

Qingsong Ai

List of Publications by Year in descending order

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Version: 2024-02-01

82
papers

1,464
citations

394390

19
h-index

345203

36
g-index

83
all docs

83
docs citations

83
times ranked

1493
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent development of mechanisms and control strategies for robot-assisted lower limb rehabilitation. <i>Mechatronics</i> , 2015, 31, 132-145.	3.3	351
2	Robust Iterative Feedback Tuning Control of a Compliant Rehabilitation Robot for Repetitive Ankle Training. <i>IEEE/ASME Transactions on Mechatronics</i> , 2017, 22, 173-184.	5.8	96
3	High-Order Model-Free Adaptive Iterative Learning Control of Pneumatic Artificial Muscle With Enhanced Convergence. <i>IEEE Transactions on Industrial Electronics</i> , 2020, 67, 9548-9559.	7.9	84
4	Feature extraction of four-class motor imagery EEG signals based on functional brain network. <i>Journal of Neural Engineering</i> , 2019, 16, 026032.	3.5	68
5	Feature Selection for Motor Imagery EEG Classification Based on Firefly Algorithm and Learning Automata. <i>Sensors</i> , 2017, 17, 2576.	3.8	57
6	Intelligent monitoring and diagnosis for modern mechanical equipment based on the integration of embedded technology and FBGS technology. <i>Measurement: Journal of the International Measurement Confederation</i> , 2011, 44, 1499-1511.	5.0	45
7	A new digital watermarking scheme for 3D triangular mesh models. <i>Signal Processing</i> , 2009, 89, 2159-2170.	3.7	39
8	Research on Lower Limb Motion Recognition Based on Fusion of sEMG and Accelerometer Signals. <i>Symmetry</i> , 2017, 9, 147.	2.2	37
9	Joint offloading decision and resource allocation for mobile edge computing enabled networks. <i>Computer Communications</i> , 2020, 154, 361-369.	5.1	35
10	Active interaction control applied to a lower limb rehabilitation robot by using EMG recognition and impedance model. <i>Industrial Robot</i> , 2014, 41, 465-479.	2.1	32
11	A Subject-Specific EMG-Driven Musculoskeletal Model for Applications in Lower-Limb Rehabilitation Robotics. <i>International Journal of Humanoid Robotics</i> , 2016, 13, 1650005.	1.1	29
12	Disturbance-Estimated Adaptive Backstepping Sliding Mode Control of a Pneumatic Muscles-Driven Ankle Rehabilitation Robot. <i>Sensors</i> , 2018, 18, 66.	3.8	29
13	Joint Offloading and Charge Cost Minimization in Mobile Edge Computing. <i>IEEE Open Journal of the Communications Society</i> , 2020, 1, 205-216.	6.9	29
14	An analytical approach to customer requirement information processing. <i>Enterprise Information Systems</i> , 2013, 7, 543-557.	4.7	27
15	Hierarchical Compliance Control of a Soft Ankle Rehabilitation Robot Actuated by Pneumatic Muscles. <i>Frontiers in Neurorobotics</i> , 2017, 11, 64.	2.8	25
16	Wireless Body Area Network Mobility-Aware Task Offloading Scheme. <i>IEEE Access</i> , 2018, 6, 61366-61376.	4.2	25
17	Machine Learning in Robot-Assisted Upper Limb Rehabilitation: A Focused Review. <i>IEEE Transactions on Cognitive and Developmental Systems</i> , 2023, 15, 2053-2063.	3.8	23
18	Bioinspired Stretchable Fiber-Based Sensor toward Intelligent Human-Machine Interactions. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 22666-22677.	8.0	22

