Renato J Figueiredo

List of Publications by Year
in descending order

109 papers	1,107 citations	840119 11 h-index	676716 22 g-index
114 all docs	114 docs citations	114 times ranked	873 citing authors

#	Article	IF	Citations
1	From virtualized resources to virtual computing grids: the In-VIGO system. Future Generation Computer Systems, 2005, 21, 896-909.	4.9	148
2	Experimental study of virtual machine migration in support of reservation of cluster resources. , 2007, , .		91
3	Design of the FutureGrid experiment management framework. , 2010, , .		42
4	Punch: web portal for running tools. IEEE Micro, 2000, 20, 38-47.	1.8	35
5	Advancing lake and reservoir water quality management with near-term, iterative ecological forecasting. Inland Waters, 2022, 12, 107-120.	1.1	35
6	MALMOS: Machine Learning-Based Mobile Offloading Scheduler with Online Training. , 2015, , .		33
7	Ecosystem-scale nutrient cycling responses to increasing air temperatures vary with lake trophic state. Ecological Modelling, 2020, 430, 109134.	1.2	33
8	Grid-computing portals and security issues. Journal of Parallel and Distributed Computing, 2003, 63, 1006-1014.	2.7	32
9	SocialVPN: Enabling wide-area collaboration with integrated social and overlay networks. Computer Networks, 2010, 54, 1926-1938.	3.2	32
10	Machine Learning-Based Runtime Scheduler for Mobile Offloading Framework. , 2013, , .		32
11	A Near‐Term Iterative Forecasting System Successfully Predicts Reservoir Hydrodynamics and Partitions Uncertainty in Real Time. Water Resources Research, 2020, 56, e2019WR026138.	1.7	31
12	Hierarchical fault tolerance for nanoscale memories. IEEE Nanotechnology Magazine, 2006, 5, 407-414.	1.1	27
13	On the Design of Virtual Machine Sandboxes for Distributed Computing in Wide-area Overlays of Virtual Workstations. , 2006, , .		27
14	Distributed File System Virtualization Techniques Supporting On-Demand Virtual Machine Environments for Grid Computing. Cluster Computing, 2006, 9, 45-56.	3.5	23
15	I/O processing in a virtualized platform. , 2007, , .		20
16	WOW: Self-organizing Wide Area Overlay Networks of Virtual Workstations. Journal of Grid Computing, 2007, 5, 151-172.	2.5	18
17	Integrating Overlay and Social Networks for Seamless P2P Networking. , 2008, , .		18
18	Enhancing collaboration between ecologists and computer scientists: lessons learned and recommendations forward. Ecosphere, 2019, 10, e02753.	1.0	17

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19	vPFS: Bandwidth virtualization of parallel storage systems. , 2012, , .		16
20	Kangaroo: A Tenant-Centric Software-Defined Cloud Infrastructure. , 2015, , .		15
21	Towards energy-efficient reactive thermal management in instrumented datacenters. , 2010, , .		14
22	A Computational- and Storage-Cloud for Integration of Biodiversity Collections. , 2013, , .		14
23	Application Resource Demand Phase Analysis and Prediction in Support of Dynamic Resource Provisioning. , 2007, , .		13
24	On the design of scalable, self-configuring virtual networks. , 2009, , .		12
25	CloudBay: Enabling an Online Resource Market Place for Open Clouds. , 2012, , .		12
26	OpenCL-Based Remote Offloading Framework for Trusted Mobile Cloud Computing. , 2013, , .		12
27	Demo: EdgeVPN.io: Open-source Virtual Private Network for Seamless Edge Computing with Kubernetes. , 2020, , .		12
28	Adaptive Predictor Integration for System Performance Prediction. , 2007, , .		11
29	GRAPLEr: A distributed collaborative environment for lake ecosystem modeling that integrates overlay networks, highâ€throughput computing, and WEB services. Concurrency Computation Practice and Experience, 2017, 29, e4139.	1.4	9
30	TinCan: User-Defined P2P Virtual Network Overlays for Ad-hoc Collaboration. EAI Endorsed Transactions on Collaborative Computing, 2014, 1, e4.	0.2	9
31	Parallel Processing Framework on a P2P System Using Map and Reduce Primitives. , 2011, , .		8
32	MatchTree: Flexible, scalable, and fault-tolerant wide-area resource discovery with distributed matchmaking and aggregation. Future Generation Computer Systems, 2013, 29, 1596-1610.	4.9	8
33	PRAGMAâ€ENT: An International SDN testbed for cyberinfrastructure in the Pacific Rim. Concurrency Computation Practice and Experience, 2017, 29, e4138.	1.4	8
34	Towards Real-Time Distributed Signal Modeling for Brain-Machine Interfaces. Lecture Notes in Computer Science, 2007, , 964-971.	1.0	8
35	A Regional Testbed for Storm Surge and Coastal Inundation Modelsâ€"An Overview. , 2012, , .		8
36	Decentralized Dynamic Host Configuration in Wide-Area Overlays of Virtual Workstations. , 2007, , .		7

