

# Jianhua Wang

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/10071999/publications.pdf>

Version: 2024-02-01

80  
papers

548  
citations

932766

10  
h-index

794141

19  
g-index

80  
all docs

80  
docs citations

80  
times ranked

594  
citing authors

#	ARTICLE	IF	CITATIONS
1	Smooth transition between different gaits of a hexapod robot via a central pattern generators algorithm. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2012, 67, 255-270.	2.0	58
2	A brain-controlled lower-limb exoskeleton for human gait training. <i>Review of Scientific Instruments</i> , 2017, 88, 104302.	0.6	52
3	Development of an EMG-Controlled Knee Exoskeleton to Assist Home Rehabilitation in a Game Context. <i>Frontiers in Neurobotics</i> , 2019, 13, 67.	1.6	51
4	Design of a biologically inspired lower limb exoskeleton for human gait rehabilitation. <i>Review of Scientific Instruments</i> , 2016, 87, 104301.	0.6	32
5	A Novel Precision Measuring Parallel Mechanism for the Closed-Loop Control of a Biologically Inspired Lower Limb Exoskeleton. <i>IEEE/ASME Transactions on Mechatronics</i> , 2018, 23, 2693-2703.	3.7	28
6	Kinematic Analysis of Human Gait Based on Wearable Sensor System for Gait Rehabilitation. <i>Journal of Medical and Biological Engineering</i> , 2016, 36, 843-856.	1.0	24
7	A cable-driven wrist robotic rehabilitator using a novel torque-field controller for human motion training. <i>Review of Scientific Instruments</i> , 2015, 86, 065109.	0.6	23
8	A portable artificial robotic hand controlled by EMG signal using ANN classifier. , 2015, , .		19
9	Toward Generalization of sEMG-Based Pattern Recognition: A Novel Feature Extraction for Gesture Recognition. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2022, 71, 1-12.	2.4	17
10	An adaptive locomotion controller for a hexapod robot: CPG, kinematics and force feedback. <i>Science China Information Sciences</i> , 2014, 57, 1-18.	2.7	13
11	Real-Time Stairs Geometric Parameters Estimation for Lower Limb Rehabilitation Exoskeleton. , 2018, , .		13
12	Note: Model-based identification method of a cable-driven wearable device for arm rehabilitation. <i>Review of Scientific Instruments</i> , 2015, 86, 096107.	0.6	11
13	An automatic recognition system for patients with movement disorders based on wearable sensors. , 2014, , .		10
14	Multi-class indoor semantic segmentation with deep structured model. <i>Visual Computer</i> , 2018, 34, 735-747.	2.5	10
15	Adaptive sliding mode control for a lower-limb exoskeleton rehabilitation robot. , 2018, , .		10
16	Knee exoskeleton enhanced with artificial intelligence to provide assistance-as-needed. <i>Review of Scientific Instruments</i> , 2019, 90, 094101.	0.6	10
17	Classification of EEG signal using convolutional neural networks. , 2019, , .		10
18	A novel customized Cable-driven robot for 3-DOF wrist and forearm motion training. , 2014, , .		9

#	ARTICLE	IF	CITATIONS
19	Convolutional neural network for 3D object recognition based on RGB-D dataset. , 2015, , .		9
20	Design of IoT-based energy efficiency management system for building ceramics production line. , 2016, , .		9
21	Center of gravity balance approach based on CPG algorithm for locomotion control of a quadruped robot. , 2013, , .		8
22	EEG-based brain-controlled lower extremity exoskeleton rehabilitation robot. , 2017, , .		8
23	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
24	Mechanical Design and Optimization on Lower Limb Exoskeleton for Rehabilitation. , 2019, , .		7
25	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
26	Impedance control for a lower-limb rehabilitation robot. , 2017, , .		6
27	Terrain analysis and locomotion control of a hexapod robot on uneven terrain. , 2014, , .		5
28	Fuzzy control in gait pattern classification using wearable sensors. , 2015, , .		5
29	Salient object detection via region contrast and graph regularization. Science China Information Sciences, 2016, 59, 1.	2.7	5
30	A gait planning approach for locomotion stability of four-legged robots. , 2012, , .		4
31	Parameter tuning of CPGs for hexapod gaits based on Genetic Algorithm. , 2015, , .		4
32	A novel vision-based human motion capture system using dual-Kinect. , 2015, , .		4
33	A novel design of variable stiffness linkage with distributed leaf springs. , 2016, , .		4
34	Design of a lower limb rehabilitation robot based on 3-RPR parallel mechanism. , 2017, , .		4
35	Short-term urban traffic flow prediction using deep spatio-temporal residual networks. , 2018, , .		4
36	Lower Limb Rehabilitation Exoskeleton Control based on SSVEP-BCI. , 2021, , .		4

