

# Xavier Dfago

## List of Publications by Year in Descending Order

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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	Resilient Real-Valued Consensus in Spite of Mobile Malicious Agents on Directed Graphs. <i>IEEE Transactions on Parallel and Distributed Systems</i> , <b>2022</b> , 33, 586-603	3.7	1
66	Resilient Consensus against Mobile Malicious Agents. <i>IFAC-PapersOnLine</i> , <b>2020</b> , 53, 3409-3414	0.7	0
65	Self-stabilizing gathering of mobile robots under crash or Byzantine faults. <i>Distributed Computing</i> , <b>2020</b> , 33, 393-421	1.2	5
64	Fault-Tolerant Mobile Robots. <i>Lecture Notes in Computer Science</i> , <b>2019</b> , 234-251	0.9	3
63	Priority Inheritance with Backtracking for Iterative Multi-agent Path Finding <b>2019</b> ,		10
62	Approximate QoS Rule Derivation Based on Root Cause Analysis for Cloud Computing <b>2019</b> ,		3
61	Optimally Gathering Two Robots <b>2018</b> ,		15
60	Flocking with Oblivious Robots. <i>Lecture Notes in Computer Science</i> , <b>2016</b> , 94-108	0.9	3
59	Tight bound on mobile Byzantine Agreement. <i>Theoretical Computer Science</i> , <b>2016</b> , 609, 361-373	1.1	8
58	Reliability prediction for component-based software systems: Dealing with concurrent and propagating errors. <i>Science of Computer Programming</i> , <b>2015</b> , 97, 426-457	1.1	15
57	Communicating Reliably in Multihop Dynamic Networks Despite Byzantine Failures <b>2015</b> ,		7
56	Discovering and Assessing Fine-Grained Metrics in Robot Networks Protocols <b>2014</b> ,		18
55	Tight Bound on Mobile Byzantine Agreement. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 76-90	0.9	5
54	<b>2013</b> ,		3
53	Reliability Prediction for Component-Based Software Systems with Architectural-Level Fault Tolerance Mechanisms <b>2013</b> ,		6
52	The Gathering Problem for Two Oblivious Robots with Unreliable Compasses. <i>SIAM Journal on Computing</i> , <b>2012</b> , 41, 26-46	1.1	59
51	Reliability Prediction for Component-Based Systems: Incorporating Error Propagation Analysis and Different Execution Models <b>2012</b> ,		8

50	Brief Announcement: Discovering and Assessing Fine-Grained Metrics in Robot Networks Protocols. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 282-284	0.9	5
49	Exploration and Surveillance in Multi-robots Networks <b>2011</b> ,		2
48	Fault-tolerant flocking for a group of autonomous mobile robots. <i>Journal of Systems and Software</i> , <b>2011</b> , 84, 29-36	3.3	33
47	The cost of probabilistic agreement in oblivious robot networks. <i>Information Processing Letters</i> , <b>2010</b> , 110, 431-438	0.8	15
46	Self-stabilized Flocking of a Group of Mobile Robots under Memory Corruption <b>2009</b> ,		1
45	Using eventually consistent compasses to gather memory-less mobile robots with limited visibility. <i>ACM Transactions on Autonomous and Adaptive Systems</i> , <b>2009</b> , 4, 1-27	1.2	41
44	Fault-Tolerant Flocking of Mobile Robots with Whole Formation Rotation <b>2009</b> ,		5
43	An energy efficient routing scheme for mobile wireless sensor networks <b>2008</b> ,		14
42	A Decentralized and Adaptive Flocking Algorithm for Autonomous Mobile Robots <b>2008</b> ,		45
41	A novel numerical algorithm based on self-tuning controller to support TCP flows. <i>Mathematics and Computers in Simulation</i> , <b>2008</b> , 79, 1178-1188	3.3	5
40	Non-uniform circle formation algorithm for oblivious mobile robots with convergence toward uniformity. <i>Theoretical Computer Science</i> , <b>2008</b> , 396, 97-112	1.1	66
39	Fault-Tolerant Flocking in a k-Bounded Asynchronous System. <i>Lecture Notes in Computer Science</i> , <b>2008</b> , 145-163	0.9	11
38	Robust Self-Deployment for a Swarm of Autonomous Mobile Robots with Limited Visibility Range <b>2007</b> ,		1
37	Real-time Task Scheduling Using Extended Overloading Technique for Multiprocessor Systems <b>2007</b> ,		1
36	Collision prevention using group communication for asynchronous cooperative mobile robots. <i>International Conference on Advanced Networking and Applications</i> , <b>2007</b> ,		5
35	Hybrid Overloading and Stochastic Analysis for Redundant Real-time Multiprocessor Systems <b>2007</b> ,		9
34	Comparative Analysis of QoS and Memory Usage of Adaptive Failure Detectors <b>2007</b> ,		3
33	Gathering Two Stateless Mobile Robots Using Very v <b>2007</b> ,		5

