Ivan Rodero

List of Publications by Year
in descending order

90 papers	1,261 citations	687363 13 h-index	501196 28 g-index
95 all docs	95 docs citations	95 times ranked	1278 citing authors

#	Article	IF	Citations
1	Fair sharing of network resources among workflow ensembles. Cluster Computing, 2022, 25, 2873-2891.	5.0	1
2	Facilitating Data Discovery for Large-scale Science Facilities using Knowledge Networks. , 2021, , .		3
3	Leveraging user access patterns and advanced cyberinfrastructure to accelerate data delivery from shared-use scientific observatories. Future Generation Computer Systems, 2021, 122, 14-27.	7.5	3
4	Evaluating policy-driven adaptation on the Edge-to-Cloud Continuum. , 2021, , .		2
5	Data Cyberinfrastructure for End-to-End Science. Computing in Science and Engineering, 2020, 22, 60-71.	1.2	10
6	Submarine: A subscriptionâ€based data streaming framework for integrating large facilities and advanced cyberinfrastructure. Concurrency Computation Practice and Experience, 2020, 32, e5256.	2.2	5
7	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
8	An edge-aware autonomic runtime for data streaming and in-transit processing. Future Generation Computer Systems, 2020, 110, 107-118.	7.5	1
9	Toward a Comprehensive and Integrated Strategy of the European Marine Research Infrastructures for Ocean Observations. Frontiers in Marine Science, 2020, 7, .	2.5	21
10	The Virtual Data Collaboratory: A Regional Cyberinfrastructure for Collaborative Data-Driven Research. Computing in Science and Engineering, 2020, 22, 79-92.	1.2	8
11	Harnessing the Computing Continuum for Urgent Science. Performance Evaluation Review, 2020, 48, 41-46.	0.6	8
12	Application Aware Software Defined Flows of Workflow Ensembles. , 2020, , .		1
13	Optimizing Performance and Computing Resource Management of In-memory Big Data Analytics with Disaggregated Persistent Memory. , 2019, , .		1
14	Exploring the Potential of Elastic Computing Clusters in Geo-Distributed Data Centers with Fast Fabric Interconnection. , 2019, , .		0
15	Towards a Smart, Internet-Scale Cache Service for Data Intensive Scientific Applications. , 2019, , .		3
16	Toward a Dynamic Network-Centric Distributed Cloud Platform for Scientific Workflows: A Case Study for Adaptive Weather Sensing. , 2019, , .		15
17	End-to-end energy models for Edge Cloud-based IoT platforms: Application to data stream analysis in IoT. Future Generation Computer Systems, 2018, 87, 667-678.	7.5	51
18	Exploring the Potential of Next Generation Software-Defined in Memory Frameworks. , 2018, , .		0

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19	Runtime Management of Data Quality for Scientific Observatories Using Edge and In-Transit Resources. , 2018, , .		1
20	Exploring Power Budget Scheduling Opportunities and Tradeoffs for AMR-Based Applications. , 2018, , .		0
21	The Ocean Observatories Initiative. Oceanography, 2018, 31, 16-35.	1.0	57
22	Modelling and Implementing Social Community Clouds. IEEE Transactions on Services Computing, 2017, 10, 410-422.	4.6	11
23	Exploring the Potential of FreeBSD Virtualization in Containerized Environments. , 2017, , .		0
24	Leveraging Renewable Energy in Edge Clouds for Data Stream Analysis in IoT. , 2017, , .		15
25	Enabling Distributed Software-Defined Environments Using Dynamic Infrastructure Service Composition. , 2017, , .		6
26	An Unsupervised Approach for Online Detection and Mitigation of High-Rate DDoS Attacks Based on an In-Memory Distributed Graph Using Streaming Data and Analytics. , 2017, , .		7
27	Supporting Data-Driven Workflows Enabled by Large Scale Observatories. , 2017, , .		6
28	WA-Dataspaces: Exploring the Data Staging Abstractions for Wide-Area Distributed Scientific Workflows. , 2017, , .		2
29	Understanding Behavior Trends of Big Data Frameworks in Ongoing Software-Defined Cyber-Infrastructure. , 2017, , .		1
30	Evaluation of In-Situ Analysis Strategies at Scale for Power Efficiency and Scalability. , 2016, , .		9
31	Persistent Data Staging Services for Data Intensive In-situ Scientific Workflows. , 2016, , .		6
32	In-situ feature-based objects tracking for data-intensive scientific and enterprise analytics workflows. Cluster Computing, 2015, 18, 29-40.	5.0	5
33	Incentivising resource sharing in social clouds. Concurrency Computation Practice and Experience, 2015, 27, 1483-1497.	2.2	12
34	Uncertainty-Aware Autonomic Resource Provisioning for Mobile Cloud Computing. IEEE Transactions on Parallel and Distributed Systems, 2015, 26, 2363-2372.	5.6	49
35	Exploring energy-performance-quality tradeoffs for scientific workflows with in-situ data analyses. Computer Science - Research and Development, 2015, 30, 207-218.	2.7	6
36	Energy-Aware Autonomic Framework for Cloud Protection and Self-Healing. , 2014, , .		4

