

Mike Stilman

List of Publications by Year in descending order

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41
papers

1,362
citations

1478280

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h-index

1719901

7
g-index

41
all docs

41
docs citations

41
times ranked

994
citing authors

#	ARTICLE	IF	CITATIONS
1	Global Manipulation Planning in Robot Joint Space With Task Constraints. IEEE Transactions on Robotics, 2010, 26, 576-584.	7.3	162
2	Task constrained motion planning in robot joint space. , 2007, , .		132
3	Manipulation Planning Among Movable Obstacles. Proceedings - IEEE International Conference on Robotics and Automation, 2007, , .	0.0	131
4	Sampling heuristics for optimal motion planning in high dimensions. , 2011, , .		109
5	NAVIGATION AMONG MOVABLE OBSTACLES: REAL-TIME REASONING IN COMPLEX ENVIRONMENTS. International Journal of Humanoid Robotics, 2005, 02, 479-503.	0.6	82
6	Planning Among Movable Obstacles with Artificial Constraints. International Journal of Robotics Research, 2008, 27, 1295-1307.	5.8	74
7	Push planning for object placement on cluttered table surfaces. , 2011, , .		72
8	Golem Krang: Dynamically stable humanoid robot for mobile manipulation. , 2010, , .		65
9	Planning and Executing Navigation Among Movable Obstacles. , 2006, , .		50
10	The Motion Grammar: Analysis of a Linguistic Method for Robot Control. IEEE Transactions on Robotics, 2013, 29, 704-718.	7.3	43
11	Real-time path planning for a robot arm in changing environments. , 2010, , .		38
12	Planning and executing navigation among movable obstacles. Advanced Robotics, 2007, 21, 1617-1634.	1.1	33
13	Path planning with uncertainty: Voronoi Uncertainty Fields. , 2013, , .		32
14	Exploiting symmetries and extrusions for grasping household objects. , 2015, , .		26
15	Robust and efficient communication for real-time multi-process robot software. , 2012, , .		25
16	Probabilistically complete kinodynamic planning for robot manipulators with acceleration limits. , 2014, , .		24
17	Linguistic transfer of human assembly tasks to robots. , 2012, , .		22
18	Optimized control strategies for wheeled humanoids and mobile manipulators. , 2009, , .		21

#	ARTICLE	IF	CITATIONS
19	Robot limbo: Optimized planning and control for dynamically stable robots under vertical obstacles. , 2010, , .		20
20	Learning object models for whole body manipulation. , 2007, , .		16
21	Whole-body trajectory optimization for humanoid falling. , 2012, , .		14
22	Autonomous environment manipulation to assist humanoid locomotion. , 2014, , .		14
23	Dynamic pushing strategies for dynamically stable mobile manipulators. , 2010, , .		13
24	The Motion Grammar for physical human-robot games. , 2011, , .		12
25	Manipulation planning with soft task constraints. , 2012, , .		12
26	Planning with movable obstacles in continuous environments with uncertain dynamics. , 2013, , .		12
27	Robot Jenga: Autonomous and strategic block extraction. , 2009, , .		11
28	Locally optimal navigation among movable obstacles in unknown environments. , 2014, , .		11
29	Using environment objects as tools: Unconventional door opening. , 2014, , .		11
30	Robots using environment objects as tools the ‘MacGyver’ paradigm for mobile manipulation. , 2014, , .		11
31	Stable stacking for the distributor's pallet packing problem. , 2010, , .		10
32	Handover planning for every occasion. , 2014, , .		9
33	Navigation Among Movable Obstacles in unknown environments. , 2010, , .		8
34	Spherical parabolic blends for robot workspace trajectories. , 2014, , .		8
35	Planning in constraint space: Automated design of functional structures. , 2013, , .		7
36	Online multi-camera registration for bimanual workspace trajectories. , 2014, , .		7

#	ARTICLE	IF	CITATIONS
37	Learning non-holonomic object models for mobile manipulation. , 2015, , .		7
38	Dynamic chess: Strategic planning for robot motion. , 2011, , .		4
39	The Motion Grammar calculus for Context-Free Hybrid systems. , 2012, , .		3
40	Autonomous design of functional structures. Advanced Robotics, 2015, 29, 625-638.	1.1	1
41	Proxy method for fast haptic rendering from time varying point clouds. , 2011, , .		0