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37	System-level performance phase characterization for on-demand resource provisioning. , 2007, , .		7
38	Simplifying resource sharing in voluntary grid computing with the grid appliance. Parallel and Distributed Processing Symposium (IPDPS), Proceedings of the International Conference on, 2008, , .	1.0	7
39	GatorShare. , 2010, , .		7
40	Self-configuring Software-defined Overlay Bypass for Seamless Inter- and Intra-cloud Virtual Networking. , 2016, , .		7
41	On the Design and Implementation of IP-over-P2P Overlay Virtual Private Networks. IEICE Transactions on Communications, 2020, E103.B, 2-10.	0.4	7
42	Seamless Access to Decentralized Storage Services in Computational Grids via a Virtual File System. Cluster Computing, 2004, 7, 113-122.	3.5	6
43	Science gateways made easy: the In-VIGO approach. Concurrency Computation Practice and Experience, 2007, 19, 905-919.	1.4	6
44	Improving peer connectivity in wide-area overlays of virtual workstations. , 2008, , .		6
45	SNARF. , 2012, , .		6
46	Frugal: Building Degree-Constrained Overlay Topology from Social Graphs. , 2017, , .		6
47	Cyber-Workstation for Computational Neuroscience. Frontiers in Neuroengineering, 2010, 2, 17.	4.8	6
48	Archer: A Community Distributed Computing Infrastructure for Computer Architecture Research and Education. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2009, , 70-84.	0.2	6
49	BMI cyberworkstation: Enabling dynamic data-driven brain-machine interface research through cyberinfrastructure. , 2008, 2008, 646-9.		5
50	A Simulation Framework for the Analysis of the TLB Behavior in Virtualized Environments. , 2010, , .		5
51	On the use of virtualization technologies to support uninterrupted IT services: A case study with lessons learned from the Great East Japan Earthquake. , 2012, , .		5
52	Location-based Timely Cooperation over Social Private Network. , 2014, , .		5
53	A user-level secure grid file system. , 2007, , .		4
54	Learning-aided predictor integration for system performance prediction. Cluster Computing, 2007, 10, 425-442.	3.5	4

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55	On the Use of Social Networking Groups for Automatic Configuration of Virtual Grid Environments. , 2008, , .		4
56	TMT - A TLB Tag Management Framework for Virtualized Platforms. , 2009, , .		4
57	On the Performance of Tagged Translation Lookaside Buffers: A Simulation-Driven Analysis. , 2011, , .		4
58	On the design and implementation of a simulator for parallel file system research. , 2013, , .		4
59	Enabling decentralised microblogging through P2PVPNs. International Journal of Security and Networks, 2013, 8, 169.	0.1	4
60	SAND: Social-aware, network-failure resilient, and decentralized microblogging system. Future Generation Computer Systems, 2019, 93, 637-650.	4.9	4
61	Edge-to-cloud Virtualized Cyberinfrastructure for Near Real-time Water Quality Forecasting in Lakes and Reservoirs. , 2021, , .		4
62	On the Use of Virtualization and Service Technologies to Enable Grid-Computing. Lecture Notes in Computer Science, 2005, , 1-12.	1.0	4
63	Emergency Response using Ephemeral Social Communities across Online Social Networks. EAI Endorsed Transactions on Collaborative Computing, 2015, 1, 150805.	0.2	4
64	Simulation of Storm Surge Using Grid Computing. , 2006, , 357.		3
65	On the design of autonomic, decentralized VPNs. , 2010, , .		3
66	OverSoc: Social Profile Based Overlays. , 2010, , .		3
67	Experiences with self-organizing, decentralized grids using the grid appliance. , 2011, , .		3
68	Litter: A Lightweight Peer-to-Peer Microblogging Service. , 2011, , .		3
69	Strengthening the Resiliency of a Coastal Transportation System through Integrated Simulation of Storm Surge, Inundation, and Nonrecurrent Congestion in Northeast Florida. Journal of Marine Science and Engineering, 2014, 2, 287-305.	1.2	3
70	Impact of country-scale Internet disconnection on structured and social P2P overlays. , 2015, , .		3
71	PARES: Packet Rewriting on SDN-Enabled Edge Switches for Network Virtualization in Multi-Tenant Cloud Data Centers. , 2017, , .		3
72	A Pipeline for Deep Learning with Specimen Images in iDigBio - Applying and Generalizing an Examination of Mercury Use in Preparing Herbarium Specimens. Biodiversity Information Science and Standards, 0, 2, e25699.	0.0	3

