

Luis Rodrigues

List of Publications by Year in descending order

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Version: 2024-02-01

180
papers

2,143
citations

687335

13
h-index

642715

23
g-index

189
all docs

189
docs citations

189
times ranked

976
citing authors

#	ARTICLE	IF	CITATIONS
1	Introduction to Reliable and Secure Distributed Programming. , 2011, , .		186
2	Distributed Systems for System Architects. Advances in Distributed Computing and Middleware, 2001, , .	0.0	101
3	D2STM: Dependable Distributed Software Transactional Memory. , 2009, , .		92
4	ChainReaction. , 2013, , .		84
5	Fault-tolerant broadcasts in CAN. , 0, , .		77
6	HyParView: A Membership Protocol for Reliable Gossip-Based Broadcast. , 2007, , .		67
7	CesiumSpray: a Precise and Accurate Global Time Service for Large-scale Systems. Real-Time Systems, 1997, 12, 243-294.	1.3	65
8	When Scalability Meets Consistency: Genuine Multiversion Update-Serializable Partial Data Replication. , 2012, , .		65
9	A neural network for shortest path computation. IEEE Transactions on Neural Networks, 2001, 12, 1067-1073.	4.2	62
10	Epidemic Broadcast Trees. , 2007, , .		53
11	Virtues and limitations of commodity hardware transactional memory. , 2014, , .		48
12	Gossiping on MANETs. Operating Systems Review (ACM), 2007, 41, 67-74.	1.9	47
13	Cloud-TM. Operating Systems Review (ACM), 2010, 44, 1-6.	1.9	42
14	Adaptive gossip-based broadcast. , 0, , .		37
15	Scalable QoS-Based Event Routing in Publish-Subscribe Systems. , 2005, , .		33
16	NEEM: network-friendly epidemic multicast. , 0, , .		30
17	Towards distributed software transactional memory systems. , 2008, , .		30
18	Saturn. , 2017, , .		30

#	ARTICLE	IF	CITATIONS
19	Self-Management of Adaptable Component-Based Applications. IEEE Transactions on Software Engineering, 2013, 39, 403-421.	5.6	29
20	A Power-Aware Broadcasting Algorithm. , 2006, , .		27
21	A <scp>uto</scp> P <scp>lacer</scp>. ACM Transactions on Autonomous and Adaptive Systems, 2015, 9, 1-30.	0.8	26
22	Scalable atomic multicast. , 0, , .		23
23	Emergent Structure in Unstructured Epidemic Multicast. , 2007, , .		23
24	Concurrency debugging with differential schedule projections. , 2015, , .		22
25	An indulgent uniform total order algorithm with optimistic delivery. , 0, , .		21
26	Atomic broadcast in asynchronous crash-recovery distributed systems and its use in quorum-based replication. IEEE Transactions on Knowledge and Data Engineering, 2003, 15, 1206-1217.	5.7	21
27	A Machine Learning Approach to Performance Prediction of Total Order Broadcast Protocols. , 2010, , .		21
28	Kauri. , 2021, , .		21
29	A Dynamic Light-Weight Group Service. Journal of Parallel and Distributed Computing, 2000, 60, 1449-1479.	4.1	20
30	On speculative replication of transactional systems. Journal of Computer and System Sciences, 2014, 80, 257-276.	1.2	20
31	Semantically reliable multicast: definition, implementation, and performance evaluation. IEEE Transactions on Computers, 2003, 52, 150-165.	3.4	19
32	Fast Localized Delaunay Triangulation. Lecture Notes in Computer Science, 2005, , 81-93.	1.3	18
33	Friends and foes:preventing sel .shness in open mobile ad hoc networks. , 0, , .		17
34	Versioned transactional shared memory for the FÃ©nixEDU web application. , 2008, , .		16
35	Run-Time Switching Between Total Order Algorithms. Lecture Notes in Computer Science, 2006, , 582-591.	1.3	16
36	GORDA: An Open Architecture for Database Replication. , 2007, , .		15

