Baoguo Xu

List of Publications by Year
in descending order

38 papers	589 citations	687363 13 h-index	677142 22 g-index
38 all docs	38 docs citations	38 times ranked	635 citing authors

#	Article	IF	Citations
1	Continuous Hybrid BCI Control for Robotic Arm Using Noninvasive Electroencephalogram, Computer Vision, and Eye Tracking. Mathematics, 2022, 10, 618.	2.2	26
2	Decoding Hand Movement Types and Kinematic Information From Electroencephalogram. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2021, 29, 1744-1755.	4.9	6
3	Closed-Loop Phase-Dependent Vibration Stimulation Improves Motor Imagery-Based Brain-Computer Interface Performance. Frontiers in Neuroscience, 2021, 15, 638638.	2.8	13
4	Optimal strategy of sEMG feature and measurement position for grasp force estimation. PLoS ONE, 2021, 16, e0247883.	2.5	5
5	Development of a Low-Cost Wearable Data Glove for Capturing Finger Joint Angles. Micromachines, 2021, 12, 771.	2.9	9
6	Decoding Different Reach-and-Grasp Movements Using Noninvasive Electroencephalogram. Frontiers in Neuroscience, 2021, 15, 684547.	2.8	8
7	Development and Evaluation of an Adaptive Multi-DOF Finger with Mechanical-Sensor Integrated for Prosthetic Hand. Micromachines, 2021, 12, 33.	2.9	6
8	Electroencephalogram Source Imaging and Brain Network Based Natural Grasps Decoding. Frontiers in Neuroscience, 2021, 15, 797990.	2.8	3
9	Motor Imagery Based Continuous Teleoperation Robot Control with Tactile Feedback. Electronics (Switzerland), 2020, 9, 174.	3.1	29
10	sEMG Measurement Position and Feature Optimization Strategy for Gesture Recognition Based on ANOVA and Neural Networks. IEEE Access, 2020, 8, 56290-56299.	4.2	15
11	Interested Object Detection based on Gaze using Low-cost Remote Eye Tracker. , 2019, , .		6
12	Phase Synchronization Information for Classifying Motor Imagery EEG From the Same Limb. IEEE Access, 2019, 7, 153842-153852.	4.2	18
13	The Advantage of Low-Delta Electroencephalogram Phase Feature for Reconstructing the Center-Out Reaching Hand Movements. Frontiers in Neuroscience, 2019, 13, 480.	2.8	10
14	A parameter estimation method for fractional-order nonlinear systems based on improved whale optimization algorithm. Modern Physics Letters B, 2019, 33, 1950075.	1.9	12
15	Parameter estimation for fractional-order chaotic systems by improved bird swarm optimization algorithm. International Journal of Modern Physics C, 2019, 30, 1950086.	1.7	7
16	Wavelet Transform Time-Frequency Image and Convolutional Network-Based Motor Imagery EEG Classification. IEEE Access, 2019, 7, 6084-6093.	4.2	127
17	Semi-Autonomous Robotic Arm Reaching With Hybrid Gaze–Brain Machine Interface. Frontiers in Neurorobotics, 2019, 13, 111.	2.8	20
18	EEG-modulated robotic rehabilitation system for upper extremity. Biotechnology and Biotechnological Equipment, 2018, 32, 795-803.	1.3	6

#	Article	IF	Citations
19	Mechanical-Sensor Integrated Finger for Prosthetic Hand. , 2018, , .		1
20	Continuous Shared Control for Robotic Arm Reaching Driven by a Hybrid Gaze-Brain Machine Interface. , 2018, , .		5
21	A Novel Human-Robot Cooperative Method for Upper Extremity Rehabilitation. International Journal of Social Robotics, 2017, 9, 265-275.	4.6	27
22	Robotic arm control using hybrid brain-machine interface and augmented reality feedback. , 2017, , .		10
23	Investigation of the phase feature of low-frequency electroencephalography signals for decoding hand movement parameters. , 2017, , .		0
24	Closed-Loop Hybrid Gaze Brain-Machine Interface Based Robotic Arm Control with Augmented Reality Feedback. Frontiers in Neurorobotics, 2017, 11, 60.	2.8	52
25	A Parameter Estimation Method for Nonlinear Systems Based on Improved Boundary Chicken Swarm Optimization. Discrete Dynamics in Nature and Society, 2016, 2016, 1-11.	0.9	17
26	Design and evaluation of a motor imagery electroencephalogram-controlled robot system. Advances in Mechanical Engineering, 2015, 7, 168781401557360.	1.6	9
27	Psychophysiological classification and experiment study for spontaneous EEG based on two novel mental tasks. Technology and Health Care, 2015, 23, S249-S262.	1.2	4
28	Robot-assisted humanized passive rehabilitation training based on online assessment and regulation. Bio-Medical Materials and Engineering, 2015, 26, S655-S664.	0.6	3
29	The vibro-tactile stimulations experiment to verify the optimal resonance frequency of human's tactile system. , 2015, , .		4
30	Robotic neurorehabilitation system design for stroke patients. Advances in Mechanical Engineering, 2015, 7, 168781401557376.	1.6	8
31	Clinical experimental research on adaptive robot-aided therapy control methods for upper-limb rehabilitation. Robotica, 2014, 32, 1081-1100.	1.9	11
32	Safety Supervisory Strategy for an Upper-Limb Rehabilitation Robot Based on Impedance Control. International Journal of Advanced Robotic Systems, 2013, 10, 127.	2.1	21
33	Hierarchical safety supervisory control strategy for robot-assisted rehabilitation exercise. Robotica, 2013, 31, 757-766.	1.9	17
34	THE EXCITATION DISCHARGE RHYTHM OF SMALL-WORLD BIOLOGICAL NEURAL NETWORKS WITH LATERAL INHIBITION MECHANISM. Modern Physics Letters B, 2012, 26, 1150001.	1.9	1
35	Adaptive Hierarchical Control for the Muscle Strength Training of Stroke Survivors in Robot-Aided Upper-Limb Rehabilitation. International Journal of Advanced Robotic Systems, 2012, 9, 122.	2.1	9
36	Robot-Aided Upper-Limb Rehabilitation Based on Motor Imagery EEG. International Journal of Advanced Robotic Systems, 2011, 8, 40.	2.1	32

#	Article	IF	Citations
37	Robot-assisted upper-limb progressive anti-resistance training and clinical experimental study. , 2011, , .		0
38	FEATURE EXTRACTION OF MOTOR IMAGERY EEG BASED ON WAVELET TRANSFORM AND HIGHER-ORDER STATISTICS. International Journal of Wavelets, Multiresolution and Information Processing, 2010, 08, 373-384.	1.3	32