#	ARTICLE	IF	CITATIONS
19	Fuzzy Sliding Mode Control of a Multi-DOF Parallel Robot in Rehabilitation Environment. International Journal of Humanoid Robotics, 2014, 11, 1450004.	1.1	20
20	An EMG-based force prediction and control approach for robot-assisted lower limb rehabilitation. , 2014, , .		19
21	Efficient caching strategy in content-centric networking for vehicular <i>ad-hoc</i> network applications. IET Intelligent Transport Systems, 2018, 12, 703-711.	3.0	19
22	Mutual-Information-Based Incremental Relaying Communications for Wireless Biomedical Implant Systems. Sensors, 2018, 18, 515.	3.8	19
23	Research on Channel Selection and Multi-Feature Fusion of EEG Signals for Mental Fatigue Detection. Entropy, 2021, 23, 457.	2.2	17
24	An Intelligent Computation Demand Response Framework for IIoT-MEC Interactive Networks. IEEE Networking Letters, 2020, 2, 154-158.	1.9	16
25	Hammerstein model for hysteresis characteristics of pneumatic muscle actuators. International Journal of Intelligent Robotics and Applications, 2019, 3, 33-44.	2.8	15
26	Design and Hierarchical Force-Position Control of Redundant Pneumatic Muscles-Cable-Driven Ankle Rehabilitation Robot. IEEE Robotics and Automation Letters, 2022, 7, 502-509.	5.1	15
27	Joint Optimization of USVs Communication and Computation Resource in IRS-Aided Wireless Inland Ship MEC Networks. IEEE Transactions on Green Communications and Networking, 2022, 6, 1023-1036.	5.5	15
28	Gestures recognition based on wavelet and LLE. Australasian Physical and Engineering Sciences in Medicine, 2013, 36, 167-176.	1.3	13
29	An Attention-Based CNN-LSTM Model with Limb Synergy for Joint Angles Prediction. , 2021, , .		13
30	sEMG-Based Dynamic Muscle Fatigue Classification Using SVM With Improved Whale Optimization Algorithm. IEEE Internet of Things Journal, 2021, 8, 16835-16844.	8.7	13
31	Line-laser-based visual measurement for pavement 3D rut depth in driving state. Electronics Letters, 2018, 54, 1172-1174.	1.0	12
32	A new IMMU-based data glove for hand motion capture with optimized sensor layout. International Journal of Intelligent Robotics and Applications, 2019, 3, 19-32.	2.8	12
33	Bio-Inspired Design and Iterative Feedback Tuning Control of a Wearable Ankle Rehabilitation Robot. Journal of Computing and Information Science in Engineering, 2016, 16, .	2.7	11
34	Compliance adaptation of an intrinsically soft ankle rehabilitation robot driven by pneumatic muscles. , 2017, , .		10
35	Frontal EEG Temporal and Spectral Dynamics Similarity Analysis between Propofol and Desflurane Induced Anesthesia Using Hilbert-Huang Transform. BioMed Research International, 2018, 2018, 1-16.	1.9	10
36	A method for determining customer requirement weights based on TFMF and TLR. Enterprise Information Systems, 2013, 7, 569-580.	4.7	9

#	ARTICLE	IF	CITATIONS
37	An efficient in-network caching decision algorithm for Internet of things. International Journal of Communication Systems, 2018, 31, e3521.	2.5	9
38	Iterative Feedback Tuning-based Model-Free Adaptive Iterative Learning Control of Pneumatic Artificial Muscle. , 2019, , .		9
39	Vertical Handover Algorithm for WBANs in Ubiquitous Healthcare with Quality of Service Guarantees. Information (Switzerland), 2017, 8, 34.	2.9	7
40	Design and Control of a Reconfigurable Upper Limb Rehabilitation Exoskeleton With Soft Modular Joints. IEEE Access, 2021, 9, 166815-166824.	4.2	7
41	Path Control of a Rehabilitation Robot Using Virtual Tunnel and Adaptive Impedance Controller. , 2014, , .		6
42	A MUSIC-based method for SSVEP signal processing. Australasian Physical and Engineering Sciences in Medicine, 2016, 39, 71-84.	1.3	6
43	Implementing Multi-DOF Trajectory Tracking Control System for Robotic Arm Experimental Platform. , 2018, , .		6
44	Rehabilitation assessment for lower limb disability based on multi-disciplinary approaches. Australasian Physical and Engineering Sciences in Medicine, 2014, 37, 355-365.	1.3	5
45	Optimally Probing Channel in Opportunistic Spectrum Access. IEEE Communications Letters, 2018, 22, 1426-1429.	4.1	5
46	Multi-radio channel rendezvous in cognitive radio networks. IET Communications, 2019, 13, 1433-1442.	2.2	5
47	Coupling Disturbance Compensated MIMO Control of Parallel Ankle Rehabilitation Robot Actuated by Pneumatic Muscles. , 2019, , .		5
48	Reversible Data Hiding Based on Structural Similarity Block Selection. IEEE Access, 2020, 8, 20375-20385.	4.2	5
49	Impedance Control of the Rehabilitation Robot Based on Sliding Mode Control. , 2016, , .		4
50	Fuzzy PD-Type Iterative Learning Control of a Single Pneumatic Muscle Actuator. Lecture Notes in Computer Science, 2017, , 812-822.	1.3	4
51	Design and implementation of haptic sensing interface for ankle rehabilitation robotic platform. , 2018, , .		4
52	Caching-Aided Task Offloading Scheme for Wireless Body Area Networks with MEC. , 2019, , .		4
53	An Optimal Motion Planning Method of 7-DOF Robotic Arm for Upper Limb Movement Assistance. , 2019, , .		4
54	Online detection of class-imbalanced error-related potentials evoked by motor imagery. Journal of Neural Engineering, 2021, 18, 046032.	3.5	4

