

Jingjin Yu

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9580417/publications.pdf>

Version: 2024-02-01

62
papers

1,294
citations

623734

14
h-index

526287

27
g-index

62
all docs

62
docs citations

62
times ranked

750
citing authors

#	ARTICLE	IF	CITATIONS
1	Optimal Multirobot Path Planning on Graphs: Complete Algorithms and Effective Heuristics. IEEE Transactions on Robotics, 2016, 32, 1163-1177.	10.3	197
2	Planning optimal paths for multiple robots on graphs. , 2013, , .		102
3	Multi-agent Path Planning and Network Flow. Springer Tracts in Advanced Robotics, 2013, , 157-173.	0.4	85
4	Rendezvous Without Coordinates. IEEE Transactions on Automatic Control, 2012, 57, 421-434.	5.7	72
5	Correlated Orienteering Problem and its Application to Persistent Monitoring Tasks. IEEE Transactions on Robotics, 2016, 32, 1106-1118.	10.3	64
6	Intractability of Optimal Multirobot Path Planning on Planar Graphs. IEEE Robotics and Automation Letters, 2016, 1, 33-40.	5.1	54
7	Correlated Orienteering Problem and its application to informative path planning for persistent monitoring tasks. , 2014, , .		48
8	Persistent Monitoring of Events With Stochastic Arrivals at Multiple Stations. IEEE Transactions on Robotics, 2015, 31, 521-535.	10.3	47
9	DDM: Fast Near-Optimal Multi-Robot Path Planning Using Diversified-Path and Optimal Sub-Problem Solution Database Heuristics. IEEE Robotics and Automation Letters, 2020, 5, 1350-1357.	5.1	42
10	Motion Planning for Unlabeled Discs with Optimality Guarantees. , 0, , .		41
11	Complexity Results and Fast Methods for Optimal Tabletop Rearrangement with Overhand Grasps. International Journal of Robotics Research, 2018, 37, 1775-1795.	8.5	38
12	Target Assignment in Robotic Networks: Distance Optimality Guarantees and Hierarchical Strategies. IEEE Transactions on Automatic Control, 2015, 60, 327-341.	5.7	37
13	Toward Fast and Optimal Robotic Pick-and-Place on a Moving Conveyor. IEEE Robotics and Automation Letters, 2020, 5, 446-453.	5.1	32
14	DIPN: Deep Interaction Prediction Network with Application to Clutter Removal. , 2021, , .		31
15	Towards Robust Product Packing with a Minimalistic End-Effector. , 2019, , .		26
16	Distance optimal formation control on graphs with a tight convergence time guarantee. , 2012, , .		25
17	Pebble Motion on Graphs with Rotations: Efficient Feasibility Tests and Planning Algorithms. Springer Tracts in Advanced Robotics, 2015, , 729-746.	0.4	25
18	Shadow Information Spaces: Combinatorial Filters for Tracking Targets. IEEE Transactions on Robotics, 2012, 28, 440-456.	10.3	24

#	ARTICLE	IF	CITATIONS
19	Visual Foresight Trees for Object Retrieval From Clutter With Nonprehensile Rearrangement. IEEE Robotics and Automation Letters, 2022, 7, 231-238.	5.1	22
20	An Effective Algorithmic Framework for Near Optimal Multi-robot Path Planning. Springer Proceedings in Advanced Robotics, 2018, , 495-511.	1.3	20
21	Anytime planning of optimal schedules for a mobile sensing robot. , 2015, , .		18
22	A portable, 3D-printing enabled multi-vehicle platform for robotics research and education. , 2017, , .		18
23	Uniform Object Rearrangement: From Complete Monotone Primitives to Efficient Non-Monotone Informed Search. , 2021, , .		17
24	Constant Factor Time Optimal Multi-Robot Routing on High-Dimensional Grids. , 0, , .		15
25	Effective Heuristics for Multi-Robot Path Planning in Warehouse Environments. , 2019, , .		14
26	Efficient, High-Quality Stack Rearrangement. IEEE Robotics and Automation Letters, 2018, 3, 1608-1615.	5.1	13
27	Story validation and approximate path inference with a sparse network of heterogeneous sensors. , 2011, , .		12
28	Fast, High-Quality Two-Arm Rearrangement in Synchronous, Monotone Tabletop Setups. IEEE Transactions on Automation Science and Engineering, 2021, 18, 888-901.	5.2	11
29	High-Quality Tabletop Rearrangement with Overhand Grasps: Hardness Results and Fast Methods. , 0, , .		11
30	Average case constant factor time and distance optimal multi-robot path planning in well-connected environments. Autonomous Robots, 2020, 44, 469-483.	4.8	10
31	SEAR: A Polynomial- Time Multi-Robot Path Planning Algorithm with Expected Constant-Factor Optimality Guarantee. , 2018, , .		9
32	Cyber Detectives: Determining When Robots or People Misbehave. Springer Tracts in Advanced Robotics, 2010, , 391-407.	0.4	9
33	Efficient formation path planning on large graphs. , 2013, , .		8
34	Fast High-Quality Tabletop Rearrangement in Bounded Workspace. , 2022, , .		8
35	Interleaving Monte Carlo Tree Search and Self-Supervised Learning for Object Retrieval in Clutter. , 2022, , .		8
36	Tracking hidden agents through shadow information spaces. , 2008, , .		7

