Luis Rodrigues

List of Publications by Year in Descending Order

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	NetSheriff: Sheltering Software-Defined Networks from Rogue Switches. *Lecture Notes in Computer Science*, **2021**, 279-295	0.9	
148	Combining High Throughput and Low Migration Latency for Consistent Data Storage on the Edge **2020**,		1
147	**2020**,		3
146	Measurements As First-class Artifacts **2019**,		7
145	Hourglass **2019**,		4
144	Adaptive information dissemination in the Bitcoin network **2019**,		2
143	Planning workflow executions when using spot instances in the cloud **2019**,		2
142	Forensic analysis of communication records of messaging applications from physical memory. *Computers and Security*, **2019**, 86, 484-497	4.9	2
141	Fireplug: Flexible and robust N-version geo-replication of graph databases **2018**,		1
140	FastRank: Practical lightweight tolerance to rational behavior in edge assisted streaming. *Pervasive and Mobile Computing*, **2018**, 46, 18-33	3.5	1
139	CoopREP: Cooperative record and replay of concurrency bugs. *Software Testing Verification and Reliability*, **2018**, 28, e1645	0.9	0
138	Learning non-deterministic impact models for adaptation **2018**,		3
137	Dynamic adaptation of byzantine consensus protocols **2018**,		2
136	Towards affordable externally consistent guarantees for geo-replicated systems **2018**,		1
135	Saturn **2017**,		15
134	The Future(s) of Transactional Memory **2016**,		2
133	A Distributed Auctioneer for Resource Allocation in Decentralized Systems **2016**,		5

132	Dynamic adaptation of geo-replicated CRDTs **2016**,		1
131	GMU: Genuine Multiversion Update-Serializable Partial Data Replication. *IEEE Transactions on Parallel and Distributed Systems*, **2016**, 27, 2911-2925	3.7	1
130	Production-guided concurrency debugging. *ACM SIGPLAN Notices*, **2016**, 51, 1-12	0.2	0
129	Towards Incentive-Compatible Pricing for Bandwidth Reservation in Community Network Clouds. *Lecture Notes in Computer Science*, **2016**, 251-264	0.9	2
128	**2016**,		6
127	Production-guided concurrency debugging **2016**,		8
126	Concurrency Debugging with Differential Schedule Projections. *ACM Transactions on Software Engineering and Methodology*, **2016**, 25, 1-37	3.3	1
125	On Data Placement in Distributed Systems. *Operating Systems Review (ACM)*, **2015**, 49, 126-130	0.8	7
124	A uto P lacer. *ACM Transactions on Autonomous and Adaptive Systems*, **2015**, 9, 1-30	1.2	15
123	Concurrency debugging with differential schedule projections **2015**,		19
122	Chasing the Optimum in Replicated In-Memory Transactional Platforms via Protocol Adaptation. *IEEE Transactions on Parallel and Distributed Systems*, **2015**, 26, 2942-2955	3.7	1
121	SmartFetch: Efficient Support for Selective Queries **2015**,		1
120	Current trends and future directions in community edge clouds **2015**,		6
119	On the Range of Equilibria Utilities of a Repeated Epidemic Dissemination Game with a Mediator **2015**,		1
118	Q-OPT **2015**,		3
117	Towards a Scalable, Distributed Metadata Service for Causal Consistency under Partial Geo-replication **2015**,		4
116	Concurrency debugging with differential schedule projections. *ACM SIGPLAN Notices*, **2015**, 50, 586-595	0.2	4
115	Self-tuning in Distributed Transactional Memory. *Lecture Notes in Computer Science*, **2015**, 418-448	0.9	1

114	On speculative replication of transactional systems. *Journal of Computer and System Sciences*, **2014**, 80, 257-276	1	16
113	Balls-into-leaves **2014**,		1
112	Virtues and limitations of commodity hardware transactional memory **2014**,		36
111	Overnesia: A Resilient Overlay Network for Virtual Super-Peers **2014**,		2
110	Random Walks on Evolving Graphs with Recurring Topologies. *Lecture Notes in Computer Science*, **2014**, 333-345	0.9	6
109	On the energy and performance of commodity hardware transactional memory. *Performance Evaluation Review*, **2014**, 42, 547-548	0.4	
108	Tight Bounds for Stabilizing Uniform Consensus in Mobile Networks. *Lecture Notes in Computer Science*, **2014**, 328-342	0.9	
107	Self-Management of Adaptable Component-Based Applications. *IEEE Transactions on Software Engineering*, **2013**, 39, 403-421	3.5	19
106	Rollerchain: A DHT for Efficient Replication **2013**,		3
105	Policies for Efficient Data Replication in P2P Systems **2013**,		2
104	Chasing the optimum in replicated in-memory transactional platforms via protocol adaptation **2013**,		10
103	ChainReaction **2013**,		58
102	Towards effective and efficient search-based deterministic replay **2013**,		3
101	Self-management of Distributed Systems Using High-Level Goal Policies. *Lecture Notes in Computer Science*, **2013**, 162-190	0.9	1
100	On the Effectiveness of Punishments in a Repeated Epidemic Dissemination Game. *Lecture Notes in Computer Science*, **2013**, 206-220	0.9	2
99	SPECULA: Speculative Replication of Software Transactional Memory **2012**,		8
98	X-BOT: A Protocol for Resilient Optimization of Unstructured Overlay Networks. *IEEE Transactions on Parallel and Distributed Systems*, **2012**, 23, 2175-2188	3.7	7
97	When Scalability Meets Consistency: Genuine Multiversion Update-Serializable Partial Data Replication **2012**,		52

