Michael Otte

List of Publications by Year
in descending order

18 papers	339 citations	9 h-index (1040056)	15 g-index (996975)
19 all docs	19 docs citations	19 times ranked	277 citing authors

#	Article	IF	Citations
1	Auctions for multi-robot task allocation in communication limited environments. Autonomous Robots, 2020, 44, 547-584.	4.8	82
2	C-FOREST: Parallel Shortest Path Planning With Superlinear Speedup. IEEE Transactions on Robotics, 2013, 29, 798-806.	10.3	71
3	LSwarm: Efficient Collision Avoidance for Large Swarms With Coverage Constraints in Complex Urban Scenes. IEEE Robotics and Automation Letters, 2019, 4, 3940-3947.	5.1	33
4	Experimental Comparison of Decentralized Task Allocation Algorithms Under Imperfect Communication. IEEE Robotics and Automation Letters, 2020, 5, 572-579.	5.1	25
5	Decentralized Task Allocation in Multi-Agent Systems Using a Decentralized Genetic Algorithm. , 2020, , .		24
6	Multi-robot task allocation with auctions in harsh communication environments. , 2017, , .		18
7	Communication-Aware Multi-Agent Metareasoning for Decentralized Task Allocation. IEEE Access, 2021, 9, 98712-98730.	4.2	15
8	An emergent group mind across a swarm of robots: Collective cognition and distributed sensing via a shared wireless neural network. International Journal of Robotics Research, 2018, 37, 1017-1061.	8.5	11
9	Any-Com Multi-robot Path-Planning with Dynamic Teams: Multi-robot Coordination under Communication Constraints. Springer Tracts in Advanced Robotics, 2014, , 743-757.	0.4	11
10	Competitive target search with multi-agent teams: symmetric and asymmetric communication constraints. Autonomous Robots, 2018, 42, 1207-1230.	4.8	10
11	Multipass Target Search in Natural Environments. Sensors, 2017, 17, 2514.	3.8	9
12	Guest editorial: Special issue on robot communication challenges: real-world problems, systems, and methods. Autonomous Robots, 2020, 44, 1-2.	4.8	5
13	Any-com collision checking: Sharing certificates in decentralized multi-robot teams. , 2014, , .		4
14	Dynamic teams of robots as ad hoc distributed computers: reducing the complexity of multi-robot motion planning via subspace selection. Autonomous Robots, 2018, 42, 1691-1713.	4.8	4
15	Metareasoning Structures, Problems, and Modes for Multiagent Systems: A Survey. IEEE Access, 2020, 8, 183080-183089.	4.2	3
16	Collective Cognition and Sensing in Robotic Swarms via an Emergent Group-Mind. Springer Proceedings in Advanced Robotics, 2017, , 829-840.	1.3	2
17	Path-Based Sensors: Paths as Sensors, Bayesian Updates, and Shannon Information Gathering. IEEE Transactions on Automation Science and Engineering, 2021, 18, 946-967.	5.2	1
18	Multi-Agent Ergodic Coverage in Urban Environments. , 2021, , .		1