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37	Manifold Trial Selection to Reduce Negative Transfer in Motor Imagery-based Brain-Computer Interface. , 2021, , .		4
38	A lane boundary detection method based on high dynamic range image. , 2012, , .		3
39	Central pattern generators with biology observation for the locomotion control of hexapod robots. , 2014, , .		3
40	Real-time obstacle detection for legged robots using the Kinect sensor. Advanced Robotics, 2014, 28, 1375-1387.	1.1	3
41	Design of a Compact Rotary Series Elastic Actuator with Nonlinear Stiffness for Lower Limb Exoskeletons. , 2019, , .		3
42	Motion Control of a 4-DOF Cable-Driven Upper Limb Exoskeleton. , 2019, , .		3
43	A Novel Portable Lower Limb Exoskeleton for Gravity Compensation during Walking. , 2020, , .		3
44	Exploiting multiple contexts for saliency detection. Journal of Electronic Imaging, 2016, 25, 063005.	0.5	3
45	Walking phases detection on structured terrains by using a shoe-integrated system. , 2013, , .		2
46	Learning aggregated features and optimizing model for semantic labeling. Visual Computer, 2017, 33, 1587-1600.	2.5	2
47	Recognition of Composite Motions based on sEMG via Deep Learning. , 2019, , .		2
48	An Adaptive Control Approach of Body Weight Support System for Lower Limb Exoskeleton Based on Trajectory Feedforward. , 2021, , .		2
49	A high accuracy signal processing system for six-dimensional force sensor. , 2013, , .		1
50	Design of active ankle-foot orthosis based on plantar pressure sensor. , 2014, , .		1
51	Object tracking based on multi information fusion. , 2015, , .		1
52	Image processing assisted locomotion observation of cockroach Blaptica Dubia. Transactions of the Institute of Measurement and Control, 2015, 37, 522-535.	1.1	1
53	A novel closed-loop robotic fish experimental system based on ROS. , 2016, , .		1
54	Tension control in unwinding system based on nonlinear dynamic matrix control algorithm. , 2017, , .		1

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55	A novel artificial lateral line sensing system of robotic fish based on BP neural network. , 2017, , .		1
56	Bio-inspired control of lower limb exoskeleton using a central pattern generator. , 2020, , .		1
57	Human-machine Coupled Research of a Passive Lower Limb Exoskeleton for Walking Assistance. , 2021, , .		1
58	Adaptive locomotion of lower limb exoskeleton based on oscillators and frequency adaptation. , 2020, , .		1
59	Tension optimization for the dynamic model of cable-driven humanoid arm. , 2012, , .		0
60	Central pattern generators of adaptive frequency for locomotion control of quadruped robots. , 2012, , .		0
61	Combining color and depth data for edge detection. , 2013, , .		0
62	Three-dimensional quantitative description and analysis of cockroach locomotion. , 2013, , .		0
63	An autonomous vehicle following approach - The virtual flexible bar model. , 2013, , .		0
64	A new designed quadruped robot with elastic joints. , 2014, , .		0
65	Learning contextual information for indoor semantic segmentation. , 2016, , .		0
66	Semantic segmentation based on aggregated features and contextual information. , 2016, , .		0
67	Optimization design of a bionic lower limb rehabilitation robot with dynamic analysis. , 2017, , .		0
68	Structure design and simulation on bionic lower extremity rehabilitation robot. , 2017, , .		0
69	Mechanical Design and Simulation on Bionic Lower Extremity Rehabilitation Robot. , 2019, , .		0
70	A Robust SLAM towards Dynamic Scenes Involving Non-rigid Objects. , 2020, , .		0
71	Prediction of Lower Limb Action Intention Based on Surface EMG Signal. , 2021, , .		0
72	Control Strategy of Rope Driven Upper Exoskeleton Robot Based on Screw Method. , 2021, , .		0

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73	Object SLAM with Dual Quadric Parameterization. , 2021, , .		0
74	Design and Optimization of Human-Machine Interaction Wearable Device for Lower Limb Rehabilitation Exoskeleton. , 2021, , .		0
75	Adaptive gait generation based on pose graph optimization for Lower-limb Rehabilitation Exoskeleton Robot. , 2021, , .		0
76	Hysteresis modeling and compensation of a rotary series elastic actuator with nonlinear stiffness. Review of Scientific Instruments, 2021, 92, 095005.	0.6	0
77	A Novel Variable Resolution Torque Sensor Based on Variable Stiffness Principle. , 2021, , .		0
78	10.1063/1.5006461.1. , 2017, , .		0
79	3D Semantic Segmentation Algorithm for Indoor Scenes based on Long-term Memory. , 2020, , .		0
80	Laplacian Pyramid Based Convolutional Neural Network for Multi-Exposure Fusion. , 2021, , .		0