

Manish Parashar

List of Publications by Year in descending order

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87
papers

1,474
citations

623188

14
h-index

433756

31
g-index

98
all docs

98
docs citations

98
times ranked

1218
citing authors

#	ARTICLE	IF	CITATIONS
1	A Peer-to-Peer Approach to Web Service Discovery. World Wide Web, 2004, 7, 211-229.	2.7	182
2	Hello ADIOS: the challenges and lessons of developing leadership class I/O frameworks. Concurrency Computation Practice and Experience, 2014, 26, 1453-1473.	1.4	170
3	Towards autonomic workload provisioning for enterprise Grids and clouds. , 2009, , .		125
4	The future of scientific workflows. International Journal of High Performance Computing Applications, 2018, 32, 159-175.	2.4	104
5	Cloud Paradigms and Practices for Computational and Data-Enabled Science and Engineering. Computing in Science and Engineering, 2013, 15, 10-18.	1.2	52
6	Proactive thermal management in green datacenters. Journal of Supercomputing, 2012, 60, 165-195.	2.4	47
7	CometCloud: Enabling Software-Defined Federations for End-to-End Application Workflows. IEEE Internet Computing, 2015, 19, 69-73.	3.2	45
8	Enabling High-Performance Computing as a Service. Computer, 2012, 45, 72-80.	1.2	43
9	Autonomic Management of Application Workflows on Hybrid Computing Infrastructure. Scientific Programming, 2011, 19, 75-89.	0.5	41
10	Exploring the Performance Fluctuations of HPC Workloads on Clouds. , 2010, , .		39
11	An Autonomic Approach to Integrated HPC Grid and Cloud Usage. , 2009, , .		36
12	RES: Real-Time Video Stream Analytics Using Edge Enhanced Clouds. IEEE Transactions on Cloud Computing, 2022, 10, 792-804.	3.1	28
13	Online Risk Analytics on the Cloud. , 2009, , .		26
14	A CORBA Commodity Grid Kit. Concurrency Computation Practice and Experience, 2002, 14, 1057-1074.	1.4	25
15	Supporting Data-Intensive Workflows in Software-Defined Federated Multi-Clouds. IEEE Transactions on Cloud Computing, 2018, 6, 250-263.	3.1	25
16	Deadline Constrained Video Analysis via In-Transit Computational Environments. IEEE Transactions on Services Computing, 2020, 13, 59-72.	3.2	23
17	Cooperative detection and protection against network attacks using decentralized information sharing. Cluster Computing, 2010, 13, 67-86.	3.5	22
18	Engineering an interoperable computational collaboratory on the Grid. Concurrency Computation Practice and Experience, 2002, 14, 1569-1593.	1.4	19

#	ARTICLE	IF	CITATIONS
19	Experiments with in-transit processing for data intensive grid workflows. , 2007, , .		18
20	Gestalt of the Grid. , 2004, , 149-187.		16
21	Distributed computing practice for large-scale science and engineering applications. Concurrency Computation Practice and Experience, 2013, 25, 1559-1585.	1.4	15
22	A simulation and data analysis system for large-scale, data-driven oil reservoir simulation studies. Concurrency Computation Practice and Experience, 2005, 17, 1441-1467.	1.4	14
23	A distributed object infrastructure for interaction and steering. Concurrency Computation Practice and Experience, 2003, 15, 957-977.	1.4	13
24	Enabling autonomic compositions in grid environments. , 0, , .		13
25	EFFIS: An End-to-end Framework for Fusion Integrated Simulation. , 2010, , .		13
26	Incentivising resource sharing in social clouds. Concurrency Computation Practice and Experience, 2015, 27, 1483-1497.	1.4	12
27	Adaptive System Sensitive Partitioning of AMR Applications on Heterogeneous Clusters. Cluster Computing, 2002, 5, 343-352.	3.5	11
28	Managing QoS for Multimedia Applications in the Differentiated Services Environment. Journal of Network and Systems Management, 2003, 11, 469-498.	3.3	11
29	Design and Implementation of a Distributed Content-based Notification Broker for WS-Notification. , 2006, , .		11
30	Skel: Generative Software for Producing Skeletal I/O Applications. , 2011, , .		11
31	Enabling scalable parallel implementations of structured adaptive mesh refinement applications. Journal of Supercomputing, 2007, 39, 177-203.	2.4	10
32	A View from ORNL: Scientific Data Research Opportunities in the Big Data Age. , 2018, , .		10
33	A Framework for Adaptive Cluster Computing Using JavaSpaces. Cluster Computing, 2003, 6, 201-213.	3.5	9
34	Enabling self-management of component-based high-performance scientific applications. , 0, , .		9
35	A Self-Managing Wide-Area Data Streaming Service using Model-based Online Control. , 2006, , .		9
36	Investigating Autonomic Runtime Management Strategies for SAMR Applications. International Journal of Parallel Programming, 2005, 33, 247-259.	1.1	8

