

Carlos Mastalli

List of Publications by Year in descending order

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Version: 2024-02-01

17
papers

496
citations

1684188

5
h-index

1720034

7
g-index

17
all docs

17
docs citations

17
times ranked

351
citing authors

#	ARTICLE	IF	CITATIONS
1	Planning and execution of dynamic whole-body locomotion for a hydraulic quadruped on challenging terrain. , 2015, , .		83
2	Passive Whole-Body Control for Quadruped Robots: Experimental Validation Over Challenging Terrain. IEEE Robotics and Automation Letters, 2019, 4, 2553-2560.	5.1	79
3	Motion Planning for Quadrupedal Locomotion: Coupled Planning, Terrain Mapping, and Whole-Body Control. IEEE Transactions on Robotics, 2020, 36, 1635-1648.	10.3	66
4	Trajectory and foothold optimization using low-dimensional models for rough terrain locomotion. , 2017, , .		61
5	Differential Dynamic Programming for Multi-Phase Rigid Contact Dynamics. , 2018, , .		57
6	Application of Wrench-Based Feasibility Analysis to the Online Trajectory Optimization of Legged Robots. IEEE Robotics and Automation Letters, 2018, 3, 3363-3370.	5.1	31
7	Simultaneous Contact, Gait and Motion Planning for Robust Multi-Legged Locomotion via Mixed-Integer Convex Optimization. IEEE Robotics and Automation Letters, 2017, , 1-1.	5.1	27
8	On-line and on-board planning and perception for quadrupedal locomotion. , 2015, , .		26
9	Hierarchical planning of dynamic movements without scheduled contact sequences. , 2016, , .		26
10	Heuristic Planning for Rough Terrain Locomotion in Presence of External Disturbances and Variable Perception Quality. Springer Tracts in Advanced Robotics, 2020, , 165-209.	0.4	16
11	Bio-inspired holistic control through modular relative Jacobian for combined four-arm robots. , 2017, , .		7
12	Design, analysis and control of the series-parallel hybrid RH5 humanoid robot. , 2021, , .		7
13	Automatic Gait Pattern Selection for Legged Robots. , 2020, , .		5
14	A Proposed Architecture for Autonomous Operations in Backhoe Machines. Advances in Intelligent Systems and Computing, 2016, , 1549-1559.	0.6	2
15	Asymptotic Stability Method for PID Controller Tuning in a Backhoe Machine. , 2013, , .		1
16	Extracting points features from laser rangefinder data based on hough transform. , 2014, , .		1
17	Modular Relative Jacobian for Combined 3-Arm Parallel Manipulators. International Journal of Mechanical Engineering and Robotics Research, 2016, , .	1.0	1