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73	ROW-FS: A User-Level Virtualized Redirect-on-Write Distributed File System for Wide Area Applications. , 2007, , 21-34.		3
74	A network-computing infrastructure for tool experimentation applied to computer architecture education. , 2000, , .		2
75	Architecture and Performance of a Grid-Enabled Lookup-Based Biomedical Optimization Application: Light Scattering Spectroscopy. IEEE Transactions on Information Technology in Biomedicine, 2007, 11, 170-178.	3.6	2
76	Design of high-yield defect-tolerant self-assembled nanoscale memories. , 2007, , .		2
77	Towards a uniform self-configuring virtual private network for workstations and clusters in grid computing. , 2009, , .		2
78	Improving peer connectivity in wide-area overlays of virtual workstations. Cluster Computing, 2009, 12, 239-256.	3.5	2
79	Model development, testing and experimentation in a CyberWorkstation for Brain-Machine Interface research. , 2010, 2010, 4339-42.		2
80	PonD. , 2012, , .		2
81	TMT: A TLB Tag Management Framework for Virtualized Platforms. International Journal of Parallel Programming, 2012, 40, 353-380.	1.1	2
82	A multidimensional heuristic for social routing in peer-to-peer networks. , 2013, , .		2
83	The dispatch time aligning I/O scheduling for parallel file systems. Cluster Computing, 2015, 18, 1025-1039.	3.5	2
84	Wide-Scale Internet Disconnection: Impact and Recovery on Social-Based P2P Overlays. IEEE Transactions on Network Science and Engineering, 2019, 6, 734-747.	4.1	2
85	Middleware Integration and Deployment Strategies for Cyberinfrastructures. , 2008, , 187-198.		2
86	''Grid''-based Particle Tracking in Florida Bay. , 2004, , .		2
87	Towards Island Networks: SDN-Enabled Virtual Private Networks with Peer-to-Peer Overlay Links for Edge Computing. Lecture Notes in Computer Science, 2018, , 122-133.	1.0	2
88	Provisioning of virtual environments for wide area desktop grids through redirect-on-write distributed file system. Parallel and Distributed Processing Symposium (IPDPS), Proceedings of the International Conference on, 2008, , .	1.0	1
89	Techniques for low-latency proxy selection in wide-area P2P networks. , 2010, , .		1
90	Advancing Educational Capacity: Using the SCOOP Educational Virtual Appliance. , 2010, , .		1

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91	Grid Appliance — On the design of self-organizing, decentralized grids. , 2010, , .		1
92	SOLARE: Self-Organizing Latency-Aware Resource Ensemble. , 2011, , .		1
93	Educational virtual clusters for on-demand MPI/Hadoop/Condor in FutureGrid. , 2011, , .		1
94	Experiences with self-organizing, decentralized grids using the grid appliance. Cluster Computing, 2013, 16, 265-283.	3.5	1
95	PerSoNet: Software-Defined Overlay Virtual Networks Spanning Personal Devices Across Social Network Users. , 2018, , .		1
96	SEnD: A Social Network Friendship Enhanced Decentralized System to Circumvent Censorships. IEEE Transactions on Services Computing, 2022, 15, 346-360.	3.2	1
97	Facilitating the deployment of ad-hoc virtual organizations with integrated social and overlay networks. , 2008, , .		0
98	Virtualization-based bandwidth management for parallel storage systems. , 2010, , .		0
99	Towards Collaborative Research and Education in Computer Architecture with the Archer System. , 2010, , .		0
100	SMTPS Introduction. , 2012, , .		0
101	FutureGrid education. , 2012, , .		0
102	The Coastal Science Educational Virtual Appliance (CSEVA). , 2012, , .		0
103	A peer-to-peer microblogging service based on IP multicast and social virtual private networking. , 2013, , .		0
104	Thoughts on the State of Cloud over the Next Five Years. IEEE Cloud Computing, 2014, 1, 26-40.	5.3	0
105	On the Performance and Cost of Cloud-Assisted Multi-path Bulk Data Transfer. , 2017, , .		0
106	SocialEdge: Enabling Trusted Data Processing Workflow in Smart Communities. , 2019, , .		0
107	Demo: Software-defined Virtual Networking Across Multiple Edge and Cloud Providers with EdgeVPN.io. , 2021, , .		0
108	A Pipeline for Processing Specimen Images in iDigBio - Applying and Generalizing an Examination of Mercury Use in Preparing Herbarium Specimens. Biodiversity Information Science and Standards, 0, 1, e20326.	0.0	0

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109	Intelligent Live Video Streaming for Object Detection. , 2021, , .		0