Jianhua Wang

List of Publications by Year
in descending order

80	548	932766	794141
papers	citations	10	19
		h-index	g-index

80	80	80	594
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Toward Generalization of sEMG-Based Pattern Recognition: A Novel Feature Extraction for Gesture Recognition. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-12.	2.4	17
2	Mechatronics design and testing of a cable-driven upper limb rehabilitation exoskeleton with variable stiffness. Review of Scientific Instruments, 2021, 92, 024101.	0.6	8
3	Prediction of Lower Limb Action Intention Based on Surface EMG Signal. , 2021, , .		0
4	Control Strategy of Rope Driven Upper Exoskeleton Robot Based on Screw Method. , 2021, , .		0
5	Object SLAM with Dual Quadric Parameterization. , 2021, , .		0
6	Lower Limb Rehabilitation Exoskeleton Control based on SSVEP-BCI. , 2021, , .		4
7	Design and Optimization of Human-Machine Interaction Wearable Device for Lower Limb Rehabilitation Exoskeleton. , 2021, , .		0
8	An Adaptive Control Approach of Body Weight Support System for Lower Limb Exoskeleton Based on Trajectory Feedforward. , 2021, , .		2
9	Human-machine Coupled Research of a Passive Lower Limb Exoskeleton for Walking Assistance. , 2021, , .		1
10	Adaptive gait generation based on pose graph optimization for Lower-limb Rehabilitation Exoskeleton Robot. , 2021, , .		0
11	Hysteresis modeling and compensation of a rotary series elastic actuator with nonlinear stiffness. Review of Scientific Instruments, 2021, 92, 095005.	0.6	0
12	A Novel Variable Resolution Torque Sensor Based on Variable Stiffness Principle. , 2021, , .		0
13	Laplacian Pyramid Based Convolutional Neural Network for Multi-Exposure Fusion. , 2021, , .		0
14	Manifold Trial Selection to Reduce Negative Transfer in Motor Imagery-based Brainâ€"Computer Interface. , 2021, , .		4
15	A Novel Portable Lower Limb Exoskeleton for Gravity Compensation during Walking. , 2020, , .		3
16	Bio-inspired control of lower limb exoskeleton using a central pattern generator. , 2020, , .		1
17	A Robust SLAM towards Dynamic Scenes Involving Non-rigid Objects. , 2020, , .		0
18	3D Semantic Segmentation Algorithm for Indoor Scenes based on Long-term Memory. , 2020, , .		0

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19	Adaptive locomotion of lower limb exoskeleton based on oscillators and frequency adaptation. , 2020, , .		1
20	Knee exoskeleton enhanced with artificial intelligence to provide assistance-as-needed. Review of Scientific Instruments, 2019, 90, 094101.	0.6	10
21	Mechanical Design and Simulation on Bionic Lower Extremity Rehabilitation Robot. , 2019, , .		0
22	Design of a Compact Rotary Series Elastic Actuator with Nonlinear Stiffness for Lower Limb Exoskeletons. , 2019, , .		3
23	Motion Control of a 4-DOF Cable-Driven Upper Limb Exoskeleton. , 2019, , .		3
24	Mechanical Design and Optimization on Lower Limb Exoskeleton for Rehabilitation. , 2019, , .		7
25	Development of an EMG-Controlled Knee Exoskeleton to Assist Home Rehabilitation in a Game Context. Frontiers in Neurorobotics, 2019, 13, 67.	1.6	51
26	Classification of EEG signal using convolutional neural networks. , 2019, , .		10
27	An adaptive stair-ascending gait generation approach based on depth camera for lower limb exoskeleton. Review of Scientific Instruments, 2019, 90, 125112.	0.6	7
28	Recognition of Composite Motions based on sEMG via Deep Learning. , 2019, , .		2
29	Multi-class indoor semantic segmentation with deep structured model. Visual Computer, 2018, 34, 735-747.	2.5	10
30	A Novel Precision Measuring Parallel Mechanism for the Closed-Loop Control of a Biologically Inspired Lower Limb Exoskeleton. IEEE/ASME Transactions on Mechatronics, 2018, 23, 2693-2703.	3.7	28
31	Adaptive sliding mode control for a lower-limb exoskeleton rehabilitation robot. , 2018, , .		10
32	Short-term urban traffic flow prediction using deep spatio-temporal residual networks. , 2018, , .		4
33	Real-Time Stairs Geometric Parameters Estimation for Lower Limb Rehabilitation Exoskeleton. , 2018, , .		13
34	Design of a lower limb rehabilitation robot based on 3-RPR parallel mechanism. , 2017, , .		4
35	A brain-controlled lower-limb exoskeleton for human gait training. Review of Scientific Instruments, 2017, 88, 104302.	0.6	52
36	Learning aggregated features and optimizing model for semantic labeling. Visual Computer, 2017, 33, 1587-1600.	2.5	2

