

# Luis Rodrigues

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/2544705/luis-rodrigues-publications-by-citations.pdf>

**Version:** 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

149  
papers

1,389  
citations

19  
h-index

31  
g-index

189  
ext. papers

1,804  
ext. citations

1.2  
avg, IF

4.52  
L-index

#	Paper	IF	Citations
149	Introduction to Reliable and Secure Distributed Programming <b>2011</b> ,		125
148	D2STM: Dependable Distributed Software Transactional Memory <b>2009</b> ,		70
147	ChainReaction <b>2013</b> ,		58
146	Distributed Systems for System Architects <b>2001</b> ,		56
145	When Scalability Meets Consistency: Genuine Multiversion Update-Serializable Partial Data Replication <b>2012</b> ,		52
144			50
143	CesiumSpray: a Precise and Accurate Global Time Service for Large-scale Systems. <i>Real-Time Systems</i> , <b>1997</b> , 12, 243-294	1.3	46
142	A neural network for shortest path computation. <i>IEEE Transactions on Neural Networks</i> , <b>2001</b> , 12, 1067-73		40
141	Gossiping on MANETs. <i>Operating Systems Review (ACM)</i> , <b>2007</b> , 41, 67-74	0.8	39
140	HyParView: A Membership Protocol for Reliable Gossip-Based Broadcast <b>2007</b> ,		37
139	Virtues and limitations of commodity hardware transactional memory <b>2014</b> ,		36
138	Epidemic Broadcast Trees <b>2007</b> ,		32
137	Cloud-TM. <i>Operating Systems Review (ACM)</i> , <b>2010</b> , 44, 1-6	0.8	28
136	Scalable QoS-Based Event Routing in Publish-Subscribe Systems <b>2005</b> ,		26
135	Adaptive gossip-based broadcast		25
134	Towards distributed software transactional memory systems <b>2008</b> ,		24
133	Concurrency debugging with differential schedule projections <b>2015</b> ,		19

132	Self-Management of Adaptable Component-Based Applications. <i>IEEE Transactions on Software Engineering</i> , <b>2013</b> , 39, 403-421	3.5	19
131	A Machine Learning Approach to Performance Prediction of Total Order Broadcast Protocols <b>2010</b> ,		19
130	NEEM: network-friendly epidemic multicast		19
129	On speculative replication of transactional systems. <i>Journal of Computer and System Sciences</i> , <b>2014</b> , 80, 257-276	1	16
128	Emergent Structure in Unstructured Epidemic Multicast <b>2007</b> ,		16
127	Saturn <b>2017</b> ,		15
126	Auto P lacer. <i>ACM Transactions on Autonomous and Adaptive Systems</i> , <b>2015</b> , 9, 1-30	1.2	15
125	A Power-Aware Broadcasting Algorithm <b>2006</b> ,		15
124	A Generic Framework for Replicated Software Transactional Memories <b>2011</b> ,		14
123	Atomic broadcast in asynchronous crash-recovery distributed systems and its use in quorum-based replication. <i>IEEE Transactions on Knowledge and Data Engineering</i> , <b>2003</b> , 15, 1206-1217	4.2	14
122	Semantically reliable multicast: definition, implementation, and performance evaluation. <i>IEEE Transactions on Computers</i> , <b>2003</b> , 52, 150-165	2.5	14
121	A Dynamic Light-Weight Group Service. <i>Journal of Parallel and Distributed Computing</i> , <b>2000</b> , 60, 1449-1474	4	14
120			13
119	An indulgent uniform total order algorithm with optimistic delivery		13
118	Run-Time Switching Between Total Order Algorithms. <i>Lecture Notes in Computer Science</i> , <b>2006</b> , 582-591	0.9	13
117	Versioned transactional shared memory for the FBixEDU web application <b>2008</b> ,		12
116	PolyCert: Polymorphic Self-optimizing Replication for In-Memory Transactional Grids. <i>Lecture Notes in Computer Science</i> , <b>2011</b> , 309-328	0.9	11
115	Chasing the optimum in replicated in-memory transactional platforms via protocol adaptation <b>2013</b> ,		10

