

Ivan Rodero

List of Publications by Year in descending order

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Version: 2024-02-01

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 | Cloud federation in a layered service model. Journal of Computer and System Sciences, 2012, 78, 1330-1344. | 1.2 | 170 |
| 2 | Energy-Efficient Thermal-Aware Autonomic Management of Virtualized HPC Cloud Infrastructure. Journal of Grid Computing, 2012, 10, 447-473. | 3.9 | 61 |
| 3 | Energy-efficient application-aware online provisioning for virtualized clouds and data centers. , 2010, , . | | 60 |
| 4 | The Ocean Observatories Initiative. Oceanography, 2018, 31, 16-35. | 1.0 | 57 |
| 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 | 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 |
| 7 | Uncertainty-Aware Autonomic Resource Provisioning for Mobile Cloud Computing. IEEE Transactions on Parallel and Distributed Systems, 2015, 26, 2363-2372. | 5.6 | 49 |
| 8 | Grid broker selection strategies using aggregated resource information. Future Generation Computer Systems, 2010, 26, 72-86. | 7.5 | 45 |
| 9 | Enabling Interoperability among Grid Meta-Schedulers. Journal of Grid Computing, 2013, 11, 311-336. | 3.9 | 42 |
| 10 | Autonomic Management of Application Workflows on Hybrid Computing Infrastructure. Scientific Programming, 2011, 19, 75-89. | 0.7 | 41 |
| 11 | Energy-Aware Application-Centric VM Allocation for HPC Workloads. , 2011, , . | | 38 |
| 12 | Content-based histopathology image retrieval using CometCloud. BMC Bioinformatics, 2014, 15, 287. | 2.6 | 36 |
| 13 | eNANOS Grid Resource Broker. Lecture Notes in Computer Science, 2005, , 111-121. | 1.3 | 30 |
| 14 | Exploring power behaviors and trade-offs of in-situ data analytics. , 2013, , . | | 27 |
| 15 | Evaluation of Coordinated Grid Scheduling Strategies. , 2009, , . | | 26 |
| 16 | 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 |
| 17 | Enabling Interoperability among Meta-Schedulers. , 2008, , . | | 22 |
| 18 | In-situ Feature-Based Objects Tracking for Large-Scale Scientific Simulations. , 2012, , . | | 22 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Toward a Comprehensive and Integrated Strategy of the European Marine Research Infrastructures for Ocean Observations. <i>Frontiers in Marine Science</i> , 2020, 7, . | 2.5 | 21 |
| 20 | Investigating the potential of application-centric aggressive power management for HPC workloads. , 2010, , . | | 20 |
| 21 | Looking for an Evolution of Grid Scheduling: Meta-Brokering. , 2008, , 105-119. | | 17 |
| 22 | Data Model for Describing Grid Resource Broker Capabilities. , 2008, , 39-52. | | 16 |
| 23 | Leveraging Renewable Energy in Edge Clouds for Data Stream Analysis in IoT. , 2017, , . | | 15 |
| 24 | Toward a Dynamic Network-Centric Distributed Cloud Platform for Scientific Workflows: A Case Study for Adaptive Weather Sensing. , 2019, , . | | 15 |
| 25 | Towards energy-efficient reactive thermal management in instrumented datacenters. , 2010, , . | | 14 |
| 26 | Exploring energy and performance behaviors of data-intensive scientific workflows on systems with deep memory hierarchies. , 2013, , . | | 14 |
| 27 | An autonomic resource provisioning framework for mobile computing grids. , 2012, , . | | 12 |
| 28 | Incentivising resource sharing in social clouds. <i>Concurrency Computation Practice and Experience</i> , 2015, 27, 1483-1497. | 2.2 | 12 |
| 29 | Towards energy-aware autonomic provisioning for virtualized environments. , 2010, , . | | 11 |
| 30 | Modelling and Implementing Social Community Clouds. <i>IEEE Transactions on Services Computing</i> , 2017, 10, 410-422. | 4.6 | 11 |
| 31 | The Grid Backfilling: a Multi-Site Scheduling Architecture with Data Mining Prediction Techniques. , 2008, , 137-152. | | 11 |
| 32 | Federated Computing for the Masses--Aggregating Resources to Tackle Large-Scale Engineering Problems. <i>Computing in Science and Engineering</i> , 2014, 16, 62-72. | 1.2 | 10 |
| 33 | Data Cyberinfrastructure for End-to-End Science. <i>Computing in Science and Engineering</i> , 2020, 22, 60-71. | 1.2 | 10 |
| 34 | Transparent grid enablement of weather research and forecasting. , 2008, , . | | 9 |
| 35 | Evaluation of In-Situ Analysis Strategies at Scale for Power Efficiency and Scalability. , 2016, , . | | 9 |
| 36 | The Role of Grid Computing Technologies in Cloud Computing. , 2010, , 183-218. | | 8 |

