

Michael Posa

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9605317/publications.pdf>

Version: 2024-02-01

15
papers

772
citations

1478505

6
h-index

1872680

6
g-index

15
all docs

15
docs citations

15
times ranked

600
citing authors

#	ARTICLE	IF	CITATIONS
1	A direct method for trajectory optimization of rigid bodies through contact. International Journal of Robotics Research, 2014, 33, 69-81.	8.5	393
2	Optimization and stabilization of trajectories for constrained dynamical systems. , 2016, , .		102
3	An Architecture for Online Affordance-based Perception and Whole-body Planning. Journal of Field Robotics, 2015, 32, 229-254.	6.0	101
4	Balance control using center of mass height variation: Limitations imposed by unilateral contact. , 2016, , .		50
5	Stability Analysis and Control of Rigid-Body Systems With Impacts and Friction. IEEE Transactions on Automatic Control, 2016, 61, 1423-1437.	5.7	41
6	Lyapunov analysis of rigid body systems with impacts and friction via sums-of-squares. , 2013, , .		18
7	Impact Invariant Control with Applications to Bipedal Locomotion. , 2021, , .		11
8	Validating Robotics Simulators on Real-World Impacts. IEEE Robotics and Automation Letters, 2022, 7, 6471-6478.	5.1	10
9	Modeling and Analysis of Non-Unique Behaviors in Multiple Frictional Impacts. , 0, , .		9
10	Real-Time Multi-Contact Model Predictive Control via ADMM. , 2022, , .		8
11	Stabilization of Complementarity Systems via Contact-Aware Controllers. IEEE Transactions on Robotics, 2022, 38, 1735-1754.	10.3	7
12	Contact-Aware Controller Design for Complementarity Systems. , 2020, , .		6
13	A Quasi-static Model and Simulation Approach for Pushing, Grasping, and Jamming. Springer Proceedings in Advanced Robotics, 2020, , 491-507.	1.3	6
14	Fundamental Challenges in Deep Learning for Stiff Contact Dynamics. , 2021, , .		6
15	Stability analysis of complementarity systems with neural network controllers. , 2021, , .		4