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55	Path Planning and Impedance Control of a Soft Modular Exoskeleton for Coordinated Upper Limb Rehabilitation. <i>Frontiers in Neurorobotics</i> , 2021, 15, 745531.	2.8	4
56	A STEP-based Generic Product Modeling Architecture for collaborative injection moulding product development. <i>Human Factors and Ergonomics in Manufacturing</i> , 2010, 20, 547-566.	2.7	3
57	Research on rehabilitation assessment methods based on human gait and sEMG. <i>Cogent Engineering</i> , 2016, 3, 1220113.	2.2	3
58	A Novel Task Offloading Framework to Support Wireless Body Area Networks with MEC. , 2019, , .		3
59	Design and Modelling of a Compliant Ankle Rehabilitation Robot Redundantly Driven by Pneumatic Muscles. , 2019, , .		3
60	MISO Model Free Adaptive Control of Single Joint Rehabilitation Robot Driven by Pneumatic Artificial Muscles. , 2020, , .		3
61	CNN-Based Hand Grasping Prediction and Control via Postural Synergy Basis Extraction. <i>Sensors</i> , 2022, 22, 831.	3.8	3
62	Joint Task Offloading and Resource Allocation for MEC Networks Considering UAV Trajectory. , 2021, , .		3
63	Event-Triggered Adaptive Hybrid Torque-Position Control (ET-AHTPC) for Robot-Assisted Ankle Rehabilitation. <i>IEEE Transactions on Industrial Electronics</i> , 2023, 70, 4993-5003.	7.9	3
64	A selective authentication watermarking algorithm for 2D CAD engineering drawings based on entity localization. , 2014, , .		2
65	A New Heuristic Scheduling Strategy LBMM in Cloud Computing. , 2016, , .		2
66	An improved CNN model based on fused time-frequency features for mental fatigue detection in BCLs. , 2021, , , .		2
67	An intelligent monitoring system for hydraulic pipes based on multiple sensors. , 2017, , , .		1
68	Estimation of Wrist Joint Moment by Fusing Musculoskeletal Model and Muscle Synergy for Neuromuscular Interface. , 2018, , , .		1
69	Cooperative Control of An Ankle Rehabilitation Robot Based on Human Intention. , 2018, , , .		1
70	sEMG-Based Motion Recognition. , 2018, , 67-104.		1
71	Wireless Big Data Meets WBANs: An Attempt for Cooperative Task Process Assisted with MEC. , 2019, , , .		1
72	Brain-robot Shared Control Based on Motor Imagery and Improved Bayes Filter*. , 2019, , , .		1

#	ARTICLE	IF	CITATIONS
73	Neural Network Adaptive Control of Hand Rehabilitation Robot Driven by Flexible Pneumatic Muscles. , 2021, , .		1
74	Quantitative evaluation of hand functions using a wearable glove with multiple sensors. , 2021, , .		1
75	Graphene-based Motion Angle and Pressure Sensors for Lightweight and Flexible Wearable Devices. , 2021, , .		1
76	Control of multiple DOFs robots using motor imagery EEG combined with Huffman coding. , 2021, , .		1
77	Multi-objective Trajectory Optimization of Redundant Manipulator for Patient Assistance. , 2021, , .		1
78	Storage-Repair Tradeoff for Hierarchical Distributed Storage Systems. , 2019, , .		0
79	Multiple Action Movement Control Scheme for Assistive Robot Based on Binary Motor Imagery EEG. Lecture Notes in Electrical Engineering, 2021, , 760-768.	0.4	0
80	Graphene Film Based Wireless and Flexibly Wearable Sensor for Human Joint Angle Measurement. , 2021, , .		0
81	Construction and Analysis of Balance Ability Test Model Based on Multi-modal Parameters. , 2022, , .		0
82	A Study of Intelligent Rehabilitation Robot Imitation of Human Behavior Based on Kinect. , 2021, , .		0