

Mike Stilman

List of Publications by Year in descending order

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Version: 2024-02-01

41
papers

1,362
citations

1478280

6
h-index

1719901

7
g-index

41
all docs

41
docs citations

41
times ranked

994
citing authors

#	ARTICLE	IF	CITATIONS
1	Learning non-holonomic object models for mobile manipulation. , 2015, , .		7
2	Exploiting symmetries and extrusions for grasping household objects. , 2015, , .		26
3	Autonomous design of functional structures. Advanced Robotics, 2015, 29, 625-638.	1.1	1
4	Locally optimal navigation among movable obstacles in unknown environments. , 2014, , .		11
5	Handover planning for every occasion. , 2014, , .		9
6	Online multi-camera registration for bimanual workspace trajectories. , 2014, , .		7
7	Probabilistically complete kinodynamic planning for robot manipulators with acceleration limits. , 2014, , .		24
8	Using environment objects as tools: Unconventional door opening. , 2014, , .		11
9	Spherical parabolic blends for robot workspace trajectories. , 2014, , .		8
10	Autonomous environment manipulation to assist humanoid locomotion. , 2014, , .		14
11	Robots using environment objects as tools the ‘MacGyver’ paradigm for mobile manipulation. , 2014, , .		11
12	Planning in constraint space: Automated design of functional structures. , 2013, , .		7
13	The Motion Grammar: Analysis of a Linguistic Method for Robot Control. IEEE Transactions on Robotics, 2013, 29, 704-718.	7.3	43
14	Planning with movable obstacles in continuous environments with uncertain dynamics. , 2013, , .		12
15	Path planning with uncertainty: Voronoi Uncertainty Fields. , 2013, , .		32
16	The Motion Grammar calculus for Context-Free Hybrid systems. , 2012, , .		3
17	Manipulation planning with soft task constraints. , 2012, , .		12
18	Linguistic transfer of human assembly tasks to robots. , 2012, , .		22

#	ARTICLE	IF	CITATIONS
19	Whole-body trajectory optimization for humanoid falling. , 2012, , .		14
20	Robust and efficient communication for real-time multi-process robot software. , 2012, , .		25
21	Dynamic chess: Strategic planning for robot motion. , 2011, , .		4
22	Push planning for object placement on cluttered table surfaces. , 2011, , .		72
23	Sampling heuristics for optimal motion planning in high dimensions. , 2011, , .		109
24	The Motion Grammar for physical human-robot games. , 2011, , .		12
25	Proxy method for fast haptic rendering from time varying point clouds. , 2011, , .		0
26	Dynamic pushing strategies for dynamically stable mobile manipulators. , 2010, , .		13
27	Navigation Among Movable Obstacles in unknown environments. , 2010, , .		8
28	Golem Krang: Dynamically stable humanoid robot for mobile manipulation. , 2010, , .		65
29	Robot limbo: Optimized planning and control for dynamically stable robots under vertical obstacles. , 2010, , .		20
30	Stable stacking for the distributor's pallet packing problem. , 2010, , .		10
31	Global Manipulation Planning in Robot Joint Space With Task Constraints. IEEE Transactions on Robotics, 2010, 26, 576-584.	7.3	162
32	Real-time path planning for a robot arm in changing environments. , 2010, , .		38
33	Robot Jenga: Autonomous and strategic block extraction. , 2009, , .		11
34	Optimized control strategies for wheeled humanoids and mobile manipulators. , 2009, , .		21
35	Planning Among Movable Obstacles with Artificial Constraints. International Journal of Robotics Research, 2008, 27, 1295-1307.	5.8	74
36	Planning and executing navigation among movable obstacles. Advanced Robotics, 2007, 21, 1617-1634.	1.1	33

#	ARTICLE	IF	CITATIONS
37	Manipulation Planning Among Movable Obstacles. Proceedings - IEEE International Conference on Robotics and Automation, 2007, , .	0.0	131
38	Task constrained motion planning in robot joint space. , 2007, , .		132
39	Learning object models for whole body manipulation. , 2007, , .		16
40	Planning and Executing Navigation Among Movable Obstacles. , 2006, , .		50
41	NAVIGATION AMONG MOVABLE OBSTACLES: REAL-TIME REASONING IN COMPLEX ENVIRONMENTS. International Journal of Humanoid Robotics, 2005, 02, 479-503.	0.6	82