Giuseppe Prencipe

List of Publications by Year
in descending order

50 papers	2,047 citations	394421 19 h-index	265206 42 g-index
55 all docs	55 docs citations	55 times ranked	378 citing authors

#	Article	IF	Citations
1	A Systematic Review of Wi-Fi and Machine Learning Integration with Topic Modeling Techniques. Sensors, 2022, 22, 4925.	3.8	7
2	Compacting oblivious agents on dynamic rings. PeerJ Computer Science, 2021, 7, e466.	4.5	0
3	Separating Bounded and Unbounded Asynchrony for Autonomous Robots. , 2021, , .		3
4	Black Hole Search in Dynamic Rings. , 2021, , .		3
5	Gathering in dynamic rings. Theoretical Computer Science, 2020, 811, 79-98.	0.9	18
6	Forming Sequences of Patterns With Luminous Robots. IEEE Access, 2020, 8, 90577-90597.	4.2	4
7	Asynchronous Silent Programmable Matter Achieves Leader Election and Compaction. IEEE Access, 2020, 8, 207619-207634.	4.2	14
8	Compacting and Grouping Mobile Agents on Dynamic Rings. Lecture Notes in Computer Science, 2019, , 114-133.	1.3	2
9	Pattern Formation. Lecture Notes in Computer Science, 2019, , 37-62.	1.3	6
10	Moving and Computing Models: Robots. Lecture Notes in Computer Science, 2019, , 3-14.	1.3	14
11	Line Recovery by Programmable Particles. , 2018, , .		13
12	Distributed computing by mobile robots: uniform circle formation. Distributed Computing, 2017, 30, 413-457.	0.8	40
13	Gathering in Dynamic Rings. Lecture Notes in Computer Science, 2017, , 339-355.	1.3	7
14	Autonomous mobile robots with lights. Theoretical Computer Science, 2016, 609, 171-184.	0.9	101
15	Getting close without touching: near-gathering for autonomous mobile robots. Distributed Computing, 2015, 28, 333-349.	0.8	29
16	Distributed Computing by Mobile Robots: Solving the Uniform Circle Formation Problem. Lecture Notes in Computer Science, 2014, , 217-232.	1.3	13
17	Zombie Swarms: An Investigation on the Behaviour of Your Undead Relatives. Lecture Notes in Computer Science, 2014, , 206-217.	1.3	0
18	Synchronized Dancing of Oblivious Chameleons. Lecture Notes in Computer Science, 2014, , 113-124.	1.3	7

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19	Autonomous Mobile Robots: A Distributed Computing Perspective. Lecture Notes in Computer Science, 2014, , 6-21.	1.3	10
20	Linear Time Distributed Swap Edge Algorithms. Lecture Notes in Computer Science, 2013, , 122-133.	1.3	4
21	Distributed Computing by Mobile Robots: Gathering. SIAM Journal on Computing, 2012, 41, 829-879.	1.0	166
22	The Power of Lights: Synchronizing Asynchronous Robots Using Visible Bits. , 2012, , .		34
23	Distributed Computing by Oblivious Mobile Robots. Synthesis Lectures on Distributed Computing Theory, 2012, 3, 1-185.	0.2	116
24	Guest Editors' Introduction: Algorithms and Today's Practitioner. IEEE Software, 2012, 29, 61-63.	1.8	1
25	Distributed Minimum Spanning Tree Maintenance for Transient Node Failures. IEEE Transactions on Computers, 2012, 61, 408-414.	3.4	18
26	Getting Close without Touching. Lecture Notes in Computer Science, 2012, , 315-326.	1.3	14
27	Computing by Mobile Robotic Sensors. Monographs in Theoretical Computer Science, 2011, , 655-693.	0.6	8
28	Self-deployment of mobile sensors on a ring. Theoretical Computer Science, 2008, 402, 67-80.	0.9	78
29	Arbitrary pattern formation by asynchronous, anonymous, oblivious robots. Theoretical Computer Science, 2008, 407, 412-447.	0.9	166
30	Impossibility of gathering by a set of autonomous mobile robots. Theoretical Computer Science, 2007, 384, 222-231.	0.9	133
31	Mobile Search for a Black Hole in an Anonymous Ring. Algorithmica, 2007, 48, 67-90.	1.3	77
32	Distributed Computation of All Node Replacements of a Minimum Spanning Tree. Lecture Notes in Computer Science, 2007, , 598-607.	1.3	3
33	Searching for a black hole in arbitrary networks: optimal mobile agents protocols. Distributed Computing, 2006, 19, 1-99999.	0.8	72
34	Self-deployment Algorithms for Mobile Sensors on a Ring. Lecture Notes in Computer Science, 2006, , 59-70.	1.3	10
35	Distributed Algorithms for Autonomous Mobile Robots. , 2006, , 47-62.		21
36	Gathering of asynchronous robots with limited visibility. Theoretical Computer Science, 2005, 337, 147-168.	0.9	319

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37	The Effect of Synchronicity on the Behavior of Autonomous Mobile Robots. Theory of Computing Systems, 2005, 38, 539-558.	1.1	20
38	On the Feasibility of Gathering by Autonomous Mobile Robots. Lecture Notes in Computer Science, 2005, , 246-261.	1.3	34
39	Efficient Algorithms for Detecting Regular Point Configurations. Lecture Notes in Computer Science, 2005, , 23-35.	1.3	3
40	Coordination without communication: the case of the flocking problem. Discrete Applied Mathematics, 2004, 144, 324-344.	0.9	56
41	Efficient Protocols for Computing the Optimal Swap Edges of a Shortest Path Tree. , 2004, , 153-166.		2
42	Multiple Agents RendezVous in a Ring in Spite of a Black Hole. Lecture Notes in Computer Science, 2004, , 34-46.	1.3	44
43	Distributed Computation for Swapping a Failing Edge. Lecture Notes in Computer Science, 2004, , 28-39.	1.3	2
44	Solving the Robots Gathering Problem. Lecture Notes in Computer Science, 2003, , 1181-1196.	1.3	108
45	Searching for a black hole in arbitrary networks. , 2002, , .		28
46	Gathering of Asynchronous Oblivious Robots with Limited Visibility. Lecture Notes in Computer Science, 2001, , 247-258.	1.3	62
47	Mobile Search for a Black Hole in an Anonymous Ring. Lecture Notes in Computer Science, 2001, , 166-179.	1.3	27
48	Instantaneous Actions vs. Full Asynchronicity: Controlling and Coordinating a Sset of Autonomous Mobile Robots. Lecture Notes in Computer Science, 2001, , 154-171.	1.3	36
49	Coarse Grained Parallel Algorithms for Detecting Convex Bipartite Graphs. Lecture Notes in Computer Science, 2000, , 83-94.	1.3	4
50	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.	1.3	85