Giuseppe Prencipe

List of Publications by Year
in descending order

50 papers	2,047 citations	393982 19 h-index	264894 42 g-index
55 all docs	55 docs citations	55 times ranked	378 citing authors

#	Article	IF	Citations
1	Gathering of asynchronous robots with limited visibility. Theoretical Computer Science, 2005, 337, 147-168.	0.5	319
2	Arbitrary pattern formation by asynchronous, anonymous, oblivious robots. Theoretical Computer Science, 2008, 407, 412-447.	0.5	166
3	Distributed Computing by Mobile Robots: Gathering. SIAM Journal on Computing, 2012, 41, 829-879.	0.8	166
4	Impossibility of gathering by a set of autonomous mobile robots. Theoretical Computer Science, 2007, 384, 222-231.	0.5	133
5	Distributed Computing by Oblivious Mobile Robots. Synthesis Lectures on Distributed Computing Theory, 2012, 3, 1-185.	0.1	116
6	Solving the Robots Gathering Problem. Lecture Notes in Computer Science, 2003, , 1181-1196.	1.0	108
7	Autonomous mobile robots with lights. Theoretical Computer Science, 2016, 609, 171-184.	0.5	101
8	Hard Tasks for Weak Robots: The Role of Common Knowledge in Pattern Formation by Autonomous Mobile Robots. Lecture Notes in Computer Science, 1999, , 93-102.	1.0	85
9	Self-deployment of mobile sensors on a ring. Theoretical Computer Science, 2008, 402, 67-80.	0.5	78
10	Mobile Search for a Black Hole in an Anonymous Ring. Algorithmica, 2007, 48, 67-90.	1.0	77
11	Searching for a black hole in arbitrary networks: optimal mobile agents protocols. Distributed Computing, 2006, 19, 1-99999.	0.7	72
12	Gathering of Asynchronous Oblivious Robots with Limited Visibility. Lecture Notes in Computer Science, 2001, , 247-258.	1.0	62
13	Coordination without communication: the case of the flocking problem. Discrete Applied Mathematics, 2004, 144, 324-344.	0.5	56
14	Multiple Agents RendezVous in a Ring in Spite of a Black Hole. Lecture Notes in Computer Science, 2004, , 34-46.	1.0	44
15	Distributed computing by mobile robots: uniform circle formation. Distributed Computing, 2017, 30, 413-457.	0.7	40
16	Instantaneous Actions vs. Full Asynchronicity: Controlling and Coordinating a Sset of Autonomous Mobile Robots. Lecture Notes in Computer Science, 2001, , 154-171.	1.0	36
17	On the Feasibility of Gathering by Autonomous Mobile Robots. Lecture Notes in Computer Science, 2005, , 246-261.	1.0	34
18	The Power of Lights: Synchronizing Asynchronous Robots Using Visible Bits. , 2012, , .		34

#	Article	IF	Citations
19	Getting close without touching: near-gathering for autonomous mobile robots. Distributed Computing, 2015, 28, 333-349.	0.7	29
20	Searching for a black hole in arbitrary networks. , 2002, , .		28
21	Mobile Search for a Black Hole in an Anonymous Ring. Lecture Notes in Computer Science, 2001, , 166-179.	1.0	27
22	Distributed Algorithms for Autonomous Mobile Robots. , 2006, , 47-62.		21
23	The Effect of Synchronicity on the Behavior of Autonomous Mobile Robots. Theory of Computing Systems, 2005, 38, 539-558.	0.7	20
24	Distributed Minimum Spanning Tree Maintenance for Transient Node Failures. IEEE Transactions on Computers, 2012, 61, 408-414.	2.4	18
25	Gathering in dynamic rings. Theoretical Computer Science, 2020, 811, 79-98.	0.5	18
26	Asynchronous Silent Programmable Matter Achieves Leader Election and Compaction. IEEE Access, 2020, 8, 207619-207634.	2.6	14
27	Getting Close without Touching. Lecture Notes in Computer Science, 2012, , 315-326.	1.0	14
28	Moving and Computing Models: Robots. Lecture Notes in Computer Science, 2019, , 3-14.	1.0	14
29	Distributed Computing by Mobile Robots: Solving the Uniform Circle Formation Problem. Lecture Notes in Computer Science, 2014, , 217-232.	1.0	13
30	Line Recovery by Programmable Particles. , 2018, , .		13
31	Self-deployment Algorithms for Mobile Sensors on a Ring. Lecture Notes in Computer Science, 2006, , 59-70.	1.0	10
32	Autonomous Mobile Robots: A Distributed Computing Perspective. Lecture Notes in Computer Science, 2014, , 6-21.	1.0	10
33	Computing by Mobile Robotic Sensors. Monographs in Theoretical Computer Science, 2011, , 655-693.	0.6	8
34	Synchronized Dancing of Oblivious Chameleons. Lecture Notes in Computer Science, 2014, , 113-124.	1.0	7
35	Gathering in Dynamic Rings. Lecture Notes in Computer Science, 2017, , 339-355.	1.0	7
36	A Systematic Review of Wi-Fi and Machine Learning Integration with Topic Modeling Techniques. Sensors, 2022, 22, 4925.	2.1	7

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37	Pattern Formation. Lecture Notes in Computer Science, 2019, , 37-62.	1.0	6
38	Forming Sequences of Patterns With Luminous Robots. IEEE Access, 2020, 8, 90577-90597.	2.6	4
39	Coarse Grained Parallel Algorithms for Detecting Convex Bipartite Graphs. Lecture Notes in Computer Science, 2000, , 83-94.	1.0	4
40	Linear Time Distributed Swap Edge Algorithms. Lecture Notes in Computer Science, 2013, , 122-133.	1.0	4
41	Separating Bounded and Unbounded Asynchrony for Autonomous Robots. , 2021, , .		3
42	Efficient Algorithms for Detecting Regular Point Configurations. Lecture Notes in Computer Science, 2005, , 23-35.	1.0	3
43	Distributed Computation of All Node Replacements of a Minimum Spanning Tree. Lecture Notes in Computer Science, 2007, , 598-607.	1.0	3
44	Black Hole Search in Dynamic Rings. , 2021, , .		3
45	Efficient Protocols for Computing the Optimal Swap Edges of a Shortest Path Tree. , 2004, , 153-166.		2
46	Compacting and Grouping Mobile Agents on Dynamic Rings. Lecture Notes in Computer Science, 2019, , 114-133.	1.0	2
47	Distributed Computation for Swapping a Failing Edge. Lecture Notes in Computer Science, 2004, , 28-39.	1.0	2
48	Guest Editors' Introduction: Algorithms and Today's Practitioner. IEEE Software, 2012, 29, 61-63.	2.1	1
49	Zombie Swarms: An Investigation on the Behaviour of Your Undead Relatives. Lecture Notes in Computer Science, 2014, , 206-217.	1.0	0
50	Compacting oblivious agents on dynamic rings. PeerJ Computer Science, 2021, 7, e466.	2.7	0