

Xavier Dfago

List of Publications by Citations

Source: <https://exaly.com/author-pdf/3533704/xavier-defago-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.

67
papers

1,157
citations

15
h-index

32
g-index

88
ext. papers

1,453
ext. citations

1.7
avg, IF

4.2
L-index

#	Paper	IF	Citations
67	Total order broadcast and multicast algorithms. <i>ACM Computing Surveys</i> , 2004 , 36, 372-421	13.4	255
66	Non-uniform circle formation algorithm for oblivious mobile robots with convergence toward uniformity. <i>Theoretical Computer Science</i> , 2008 , 396, 97-112	1.1	66
65	2004 ,		66
64	Fault-Tolerant and Self-stabilizing Mobile Robots Gathering. <i>Lecture Notes in Computer Science</i> , 2006 , 46-60	0.9	64
63	Circle formation for oblivious anonymous mobile robots with no common sense of orientation 2002 ,		62
62	The Gathering Problem for Two Oblivious Robots with Unreliable Compasses. <i>SIAM Journal on Computing</i> , 2012 , 41, 26-46	1.1	59
61	A Decentralized and Adaptive Flocking Algorithm for Autonomous Mobile Robots 2008 ,		45
60	Failure detectors as first class objects 1999 ,		45
59	Using eventually consistent compasses to gather memory-less mobile robots with limited visibility. <i>ACM Transactions on Autonomous and Adaptive Systems</i> , 2009 , 4, 1-27	1.2	41
58	Gathering Asynchronous Mobile Robots with Inaccurate Compasses. <i>Lecture Notes in Computer Science</i> , 2006 , 333-349	0.9	39
57	Fault-tolerant flocking for a group of autonomous mobile robots. <i>Journal of Systems and Software</i> , 2011 , 84, 29-36	3.3	33
56	Semi-passive replication		31
55	Neko: a single environment to simulate and prototype distributed algorithms		24
54	Discovering and Assessing Fine-Grained Metrics in Robot Networks Protocols 2014 ,		18
53	Reliability prediction for component-based software systems: Dealing with concurrent and propagating errors. <i>Science of Computer Programming</i> , 2015 , 97, 426-457	1.1	15
52	The cost of probabilistic agreement in oblivious robot networks. <i>Information Processing Letters</i> , 2010 , 110, 431-438	0.8	15
51	Design and Analysis of a Self-Tuning Proportional and Integral Controller for Active Queue Management Routers to Support TCP Flows 2006 ,		15

50	Definition and specification of accrual failure detectors		15
49	Optimally Gathering Two Robots 2018 ,		15
48	An energy efficient routing scheme for mobile wireless sensor networks 2008 ,		14
47	Using Eventually Consistent Compasses to Gather Oblivious Mobile Robots with Limited Visibility. <i>Lecture Notes in Computer Science</i> , 2006 , 484-500	0.9	14
46	Impact of a failure detection mechanism on the performance of consensus		13
45	Fault-Tolerant Flocking in a k-Bounded Asynchronous System. <i>Lecture Notes in Computer Science</i> , 2008 , 145-163	0.9	11
44	Contention-aware metrics for distributed algorithms: comparison of atomic broadcast algorithms		10
43	Priority Inheritance with Backtracking for Iterative Multi-agent Path Finding 2019 ,		10
42	Hybrid Overloading and Stochastic Analysis for Redundant Real-time Multiprocessor Systems 2007 ,		9
41	Reliability Prediction for Component-Based Systems: Incorporating Error Propagation Analysis and Different Execution Models 2012 ,		8
40	Broadcasting messages in fault-tolerant distributed systems: the benefit of handling input-triggered and output-triggered suspicions differently		8
39	Tight bound on mobile Byzantine Agreement. <i>Theoretical Computer Science</i> , 2016 , 609, 361-373	1.1	8
38	Communicating Reliably in Multihop Dynamic Networks Despite Byzantine Failures 2015 ,		7
37	Reliability Prediction for Component-Based Software Systems with Architectural-Level Fault Tolerance Mechanisms 2013 ,		6
36	An SNMP based failure detection service. <i>Proceedings of the IEEE Symposium on Reliable Distributed Systems</i> , 2006 ,		6
35	Semi-passive replication and Lazy Consensus. <i>Journal of Parallel and Distributed Computing</i> , 2004 , 64, 1380-1398	4.4	6
34	Towards a Theory of Self-organization. <i>Lecture Notes in Computer Science</i> , 2005 , 505-506	0.9	6
33	Replicating CORBA Objects: A Marriage between Active and Passive Replication 1999 , 375-387		6

