

Jingjin Yu

List of Publications by Year in descending order

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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	Rubik Tables and object rearrangement. International Journal of Robotics Research, 2023, 42, 459-472.	8.5	2
2	Visual Foresight Trees for Object Retrieval From Clutter With Nonprehensile Rearrangement. IEEE Robotics and Automation Letters, 2022, 7, 231-238.	5.1	22
3	Taming Combinatorial Challenges in Clutter Removal. Springer Proceedings in Advanced Robotics, 2022, , 291-310.	1.3	0
4	Fast High-Quality Tabletop Rearrangement in Bounded Workspace. , 2022, , .		8
5	Stackelberg Strategic Guidance for Heterogeneous Robots Collaboration. , 2022, , .		2
6	Optimizing Space Utilization for More Effective Multi-Robot Path Planning. , 2022, , .		1
7	Barrier Forming: Separating Polygonal Sets with Minimum Number of Lines. , 2022, , .		0
8	Interleaving Monte Carlo Tree Search and Self-Supervised Learning for Object Retrieval in Clutter. , 2022, , .		8
9	Persistent Homology for Effective Non-Prehensile Manipulation. , 2022, , .		6
10	On Rearrangement of Items Stored in Stacks. Springer Proceedings in Advanced Robotics, 2021, , 518-533.	1.3	5
11	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
12	Team RuBot's experiences and lessons from the ARIAC. Robotics and Computer-Integrated Manufacturing, 2021, 70, 102126.	9.9	2
13	DIPN: Deep Interaction Prediction Network with Application to Clutter Removal. , 2021, , .		31
14	Uniform Object Rearrangement: From Complete Monotone Primitives to Efficient Non-Monotone Informed Search. , 2021, , .		17
15	Sensor Placement for Globally Optimal Coverage of 3D-Embedded Surfaces. , 2021, , .		2
16	Spatial and Temporal Splitting Heuristics for Multi-Robot Motion Planning. , 2021, , .		7
17	Capacitated Vehicle Routing with Target Geometric Constraints. , 2021, , .		3
18	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

#	ARTICLE	IF	CITATIONS
19	Toward Fast and Optimal Robotic Pick-and-Place on a Moving Conveyor. IEEE Robotics and Automation Letters, 2020, 5, 446-453.	5.1	32
20	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
21	Optimal Perimeter Guarding With Heterogeneous Robot Teams: Complexity Analysis and Effective Algorithms. IEEE Robotics and Automation Letters, 2020, 5, 430-437.	5.1	2
22	Fast, High-Quality Dual-Arm Rearrangement in Synchronous, Monotone Tabletop Setups. Springer Proceedings in Advanced Robotics, 2020, , 778-795.	1.3	4
23	Coordinating the Motion of Labeled Discs with Optimality Guarantees under Extreme Density. Springer Proceedings in Advanced Robotics, 2020, , 817-834.	1.3	2
24	Computing High-Quality Clutter Removal Solutions for Multiple Robots. , 2020, , .		2
25	Towards Robust Product Packing with a Minimalistic End-Effector. , 2019, , .		26
26	Integer Programming as a General Solution Methodology for Path-Based Optimization in Robotics: Principles, Best Practices, and Applications. , 2019, , .		7
27	Effective Heuristics for Multi-Robot Path Planning in Warehouse Environments. , 2019, , .		14
28	Efficient, High-Quality Stack Rearrangement. IEEE Robotics and Automation Letters, 2018, 3, 1608-1615.	5.1	13
29	An Effective Algorithmic Framework for Near Optimal Multi-robot Path Planning. Springer Proceedings in Advanced Robotics, 2018, , 495-511.	1.3	20
30	SEAR: A Polynomial-Time Multi-Robot Path Planning Algorithm with Expected Constant-Factor Optimality Guarantee. , 2018, , .		9
31	Complexity Results and Fast Methods for Optimal Tabletop Rearrangement with Overhand Grasps. International Journal of Robotics Research, 2018, 37, 1775-1795.	8.5	38
32	A portable, 3D-printing enabled multi-vehicle platform for robotics research and education. , 2017, , .		18
33	Expected constant-factor optimal multi-robot path planning in well-connected environments. , 2017, , .		4
34	Correlated Orienteering Problem and its Application to Persistent Monitoring Tasks. IEEE Transactions on Robotics, 2016, 32, 1106-1118.	10.3	64
35	Optimal Multirobot Path Planning on Graphs: Complete Algorithms and Effective Heuristics. IEEE Transactions on Robotics, 2016, 32, 1163-1177.	10.3	197
36	Intractability of Optimal Multirobot Path Planning on Planar Graphs. IEEE Robotics and Automation Letters, 2016, 1, 33-40.	5.1	54

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37	Anytime planning of optimal schedules for a mobile sensing robot. , 2015, , .		18
38	Target Assignment in Robotic Networks: Distance Optimality Guarantees and Hierarchical Strategies. IEEE Transactions on Automatic Control, 2015, 60, 327-341.	5.7	37
39	Persistent Monitoring of Events With Stochastic Arrivals at Multiple Stations. IEEE Transactions on Robotics, 2015, 31, 521-535.	10.3	47
40	Pebble Motion on Graphs with Rotations: Efficient Feasibility Tests and Planning Algorithms. Springer Tracts in Advanced Robotics, 2015, , 729-746.	0.4	25
41	Correlated Orienteering Problem and its application to informative path planning for persistent monitoring tasks. , 2014, , .		48
42	Persistent monitoring of events with stochastic arrivals at multiple stations. , 2014, , .		7
43	Traveled distance minimization and hierarchical strategies for robotic networks. , 2014, , .		1
44	Distance optimal target assignment in robotic networks under communication and sensing constraints. , 2014, , .		2
45	Counting Moving Bodies Using Sparse Sensor Beams. IEEE Transactions on Automation Science and Engineering, 2013, 10, 853-861.	5.2	3
46	Multi-agent Path Planning and Network Flow. Springer Tracts in Advanced Robotics, 2013, , 157-173.	0.4	85
47	Shortest path set induced vertex ordering and its application to distributed distance optimal formation path planning and control on graphs. , 2013, , .		3
48	Efficient formation path planning on large graphs. , 2013, , .		8
49	Planning optimal paths for multiple robots on graphs. , 2013, , .		102
50	Counting Moving Bodies Using Sparse Sensor Beams. Springer Tracts in Advanced Robotics, 2013, , 427-442.	0.4	2
51	Distance optimal formation control on graphs with a tight convergence time guarantee. , 2012, , .		25
52	Shadow Information Spaces: Combinatorial Filters for Tracking Targets. IEEE Transactions on Robotics, 2012, 28, 440-456.	10.3	24
53	Rendezvous Without Coordinates. IEEE Transactions on Automatic Control, 2012, 57, 421-434.	5.7	72
54	Story validation and approximate path inference with a sparse network of heterogeneous sensors. , 2011, , .		12

#	ARTICLE	IF	CITATIONS
55	Probabilistic shadow information spaces. , 2010, , .		3
56	Cyber Detectives: Determining When Robots or People Misbehave. Springer Tracts in Advanced Robotics, 2010, , 391-407.	0.4	9
57	Rendezvous without coordinates. , 2008, , .		0
58	Tracking hidden agents through shadow information spaces. , 2008, , .		7
59	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
60	Motion Planning for Unlabeled Discs with Optimality Guarantees. , 0, , .		41
61	High-Quality Tabletop Rearrangement with Overhand Grasps: Hardness Results and Fast Methods. , 0, , .		11
62	Constant Factor Time Optimal Multi-Robot Routing on High-Dimensional Grids. , 0, , .		15