

Chengxu Zhou

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Development of a Teleoperative Quadrupedal Manipulator. , 2021, , .		5
2	Human inspired fall arrest strategy for humanoid robots based on stiffness ellipsoid optimisation. Bioinspiration and Biomimetics, 2021, 16, 056014.	2.9	2
3	Nonlinear model predictive control for robust bipedal locomotion: exploring angular momentum and CoM height changes. Advanced Robotics, 2021, 35, 1079-1097.	1.8	6
4	Improving Quadrupedal Locomotion on Granular Material Using Genetic Algorithm. , 2020, , .		1
5	Versatile Reactive Bipedal Locomotion Planning Through Hierarchical Optimization. , 2019, , .		8
6	Design a Fall Recovery Strategy for a Wheel-Legged Quadruped Robot Using Stability Feature Space. , 2019, , .		8
7	Normalized Neural Network for Energy Efficient Bipedal Walking Using Nonlinear Inverted Pendulum Model. , 2019, , .		4
8	A2ML: A general human-inspired motion language for anthropomorphic arms based on movement primitives. Robotics and Autonomous Systems, 2019, 111, 145-161.	5.1	10
9	New Cross-Step Enabled Configurations for Humanoid Robot. , 2018, , .		1
10	Energy-Efficient Bipedal Gait Pattern Generation via CoM Acceleration Optimization. , 2018, , .		7
11	HERI II: A Robust and Flexible Robotic Hand based on Modular Finger design and Under Actuation Principles. , 2018, , .		16
12	From Non-Reactive to Reactive Walking in Humanoid Robots. , 2018, , .		1
13	A Study on Low-Drift State Estimation for Humanoid Locomotion, Using LiDAR and Kinematic-Inertial Data Fusion. , 2018, , .		4
14	Neural-Network-Controlled Spring Mass Template for Humanoid Running. , 2018, , .		6
15	Ctrl-MORE: A Framework to Integrate Controllers of Multi-DoF Robot for Developers and Users. , 2018, , .		0
16	Footstep Planning in Rough Terrain for Bipedal Robots Using Curved Contact Patches. , 2018, , .		19
17	On the Comprehensive Kinematics Analysis of a Humanoid Parallel Ankle Mechanism. Journal of Mechanisms and Robotics, 2018, 10, .	2.2	11
18	Humanoid Balancing Behavior Featured by Underactuated Foot Motion. IEEE Transactions on Robotics, 2017, 33, 298-312.	10.3	19

#	ARTICLE	IF	CITATIONS
19	Overview of Gait Synthesis for the Humanoid COMAN. Journal of Bionic Engineering, 2017, 14, 15-25.	5.0	38
20	A study of nonlinear forward models for dynamic walking. , 2017, , .		2
21	RRT-based motion planning with sampling in Redundancy space for robots with anthropomorphic arms. , 2017, , .		2
22	Humanoid running based on centroidal dynamics and heuristic foot placement. , 2017, , .		2
23	HERI hand: A quasi dexterous and powerful hand with asymmetrical finger dimensions and under actuation. , 2017, , .		15
24	A torque-controlled humanoid robot riding on a two-wheeled mobile platform. , 2017, , .		6
25	MPC strategy for dynamic stabilization of preplanned walking gaits. , 2017, , .		3
26	Vision-based foothold contact reasoning using curved surface patches. , 2017, , .		18
27	Straight leg walking strategy for torque-controlled humanoid robots. , 2016, , .		9
28	A generic optimization-based framework for reactive collision avoidance in bipedal locomotion. , 2016, , .		13
29	Neural Network Based On-Line Stabilization for Humanoid Robots. , 2016, , .		1
30	Robust Model Predictive Control for humanoids standing balancing. , 2016, , .		12
31	Dynamic and Reactive Walking for Humanoid Robots Based on Foot Placement Control. International Journal of Humanoid Robotics, 2016, 13, 1550041.	1.1	43
32	Compliance control for stabilizing the humanoid on the changing slope based on terrain inclination estimation. Autonomous Robots, 2016, 40, 955-971.	4.8	19
33	Stabilization of bipedal walking based on compliance control. Autonomous Robots, 2016, 40, 1041-1057.	4.8	34
34	A new foot sole design for humanoids robots based on viscous air damping mechanism. , 2015, , .		2
35	Active control of under-actuated foot tilting for humanoid push recovery. , 2015, , .		5
36	Exploiting the redundancy for humanoid robots to dynamically step over a large obstacle. , 2015, , .		9

#	ARTICLE	IF	CITATIONS
37	Fall Prediction of legged robots based on energy state and its implication of balance augmentation: A study on the humanoid. , 2015, , .		16
38	Comparison study of two inverted pendulum models for balance recovery. , 2014, , .		8
39	A passivity based compliance stabilizer for humanoid robots. , 2014, , .		13
40	Implementation of Robust EPSAC on dynamic walking of COMAN Humanoid. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 8384-8390.	0.4	3
41	Damage localization in plate-like structure using built-in PZT sensor network. Smart Structures and Systems, 2012, 9, 21-33.	1.9	16