96	Lightweight cooperative logging for fault replication in concurrent programs **2012**,		4
95	Asynchrony and Collusion in the N-party BAR Transfer Problem. *Lecture Notes in Computer Science*, **2012**, 183-194	0.9	4
94	Introduction to Reliable and Secure Distributed Programming **2011**,		125
93	Low-Coupling Cluster-Based Multipath Routing for Wireless Mesh Networks **2011**,		1
92	Goal-oriented Self-management of In-memory Distributed Data Grid Platforms **2011**,		3
91	Exploiting Total Order Multicast in Weakly Consistent Transactional Caches **2011**,		6
90	Rollerchain **2011**,		2
89	A Generic Framework for Replicated Software Transactional Memories **2011**,		14
88	SCert **2011**,		9
87	PolyCert: Polymorphic Self-optimizing Replication for In-Memory Transactional Grids. *Lecture Notes in Computer Science*, **2011**, 309-328	0.9	11
86	N-party BAR Transfer. *Lecture Notes in Computer Science*, **2011**, 392-408	0.9	3
85	A Machine Learning Approach to Performance Prediction of Total Order Broadcast Protocols **2010**,		19
84	Observable non-Sybil quorums construction in one-hop wireless ad hoc networks **2010**,		5
83	Cloud-TM. *Operating Systems Review (ACM)*, **2010**, 44, 1-6	0.8	28
82	Communication and coordination support in ad hoc networks for emergency management scenarios **2010**,		3
81	Thicket: A Protocol for Building and Maintaining Multiple Trees in a P2P Overlay **2010**,		6
80	RASM: A Reliable Algorithm for Scalable Multicast **2010**,		2
79	An Optimal Speculative Transactional Replication Protocol **2010**,		5

78	Reputation in anonymous vehicular networks. *International Journal of Autonomous and Adaptive Communications Systems*, **2010**, 3, 178	0.6	0
77	Practical Database Replication. *Lecture Notes in Computer Science*, **2010**, 253-285	0.9	1
76	Asynchronous Lease-Based Replication of Software Transactional Memory. *Lecture Notes in Computer Science*, **2010**, 376-396	0.9	8
75	Flexible and efficient resource location in large-scale systems **2010**,		2
74	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	0.2	4
73	@Flood: Auto-Tunable Flooding for Wireless Ad Hoc Networks. *Lecture Notes in Computer Science*, **2010**, 478-489	0.9	1
72	On Adding Structure to Unstructured Overlay Networks **2010**, 327-365		2
71	Gossip-Based Broadcast **2010**, 831-860		4
70	The Weak Mutual Exclusion problem **2009**,		3
69	An algorithm for dissemination and retrieval of information in wireless ad hoc networks. *Concurrency Computation Practice and Experience*, **2009**, 21, 889-904	1.4	1
68	Single-step creation of localized Delaunay triangulations. *Wireless Networks*, **2009**, 15, 845-858	2.5	2
67	X-BOT: A Protocol for Resilient Optimization of Unstructured Overlays **2009**,		7
66	D2STM: Dependable Distributed Software Transactional Memory **2009**,		70
65	**2009**,		4
64	An Efficient Weak Mutual Exclusion Algorithm **2009**,		1
63	FT-OSGi: Fault Tolerant Extensions to the OSGi Service Platform. *Lecture Notes in Computer Science*, **2009**, 653-670	0.9	2
62	From Local Impact Functions to Global Adaptation of Service Compositions. *Lecture Notes in Computer Science*, **2009**, 593-608	0.9	3
61	Towards the Integration of Distributed Transactional Memories in Application Servers Clusters. *Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering*, **2009**, 755-769	0.2	3