114	GORDA: An Open Architecture for Database Replication <b>2007</b> ,		10
113	SCert <b>2011</b> ,		9
112	Fast Localized Delaunay Triangulation. <i>Lecture Notes in Computer Science</i> , <b>2005</b> , 81-93	0.9	9
111	On QoS-aware publish-subscribe		9
110	SPECULA: Speculative Replication of Software Transactional Memory <b>2012</b> ,		8
109	Low latency probabilistic broadcast in wide area networks <b>2004</b> ,		8
108	Asynchronous Lease-Based Replication of Software Transactional Memory. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 376-396	0.9	8
107	Production-guided concurrency debugging <b>2016</b> ,		8
106	The GlobData Fault-Tolerant Replicated Distributed Object Database. <i>Lecture Notes in Computer Science</i> , <b>2002</b> , 426-433	0.9	8
105	Measurements As First-class Artifacts <b>2019</b> ,		7
104	On Data Placement in Distributed Systems. <i>Operating Systems Review (ACM)</i> , <b>2015</b> , 49, 126-130	0.8	7
103	X-BOT: A Protocol for Resilient Optimization of Unstructured Overlay Networks. <i>IEEE Transactions on Parallel and Distributed Systems</i> , <b>2012</b> , 23, 2175-2188	3.7	7
102	X-BOT: A Protocol for Resilient Optimization of Unstructured Overlays <b>2009</b> ,		7
101	Large-Scale Peer-to-Peer Autonomic Monitoring <b>2008</b> ,		7
100	Probabilistic semantically reliable multicast		7
99	Towards a Generic Group Communication Service. <i>Lecture Notes in Computer Science</i> , <b>2006</b> , 1485-1502	0.9	7
98	Current trends and future directions in community edge clouds <b>2015</b> ,		6
97	Thicket: A Protocol for Building and Maintaining Multiple Trees in a P2P Overlay <b>2010</b> ,		6

96	Exploiting Total Order Multicast in Weakly Consistent Transactional Caches <b>2011</b> ,		6
95	A Framework to Provide Anonymity in Reputation Systems <b>2006</b> ,		6
94	Random Walks on Evolving Graphs with Recurring Topologies. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 333-345	0.9	6
93	<b>2016</b> ,		6
92	A Distributed Auctioneer for Resource Allocation in Decentralized Systems <b>2016</b> ,		5
91	Observable non-Sybil quorums construction in one-hop wireless ad hoc networks <b>2010</b> ,		5
90	An Optimal Speculative Transactional Replication Protocol <b>2010</b> ,		5
89	Hourglass <b>2019</b> ,		4
88	Towards a Scalable, Distributed Metadata Service for Causal Consistency under Partial Geo-replication <b>2015</b> ,		4
87	Lightweight cooperative logging for fault replication in concurrent programs <b>2012</b> ,		4
86	<b>2009</b> ,		4
85	Modelling adaptive services for distributed systems <b>2008</b> ,		4
84	From spontaneous total order to uniform total order <b>2006</b> ,		4
83	<b>2006</b> ,		4
82	The atomic manifesto. <i>SIGMOD Record</i> , <b>2005</b> , 34, 63-69	1.1	4
81	Concurrency debugging with differential schedule projections. <i>ACM SIGPLAN Notices</i> , <b>2015</b> , 50, 586-595	0.2	4
80	Asynchrony and Collusion in the N-party BAR Transfer Problem. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 183-194	0.9	4
79	A-OSGi: A Framework to Support the Construction of Autonomic OSGi-Based Applications. <i>Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering</i> , <b>2010</b> , 1-16	0.2	4

