Qingsong Ai

List of Publications by Year in Descending Order

63 papers	845 citations	14 h-index	27 g-index
83 ext. papers	1,178 ext. citations	3.3 avg, IF	4.44 L-index

#	Paper	IF	Citations
63	Joint Optimization of USVs Communication and Computation Resource in IRS-aided Wireless Inland Ship MEC Networks. *IEEE Transactions on Green Communications and Networking*, **2021**, 1-1	4	1
62	Design and Control of a Reconfigurable Upper Limb Rehabilitation Exoskeleton With Soft Modular Joints. *IEEE Access*, **2021**, 9, 166815-166824	3.5	2
61	Path Planning and Impedance Control of a Soft Modular Exoskeleton for Coordinated Upper Limb Rehabilitation. *Frontiers in Neurorobotics*, **2021**, 15, 745531	3.4	1
60	Design and Hierarchical Force-Position Control of Redundant Pneumatic Muscles-Cable-Driven Ankle Rehabilitation Robot. *IEEE Robotics and Automation Letters*, **2021**, 1-1	4.2	3
59	Online detection of class-imbalanced error-related potentials evoked by motor imagery. *Journal of Neural Engineering*, **2021**, 18,	5	2
58	Research on Channel Selection and Multi-Feature Fusion of EEG Signals for Mental Fatigue Detection. *Entropy*, **2021**, 23,	2.8	3
57	Multiple Action Movement Control Scheme for Assistive Robot Based on Binary Motor Imagery EEG. *Lecture Notes in Electrical Engineering*, **2021**, 760-768	0.2	
56	Neural Network Adaptive Control of Hand Rehabilitation Robot Driven by Flexible Pneumatic Muscles **2021**,		1
55	An Attention-Based CNN-LSTM Model with Limb Synergy for Joint Angles Prediction **2021**,		2
54	sEMG-Based Dynamic Muscle Fatigue Classification Using SVM with Improved Whale Optimization Algorithm. *IEEE Internet of Things Journal*, **2021**, 1-1	10.7	4
53	Machine Learning in Robot Assisted Upper Limb Rehabilitation: A Focused Review. *IEEE Transactions on Cognitive and Developmental Systems*, **2021**, 1-1	3	3
52	. *IEEE Transactions on Industrial Electronics*, **2020**, 67, 9548-9559	8.9	28
51	Reversible Data Hiding Based on Structural Similarity Block Selection. *IEEE Access*, **2020**, 8, 20375-20385	3.5	4
50	Joint offloading decision and resource allocation for mobile edge computing enabled networks. *Computer Communications*, **2020**, 154, 361-369	5.1	9
49	Joint Offloading and Charge Cost Minimization in Mobile Edge Computing. *IEEE Open Journal of the Communications Society*, **2020**, 1, 205-216	6.7	14
48	MISO Model Free Adaptive Control of Single Joint Rehabilitation Robot Driven by Pneumatic Artificial Muscles **2020**,		3
47	An Intelligent Computation Demand Response Framework for IIoT-MEC Interactive Networks. *IEEE Networking Letters*, **2020**, 2, 154-158	2.8	7

46	Feature extraction of four-class motor imagery EEG signals based on functional brain network. *Journal of Neural Engineering*, **2019**, 16, 026032	5	38
45	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	1.7	4
44	Hammerstein model for hysteresis characteristics of pneumatic muscle actuators. *International Journal of Intelligent Robotics and Applications*, **2019**, 3, 33-44	1.7	11
43	Caching-Aided Task Offloading Scheme for Wireless Body Area Networks with MEC **2019**,		2
42	Multi-radio channel rendezvous in cognitive radio networks. *IET Communications*, **2019**, 13, 1433-1442	1.3	1
41	An Optimal Motion Planning Method of 7-DOF Robotic Arm for Upper Limb Movement Assistance **2019**,		3
40	Coupling Disturbance Compensated MIMO Control of Parallel Ankle Rehabilitation Robot Actuated by Pneumatic Muscles **2019**,		1
39	Iterative Feedback Tuning-based Model-Free Adaptive Iterative Learning Control of Pneumatic Artificial Muscle **2019**,		4
38	Brain-robot Shared Control Based on Motor Imagery and Improved Bayes Filter* **2019**,		1
37	Design and Modelling of a Compliant Ankle Rehabilitation Robot Redundantly Driven by Pneumatic Muscles **2019**,		1
36	An efficient in-network caching decision algorithm for Internet of things. *International Journal of Communication Systems*, **2018**, 31, e3521	1.7	5
35	Implementing Multi-DOF Trajectory Tracking Control System for Robotic Arm Experimental Platform **2018**,		2
34	Efficient caching strategy in content-centric networking for vehicular ad-hoc network applications. *IET Intelligent Transport Systems*, **2018**, 12, 703-711	2.4	14
33	Mutual-Information-Based Incremental Relaying Communications for Wireless Biomedical Implant Systems. *Sensors*, **2018**, 18,	3.8	14
32	Frontal EEG Temporal and Spectral Dynamics Similarity Analysis between Propofol and Desflurane Induced Anesthesia Using Hilbert-Huang Transform. *BioMed Research International*, **2018**, 2018, 4939480	3	4
31	. *IEEE Communications Letters*, **2018**, 22, 1426-1429	3.8	5
30	Wireless Body Area Network Mobility-Aware Task Offloading Scheme. *IEEE Access*, **2018**, 6, 61366-61376	3.5	13
29	Line-laser-based visual measurement for pavement 3D rut depth in driving state. *Electronics Letters*, **2018**, 54, 1172-1174	1.1	7