#	ARTICLE	IF	CITATIONS
37	On QoS-aware publish-subscribe. , 0, , .		14
38	Thicket: A Protocol for Building and Maintaining Multiple Trees in a P2P Overlay. , 2010, , .		14
39	A Generic Framework for Replicated Software Transactional Memories. , 2011, , .		14
40	Production-guided concurrency debugging. , 2016, , .		14
41	Lynceus: Cost-efficient Tuning and Provisioning of Data Analytic Jobs. , 2020, , .		13
42	Measurements As First-class Artifacts. , 2019, , .		12
43	X-BOT: A Protocol for Resilient Optimization of Unstructured Overlays. , 2009, , .		11
44	SPECULA: Speculative Replication of Software Transactional Memory. , 2012, , .		11
45	Hourglass. , 2019, , .		11
46	Towards a Generic Group Communication Service. Lecture Notes in Computer Science, 2006, , 1485-1502.	1.3	11
47	A Framework to Provide Anonymity in Reputation Systems. , 2006, , .		10
48	SCert. , 2011, , .		10
49	X-BOT: A Protocol for Resilient Optimization of Unstructured Overlay Networks. IEEE Transactions on Parallel and Distributed Systems, 2012, 23, 2175-2188.	5.6	10
50	Chasing the optimum in replicated in-memory transactional platforms via protocol adaptation. , 2013, , .		10
51	Low latency probabilistic broadcast in wide area networks. , 2004, , .		9
52	The atomic manifesto. SIGMOD Record, 2005, 34, 63-69.	1.2	9
53	SIPCache: A Distributed SIP Location Service for Mobile Ad-Hoc Networks. , 2006, , .		9
54	On Data Placement in Distributed Systems. Operating Systems Review (ACM), 2015, 49, 126-130.	1.9	9

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55	A Distributed Auctioneer for Resource Allocation in Decentralized Systems. , 2016, , .		9
56	Omega: a Secure Event Ordering Service for the Edge. , 2020, , .		9
57	Probabilistic semantically reliable multicast. , 0, , .		8
58	SIPCache: A Distributed SIP Location Service for Mobile Ad-Hoc Networks. , 2006, , .		8
59	Large-Scale Peer-to-Peer Autonomic Monitoring. , 2008, , .		8
60	Lightweight cooperative logging for fault replication in concurrent programs. , 2012, , .		8
61	Asynchronous Lease-Based Replication of Software Transactional Memory. Lecture Notes in Computer Science, 2010, , 376-396.	1.3	8
62	Random Walks on Evolving Graphs with Recurring Topologies. Lecture Notes in Computer Science, 2014, , 333-345.	1.3	8
63	Planning workflow executions when using spot instances in the cloud. , 2019, , .		8
64	An Optimal Speculative Transactional Replication Protocol. , 2010, , .		7
65	Exploiting Total Order Multicast in Weakly Consistent Transactional Caches. , 2011, , .		7
66	Current trends and future directions in community edge clouds. , 2015, , .		7
67	MACHETE: Multi-path communication for security. , 2016, , .		7
68	Learning non-deterministic impact models for adaptation. , 2018, , .		7
69	Topology-Aware Algorithms for Large-Scale Communication. Lecture Notes in Computer Science, 2000, , 127-156.	1.3	7
70	Concurrency debugging with differential schedule projections. ACM SIGPLAN Notices, 2015, 50, 586-595.	0.2	7
71	From spontaneous total order to uniform total order. , 2006, , .		6
72	Verme: Worm containment in overlay networks. , 2009, , .		6

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73	Rollerchain: A DHT for Efficient Replication. , 2013, , .		6
74	Towards effective and efficient search-based deterministic replay. , 2013, , .		6
75	Gossip-Based Broadcast. , 2010, , 831-860.		6
76	Group orientation. , 1992, , .		5
77	A genetic algorithm for multicast mapping in publish-subscribe systems. , 0, , .		5
78	Context adaptation of the communication stack. International Journal of Parallel, Emergent and Distributed Systems, 2006, 21, 169-181.	1.0	5
79	Modelling adaptive services for distributed systems. , 2008, , .		5
80	Observable non-Sybil quorums construction in one-hop wireless ad hoc networks. , 2010, , .		5
81	Towards a Scalable, Distributed Metadata Service for Causal Consistency under Partial Geo-replication. , 2015, , .		5
82	Forensic analysis of communication records of messaging applications from physical memory. Computers and Security, 2019, 86, 484-497.	6.0	5
83	On the Monitoring Period for Fault-Tolerant Sensor Networks. Lecture Notes in Computer Science, 2005, , 174-190.	1.3	5
84	Asynchrony and Collusion in the N-party BAR Transfer Problem. Lecture Notes in Computer Science, 2012, , 183-194.	1.3	5
85	Towards the Integration of Distributed Transactional Memories in Application Serversâ€™ Clusters. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2009, , 755-769.	0.3	5
86	Response time analysis of composable micro-protocols. , 0, , .		4
87	Reducing the cost of group communication with semantic view synchrony. , 0, , .		4
88	On Statistically Estimated Optimistic Delivery in Wide-Area Total Order Protocols. , 2006, , .		4
89	Communication and coordination support in ad hoc networks for emergency management scenarios. , 2010, , .		4
90	RASM: A Reliable Algorithm for Scalable Multicast. , 2010, , .		4