78	Topology-Aware Algorithms for Large-Scale Communication. <i>Lecture Notes in Computer Science</i> , <b>2000</b> , 127-156	0.9	4
77	Gossip-Based Broadcast <b>2010</b> , 831-860		4
76	Learning non-deterministic impact models for adaptation <b>2018</b> ,		3
75	Rollerchain: A DHT for Efficient Replication <b>2013</b> ,		3
74	Q-OPT <b>2015</b> ,		3
73	Towards effective and efficient search-based deterministic replay <b>2013</b> ,		3
72	Communication and coordination support in ad hoc networks for emergency management scenarios <b>2010</b> ,		3
71	Goal-oriented Self-management of In-memory Distributed Data Grid Platforms <b>2011</b> ,		3
70	The Weak Mutual Exclusion problem <b>2009</b> ,		3
69	<b>2006</b> ,		3
68	A Framework to Provide Anonymity in Reputation Systems <b>2006</b> ,		3
67	Context adaptation of the communication stack. <i>International Journal of Parallel, Emergent and Distributed Systems</i> , <b>2006</b> , 21, 169-181	1	3
66	Friends and foes: preventing selfishness in open mobile ad hoc networks		3
65	Group orientation <b>1992</b> ,		3
64	<b>2020</b> ,		3
63	From Local Impact Functions to Global Adaptation of Service Compositions. <i>Lecture Notes in Computer Science</i> , <b>2009</b> , 593-608	0.9	3
62	Towards the Integration of Distributed Transactional Memories in Application Servers/Clusters. <i>Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering</i> , <b>2009</b> , 755-769	0.2	3
61	N-party BAR Transfer. <i>Lecture Notes in Computer Science</i> , <b>2011</b> , 392-408	0.9	3

60	The Future(s) of Transactional Memory <b>2016,</b>		2
59	Policies for Efficient Data Replication in P2P Systems <b>2013,</b>		2
58	Overnesia: A Resilient Overlay Network for Virtual Super-Peers <b>2014,</b>		2
57	RASM: A Reliable Algorithm for Scalable Multicast <b>2010,</b>		2
56	Single-step creation of localized Delaunay triangulations. <i>Wireless Networks</i> , <b>2009</b> , 15, 845-858	2.5	2
55	Rollerchain <b>2011,</b>		2
54	Implementation and analysis of real-time communication protocol compositions. <i>Real-Time Systems</i> , <b>2007</b> , 37, 45-76	1.3	2
53	On Statistically Estimated Optimistic Delivery in Wide-Area Total Order Protocols <b>2006,</b>		2
52	A genetic algorithm for multicast mapping in publish-subscribe systems		2
51	Response time analysis of composable micro-protocols		2
50	Reducing the cost of group communication with semantic view synchrony		2
49	Adaptive information dissemination in the Bitcoin network <b>2019,</b>		2
48	Long Range Contacts in Overlay Networks. <i>Lecture Notes in Computer Science</i> , <b>2005</b> , 1153-1162	0.9	2
47	Efficient Epidemic Multicast in Heterogeneous Networks. <i>Lecture Notes in Computer Science</i> , <b>2006</b> , 1520-1529	1.5	2
46	A Framework to Support Multiple Reconfiguration Strategies <b>2007,</b>		2
45	Planning workflow executions when using spot instances in the cloud <b>2019,</b>		2
44	Towards Incentive-Compatible Pricing for Bandwidth Reservation in Community Network Clouds. <i>Lecture Notes in Computer Science</i> , <b>2016</b> , 251-264	0.9	2
43	An Algorithm for Dissemination and Retrieval of Information in Wireless Ad Hoc Networks. <i>Lecture Notes in Computer Science</i> , <b>2007</b> , 891-900	0.9	2

42	FT-OSGi: Fault Tolerant Extensions to the OSGi Service Platform. <i>Lecture Notes in Computer Science</i> , <b>2009</b> , 653-670	0.9	2
41	Flexible and efficient resource location in large-scale systems <b>2010</b> ,		2
40	On the Effectiveness of Punishments in a Repeated Epidemic Dissemination Game. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 206-220	0.9	2
39	Forensic analysis of communication records of messaging applications from physical memory. <i>Computers and Security</i> , <b>2019</b> , 86, 484-497	4.9	2
38	Dynamic adaptation of byzantine consensus protocols <b>2018</b> ,		2
37	On the Monitoring Period for Fault-Tolerant Sensor Networks. <i>Lecture Notes in Computer Science</i> , <b>2005</b> , 174-190	0.9	2
36	Multi-user Object-Oriented Environments. <i>Lecture Notes in Computer Science</i> , <b>1999</b> , 80-96	0.9	2
35	On Adding Structure to Unstructured Overlay Networks <b>2010</b> , 327-365		2
34	Chasing the Optimum in Replicated In-Memory Transactional Platforms via Protocol Adaptation. <i>IEEE Transactions on Parallel and Distributed Systems</i> , <b>2015</b> , 26, 2942-2955	3.7	1
33	Combining High Throughput and Low Migration Latency for Consistent Data Storage on the Edge <b>2020</b> ,		1
32	Fireplug: Flexible and robust N-version geo-replication of graph databases <b>2018</b> ,		1
31	FastRank: Practical lightweight tolerance to rational behavior in edge assisted streaming. <i>Pervasive and Mobile Computing</i> , <b>2018</b> , 46, 18-33	3.5	1
30	Dynamic adaptation of geo-replicated CRDTs <b>2016</b> ,		1
29	GMU: Genuine Multiversion Update-Serializable Partial Data Replication. <i>IEEE Transactions on Parallel and Distributed Systems</i> , <b>2016</b> , 27, 2911-2925	3.7	1
28	SmartFetch: Efficient Support for Selective Queries <b>2015</b> ,		1
27	On the Range of Equilibria Utilities of a Repeated Epidemic Dissemination Game with a Mediator <b>2015</b> ,		1
26	Balls-into-leaves <b>2014</b> ,		1
25	Low-Coupling Cluster-Based Multipath Routing for Wireless Mesh Networks <b>2011</b> ,		1



