

# Zhibin Li

## List of Publications by Year in descending order

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Version: 2024-02-01

50  
papers

887  
citations

516710

16  
h-index

642732

23  
g-index

50  
all docs

50  
docs citations

50  
times ranked

665  
citing authors

#	ARTICLE	IF	CITATIONS
1	Multi-expert learning of adaptive legged locomotion. Science Robotics, 2020, 5, .	17.6	104
2	Intensity Weighted Subtraction Microscopy Approach for Image Contrast and Resolution Enhancement. Scientific Reports, 2016, 6, 25816.	3.3	47
3	A passivity based admittance control for stabilizing the compliant humanoid COMAN. , 2012, , .		45
4	Study of Multimodal Interfaces and the Improvements on Teleoperation. IEEE Access, 2020, 8, 78213-78227.	4.2	45
5	Dynamic and Reactive Walking for Humanoid Robots Based on Foot Placement Control. International Journal of Humanoid Robotics, 2016, 13, 1550041.	1.1	43
6	Development and Control of a Compliant Asymmetric Antagonistic Actuator for Energy Efficient Mobility. IEEE/ASME Transactions on Mechatronics, 2016, 21, 1080-1091.	5.8	43
7	Overview of Gait Synthesis for the Humanoid COMAN. Journal of Bionic Engineering, 2017, 14, 15-25.	5.0	38
8	Development of a dynamic simulator for a compliant humanoid robot based on a symbolic multibody approach. , 2013, , .		34
9	Stabilization of bipedal walking based on compliance control. Autonomous Robots, 2016, 40, 1041-1057.	4.8	34
10	Learning Natural Locomotion Behaviors for Humanoid Robots Using Human Bias. IEEE Robotics and Automation Letters, 2020, 5, 2610-2617.	5.1	31
11	Walking pattern generation for a humanoid robot with compliant joints. Autonomous Robots, 2013, 35, 1-14.	4.8	30
12	Stabilization for the compliant humanoid robot COMAN exploiting intrinsic and controlled compliance. , 2012, , .		27
13	Force-Guided High-Precision Grasping Control of Fragile and Deformable Objects Using sEMG-Based Force Prediction. IEEE Robotics and Automation Letters, 2020, 5, 2762-2769.	5.1	25
14	Bayesian Optimization for Whole-Body Control of High-Degree-of-Freedom Robots Through Reduction of Dimensionality. IEEE Robotics and Automation Letters, 2019, 4, 2268-2275.	5.1	24
15	Design Optimisation and Control of Compliant Actuation Arrangements in Articulated Robots for Improved Energy Efficiency. IEEE Robotics and Automation Letters, 2016, 1, 1110-1117.	5.1	23
16	Compliance control for stabilizing the humanoid on the changing slope based on terrain inclination estimation. Autonomous Robots, 2016, 40, 955-971.	4.8	19
17	Humanoid Balancing Behavior Featured by Underactuated Foot Motion. IEEE Transactions on Robotics, 2017, 33, 298-312.	10.3	19
18	Contact-Implicit Trajectory Optimization Using an Analytically Solvable Contact Model for Locomotion on Variable Ground. IEEE Robotics and Automation Letters, 2020, 5, 6357-6364.	5.1	19

#	ARTICLE	IF	CITATIONS
19	Learning Whole-Body Motor Skills for Humanoids. , 2018, , .		17
20	Trajectory Optimization of Contact-Rich Motions Using Implicit Differential Dynamic Programming. IEEE Robotics and Automation Letters, 2021, 6, 2626-2633.	5.1	16
21	The Challenges in Modeling Human Performance in 3D Space with Fitts's Law. , 2021, , .		15
22	Optimisation of Body-ground Contact for Augmenting the Whole-Body Loco-manipulation of Quadruped Robots. , 2020, , .		15
23	Trajectory generation of straightened knee walking for humanoid robot iCub. , 2010, , .		13
24	A passivity based compliance stabilizer for humanoid robots. , 2014, , .		13
25	A generic optimization-based framework for reactive collision avoidance in bipedal locomotion. , 2016, , .		13
26	Emergence of human-comparable balancing behaviours by deep reinforcement learning. , 2017, , .		12
27	On Global Optimization of Walking Gaits for the Compliant Humanoid Robot, COMAN Using Reinforcement Learning. Cybernetics and Information Technologies, 2012, 12, 39-52.	1.1	10
28	Learning Pregrasp Manipulation of Objects from Ungraspable Poses. , 2020, , .		10
29	Exploiting the redundancy for humanoid robots to dynamically step over a large obstacle. , 2015, , .		9
30	Human hand movement recognition using infinite hidden Markov model based sEMG classification. Biomedical Signal Processing and Control, 2021, 68, 102592.	5.7	9
31	Walking trajectory generation for humanoid robots with compliant joints: Experimentation with COMAN humanoid. , 2012, , .		8
32	Optimal ankle compliance regulation for humanoid balancing control. , 2013, , .		8
33	Comparison study of two inverted pendulum models for balance recovery. , 2014, , .		8
34	Stabilizing humanoids on slopes using terrain inclination estimation. , 2013, , .		7
35	An Improved Formulation for Model Predictive Control of Legged Robots for Gait Planning and Feedback Control. , 2018, , .		7
36	Decoding Motor Skills of Artificial Intelligence and Human Policies: A Study on Humanoid and Human Balance Control. IEEE Robotics and Automation Magazine, 2020, 27, 87-101.	2.0	7

#	ARTICLE	IF	CITATIONS
37	Robust High-Transparency Haptic Exploration for Dexterous Telemanipulation. , 2021, , .		5
38	Internal model control for improving the gait tracking of a compliant humanoid robot. , 2012, , .		4
39	Unified Push Recovery Fundamentals: Inspiration from Human Study. , 2020, , .		4
40	Trajectory adaptation of biomimetic equilibrium point for stable locomotion of a large-size hexapod robot. Autonomous Robots, 2021, 45, 155-174.	4.8	4
41	FOOT PLACEMENT CONTROL FOR BIPEDAL WALKING ON UNEVEN TERRAIN: AN ONLINE LINEAR REGRESSION ANALYSIS APPROACH. , 2015, , .		4
42	Accessibility-Based Clustering for Efficient Learning of Locomotion Skills. , 2022, , .		4
43	Nonlinear Optimization Using Discrete Variational Mechanics for Dynamic Maneuvers of a 3D One-Leg Hopper. , 2018, , .		3
44	Metrics for 3D Object Pointing and Manipulation in Virtual Reality: The Introduction and Validation of a Novel Approach in Measuring Human Performance. IEEE Robotics and Automation Magazine, 2022, 29, 76-91.	2.0	3
45	Meta-Learning for Fast Adaptive Locomotion with Uncertainties in Environments and Robot Dynamics. , 2021, , .		3
46	Learning Adaptive Grasping From Human Demonstrations. IEEE/ASME Transactions on Mechatronics, 2022, 27, 3865-3873.	5.8	3
47	Learning Perceptual Locomotion on Uneven Terrains Using Sparse Visual Observations. IEEE Robotics and Automation Letters, 2022, 7, 8611-8618.	5.1	3
48	Powered walking based on the passive dynamic principles: A virtual slope walking approach. , 2014, , .		0
49	Reachability Map for Diverse and Energy Efficient Stepping of Humanoids. IEEE/ASME Transactions on Mechatronics, 2022, , 1-11.	5.8	0
50	Robust Impedance Control for Dexterous Interaction Using Fractal Impedance Controller with IK-Optimisation. , 2022, , .		0