#	ARTICLE	IF	CITATIONS
91	Goal-oriented Self-management of In-memory Distributed Data Grid Platforms. , 2011, , .		4
92	Balls-into-leaves. , 2014, , .		4
93	Overnesia: A Resilient Overlay Network for Virtual Super-Peers. , 2014, , .		4
94	Q-OPT. , 2015, , .		4
95	The Future(s) of Transactional Memory. , 2016, , .		4
96	GMU: Genuine Multiversion Update-Serializable Partial Data Replication. IEEE Transactions on Parallel and Distributed Systems, 2016, 27, 2911-2925.	5.6	4
97	Fireplug: Flexible and robust N-version geo-replication of graph databases. , 2018, , .		4
98	Dynamic adaptation of byzantine consensus protocols. , 2018, , .		4
99	On Adding Structure to Unstructured Overlay Networks. , 2010, , 327-365.		4
100	Practical Database Replication. Lecture Notes in Computer Science, 2010, , 253-285.	1.3	4
101	Adaptive information dissemination in the Bitcoin network. , 2019, , .		4
102	Efficient Epidemic Multicast in Heterogeneous Networks. Lecture Notes in Computer Science, 2006, , 1520-1529.	1.3	4
103	A Framework to Support Multiple Reconfiguration Strategies. , 2007, , .		4
104	A-OSGi: A Framework to Support the Construction of Autonomic OSGi-Based Applications. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2010, , 1-16.	0.3	4
105	A Framework to Provide Anonymity in Reputation Systems. , 2006, , .		3
106	Geographical distribution of subscriptions for content-based publish/subscribe in MANETs. , 2008, , .		3
107	The Weak Mutual Exclusion problem. , 2009, , .		3
108	Single-step creation of localized Delaunay triangulations. Wireless Networks, 2009, 15, 845-858.	3.0	3

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109	Online Tuning of Parallelism Degree in Parallel Nesting Transactional Memory. , 2018, , .		3
110	Multi-user Object-Oriented Environments. Lecture Notes in Computer Science, 1999, , 80-96.	1.3	3
111	An Algorithm for Dissemination and Retrieval of Information in Wireless Ad Hoc Networks. Lecture Notes in Computer Science, 2007, , 891-900.	1.3	3
112	FT-OSGi: Fault Tolerant Extensions to the OSGi Service Platform. Lecture Notes in Computer Science, 2009, , 653-670.	1.3	3
113	Flexible and efficient resource location in large-scale systems. , 2010, , .		3
114	N-party BAR Transfer. Lecture Notes in Computer Science, 2011, , 392-408.	1.3	3
115	The atomic manifesto. Operating Systems Review (ACM), 2005, 39, 41-46.	1.9	2
116	Implementation and analysis of real-time communication protocol compositions. Real-Time Systems, 2007, 37, 45-76.	1.3	2
117	Supporting Linearizable Semantics in Replicated Databases. , 2008, , .		2
118	An Efficient Weak Mutual Exclusion Algorithm. , 2009, , .		2
119	Rollerchain. , 2011, , .		2
120	Policies for Efficient Data Replication in P2P Systems. , 2013, , .		2
121	Byzantine renaming in synchronous systems with $t < N$. , 2013, , .		2
122	On the Range of Equilibria Utilities of a Repeated Epidemic Dissemination Game with a Mediator. , 2015, , .		2
123	Concurrency Debugging with Differential Schedule Projections. ACM Transactions on Software Engineering and Methodology, 2016, 25, 1-37.	6.0	2
124	CoopREP: Cooperative record and replay of concurrency bugs. Software Testing Verification and Reliability, 2018, 28, e1645.	2.0	2
125	Localized Reliable Causal Multicast. , 2019, , .		2
126	Combining High Throughput and Low Migration Latency for Consistent Data Storage on the Edge. , 2020, , .		2

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127	Towards Incentive-Compatible Pricing for Bandwidth Reservation in Community Network Clouds. Lecture Notes in Computer Science, 2016, , 251-264.	1.3	2
128	Gossip-Based Dissemination. , 2009, , 169-190.		2
129	Quorum-Based Replication in Asynchronous Crash-Recovery Distributed Systems. Lecture Notes in Computer Science, 2000, , 605-608.	1.3	2
130	Configuring the Communication Middleware to Support Multi-user Object-Oriented Environments. Lecture Notes in Computer Science, 2002, , 965-980.	1.3	2
131	On the Effectiveness of Punishments in a Repeated Epidemic Dissemination Game. Lecture Notes in Computer Science, 2013, , 206-220.	1.3	2
132	A Fault-Tolerant Secure CORBA Store using Fragmentation-Redundancy-Scattering. Lecture Notes in Computer Science, 1998, , 287-287.	1.3	2
133	Automated generation of policies to support elastic scaling in cloud environments. , 2017, , .		2
134	EdgeScaler. , 2020, , .		2
135	Requirements for high performance group support in distributed systems. , 1992, , .		1
136	Separating replication from distributed communication: problems and solutions. , 0, , .		1
137	Schedulability analysis of an event-based real-time protocol framework. , 0, , .		1
138	Epidemic Broadcast Trees. Proceedings of the IEEE Symposium on Reliable Distributed Systems, 2007, , .	0.0	1
139	An algorithm for dissemination and retrieval of information in wireless <i>ad hoc</i> networks. Concurrency Computation Practice and Experience, 2009, 21, 889-904.	2.2	1
140	Reputation in anonymous vehicular networks. International Journal of Autonomous and Adaptive Communications Systems, 2010, 3, 178.	0.3	1
141	Feature-based probability blending. , 2010, , .		1
142	Topology Stability-Aware Multicast Protocol for MANETs. , 2011, , .		1
143	Low-Coupling Cluster-Based Multipath Routing for Wireless Mesh Networks. , 2011, , .		1
144	Order-Preserving Renaming in Synchronous Systems with Byzantine Faults. , 2013, , .		1

