

Dylan A Shell

List of Publications by Year in descending order

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Version: 2024-02-01

44
papers

394
citations

1040056

9
h-index

996975

15
g-index

44
all docs

44
docs citations

44
times ranked

398
citing authors

#	ARTICLE	IF	CITATIONS
1	Large-scale multi-robot task allocation via dynamic partitioning and distribution. <i>Autonomous Robots</i> , 2012, 33, 291-307.	4.8	62
2	Unifying microscopic flocking motion models for virtual, robotic, and biological flock members. <i>Autonomous Robots</i> , 2013, 35, 195-219.	4.8	31
3	Assignment Algorithms for Modeling Resource Contention in Multirobot Task Allocation. <i>IEEE Transactions on Automation Science and Engineering</i> , 2015, 12, 889-900.	5.2	30
4	A Midsummer Night's Dream (with flying robots). <i>Autonomous Robots</i> , 2011, 30, 143-156.	4.8	23
5	Toward autonomous robotic containment booms: visual servoing for robust inter-vehicle docking of surface vehicles. <i>Intelligent Service Robotics</i> , 2012, 5, 1-18.	2.6	23
6	An anytime assignment algorithm: From local task swapping to global optimality. <i>Autonomous Robots</i> , 2013, 35, 271-286.	4.8	17
7	An evaluation of methods for modeling contact in multibody simulation. , 2011, , .		16
8	Assignment algorithms for modeling resource contention and interference in multi-robot task-allocation. , 2014, , .		16
9	Communication constrained task allocation with optimized local task swaps. <i>Autonomous Robots</i> , 2015, 39, 429-444.	4.8	13
10	Automatic design of discreet discrete filters. , 2015, , .		13
11	Analyzing the sensitivity of the optimal assignment in probabilistic multi-robot task allocation. <i>IEEE Robotics and Automation Letters</i> , 2016, , 1-1.	5.1	11
12	Extensive analysis of Linear Complementarity Problem (LCP) solver performance on randomly generated rigid body contact problems. , 2012, , .		10
13	Computing cell-based decompositions dynamically for planning motions of tethered robots. , 2014, , .		10
14	Non-Uniform Robot Densities in Vibration Driven Swarms Using Phase Separation Theory. , 2019, , .		10
15	Space-Efficient Filters for Mobile Robot Localization from Discrete Limit Cycles. <i>IEEE Robotics and Automation Letters</i> , 2018, 3, 257-264.	5.1	9
16	Complete characterization of a class of privacy-preserving tracking problems. <i>International Journal of Robotics Research</i> , 2019, 38, 299-315.	8.5	9
17	A Distributable and Computation-flexible Assignment Algorithm: From Local Task Swapping to Global Optimality. , 0, , .		9
18	Automatic reduction of combinatorial filters. , 2013, , .		8

#	ARTICLE	IF	CITATIONS
19	Using a Compliant, Unactuated Tail to Manipulate Objects. IEEE Robotics and Automation Letters, 2017, 2, 223-230.	5.1	7
20	Unifying consensus and covariance intersection for decentralized state estimation. , 2016, , .		6
21	Planning Coordinated Event Observation for Structured Narratives. , 2019, , .		6
22	Tunable routing solutions for multi-robot navigation via the assignment problem: A 3D representation of the matching graph. , 2012, , .		5
23	Distributed robotic sampling of non-homogeneous spatio-temporal fields via recursive geometric sub-division. , 2014, , .		5
24	A new model for self-organized robotic clustering: Understanding boundary induced densities and cluster compactness. , 2015, , .		5
25	A Midsummer Night's Dream: Social proof in HRI. , 2010, , .		4
26	Tackling task allocation uncertainty via a combinatorial method. , 2012, , .		4
27	A man-packable unmanned surface vehicle for radiation localization and forensics. , 2015, , .		4
28	Planning motions for a planar robot attached to a stiff tether. , 2016, , .		4
29	Flocking: Don't need no stinkin' robot recognition. , 2011, , .		3
30	Motion planning for a pair of tethered robots. Autonomous Robots, 2021, 45, 693-707.	4.8	3
31	Fully Decentralized Task Swaps with Optimized Local Searching. , 0, , .		3
32	From selfish auctioning to incentivized marketing. Autonomous Robots, 2014, 37, 417-430.	4.8	2
33	Efficient distributed state estimation of hidden Markov Models over unreliable networks. , 2017, , .		2
34	Bound to help: cooperative manipulation of objects via compliant, unactuated tails. Autonomous Robots, 2018, 42, 1563-1582.	4.8	2
35	Unifying Consensus and Covariance Intersection for Efficient Distributed State Estimation Over Unreliable Networks. IEEE Transactions on Robotics, 2021, 37, 1525-1538.	10.3	2
36	Flight control for target seeking by 13 gram ornithopter. , 2011, , .		2

#	ARTICLE	IF	CITATIONS
37	Approximate characterization of multi-robot swarm shapes in sublinear-time. , 2011, , .		1
38	Finding concise plans: Hardness and algorithms. , 2013, , .		1
39	Robots going round the bend – A comparative study of estimators for anticipating river meanders. , 2017, , .		1
40	Planning to chronicle: Optimal policies for narrative observation of unpredictable events. International Journal of Robotics Research, 0, , 027836492110691.	8.5	1
41	Reactivity and statefulness: Action-based sensors, plans, and necessary state. International Journal of Robotics Research, 0, , 027836492210788.	8.5	1
42	Improving the performance of self-organized robotic clustering: Modeling and planning sequential changes to the division of labor. , 2013, , .		0
43	A distributed approach to load balance for multi-robot task allocation. , 2014, , .		0
44	Efficient recursive distributed state estimation of hidden Markov models over unreliable networks. Autonomous Robots, 2020, 44, 321-338.	4.8	0