Christian M Hubicki

List of Publications by Year
in descending order

15 papers	304 citations	2258059 3 h-index	2550090 3 g-index
15 all docs	15 docs citations	15 times ranked	264 citing authors

#	Article	IF	Citations
1	3D dynamic walking with underactuated humanoid robots: A direct collocation framework for optimizing hybrid zero dynamics. , 2016, , .		136
2	Dynamic Humanoid Locomotion: A Scalable Formulation for HZD Gait Optimization. IEEE Transactions on Robotics, 2018, 34, 370-387.	10.3	79
3	Tractable terrain-aware motion planning on granular media: An impulsive jumping study. , 2016, , .		26
4	Learning to jump in granular media: Unifying optimal control synthesis with Gaussian process-based regression. , 2017, , .		12
5	Efficient HZD gait generation for three-dimensional underactuated humanoid running. , 2016, , .		8
6	Every Hop is an Opportunity: Quickly Classifying and Adapting to Terrain During Targeted Hopping. , 2019, , .		8
7	RUNNING ON SOFT GROUND: SIMPLE, ENERGY-OPTIMAL DISTURBANCE REJECTION. , 2012, , 543-547.		8
8	Work those arms: Toward dynamic and stable humanoid walking that optimizes full-body motion. , 2016, , .		7
9	Learning Terrain Dynamics: A Gaussian Process Modeling and Optimal Control Adaptation Framework Applied to Robotic Jumping. IEEE Transactions on Control Systems Technology, 2021, 29, 1581-1596.	5.2	7
10	Do Intermediate Gaits Matter When Rapidly Accelerating?. IEEE Robotics and Automation Letters, 2019, 4, 3418-3424.	5.1	6
11	Fast, Versatile, and Open-loop Stable Running Behaviors with Proprioceptive-only Sensing using Model-based Optimization. , 2020, , .		5
12	Bipedial Locomotion Up Sandy Slopes: Systematic Experiments Using Zero Moment Point Methods. , 2018, , .		1
13	Locomotion as a Risk-mitigating Behavior in Uncertain Environments: A Rapid Planning and Few-shot Failure Adaptation Approach. , 2022, , .		1
14	Lessons Learned from two iterations of LLAMA, an Electrically Powered, Dynamic Quadruped Robot. , 2022, 2, 325-355.		0
15	Trajectory Optimization Formulation with Smooth Analytical Derivatives for Track-leg and Wheel-leg Ground Robots. , 2022, , .		0