24	An algorithm for dissemination and retrieval of information in wireless ad hoc networks. <i>Concurrency Computation Practice and Experience</i> , <b>2009</b> , 21, 889-904	1.4	1
23	An Efficient Weak Mutual Exclusion Algorithm <b>2009</b> ,		1
22	Supporting Linearizable Semantics in Replicated Databases <b>2008</b> ,		1
21	Epidemic Broadcast Trees. <i>Proceedings of the IEEE Symposium on Reliable Distributed Systems</i> , <b>2007</b> ,		1
20	Quorum-Based Replication in Asynchronous Crash-Recovery Distributed Systems. <i>Lecture Notes in Computer Science</i> , <b>2000</b> , 605-608	0.9	1
19	Semantically Reliable Broadcast <b>2002</b> , 189-207		1
18	Practical Database Replication. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 253-285	0.9	1
17	Self-management of Distributed Systems Using High-Level Goal Policies. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 162-190	0.9	1
16	Self-tuning in Distributed Transactional Memory. <i>Lecture Notes in Computer Science</i> , <b>2015</b> , 418-448	0.9	1
15	@Flood: Auto-Tunable Flooding for Wireless Ad Hoc Networks. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 478-489	0.9	1
14	Concurrency Debugging with Differential Schedule Projections. <i>ACM Transactions on Software Engineering and Methodology</i> , <b>2016</b> , 25, 1-37	3.3	1
13	Towards affordable externally consistent guarantees for geo-replicated systems <b>2018</b> ,		1
12	CoopREP: Cooperative record and replay of concurrency bugs. <i>Software Testing Verification and Reliability</i> , <b>2018</b> , 28, e1645	0.9	0
11	Reputation in anonymous vehicular networks. <i>International Journal of Autonomous and Adaptive Communications Systems</i> , <b>2010</b> , 3, 178	0.6	0
10	The atomic manifesto. <i>Operating Systems Review (ACM)</i> , <b>2005</b> , 39, 41-46	0.8	0
9	Production-guided concurrency debugging. <i>ACM SIGPLAN Notices</i> , <b>2016</b> , 51, 1-12	0.2	0
8	A Fault-Tolerant Secure CORBA Store using Fragmentation-Redundancy-Scattering. <i>Lecture Notes in Computer Science</i> , <b>1998</b> , 287-287	0.9	0
7	Building Adaptive Systems with Service Composition Frameworks <b>2007</b> , 754-771		

- 6 Configuring the Communication Middleware to Support Multi-user Object-Oriented Environments. *Lecture Notes in Computer Science*, **2002**, 965-980 0.9
- 5 On Replication of Software Transactional Memories. *Lecture Notes in Computer Science*, **2008**, 2-4 0.9
- 4 Reliable Multicasting in High-speed LANs **1991**, 397-412
- 3 On the energy and performance of commodity hardware transactional memory. *Performance Evaluation Review*, **2014**, 42, 547-548 0.4
- 2 Tight Bounds for Stabilizing Uniform Consensus in Mobile Networks. *Lecture Notes in Computer Science*, **2014**, 328-342 0.9
- 1 NetSheriff: Sheltering Software-Defined Networks from Rogue Switches. *Lecture Notes in Computer Science*, **2021**, 279-295 0.9