60	Supporting Linearizable Semantics in Replicated Databases **2008**,		1
59	Towards distributed software transactional memory systems **2008**,		24
58	Versioned transactional shared memory for the FēnixEDU web application **2008**,		12
57	Modelling adaptive services for distributed systems **2008**,		4
56	Large-Scale Peer-to-Peer Autonomic Monitoring **2008**,		7
55	On Replication of Software Transactional Memories. *Lecture Notes in Computer Science*, **2008**, 2-4	0.9	
54	Epidemic Broadcast Trees **2007**,		32
53	Implementation and analysis of real-time communication protocol compositions. *Real-Time Systems* , **2007**, 37, 45-76	1.3	2
52	Gossiping on MANETs. *Operating Systems Review (ACM)*, **2007**, 41, 67-74	0.8	39
51	HyParView: A Membership Protocol for Reliable Gossip-Based Broadcast **2007**,		37
50	Emergent Structure in Unstructured Epidemic Multicast **2007**,		16
49	Epidemic Broadcast Trees. *Proceedings of the IEEE Symposium on Reliable Distributed Systems*, **2007**,		1
48	GORDA: An Open Architecture for Database Replication **2007**,		10
47	Building Adaptive Systems with Service Composition Frameworks **2007**, 754-771		
46	A Framework to Support Multiple Reconfiguration Strategies **2007**,		2
45	An Algorithm for Dissemination and Retrieval of Information in Wireless Ad Hoc Networks. *Lecture Notes in Computer Science*, **2007**, 891-900	0.9	2
44	From spontaneous total order to uniform total order **2006**,		4
43	**2006**,		3

42	A Power-Aware Broadcasting Algorithm **2006**,		15
41	A Framework to Provide Anonymity in Reputation Systems **2006**,		3
40	**2006**,		4
39	On Statistically Estimated Optimistic Delivery in Wide-Area Total Order Protocols **2006**,		2
38	A Framework to Provide Anonymity in Reputation Systems **2006**,		6
37	Context adaptation of the communication stack. *International Journal of Parallel, Emergent and Distributed Systems*, **2006**, 21, 169-181	1	3
36	Efficient Epidemic Multicast in Heterogeneous Networks. *Lecture Notes in Computer Science*, **2006**, 1520-1529	1	2
35	Run-Time Switching Between Total Order Algorithms. *Lecture Notes in Computer Science*, **2006**, 582-591	0.9	13
34	Towards a Generic Group Communication Service. *Lecture Notes in Computer Science*, **2006**, 1485-1502	0.9	7
33	Scalable QoS-Based Event Routing in Publish-Subscribe Systems **2005**,		26
32	The atomic manifesto. *SIGMOD Record*, **2005**, 34, 63-69	1.1	4
31	The atomic manifesto. *Operating Systems Review (ACM)*, **2005**, 39, 41-46	0.8	0
30	Fast Localized Delaunay Triangulation. *Lecture Notes in Computer Science*, **2005**, 81-93	0.9	9
29	Long Range Contacts in Overlay Networks. *Lecture Notes in Computer Science*, **2005**, 1153-1162	0.9	2
28	On the Monitoring Period for Fault-Tolerant Sensor Networks. *Lecture Notes in Computer Science*, **2005**, 174-190	0.9	2
27	Low latency probabilistic broadcast in wide area networks **2004**,		8
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	4.2	14
25	Semantically reliable multicast: definition, implementation, and performance evaluation. *IEEE Transactions on Computers*, **2003**, 52, 150-165	2.5	14

24	Configuring the Communication Middleware to Support Multi-user Object-Oriented Environments. *Lecture Notes in Computer Science*, **2002**, 965-980	0.9	
23	Semantically Reliable Broadcast **2002**, 189-207		1
22	The GlobData Fault-Tolerant Replicated Distributed Object Database. *Lecture Notes in Computer Science*, **2002**, 426-433	0.9	8
21	A neural network for shortest path computation. *IEEE Transactions on Neural Networks*, **2001**, 12, 1067-73		40
20	Distributed Systems for System Architects **2001**,		56
19	A Dynamic Light-Weight Group Service. *Journal of Parallel and Distributed Computing*, **2000**, 60, 1449-1479	4	14
18	Quorum-Based Replication in Asynchronous Crash-Recovery Distributed Systems. *Lecture Notes in Computer Science*, **2000**, 605-608	0.9	1
17	Topology-Aware Algorithms for Large-Scale Communication. *Lecture Notes in Computer Science*, **2000**, 127-156	0.9	4
16	Multi-user Object-Oriented Environments. *Lecture Notes in Computer Science*, **1999**, 80-96	0.9	2
15	A Fault-Tolerant Secure CORBA Store using Fragmentation-Redundancy-Scattering. *Lecture Notes in Computer Science*, **1998**, 287-287	0.9	0
14	CesiumSpray: a Precise and Accurate Global Time Service for Large-scale Systems. *Real-Time Systems*, **1997**, 12, 243-294	1.3	46
13	Group orientation **1992**,		3
12	Reliable Multicasting in High-speed LANs **1991**, 397-412		
11			13
10			50
9	Friends and foes: preventing selfishness in open mobile ad hoc networks		3
8	A genetic algorithm for multicast mapping in publish-subscribe systems		2
7	NEEM: network-friendly epidemic multicast		19