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| 37 | Investigating MapReduce framework extensions for efficient processing of geographically scattered datasets. Performance Evaluation Review, 2011, 39, 116-118. | 0.6 | 8 |
| 38 | Exploring cross-layer power management for PGAS applications on the SCC platform. , 2012, , . | | 8 |
| 39 | Accelerating MapReduce Analytics Using CometCloud. , 2012, , . | | 8 |
| 40 | The Virtual Data Collaboratory: A Regional Cyberinfrastructure for Collaborative Data-Driven Research. Computing in Science and Engineering, 2020, 22, 79-92. | 1.2 | 8 |
| 41 | Harnessing the Computing Continuum for Urgent Science. Performance Evaluation Review, 2020, 48, 41-46. | 0.6 | 8 |
| 42 | How the JSDL can exploit the parallelism?. , 2006, , . | | 7 |
| 43 | Enabling Autonomic Meta-Scheduling in Grid Environments. , 2008, , . | | 7 |
| 44 | 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 |
| 45 | 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 |
| 46 | Persistent Data Staging Services for Data Intensive In-situ Scientific Workflows. , 2016, , . | | 6 |
| 47 | Enabling Distributed Software-Defined Environments Using Dynamic Infrastructure Service Composition. , 2017, , . | | 6 |
| 48 | Supporting Data-Driven Workflows Enabled by Large Scale Observatories. , 2017, , . | | 6 |
| 49 | Uniform Job Monitoring using the HPC-Europa Single Point of Access. , 2006, , . | | 5 |
| 50 | Enabling GPU and Many-Core Systems in Heterogeneous HPC Environments Using Memory Considerations. , 2010, , . | | 5 |
| 51 | Cloud-Based Data Analytics Framework for Autonomic Smart Grid Management. , 2014, , . | | 5 |
| 52 | In-situ feature-based objects tracking for data-intensive scientific and enterprise analytics workflows. Cluster Computing, 2015, 18, 29-40. | 5.0 | 5 |
| 53 | Submarine: A subscription-based data streaming framework for integrating large facilities and advanced cyberinfrastructure. Concurrency Computation Practice and Experience, 2020, 32, e5256. | 2.2 | 5 |
| 54 | 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 |

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| 55 | Adaptive memory power management techniques for HPC workloads. , 2011, , . | | 4 |
| 56 | Incentivising Resource Sharing in Social Clouds. , 2012, , . | | 4 |
| 57 | Energy-Aware Autonomic Framework for Cloud Protection and Self-Healing. , 2014, , . | | 4 |
| 58 | Modeling and Evaluating Interoperable Grid Systems. , 2008, , . | | 3 |
| 59 | Towards a Smart, Internet-Scale Cache Service for Data Intensive Scientific Applications. , 2019, , . | | 3 |
| 60 | Facilitating Data Discovery for Large-scale Science Facilities using Knowledge Networks. , 2021, , . | | 3 |
| 61 | 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 |
| 62 | Enabling autonomic computing on federated advanced cyberinfrastructures. , 2013, , . | | 3 |
| 63 | The Palantir Grid Meta-Information System. , 2006, , . | | 2 |
| 64 | An experimental system for grid meta-broker evaluation. , 2009, , . | | 2 |
| 65 | Broker Selection Strategies in Interoperable Grid Systems. , 2009, , . | | 2 |
| 66 | Autonomic management of distributed systems using online clustering. , 2010, , . | | 2 |
| 67 | A case for MapReduce over the internet. , 2013, , . | | 2 |
| 68 | WA-Dataspaces: Exploring the Data Staging Abstractions for Wide-Area Distributed Scientific Workflows. , 2017, , . | | 2 |
| 69 | Evaluating policy-driven adaptation on the Edge-to-Cloud Continuum. , 2021, , . | | 2 |
| 70 | A google earth based distributed infrastructure to support natural disaster response. , 2009, , . | | 1 |
| 71 | Collaborative marketplaces for eScience: A medical imaging use case. , 2014, , . | | 1 |
| 72 | Understanding Behavior Trends of Big Data Frameworks in Ongoing Software-Defined Cyber-Infrastructure. , 2017, , . | | 1 |

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|----|--|-----|-----------|
| 73 | Runtime Management of Data Quality for Scientific Observatories Using Edge and In-Transit Resources. , 2018, , . | | 1 |
| 74 | Optimizing Performance and Computing Resource Management of In-memory Big Data Analytics with Disaggregated Persistent Memory. , 2019, , . | | 1 |
| 75 | An edge-aware autonomic runtime for data streaming and in-transit processing. Future Generation Computer Systems, 2020, 110, 107-118. | 7.5 | 1 |
| 76 | Meta-Brokering Solutions for Expanding Grid Middleware Limitations. Lecture Notes in Computer Science, 2009, , 199-210. | 1.3 | 1 |
| 77 | Fair sharing of network resources among workflow ensembles. Cluster Computing, 2022, 25, 2873-2891. | 5.0 | 1 |
| 78 | Application Aware Software Defined Flows of Workflow Ensembles. , 2020, , . | | 1 |
| 79 | Coordinated Co-allocation Scheduling on Heterogeneous Clusters of SMPs. , 2008, , . | | 0 |
| 80 | A novel framework for a unified international system of volcano early warning and hazard tracking. , 2009, , . | | 0 |
| 81 | Sensitivity Analysis for Time Dependent Problems: Optimal Checkpoint-Recompute HPC Workflows. , 2014, , . | | 0 |
| 82 | Exploring the Potential of FreeBSD Virtualization in Containerized Environments. , 2017, , . | | 0 |
| 83 | Exploring the Potential of Next Generation Software-Defined in Memory Frameworks. , 2018, , . | | 0 |
| 84 | Exploring Power Budget Scheduling Opportunities and Tradeoffs for AMR-Based Applications. , 2018, , . | | 0 |
| 85 | Exploring the Potential of Elastic Computing Clusters in Geo-Distributed Data Centers with Fast Fabric Interconnection. , 2019, , . | | 0 |
| 86 | Towards Uniform and Transparent Access to the Grid Information Using the Palantir. , 2008, , 203-217. | | 0 |
| 87 | Software Design for Passing Sarbanes-Oxley in Cloud Computing. , 2014, , 1659-1674. | | 0 |
| 88 | Federating Advanced Cyberinfrastructures with Autonomic Capabilities. , 2014, , 201-227. | | 0 |
| 89 | Software Design for Passing Sarbanes-Oxley in Cloud Computing. , 0, , 27-42. | | 0 |
| 90 | Integration of the Enanos Execution Framework with GRMS. , 2008, , 25-39. | | 0 |