenance and System Performance Logs. , 2019, , .		6
56	An Auction and Witness Enhanced Trustworthy SLA Model for Decentralized Cloud Marketplaces. , 2021, , .		6
57	Experimental Grid Access for Dynamic Discovery and Data Transfer in Distributed Interactive Simulation Systems. Lecture Notes in Computer Science, 2003, , 284-292.	1.3	6
58	ARTICONF: Towards a Smart Social Media Ecosystem in a Blockchain Federated Environment. Lecture Notes in Computer Science, 2020, , 417-428.	1.3	6
59	A Column Styled Composible Schema Matcher for Semantic Data-Types. Data Science Journal, 2019, 18, .	1.3	6
60	Agent technology and scientific workflow management in an e-science environment. , 2005, , .		5
61	Classification of High Resolution Urban Remote Sensing Images Using Deep Networks by Integration of Social Media Photos. , 2018, , .		5
62	ISS-Studio: A Prototype for a User-Friendly Tool for Designing Interactive Experiments in Problem Solving Environments. Lecture Notes in Computer Science, 2003, , 679-688.	1.3	5
63	Data Cataloguing. Lecture Notes in Computer Science, 2020, , 140-161.	1.3	5
64	Towards A Robust Meta-Reinforcement Learning-Based Scheduling Framework for Time Critical Tasks in Cloud Environments. , 2021, , .		5
65	Unsupervised Anomaly Detection in Data Quality Control. , 2021, , .		5
66	Scientific workflow management: between generality and applicability. , 0, , .		4
67	Scientific Workflows. Scientific Programming, 2006, 14, 171-171.	0.7	4
68	Network Resource Control for Data Intensive Applications in Heterogeneous Infrastructures. , 2012, , .		4
69	Automatic Collector for Dynamic Cloud Performance Information. , 2017, , .		4
70	Information Centric Networking for Sharing and Accessing Digital Objects with Persistent Identifiers on Data Infrastructures. , 2018, , .		4
71	Building a blockchain-based decentralized ecosystem for cloud and edge computing: an ALLSTAR approach and empirical study. Peer-to-Peer Networking and Applications, 2021, 14, 3578-3594.	3.9	4
72	Semantic Linking of Research Infrastructure Metadata. Lecture Notes in Computer Science, 2020, , 226-246.	1.3	4

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73	Dynamic Work.ow in a Grid Enabled Problem Solving Environment. , 2005, , .		3
74	An agent based planner for including network QoS in scientific workflows. , 2010, , .		3
75	Network resource selection for data transfer processes in scientific workflows. , 2010, , .		3
76	Planning Data Intensive Workflows on Inter-domain Resources Using the Network Service Interface (NSI). , 2012, , .		3
77	Towards Energy Efficient Data Intensive Computing Using IEEE 802.3az. , 2012, , .		3
78	An Autonomous Security Storage Solution for Data-Intensive Cooperative Cloud Computing. , 2013, , .		3
79	A semantic enhanced Power Budget Calculator for distributed computing using IEEE 802.3az. Cluster Computing, 2015, 18, 61-77.	5.0	3
80	Information Modelling and Semantic Linking for a Software Workbench for Interactive, Time Critical and Self-Adaptive Cloud Applications. , 2016, , .		3
81	Deadline-Aware Coflow Scheduling in a DAG. , 2017, , .		3
82	Building an integrated enhanced virtual research environment metadata catalogue. Electronic Library, 2019, 37, 929-951.	1.4	3
83	An Automated Customization and Performance Profiling Framework for Permissioned Blockchains in a Virtualized Environment. , 2019, , .		3
84	An Architecture Including Network QoS in Scientific Workflows. , 2010, , .		2
85	Resource Discovery in Large Scale Network Infrastructure. , 2011, , .		2
86	Vertex Labeling and Routing for Farey-Type Symmetrically-Structured Graphs. Symmetry, 2018, 10, 407.	2.2	2
87	Empowering Dynamic Task-Based Applications with Agile Virtual Infrastructure Programmability. , 2018, , .		2
88	Structure Properties of Generalized Farey graphs based on Dynamical Systems for Networks. Scientific Reports, 2018, 8, 12194.	3.3	2
89	An Efficient Method of Generating Deterministic Small-World and Scale-Free Graphs for Simulating Real-World Networks. IEEE Access, 2018, 6, 59833-59842.	4.2	2
90	A novel parallel distance metric-based approach for diversified ranking on large graphs. Future Generation Computer Systems, 2018, 88, 79-91.	7.5	2

