

Pengfei Wang

List of Publications by Year in descending order

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47
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citing authors

#	ARTICLE	IF	CITATIONS
1	Creating Better Collision-Free Trajectory for Robot Motion Planning by Linearly Constrained Quadratic Programming. <i>Frontiers in Neurorobotics</i> , 2021, 15, 724116.	1.6	5
2	A Bionic Spatial Cognition Model and Method for Robots Based on the Hippocampus Mechanism. <i>Frontiers in Neurorobotics</i> , 2021, 15, 769829.	1.6	1
3	Attitude Trajectory Optimization to Ensure Balance Hexapod Locomotion. <i>Sensors</i> , 2020, 20, 6295.	2.1	4
4	Local CPG Self Growing Network Model with Multiple Physical Properties. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 5497.	1.3	5
5	Dynamic Visual SLAM Based on Semantic Information and Multi-View Geometry. , 2020, , .		2
6	Spatial Topological Relation Analysis for Cluttered Scenes. <i>Sensors</i> , 2020, 20, 7181.	2.1	3
7	Stiffness Effect on Periodic Locomotion of Legged Robot Based on Dimensional Analysis and Fixed Points Search Method. , 2020, , .		0
8	Design and analysis of a whole-body controller for a velocity controlled robot mobile manipulator. <i>Science China Information Sciences</i> , 2020, 63, 1.	2.7	8
9	Mechanical design and force control algorithm for a robot leg with hydraulic series-elastic actuators. <i>International Journal of Advanced Robotic Systems</i> , 2020, 17, 172988142092101.	1.3	3
10	Semantic 3D Reconstruction for Robotic Manipulators with an Eye-In-Hand Vision System. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 1183.	1.3	5
11	A Strong Tracking Mixed-Degree Cubature Kalman Filter Method and Its Application in a Quadruped Robot. <i>Sensors</i> , 2020, 20, 2251.	2.1	12
12	Pattern Analysis and Parameters Optimization of Dynamic Movement Primitives for Learning Unknown Trajectories. , 2020, , .		0
13	Bio-Inspired Equilibrium Point Control Scheme for Quadrupedal Locomotion. <i>IEEE Transactions on Cognitive and Developmental Systems</i> , 2019, 11, 200-209.	2.6	6
14	Model Predictive Control for Motion Planning of Quadrupedal Locomotion. , 2019, , .		4
15	An analytic solution for the force distribution based on Cartesian compliance models. <i>International Journal of Advanced Robotic Systems</i> , 2019, 16, 172988141982747.	1.3	5
16	A Unified Active Assistance Control Framework of Hip Exoskeleton for Walking and Balance Assistance. , 2019, , .		4
17	Force Control Method for Pantograph Leg of Large-scale Heavy-duty Legged Robot. , 2018, , .		3
18	Learning the Metric of Task Constraint Manifolds for Constrained Motion Planning. <i>Electronics (Switzerland)</i> , 2018, 7, 395.	1.8	5

#	ARTICLE	IF	CITATIONS
19	The Analysis of Alternating SLIP Model on Spinal Quadruped Robot in Bounding Gait. , 2018, , .		0
20	A neural network growing algorithm based on Brownian movement and gravity constraint. Advances in Mechanical Engineering, 2018, 10, 168781401877492.	0.8	0
21	A parallel actuated pantograph leg for high-speed locomotion. Journal of Bionic Engineering, 2017, 14, 202-217.	2.7	18
22	Indirect adaptive impedance control for dual-arm cooperative manipulation. , 2017, , .		3
23	A velocity estimation algorithm for legged robot. Advances in Mechanical Engineering, 2017, 9, 168781401773273.	0.8	2
24	Structure design of active power-assist lower limb exoskeleton APAL robot. Advances in Mechanical Engineering, 2017, 9, 168781401773579.	0.8	35
25	Robust and fast mapping based on direct methods. , 2017, , .		2
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	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
28	Control of a Quadruped Robot with Bionic Springy Legs in Trotting Gait. Journal of Bionic Engineering, 2014, 11, 188-198.	2.7	82
29	A fast filtering algorithm using the transmission mechanism of human auditory information and its application on quadruped robot speed tracking. , 2014, , .		0
30	Stability analysis of quasi-periodic hopping of a passive one-legged robot with compliant hip joint. , 2014, , .		2
31	Velocity Control of a Bounding Quadruped via Energy Control and Vestibular Reflexes. Journal of Bionic Engineering, 2014, 11, 556-571.	2.7	11
32	Sodium ion channel optical model: Depolarization spatial distribution and local potential dynamic spatiotemporal processes. Neurocomputing, 2013, 99, 261-269.	3.5	1
33	Potassium ion channel optical model: Membrane potential repolarization and its dynamic spread process. Neurocomputing, 2013, 99, 316-324.	3.5	1
34	Development of an antagonistic bionic joint controller for a musculoskeletal quadruped. , 2013, , .		3
35	Design of a unidirectional joint with adjustable stiffness for energy efficient hopping leg. , 2013, , .		4
36	Approximate perturbation stance map of the slip runner and application to locomotion control. Journal of Bionic Engineering, 2012, 9, 411-422.	2.7	17

#	ARTICLE	IF	CITATIONS
37	Design and development of a cheetah robot under the neural mechanism controlling the leg's muscles. , 2012, , .		5
38	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
39	A novel control strategy for quadruped robot walking over irregular terrain. , 2011, , .		9
40	Running and turning control of a quadruped robot with compliant legs in bounding gait. , 2011, , .		11
41	Design of a novel snake-like robotic colonoscope. , 2009, , .		18
42	Analysis on simplified engineering model and vibration feature of spherical micromanipulator. , 2009, , .		0
43	Study on turning in place of a spherical robot based on stick-slip principle. , 2009, , .		2
44	A MODULAR MOBILE SELF-RECONFIGURABLE ROBOT. , 2008, , .		1
45	Behavior-based Control of a Hybrid Quadruped Robot. , 2006, , .		2
46	A Parent-Children Type Robot System for Scout: Mechanics, Control, Simulation and Test. , 2006, , .		0
47	The Stability Analysis for Quadruped Bionic Robot. , 2006, , .		5