Pengfei Wang

List of Publications by Year
in descending order

47	348	1162367	940134
papers	citations	8	16
		h-index	g-index

47	47	47	299
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Control of a Quadruped Robot with Bionic Springy Legs in Trotting Gait. Journal of Bionic Engineering, 2014, 11, 188-198.	2.7	82
2	Structure design of active power-assist lower limb exoskeleton APAL robot. Advances in Mechanical Engineering, 2017, 9, 168781401773579.	0.8	35
3	Bio-inspired controller for a robot cheetah with a neural mechanism controlling leg muscles. Journal of Bionic Engineering, 2012, 9, 282-293.	2.7	26
4	Design of a novel snake-like robotic colonoscope. , 2009, , .		18
5	A parallel actuated pantograph leg for high-speed locomotion. Journal of Bionic Engineering, 2017, 14, 202-217.	2.7	18
6	Approximate perturbation stance map of the slip runner and application to locomotion control. Journal of Bionic Engineering, 2012, 9, 411-422.	2.7	17
7	A Strong Tracking Mixed-Degree Cubature Kalman Filter Method and Its Application in a Quadruped Robot. Sensors, 2020, 20, 2251.	2.1	12
8	Running and turning control of a quadruped robot with compliant legs in bounding gait. , 2011, , .		11
9	Velocity Control of a Bounding Quadruped via Energy Control and Vestibular Reflexes. Journal of Bionic Engineering, 2014, 11, 556-571.	2.7	11
10	Passive Acoustic Source Localization at a Low Sampling Rate Based on a Five-Element Cross Microphone Array. Sensors, 2015, 15, 13326-13347.	2.1	10
11	A novel control strategy for quadruped robot walking over irregular terrain. , 2011, , .		9
12	Design and analysis of a whole-body controller for a velocity controlled robot mobile manipulator. Science China Information Sciences, 2020, 63, 1.	2.7	8
13	Bio-Inspired Equilibrium Point Control Scheme for Quadrupedal Locomotion. IEEE Transactions on Cognitive and Developmental Systems, 2019, 11, 200-209.	2.6	6
14	The Stability Analysis for Quadruped Bionic Robot. , 2006, , .		5
15	Design and development of a cheetah robot under the neural mechanism controlling the leg's muscles. , 2012, , .		5
16	Learning the Metric of Task Constraint Manifolds for Constrained Motion Planning. Electronics (Switzerland), 2018, 7, 395.	1.8	5
17	An analytic solution for the force distribution based on Cartesian compliance models. International Journal of Advanced Robotic Systems, 2019, 16, 172988141982747.	1.3	5
18	Local CPG Self Growing Network Model with Multiple Physical Properties. Applied Sciences (Switzerland), 2020, 10, 5497.	1.3	5

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19	Semantic 3D Reconstruction for Robotic Manipulators with an Eye-In-Hand Vision System. Applied Sciences (Switzerland), 2020, 10, 1183.	1.3	5
20	Creating Better Collision-Free Trajectory for Robot Motion Planning by Linearly Constrained Quadratic Programming. Frontiers in Neurorobotics, 2021, 15, 724116.	1.6	5
21	Design of a unidirectional joint with adjustable stiffness for energy efficient hopping leg. , 2013, , .		4
22	Model Predictive Control for Motion Planning of Quadrupedal Locomotion. , 2019, , .		4
23	A Unified Active Assistance Control Framework of Hip Exoskeleton for Walking and Balance Assistance. , 2019, , .		4
24	Attitude Trajectory Optimization to Ensure Balance Hexapod Locomotion. Sensors, 2020, 20, 6295.	2.1	4
25	Development of an antagonistic bionic joint controller for a musculoskeletal quadruped. , 2013, , .		3
26	A simple control algorithm for controlling biped dynamic walking with stopping ability based on the footed inverted pendulum model. Advances in Mechanical Engineering, 2016, 8, 168781401667028.	0.8	3
27	Indirect adaptive impedance control for dual-arm cooperative manipulation. , 2017, , .		3
28	Force Control Method for Pantograph Leg of Large-scale Heavy-duty Legged Robot. , 2018, , .		3
29	Spatial Topological Relation Analysis for Cluttered Scenes. Sensors, 2020, 20, 7181.	2.1	3
30	Mechanical design and force control algorithm for a robot leg with hydraulic series-elastic actuators. International Journal of Advanced Robotic Systems, 2020, 17, 172988142092101.	1.3	3
31	Behavior-based Control of a Hybrid Quadruped Robot. , 2006, , .		2
32	Study on turning in place of a spherical robot based on stick-slip principle. , 2009, , .		2
33	Stability analysis of quasi-periodic hopping of a passive one-legged robot with compliant hip joint. , 2014, , .		2
34	A velocity estimation algorithm for legged robot. Advances in Mechanical Engineering, 2017, 9, 168781401773273.	0.8	2
35	Robust and fast mapping based on direct methods. , 2017, , .		2
36	Dynamic Visual SLAM Based on Semantic Information and Multi-View Geometry. , 2020, , .		2

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37	Sodium ion channel optical model: Depolarization spatial distribution and local potential dynamic spatiotemporal processes. Neurocomputing, 2013, 99, 261-269.	3.5	1
38	Potassium ion channel optical model: Membrane potential repolarization and its dynamic spread process. Neurocomputing, 2013, 99, 316-324.	3.5	1
39	A MODULAR MOBILE SELF-RECONFIGURABLE ROBOT. , 2008, , .		1
40	A Bionic Spatial Cognition Model and Method for Robots Based on the Hippocampus Mechanism. Frontiers in Neurorobotics, 2021, 15, 769829.	1.6	1
41	A Parent-Children Type Robot System for Scout: Mechanics, Control, Simulation and Test. , 2006, , .		0
42	Analysis on simplified engineering model and vibration feature of spherical micromanipulator. , 2009, , .		0
43	A fast filtering algorithm using the transmission mechanism of human auditory information and its application on quadruped robot speed tracking. , 2014, , .		0
44	The Analysis of Alternating SLIP Model on Spinal Quadruped Robot in Bounding Gait. , 2018, , .		0
45	A neural network growing algorithm based on Brownian movement and gravity constraint. Advances in Mechanical Engineering, 2018, 10, 168781401877492.	0.8	0
46	Stiffness Effect on Periodic Locomotion of Legged Robot Based on Dimensional Analysis and Fixed Points Search Method. , 2020, , .		0
47	Pattern Analysis and Parameters Optimization of Dynamic Movement Primitives for Learning Unknown Trajectories. , 2020, , .		0