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91	Towards Operational Research Infrastructures with FAIR Data and Services. Lecture Notes in Computer Science, 2020, , 360-372.	1.3	2
92	Developing, Provisioning and Controlling Time Critical Applications in Cloud. Communications in Computer and Information Science, 2018, , 169-174.	0.5	2
93	A Framework for Interactive Parameter Sweep Applications. Lecture Notes in Computer Science, 2008, , 481-490.	1.3	2
94	Agent Technology and Generic Workflow Management in an e-Science Environment. Lecture Notes in Computer Science, 2005, , 480-485.	1.3	2
95	Support for Cooperative Experiments in e-Science: From Scientific Workflows to Knowledge Sharing. Focus on Structural Biology, 2013, , 135-159.	0.1	2
96	The ENVRI Reference Model. Lecture Notes in Computer Science, 2020, , 61-81.	1.3	2
97	A Trustworthy Blockchain-based Decentralised Resource Management System in the Cloud. , 2020, , .		2
98	Towards a Formal Foundation for Aggregating Scientific Workflows. Lecture Notes in Computer Science, 2007, , 216-219.	1.3	1
99	ICT Infrastructures for Environmental and Earth Sciences. Lecture Notes in Computer Science, 2020, , 17-29.	1.3	1
100	Common Challenges and Requirements. Lecture Notes in Computer Science, 2020, , 30-57.	1.3	1
101	Knowledge sharing and discovery across heterogeneous research infrastructures. Open Research Europe, 0, 1, 68.	2.0	1
102	Rapid Prototyping of Complex Interactive Simulation Systems. , 0, , .		0
103	Support for Cooperative Experiments in VL-e: From Scientific Workflows to Knowledge Sharing. , 2008, , .		0
104	A Framework for Interactive Parameter Sweep Applications. , 2008, , .		0
105	HybridFlow: Towards intelligent video delivery and processing over hybrid infrastructures. , 2013, , .		0
106	Dynamic Workflow Planning on Programmable Infrastructure. , 2013, , .		0
107	Migrating Live Streaming Applications onto Clouds: Challenges and a CloudStorm Solution. , 2018, , .		0
108	Large Distributed Virtual Infrastructure Partitioning and Provisioning Across Providers. , 2019, , .		0

#	ARTICLE	IF	CITATIONS
109	Sharing digital object across data infrastructures using Named Data Networking (NDN). , 2020, , .		0
110	Knowledge sharing and discovery across heterogeneous research infrastructures. Open Research Europe, 0, 1, 68.	2.0	0
111	International Workshop on Applications of Workflows in Computational Science (AWCS 08). Lecture Notes in Computer Science, 2008, , 459-462.	1.3	0
112	Quality Guaranteed Media Delivery over Advanced Network. , 2012, , 121-146.		0
113	Virtual Infrastructure Optimisation. Lecture Notes in Computer Science, 2020, , 192-207.	1.3	0
114	Reference Model Guided Engineering. Lecture Notes in Computer Science, 2020, , 82-99.	1.3	0
115	Co-located and Orchestrated Network Fabric (CONF): An Automated Cloud Virtual Infrastructure for Social Network Applications. Lecture Notes in Computer Science, 2020, , 464-475.	1.3	0
116	Semantic and Knowledge Engineering Using ENVRI RM. Lecture Notes in Computer Science, 2020, , 100-119.	1.3	0
117	Case Study: Data Subscriptions Using Elastic Cloud Services. Lecture Notes in Computer Science, 2020, , 293-306.	1.3	0
118	Decentralized workflow management on software defined infrastructures. , 2020, , .		0