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37	Federated Computing for the Masses--Aggregating Resources to Tackle Large-Scale Engineering Problems. Computing in Science and Engineering, 2014, 16, 62-72.	1.2	10
38	Cloud-Based Data Analytics Framework for Autonomic Smart Grid Management. , 2014, , .		5
39	Content-based histopathology image retrieval using CometCloud. BMC Bioinformatics, 2014, 15, 287.	2.6	36
40	Collaborative marketplaces for eScience: A medical imaging use case. , 2014, , .		1
41	Sensitivity Analysis for Time Dependent Problems: Optimal Checkpoint-Recompute HPC Workflows. , 2014, , .		0
42	Software Design for Passing Sarbanes-Oxley in Cloud Computing. , 2014, , 1659-1674.		0
43	Federating Advanced Cyberinfrastructures with Autonomic Capabilities. , 2014, , 201-227.		0
44	Cloud Paradigms and Practices for Computational and Data-Enabled Science and Engineering. Computing in Science and Engineering, 2013, 15, 10-18.	1.2	52
45	Exploring energy and performance behaviors of data-intensive scientific workflows on systems with deep memory hierarchies. , 2013, , .		14
46	Enabling Interoperability among Grid Meta-Schedulers. Journal of Grid Computing, 2013, 11, 311-336.	3.9	42
47	A case for MapReduce over the internet. , 2013, , .		2
48	Exploring power behaviors and trade-offs of in-situ data analytics. , 2013, , .		27
49	Enabling autonomic computing on federated advanced cyberinfrastructures. , 2013, , .		3
50	Exploring cross-layer power management for PGAS applications on the SCC platform. , 2012, , .		8
51	An autonomic resource provisioning framework for mobile computing grids. , 2012, , .		12
52	In-situ Feature-Based Objects Tracking for Large-Scale Scientific Simulations. , 2012, , .		22
53	Energy-Efficient Thermal-Aware Autonomic Management of Virtualized HPC Cloud Infrastructure. Journal of Grid Computing, 2012, 10, 447-473.	3.9	61
54	Incentivising Resource Sharing in Social Clouds. , 2012, , .		4

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55	Cloud federation in a layered service model. Journal of Computer and System Sciences, 2012, 78, 1330-1344.	1.2	170
56	Accelerating MapReduce Analytics Using CometCloud. , 2012, , .		8
57	Adaptive memory power management techniques for HPC workloads. , 2011, , .		4
58	Autonomic Management of Application Workflows on Hybrid Computing Infrastructure. Scientific Programming, 2011, 19, 75-89.	0.7	41
59	Investigating MapReduce framework extensions for efficient processing of geographically scattered datasets. Performance Evaluation Review, 2011, 39, 116-118.	0.6	8
60	Energy-Aware Application-Centric VM Allocation for HPC Workloads. , 2011, , .		38
61	Grid broker selection strategies using aggregated resource information. Future Generation Computer Systems, 2010, 26, 72-86.	7.5	45
62	Investigating the potential of application-centric aggressive power management for HPC workloads. , 2010, , .		20
63	Autonomic management of distributed systems using online clustering. , 2010, , .		2
64	Towards energy-aware autonomic provisioning for virtualized environments. , 2010, , .		11
65	The Role of Grid Computing Technologies in Cloud Computing. , 2010, , 183-218.		8
66	Towards energy-efficient reactive thermal management in instrumented datacenters. , 2010, , .		14
67	Energy-efficient application-aware online provisioning for virtualized clouds and data centers. , 2010, , .		60
68	Enabling GPU and Many-Core Systems in Heterogeneous HPC Environments Using Memory Considerations. , 2010, , .		5
69	An experimental system for grid meta-broker evaluation. , 2009, , .		2
70	A novel framework for a unified international system of volcano early warning and hazard tracking. , 2009, , .		0
71	A google earth based distributed infrastructure to support natural disaster response. , 2009, , .		1
72	Evaluation of Coordinated Grid Scheduling Strategies. , 2009, , .		26

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73	Broker Selection Strategies in Interoperable Grid Systems. , 2009, , .		2
74	Meta-Brokering Solutions for Expanding Grid Middleware Limitations. Lecture Notes in Computer Science, 2009, , 199-210.	1.3	1
75	Looking for an Evolution of Grid Scheduling: Meta-Brokering. , 2008, , 105-119.		17
76	Enabling Interoperability among Meta-Schedulers. , 2008, , .		22
77	Modeling and Evaluating Interoperable Grid Systems. , 2008, , .		3
78	Enabling Autonomic Meta-Scheduling in Grid Environments. , 2008, , .		7
79	Coordinated Co-allocation Scheduling on Heterogeneous Clusters of SMPs. , 2008, , .		0
80	Transparent grid enablement of weather research and forecasting. , 2008, , .		9
81	The Grid Backfilling: a Multi-Site Scheduling Architecture with Data Mining Prediction Techniques. , 2008, , 137-152.		11
82	Data Model for Describing Grid Resource Broker Capabilities. , 2008, , 39-52.		16
83	Towards Uniform and Transparent Access to the Grid Information Using the Palantir. , 2008, , 203-217.		0
84	Integration of the Enanos Execution Framework with GRMS. , 2008, , 25-39.		0
85	Uniform job monitoring in the HPC-Europa project: data model, API and services. International Journal of Web and Grid Services, 2007, 3, 333.	0.5	4
86	The Palantir Grid Meta-Information System. , 2006, , .		2
87	Uniform Job Monitoring using the HPC-Europa Single Point of Access. , 2006, , .		5
88	How the JSDL can exploit the parallelism?. , 2006, , .		7
89	eNANOS Grid Resource Broker. Lecture Notes in Computer Science, 2005, , 111-121.	1.3	30
90	Software Design for Passing Sarbanes-Oxley in Cloud Computing. , 0, , 27-42.		0