28	sEMG-Based Motion Recognition **2018**, 67-104		1
27	Disturbance-Estimated Adaptive Backstepping Sliding Mode Control of a Pneumatic Muscles-Driven Ankle Rehabilitation Robot. *Sensors*, **2017**, 18,	3.8	16
26	Fuzzy PD-Type Iterative Learning Control of a Single Pneumatic Muscle Actuator. *Lecture Notes in Computer Science*, **2017**, 812-822	0.9	2
25	Robust Iterative Feedback Tuning Control of a Compliant Rehabilitation Robot for Repetitive Ankle Training. *IEEE/ASME Transactions on Mechatronics*, **2017**, 22, 173-184	5.5	69
24	Compliance adaptation of an intrinsically soft ankle rehabilitation robot driven by pneumatic muscles **2017**,		5
23	Vertical Handover Algorithm for WBANs in Ubiquitous Healthcare with Quality of Service Guarantees. *Information (Switzerland)*, **2017**, 8, 34	2.6	5
22	Feature Selection for Motor Imagery EEG Classification Based on Firefly Algorithm and Learning Automata. *Sensors*, **2017**, 17,	3.8	37
21	Research on Lower Limb Motion Recognition Based on Fusion of sEMG and Accelerometer Signals. *Symmetry*, **2017**, 9, 147	2.7	21
20	Hierarchical Compliance Control of a Soft Ankle Rehabilitation Robot Actuated by Pneumatic Muscles. *Frontiers in Neurorobotics*, **2017**, 11, 64	3.4	21
19	A MUSIC-based method for SSVEP signal processing. *Australasian Physical and Engineering Sciences in Medicine*, **2016**, 39, 71-84	1.9	3
18	Bio-Inspired Design and Iterative Feedback Tuning Control of a Wearable Ankle Rehabilitation Robot. *Journal of Computing and Information Science in Engineering*, **2016**, 16,	2.4	7
17	A New Heuristic Scheduling Strategy LBMM in Cloud Computing **2016**,		1
16	A Subject-Specific EMG-Driven Musculoskeletal Model for Applications in Lower-Limb Rehabilitation Robotics. *International Journal of Humanoid Robotics*, **2016**, 13, 1650005	1.2	15
15	Research on rehabilitation assessment methods based on human gait and sEMG. *Cogent Engineering*, **2016**, 3, 1220113	1.5	2
14	Impedance Control of the Rehabilitation Robot Based on Sliding Mode Control **2016**,		3
13	Recent development of mechanisms and control strategies for robot-assisted lower limb rehabilitation. *Mechatronics*, **2015**, 31, 132-145	3	238
12	Active interaction control applied to a lower limb rehabilitation robot by using EMG recognition and impedance model. *Industrial Robot*, **2014**, 41, 465-479	1.4	23
11	Fuzzy Sliding Mode Control of a Multi-DOF Parallel Robot in Rehabilitation Environment. *International Journal of Humanoid Robotics*, **2014**, 11, 1450004	1.2	16

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10	Rehabilitation assessment for lower limb disability based on multi-disciplinary approaches. *Australasian Physical and Engineering Sciences in Medicine*, **2014**, 37, 355-65	1.9	4
9	An EMG-based force prediction and control approach for robot-assisted lower limb rehabilitation **2014**,		11
8	Path Control of a Rehabilitation Robot Using Virtual Tunnel and Adaptive Impedance Controller **2014**,		5
7	A selective authentication watermarking algorithm for 2D CAD engineering drawings based on entity localization **2014**,		1
6	Gestures recognition based on wavelet and LLE. *Australasian Physical and Engineering Sciences in Medicine*, **2013**, 36, 167-76	1.9	11
5	An analytical approach to customer requirement information processing. *Enterprise Information Systems*, **2013**, 7, 543-557	3.5	25
4	A method for determining customer requirement weights based on TFMF and TLR. *Enterprise Information Systems*, **2013**, 7, 569-580	3.5	9
3	Intelligent monitoring and diagnosis for modern mechanical equipment based on the integration of embedded technology and FBGS technology. *Measurement: Journal of the International Measurement Confederation*, **2011**, 44, 1499-1511	4.6	39
2	A STEP-based Generic Product Modeling Architecture for collaborative injection moulding product development. *Human Factors and Ergonomics in Manufacturing*, **2010**, 20, 547-566	1.4	3
1	A new digital watermarking scheme for 3D triangular mesh models. *Signal Processing*, **2009**, 89, 2159-2170	4.4	32