32	Collision Prevention Platform for a Dynamic Group of Asynchronous Cooperative Mobile Robots. <i>Journal of Networks</i> , <b>2007</b> , 2,		3
31	End-to-end consensus using end-to-end channels <b>2006</b> ,		1
30	Design and Analysis of a Self-Tuning Proportional and Integral Controller for Active Queue Management Routers to Support TCP Flows <b>2006</b> ,		15
29	An SNMP based failure detection service. <i>Proceedings of the IEEE Symposium on Reliable Distributed Systems</i> , <b>2006</b> ,		6
28	Towards a Theory of Self-organization. <i>Lecture Notes in Computer Science</i> , <b>2006</b> , 191-205	0.9	4
27	Using Eventually Consistent Compasses to Gather Oblivious Mobile Robots with Limited Visibility. <i>Lecture Notes in Computer Science</i> , <b>2006</b> , 484-500	0.9	14
26	Fault-Tolerant and Self-stabilizing Mobile Robots Gathering. <i>Lecture Notes in Computer Science</i> , <b>2006</b> , 46-60	0.9	64
25	Gathering Asynchronous Mobile Robots with Inaccurate Compasses. <i>Lecture Notes in Computer Science</i> , <b>2006</b> , 333-349	0.9	39
24	A Brief Comparative Study on Analytical Models of Computer System Dependability and Security <b>2005</b> ,		3
23	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> , <b>2005</b> , 1119-1130	0.9	
22	A Resource-Based Server Performance Control for Grid Computing Systems. <i>Lecture Notes in Computer Science</i> , <b>2005</b> , 56-64	0.9	1
21	An Integrated System for Distributed Bioinformatics Environment on Grids. <i>Lecture Notes in Computer Science</i> , <b>2005</b> , 8-19	0.9	2
20	Towards a Theory of Self-organization. <i>Lecture Notes in Computer Science</i> , <b>2005</b> , 505-506	0.9	6
19	Total order broadcast and multicast algorithms. <i>ACM Computing Surveys</i> , <b>2004</b> , 36, 372-421	13.4	255
18	Semi-passive replication and Lazy Consensus. <i>Journal of Parallel and Distributed Computing</i> , <b>2004</b> , 64, 1380-1398	4.4	6
17	Decomposition of fundamental problems for cooperative autonomous mobile systems <b>2004</b> ,		3
16	<b>2004</b> ,		66
15	Circle formation for oblivious anonymous mobile robots with no common sense of orientation <b>2002</b> ,		62

14	Failure detectors as first class objects <b>1999</b> ,	45
13	Optimization techniques for replicating CORBA objects <b>1999</b> ,	3
12	Replicating CORBA Objects: A Marriage between Active and Passive Replication <b>1999</b> , 375-387	6
11	Highly Available Trading System: Experiments with CORBA <b>1998</b> , 91-104	0
10	Semi-passive replication	31
9	Definition and specification of accrual failure detectors	15
8	Group communication based on standard interfaces	3
7	Impact of a failure detection mechanism on the performance of consensus	13
6	Chasing the FLP impossibility result in a LAN: or, How robust can a fault tolerant server be?	5
5	Time vs. space in fault-tolerant distributed systems	3
4	Broadcasting messages in fault-tolerant distributed systems: the benefit of handling input-triggered and output-triggered suspicions differently	8
3	Contention-aware metrics for distributed algorithms: comparison of atomic broadcast algorithms	10
2	Neko: a single environment to simulate and prototype distributed algorithms	24
1	Using Model Checking to Formally Verify Rendezvous Algorithms for Robots with Lights in Euclidean Space	2