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37	Special section on autonomic cloud computing: technologies, services, and applications. Concurrency Computation Practice and Experience, 2012, 24, 935-937.	1.4	8
38	The Virtual Data Collaboratory: A Regional Cyberinfrastructure for Collaborative Data-Driven Research. Computing in Science and Engineering, 2020, 22, 79-92.	1.2	8
39	Harnessing the Computing Continuum for Urgent Science. Performance Evaluation Review, 2020, 48, 41-46.	0.4	8
40	An Infrastructure for Dynamic Composition of Grid Services. , 2006, , .		6
41	Hybrid Runtime Management of Space-Time Heterogeneity for Parallel Structured Adaptive Applications. IEEE Transactions on Parallel and Distributed Systems, 2007, 18, 1202-1214.	4.0	6
42	A self-managing wide-area data streaming service. Cluster Computing, 2007, 10, 365-383.	3.5	6
43	Enabling Distributed Software-Defined Environments Using Dynamic Infrastructure Service Composition. , 2017, , .		6
44	DISCOVER: A Computational Collaboratory for Interactive Grid Applications. , 0, , 729-746.		5
45	Grid-based asynchronous replica exchange. , 2007, , .		5
46	Programming support for sensor-based scientific applications. Parallel and Distributed Processing Symposium (IPDPS), Proceedings of the International Conference on, 2008, , .	1.0	5
47	Enabling GPU and Many-Core Systems in Heterogeneous HPC Environments Using Memory Considerations. , 2010, , .		5
48	The Reproducibility Initiative. Computer, 2019, 52, 7-8.	1.2	5
49	Using Resource Use Data and System Logs for HPC System Error Propagation and Recovery Diagnosis. , 2019, , .		5
50	Submarine: A subscription-based data streaming framework for integrating large facilities and advanced cyberinfrastructure. Concurrency Computation Practice and Experience, 2020, 32, e5256.	1.4	5
51	Enabling microservices management for Deep Learning applications across the Edge-Cloud Continuum. , 2021, , .		5
52	Ant Colony Optimization and its Application to Boolean Satisfiability for Digital VLSI Circuits. , 2006, , .		4
53	A Decentralized Computational Infrastructure for Grid-Based Parallel Asynchronous Iterative Applications. Journal of Grid Computing, 2006, 4, 355-372.	2.5	4
54	Enabling dynamic composition and coordination for autonomic Grid applications using the Rudder Agent framework. Knowledge Engineering Review, 2006, 21, 221-230.	2.1	4

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55	Enabling autonomic power-aware management of instrumented data centers. , 2009, , .		4
56	Energy-Aware Autonomic Framework for Cloud Protection and Self-Healing. , 2014, , .		4
57	Guest Editors' Introduction: Special Issue on Cloud of Clouds. IEEE Transactions on Computers, 2014, 63, 1-2.	2.4	4
58	Towards Distributed Software-Defined Environments. , 2017, , .		4
59	A General Performance and QoS Model for Distributed Software-Defined Environments. IEEE Transactions on Services Computing, 2022, 15, 228-240.	3.2	4
60	Optimizing Web Servers Using Page Rank Prefetching for Clustered Accesses. World Wide Web, 2002, 5, 25-40.	2.7	3
61	Controlling unresponsive connections in an active network architecture. International Journal of Network Management, 2003, 13, 289-305.	1.4	3
62	Addressing spatiotemporal and computational heterogeneity in structured adaptive mesh refinement. Computing and Visualization in Science, 2006, 9, 145-163.	1.2	3
63	Salsa: Scalable Asynchronous Replica Exchange for Parallel Molecular Dynamics Applications. , 0, , .		3
64	State of the Journal. IEEE Transactions on Parallel and Distributed Systems, 2018, 29, 1-1.	4.0	3
65	Autonomics at the Edge: Resource Orchestration for Edge Native Applications. IEEE Internet Computing, 2021, 25, 21-29.	3.2	3
66	Decentralized Data Sharing of Tissue Microarrays for Investigative Research in Oncology. Cancer Informatics, 2006, 2, 117693510600200.	0.9	2
67	Autonomic management of distributed systems using online clustering. , 2010, , .		2
68	Bio-inspired communications for coordination among autonomous underwater vehicles. , 2010, , .		2
69	Mining hidden mixture context with ADIOS-P to improve predictive pre-fetcher accuracy. , 2012, , .		2
70	Autonomic Clouds. , 2014, , .		2
71	Ensemble-Based Network Edge Processing. , 2018, , .		2
72	Big Data for Cyber-Physical Systems. IEEE Transactions on Big Data, 2020, 6, 606-608.	4.4	2

#	ARTICLE	IF	CITATIONS
73	EiC Editorial "Advancing Reproducibility in Parallel and Distributed Systems Research. IEEE Transactions on Parallel and Distributed Systems, 2022, 33, 2010-2010.	4.0	2
74	Evaluating policy-driven adaptation on the Edge-to-Cloud Continuum. , 2021, , .		2
75	SESAME: Scalable, Environment Sensitive Access Management Engine. Cluster Computing, 2006, 9, 19-27.	3.5	1
76	Special issue on computational finance. Concurrency Computation Practice and Experience, 2014, 26, 1607-1608.	1.4	1
77	Guest Editorial: Special Section on SC19 Student Cluster Competition. IEEE Transactions on Parallel and Distributed Systems, 2021, 32, 2606-2606.	4.0	1
78	Distributed-Object Computing Tools. , 2004, , 79-147.		0
79	Message-Passing Tools. , 2004, , 11-56.		0
80	Parallel and Distributed Computing. , 2004, , 1-10.		0
81	Software Development for Parallel and Distributed Computing. , 2004, , 189-207.		0
82	Distributed Shared Memory Tools. , 2004, , 57-77.		0
83	GridMate: A Portable Simulation Environment for Large-Scale Adaptive Scientific Applications. , 2008, , .		0
84	Dynamic Decision and Data-Driven Strategies for the Optimal Management of Subsurface Geo-Systems. Journal of Algorithms and Computational Technology, 2011, 5, 645-665.	0.4	0
85	Editor's Note: IEEE Transactions on Parallel and Distributed Systems (TPDS) Reproducibility Initiative, June 2019. IEEE Transactions on Parallel and Distributed Systems, 2019, 30, 1690-1690.	4.0	0
86	Parallel and Distributed Systems. Computer, 2020, 53, 7-8.	1.2	0
87	Enabling Reproducible Research in Parallel and Distributed Systems. Computer, 2021, 54, 4-5.	1.2	0