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37	EEG-based brain-controlled lower extremity exoskeleton rehabilitation robot. , 2017, , .		8
38	Optimization design of a bionic lower limb rehabilitation robot with dynamic analysis. , 2017, , .		0
39	Tension control in unwinding system based on nonlinear dynamic matrix control algorithm. , 2017, , .		1
40	A novel artificial lateral line sensing system of robotic fish based on BP neural network. , 2017, , .		1
41	Impedance control for a lower-limb rehabilitation robot. , 2017, , .		6
42	Structure design and simulation on bionic lower extremity rehabilitation robot. , 2017, , .		0
43	10.1063/1.5006461.1. , 2017, , .		0
44	Design of a biologically inspired lower limb exoskeleton for human gait rehabilitation. Review of Scientific Instruments, 2016, 87, 104301.	0.6	32
45	Learning contextual information for indoor semantic segmentation. , 2016, , .		0
46	A novel design of variable stiffness linkage with distributed leaf springs. , 2016, , .		4
47	Kinematic Analysis of Human Gait Based on Wearable Sensor System for Gait Rehabilitation. Journal of Medical and Biological Engineering, 2016, 36, 843-856.	1.0	24
48	Design of IoT-based energy efficiency management system for building ceramics production line. , 2016, , .		9
49	A novel closed-loop robotic fish experimental system based on ROS. , 2016, , .		1
50	Semantic segmentation based on aggregated features and contextual information. , 2016, , .		0
51	Salient object detection via region contrast and graph regularization. Science China Information Sciences, 2016, 59, 1.	2.7	5
52	Exploiting multiple contexts for saliency detection. Journal of Electronic Imaging, 2016, 25, 063005.	0.5	3
53	Parameter tuning of CPGs for hexapod gaits based on Genetic Algorithm. , 2015, , .		4
54	A cable-driven wrist robotic rehabilitator using a novel torque-field controller for human motion training. Review of Scientific Instruments, 2015, 86, 065109.	0.6	23

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55	Note: Model-based identification method of a cable-driven wearable device for arm rehabilitation. Review of Scientific Instruments, 2015, 86, 096107.	0.6	11
56	A novel vision-based human motion capture system using dual-Kinect. , 2015, , .		4
57	Fuzzy control in gait pattern classification using wearable sensors. , 2015, , .		5
58	Object tracking based on multi information fusion. , 2015, , .		1
59	Image processing assisted locomotion observation of cockroach Blaptica Dubia. Transactions of the Institute of Measurement and Control, 2015, 37, 522-535.	1.1	1
60	A portable artificial robotic hand controlled by EMG signal using ANN classifier. , 2015, , .		19
61	Convolutional neural network for 3D object recognition based on RGB-D dataset. , 2015, , .		9
62	An adaptive locomotion controller for a hexapod robot: CPG, kinematics and force feedback. Science China Information Sciences, 2014, 57, 1-18.	2.7	13
63	An automatic recognition system for patients with movement disorders based on wearable sensors. , 2014, , .		10
64	A novel customized Cable-driven robot for 3-DOF wrist and forearm motion training. , 2014, , .		9
65	Design of active ankle-foot orthosis based on plantar pressure sensor. , 2014, , .		1
66	Central pattern generators with biology observation for the locomotion control of hexapod robots. , 2014, , .		3
67	Real-time obstacle detection for legged robots using the Kinect sensor. Advanced Robotics, 2014, 28, 1375-1387.	1.1	3
68	Terrain analysis and locomotion control of a hexapod robot on uneven terrain. , 2014, , .		5
69	A new designed quadruped robot with elastic joints. , 2014, , .		0
70	Center of gravity balance approach based on CPG algorithm for locomotion control of a quadruped robot. , 2013, , .		8
71	Combining color and depth data for edge detection. , 2013, , .		0
72	Walking phases detection on structured terrains by using a shoe-integrated system. , 2013, , .		2

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73	Three-dimensional quantitative description and analysis of cockroach locomotion. , 2013, , .		0
74	A high accuracy signal processing system for six-dimensional force sensor. , 2013, , .		1
75	An autonomous vehicle following approach - The virtual flexible bar model. , 2013, , .		0
76	A gait planning approach for locomotion stability of four-legged robots. , 2012, , .		4
77	Tension optimization for the dynamic model of cable-driven humanoid arm. , 2012, , .		0
78	Central pattern generators of adaptive frequency for locomotion control of quadruped robots. , 2012, , .		0
79	Smooth transition between different gaits of a hexapod robot via a central pattern generators algorithm. Journal of Intelligent and Robotic Systems: Theory and Applications, 2012, 67, 255-270.	2.0	58
80	A lane boundary detection method based on high dynamic range image. , 2012, , .		3