#	ARTICLE	IF	CITATIONS
37	Persistent monitoring of events with stochastic arrivals at multiple stations. , 2014, , .		7
38	Integer Programming as a General Solution Methodology for Path-Based Optimization in Robotics: Principles, Best Practices, and Applications. , 2019, , .		7
39	Spatial and Temporal Splitting Heuristics for Multi-Robot Motion Planning. , 2021, , .		7
40	Persistent Homology for Effective Non-Prehensile Manipulation. , 2022, , .		6
41	On Rearrangement of Items Stored in Stacks. Springer Proceedings in Advanced Robotics, 2021, , 518-533.	1.3	5
42	Expected constant-factor optimal multi-robot path planning in well-connected environments. , 2017, , .		4
43	Fast, High-Quality Dual-Arm Rearrangement in Synchronous, Monotone Tabletop Setups. Springer Proceedings in Advanced Robotics, 2020, , 778-795.	1.3	4
44	Probabilistic shadow information spaces. , 2010, , .		3
45	Counting Moving Bodies Using Sparse Sensor Beams. IEEE Transactions on Automation Science and Engineering, 2013, 10, 853-861.	5.2	3
46	Shortest path set induced vertex ordering and its application to distributed distance optimal formation path planning and control on graphs. , 2013, , .		3
47	Capacitated Vehicle Routing with Target Geometric Constraints. , 2021, , .		3
48	PICOSECOND OPTICAL LIMITING PERFORMANCE OF A NOVEL PPV-ZnPc CONJUGATED POLYMER. Journal of Nonlinear Optical Physics and Materials, 2000, 09, 289-296.	1.8	2
49	Distance optimal target assignment in robotic networks under communication and sensing constraints. , 2014, , .		2
50	Optimal Perimeter Guarding With Heterogeneous Robot Teams: Complexity Analysis and Effective Algorithms. IEEE Robotics and Automation Letters, 2020, 5, 430-437.	5.1	2
51	Team RuBotâ€™s experiences and lessons from the ARIAC. Robotics and Computer-Integrated Manufacturing, 2021, 70, 102126.	9.9	2
52	Coordinating the Motion of Labeled Discs with Optimality Guarantees under Extreme Density. Springer Proceedings in Advanced Robotics, 2020, , 817-834.	1.3	2
53	Sensor Placement for Globally Optimal Coverage of 3D-Embedded Surfaces. , 2021, , .		2
54	Counting Moving Bodies Using Sparse Sensor Beams. Springer Tracts in Advanced Robotics, 2013, , 427-442.	0.4	2

#	ARTICLE	IF	CITATIONS
55	Computing High-Quality Clutter Removal Solutions for Multiple Robots. , 2020, , .		2
56	Rubik Tables and object rearrangement. International Journal of Robotics Research, 2023, 42, 459-472.	8.5	2
57	Stackelberg Strategic Guidance for Heterogeneous Robots Collaboration. , 2022, , .		2
58	Traveled distance minimization and hierarchical strategies for robotic networks. , 2014, , .		1
59	Optimizing Space Utilization for More Effective Multi-Robot Path Planning. , 2022, , .		1
60	Rendezvous without coordinates. , 2008, , .		0
61	Taming Combinatorial Challenges in Clutter Removal. Springer Proceedings in Advanced Robotics, 2022, , 291-310.	1.3	0
62	Barrier Forming: Separating Polygonal Sets with Minimum Number of Lines. , 2022, , .		0