Baoguo Xu

List of Publications by Year
in descending order

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

#	Article	IF	Citations
1	Wavelet Transform Time-Frequency Image and Convolutional Network-Based Motor Imagery EEG Classification. IEEE Access, 2019, 7, 6084-6093.	4.2	127
2	Closed-Loop Hybrid Gaze Brain-Machine Interface Based Robotic Arm Control with Augmented Reality Feedback. Frontiers in Neurorobotics, 2017, 11, 60.	2.8	52
3	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
4	Robot-Aided Upper-Limb Rehabilitation Based on Motor Imagery EEG. International Journal of Advanced Robotic Systems, 2011, 8, 40.	2.1	32
5	Motor Imagery Based Continuous Teleoperation Robot Control with Tactile Feedback. Electronics (Switzerland), 2020, 9, 174.	3.1	29
6	A Novel Human-Robot Cooperative Method for Upper Extremity Rehabilitation. International Journal of Social Robotics, 2017, 9, 265-275.	4.6	27
7	Continuous Hybrid BCI Control for Robotic Arm Using Noninvasive Electroencephalogram, Computer Vision, and Eye Tracking. Mathematics, 2022, 10, 618.	2.2	26
8	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
9	Semi-Autonomous Robotic Arm Reaching With Hybrid Gazeâ€"Brain Machine Interface. Frontiers in Neurorobotics, 2019, 13, 111.	2.8	20
10	Phase Synchronization Information for Classifying Motor Imagery EEG From the Same Limb. IEEE Access, 2019, 7, 153842-153852.	4.2	18
11	Hierarchical safety supervisory control strategy for robot-assisted rehabilitation exercise. Robotica, 2013, 31, 757-766.	1.9	17
12	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
13	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
14	Closed-Loop Phase-Dependent Vibration Stimulation Improves Motor Imagery-Based Brain-Computer Interface Performance. Frontiers in Neuroscience, 2021, 15, 638638.	2.8	13
15	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
16	Clinical experimental research on adaptive robot-aided therapy control methods for upper-limb rehabilitation. Robotica, 2014, 32, 1081-1100.	1.9	11
17	Robotic arm control using hybrid brain-machine interface and augmented reality feedback. , 2017, , .		10
18	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

#	Article	IF	Citations
19	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
20	Design and evaluation of a motor imagery electroencephalogram-controlled robot system. Advances in Mechanical Engineering, 2015, 7, 168781401557360.	1.6	9
21	Development of a Low-Cost Wearable Data Glove for Capturing Finger Joint Angles. Micromachines, 2021, 12, 771.	2.9	9
22	Robotic neurorehabilitation system design for stroke patients. Advances in Mechanical Engineering, 2015, 7, 168781401557376.	1.6	8
23	Decoding Different Reach-and-Grasp Movements Using Noninvasive Electroencephalogram. Frontiers in Neuroscience, 2021, 15, 684547.	2.8	8
24	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
25	EEG-modulated robotic rehabilitation system for upper extremity. Biotechnology and Biotechnological Equipment, 2018, 32, 795-803.	1.3	6
26	Interested Object Detection based on Gaze using Low-cost Remote Eye Tracker. , 2019, , .		6
27	Decoding Hand Movement Types and Kinematic Information From Electroencephalogram. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2021, 29, 1744-1755.	4.9	6
28	Development and Evaluation of an Adaptive Multi-DOF Finger with Mechanical-Sensor Integrated for Prosthetic Hand. Micromachines, 2021, 12, 33.	2.9	6
29	Continuous Shared Control for Robotic Arm Reaching Driven by a Hybrid Gaze-Brain Machine Interface. , 2018, , .		5
30	Optimal strategy of sEMG feature and measurement position for grasp force estimation. PLoS ONE, 2021, 16, e0247883.	2.5	5
31	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
32	The vibro-tactile stimulations experiment to verify the optimal resonance frequency of human's tactile system. , 2015, , .		4
33	Robot-assisted humanized passive rehabilitation training based on online assessment and regulation. Bio-Medical Materials and Engineering, 2015, 26, S655-S664.	0.6	3
34	Electroencephalogram Source Imaging and Brain Network Based Natural Grasps Decoding. Frontiers in Neuroscience, 2021, 15, 797990.	2.8	3
35	THE EXCITATION DISCHARGE RHYTHM OF SMALL-WORLD BIOLOGICAL NEURAL NETWORKS WITH LATERAL INHIBITION MECHANISM. Modern Physics Letters B, 2012, 26, 1150001.	1.9	1
36	Mechanical-Sensor Integrated Finger for Prosthetic Hand. , 2018, , .		1

#	Article	IF	Citations
37	Robot-assisted upper-limb progressive anti-resistance training and clinical experimental study. , 2011, , .		0
38	Investigation of the phase feature of low-frequency electroencephalography signals for decoding hand movement parameters. , 2017, , .		0