#	ARTICLE	IF	CITATIONS
145	Bounded gossip. , 2013, , .		1
146	On the energy and performance of commodity hardware transactional memory. , 2014, , .		1
147	Efficient Free-Rider Detection Using Symmetric Overlays. , 2015, , .		1
148	SmartFetch: Efficient Support for Selective Queries. , 2015, , .		1
149	Chasing the Optimum in Replicated In-Memory Transactional Platforms via Protocol Adaptation. IEEE Transactions on Parallel and Distributed Systems, 2015, 26, 2942-2955.	5.6	1
150	Dynamic adaptation of geo-replicated CRDTs. , 2016, , .		1
151	FastRank: Practical lightweight tolerance to rational behavior in edge assisted streaming. Pervasive and Mobile Computing, 2018, 46, 18-33.	3.3	1
152	Policy-Based Adaptation of a Byzantine Fault Tolerant Distributed Graph Database. , 2018, , .		1
153	Towards affordable externally consistent guarantees for geo-replicated systems. , 2018, , .		1
154	Investigating the semantics of futures in transactional memory systems. , 2021, , .		1
155	Self-management of Distributed Systems Using High-Level Goal Policies. Lecture Notes in Computer Science, 2013, , 162-190.	1.3	1
156	Production-guided concurrency debugging. ACM SIGPLAN Notices, 2016, 51, 1-12.	0.2	1
157	Semantically Reliable Broadcast. , 2002, , 189-207.		1
158	@Flood: Auto-Tunable Flooding for Wireless Ad Hoc Networks. Lecture Notes in Computer Science, 2010, , 478-489.	1.3	1
159	Self-tuning in Distributed Transactional Memory. Lecture Notes in Computer Science, 2015, , 418-448.	1.3	1
160	Giving Future(s) to Transactional Memory. , 2020, , .		1
161	Balancing configurability and efficiency in network support tools. , 2000, , .		0
162	The road to a more configurable and adaptive communication and coordination support. , 0, , .		0

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163	DSN 2007 Tutorials. , 2007, , .		0
164	Accessing probabilistic quorums in dynamic networks. , 2010, , .		0
165	HPCS 2011 tutorials: Tutorial I: Distributed software transactional memories: Foundations, algorithms and tools. , 2011, , .		0
166	Autonomic configuration of HyperDex via analytical modelling. , 2014, , .		0
167	Reducing the vulnerability window in distributed transactional protocols. , 2015, , .		0
168	BioALeg - Enabling Biometric Authentication in Legacy Web Sites. , 2016, , .		0
169	Efficient Free-Rider Detection Using Symmetric Overlays. , 2016, , .		0
170	FastRank. , 2017, , .		0
171	Accountability in Dynamic Networks. , 2017, , .		0
172	Augure: Proactive reconfiguration of cloud applications using heterogeneous resources. , 2017, , .		0
173	NetSheriff: Sheltering Software-Defined Networks from Rogue Switches. Lecture Notes in Computer Science, 2021, , 279-295.	1.3	0
174	Reducing the subscription latency in reliable causal publish-subscribe systems. , 2021, , .		0
175	Secure Systems and Platforms. Advances in Distributed Computing and Middleware, 2001, , 487-510.	0.0	0
176	Supporting views in network management systems. , 2001, , .		0
177	On Replication of Software Transactional Memories. Lecture Notes in Computer Science, 2008, , 2-4.	1.3	0
178	Tight Bounds for Stabilizing Uniform Consensus in Mobile Networks. Lecture Notes in Computer Science, 2014, , 328-342.	1.3	0
179	On the energy and performance of commodity hardware transactional memory. Performance Evaluation Review, 2014, 42, 547-548.	0.6	0
180	Building Adaptive Systems with Service Composition Frameworks. , 2007, , 754-771.		0