32	Fault-Tolerant Flocking of Mobile Robots with Whole Formation Rotation 2009 ,		5
31	Collision prevention using group communication for asynchronous cooperative mobile robots. <i>International Conference on Advanced Networking and Applications</i> , 2007 ,		5
30	A novel numerical algorithm based on self-tuning controller to support TCP flows. <i>Mathematics and Computers in Simulation</i> , 2008 , 79, 1178-1188	3.3	5
29	Chasing the FLP impossibility result in a LAN: or, How robust can a fault tolerant server be?		5
28	Gathering Two Stateless Mobile Robots Using Very v 2007 ,		5
27	Brief Announcement: Discovering and Assessing Fine-Grained Metrics in Robot Networks Protocols. <i>Lecture Notes in Computer Science</i> , 2012 , 282-284	0.9	5
26	Tight Bound on Mobile Byzantine Agreement. <i>Lecture Notes in Computer Science</i> , 2014 , 76-90	0.9	5
25	Self-stabilizing gathering of mobile robots under crash or Byzantine faults. <i>Distributed Computing</i> , 2020 , 33, 393-421	1.2	5
24	Towards a Theory of Self-organization. <i>Lecture Notes in Computer Science</i> , 2006 , 191-205	0.9	4
23	Fault-Tolerant Mobile Robots. <i>Lecture Notes in Computer Science</i> , 2019 , 234-251	0.9	3
22	2013 ,		3
21	Comparative Analysis of QoS and Memory Usage of Adaptive Failure Detectors 2007 ,		3
20	A Brief Comparative Study on Analytical Models of Computer System Dependability and Security 2005 ,		3
19	Decomposition of fundamental problems for cooperative autonomous mobile systems 2004 ,		3
18	Group communication based on standard interfaces		3
17	Time vs. space in fault-tolerant distributed systems		3
16	Optimization techniques for replicating CORBA objects 1999 ,		3
15	Collision Prevention Platform for a Dynamic Group of Asynchronous Cooperative Mobile Robots. <i>Journal of Networks</i> , 2007 , 2,		3

14	Flocking with Oblivious Robots. <i>Lecture Notes in Computer Science</i> , 2016 , 94-108	0.9	3
13	Approximate QoS Rule Derivation Based on Root Cause Analysis for Cloud Computing 2019 ,		3
12	Exploration and Surveillance in Multi-robots Networks 2011 ,		2
11	Using Model Checking to Formally Verify Rendezvous Algorithms for Robots with Lights in Euclidean Space		2
10	An Integrated System for Distributed Bioinformatics Environment on Grids. <i>Lecture Notes in Computer Science</i> , 2005 , 8-19	0.9	2
9	Self-stabilized Flocking of a Group of Mobile Robots under Memory Corruption 2009 ,		1
8	Robust Self-Deployment for a Swarm of Autonomous Mobile Robots with Limited Visibility Range 2007 ,		1
7	Real-time Task Scheduling Using Extended Overloading Technique for Multiprocessor Systems 2007 ,		1
6	End-to-end consensus using end-to-end channels 2006 ,		1
5	A Resource-Based Server Performance Control for Grid Computing Systems. <i>Lecture Notes in Computer Science</i> , 2005 , 56-64	0.9	1
4	Resilient Real-Valued Consensus in Spite of Mobile Malicious Agents on Directed Graphs. <i>IEEE Transactions on Parallel and Distributed Systems</i> , 2022 , 33, 586-603	3.7	1
3	Resilient Consensus against Mobile Malicious Agents. <i>IFAC-PapersOnLine</i> , 2020 , 53, 3409-3414	0.7	0
2	Highly Available Trading System: Experiments with CORBA 1998 , 91-104		0
1	A Single-Pass Online Data Mining Algorithm Combined with Control Theory with Limited Memory in Dynamic Data Streams. <i>Lecture Notes in Computer Science</i> , 2005 , 1119-1130	0.9	