

Dylan A Shell

List of Publications by Year in descending order

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44
papers

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1040056

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44
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44
docs citations

44
times ranked

398
citing authors

#	ARTICLE	IF	CITATIONS
1	Unifying Consensus and Covariance Intersection for Efficient Distributed State Estimation Over Unreliable Networks. IEEE Transactions on Robotics, 2021, 37, 1525-1538.	10.3	2
2	Motion planning for a pair of tethered robots. Autonomous Robots, 2021, 45, 693-707.	4.8	3
3	Efficient recursive distributed state estimation of hidden Markov models over unreliable networks. Autonomous Robots, 2020, 44, 321-338.	4.8	0
4	Complete characterization of a class of privacy-preserving tracking problems. International Journal of Robotics Research, 2019, 38, 299-315.	8.5	9
5	Planning Coordinated Event Observation for Structured Narratives. , 2019, , .		6
6	Non-Uniform Robot Densities in Vibration Driven Swarms Using Phase Separation Theory. , 2019, , .		10
7	Bound to help: cooperative manipulation of objects via compliant, unactuated tails. Autonomous Robots, 2018, 42, 1563-1582.	4.8	2
8	Space-Efficient Filters for Mobile Robot Localization from Discrete Limit Cycles. IEEE Robotics and Automation Letters, 2018, 3, 257-264.	5.1	9
9	Robots going round the bend "A comparative study of estimators for anticipating river meanders. , 2017, , .		1
10	Using a Compliant, Unactuated Tail to Manipulate Objects. IEEE Robotics and Automation Letters, 2017, 2, 223-230.	5.1	7
11	Efficient distributed state estimation of hidden Markov Models over unreliable networks. , 2017, , .		2
12	Planning motions for a planar robot attached to a stiff tether. , 2016, , .		4
13	Unifying consensus and covariance intersection for decentralized state estimation. , 2016, , .		6
14	Analyzing the sensitivity of the optimal assignment in probabilistic multi-robot task allocation. IEEE Robotics and Automation Letters, 2016, , 1-1.	5.1	11
15	Communication constrained task allocation with optimized local task swaps. Autonomous Robots, 2015, 39, 429-444.	4.8	13
16	A man-packable unmanned surface vehicle for radiation localization and forensics. , 2015, , .		4
17	A new model for self-organized robotic clustering: Understanding boundary induced densities and cluster compactness. , 2015, , .		5
18	Assignment Algorithms for Modeling Resource Contention in Multirobot Task Allocation. IEEE Transactions on Automation Science and Engineering, 2015, 12, 889-900.	5.2	30

#	ARTICLE	IF	CITATIONS
19	Automatic design of discreet discrete filters. , 2015, , .		13
20	Assignment algorithms for modeling resource contention and interference in multi-robot task-allocation. , 2014, , .		16
21	Computing cell-based decompositions dynamically for planning motions of tethered robots. , 2014, , .		10
22	From selfish auctioning to incentivized marketing. Autonomous Robots, 2014, 37, 417-430.	4.8	2
23	Distributed robotic sampling of non-homogeneous spatio-temporal fields via recursive geometric sub-division. , 2014, , .		5
24	A distributed approach to load balance for multi-robot task allocation. , 2014, , .		0
25	Unifying microscopic flocking motion models for virtual, robotic, and biological flock members. Autonomous Robots, 2013, 35, 195-219.	4.8	31
26	An anytime assignment algorithm: From local task swapping to global optimality. Autonomous Robots, 2013, 35, 271-286.	4.8	17
27	Automatic reduction of combinatorial filters. , 2013, , .		8
28	Improving the performance of self-organized robotic clustering: Modeling and planning sequential changes to the division of labor. , 2013, , .		0
29	Finding concise plans: Hardness and algorithms. , 2013, , .		1
30	Tackling task allocation uncertainty via a combinatorial method. , 2012, , .		4
31	Extensive analysis of Linear Complementarity Problem (LCP) solver performance on randomly generated rigid body contact problems. , 2012, , .		10
32	Tunable routing solutions for multi-robot navigation via the assignment problem: A 3D representation of the matching graph. , 2012, , .		5
33	Large-scale multi-robot task allocation via dynamic partitioning and distribution. Autonomous Robots, 2012, 33, 291-307.	4.8	62
34	Toward autonomous robotic containment booms: visual servoing for robust inter-vehicle docking of surface vehicles. Intelligent Service Robotics, 2012, 5, 1-18.	2.6	23
35	A Midsummer Nightâ€™s Dream (with flying robots). Autonomous Robots, 2011, 30, 143-156.	4.8	23
36	An evaluation of methods for modeling contact in multibody simulation. , 2011, , .		16

#	ARTICLE	IF	CITATIONS
37	Approximate characterization of multi-robot swarm shapes in sublinear-time. , 2011, , .		1
38	Flocking: Don't need no stinkin' robot recognition. , 2011, , .		3
39	Flight control for target seeking by 13 gram ornithopter. , 2011, , .		2
40	A Midsummer Night's Dream: Social proof in HRI. , 2010, , .		4
41	A Distributable and Computation-flexible Assignment Algorithm: From Local Task Swapping to Global Optimality. , 0, , .		9
42	Fully Decentralized Task Swaps with Optimized Local Searching. , 0, , .		3
43	Planning to chronicle: Optimal policies for narrative observation of unpredictable events. International Journal of Robotics Research, 0, , 027836492110691.	8.5	1
44	Reactivity and statefulness: Action-based sensors, plans, and necessary state. International Journal of Robotics Research, 0, , 027836492210788.	8.5	1