

Haoyong Yu

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

194
papers

4,498
citations

39
h-index

61
g-index

223
ext. papers

5,739
ext. citations

4
avg, IF

6.4
L-index

#	Paper	IF	Citations
194	HumanRobot Interaction Control of Rehabilitation Robots With Series Elastic Actuators. <i>IEEE Transactions on Robotics</i> , 2015 , 31, 1089-1100	6.5	177
193	Composite Learning From Adaptive Dynamic Surface Control. <i>IEEE Transactions on Automatic Control</i> , 2016 , 61, 2603-2609	5.9	163
192	A review of lower extremity assistive robotic exoskeletons in rehabilitation therapy. <i>Critical Reviews in Biomedical Engineering</i> , 2013 , 41, 343-63	1.1	147
191	An Adaptive Shared Control System for an Intelligent Mobility Aid for the Elderly. <i>Autonomous Robots</i> , 2003 , 15, 53-66	3	146
190	Robotic personal aids for mobility and monitoring for the elderly. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2006 , 14, 344-51	4.8	127
189	. <i>IEEE Transactions on Industrial Informatics</i> , 2018 , 14, 3087-3096	11.9	115
188	PAMM - a robotic aid to the elderly for mobility assistance and monitoring: a "helping-hand" for the elderly		105
187	A review of long range piezoelectric motors using frequency leveraged method. <i>Sensors and Actuators A: Physical</i> , 2015 , 235, 240-255	3.9	101
186	Adaptive HumanRobot Interaction Control for Robots Driven by Series Elastic Actuators. <i>IEEE Transactions on Robotics</i> , 2017 , 33, 169-182	6.5	97
185	Kinematic comparison of surgical tendon-driven manipulators and concentric tube manipulators. <i>Mechanism and Machine Theory</i> , 2017 , 107, 148-165	4	95
184	Hybrid feedback feedforward: An efficient design of adaptive neural network control. <i>Neural Networks</i> , 2016 , 76, 122-134	9.1	88
183	Biomimetic Hybrid Feedback Feedforward Neural-Network Learning Control. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2017 , 28, 1481-1487	10.3	87
182	. <i>IEEE/ASME Transactions on Mechatronics</i> , 2018 , 23, 769-780	5.5	87
181	Adaptive Command-Filtered Backstepping Control of Robot Arms With Compliant Actuators. <i>IEEE Transactions on Control Systems Technology</i> , 2018 , 26, 1149-1156	4.8	84
180	Composite learning robot control with guaranteed parameter convergence. <i>Automatica</i> , 2018 , 89, 398-406		82
179	. <i>IEEE Transactions on Industrial Electronics</i> , 2019 , 66, 5374-5382	8.9	79
178	A novel constrained wire-driven flexible mechanism and its kinematic analysis. <i>Mechanism and Machine Theory</i> , 2016 , 95, 59-75	4	74

177	. <i>IEEE Transactions on Industrial Electronics</i> , 2016 , 63, 1900-1910	8.9	73
176	A brain-inspired spiking neural network model with temporal encoding and learning. <i>Neurocomputing</i> , 2014 , 138, 3-13	5.4	72
175	Control design of a novel compliant actuator for rehabilitation robots. <i>Mechatronics</i> , 2013 , 23, 1072-1083	6.3	70
174	Dynamic surface control via singular perturbation analysis. <i>Automatica</i> , 2015 , 57, 29-33	5.7	68
173	Composite learning from adaptive backstepping neural network control. <i>Neural Networks</i> , 2017 , 95, 134-142	6.1	68
172	Efficient PID Tracking Control of Robotic Manipulators Driven by Compliant Actuators. <i>IEEE Transactions on Control Systems Technology</i> , 2019 , 27, 915-922	4.8	66
171	Mechanical design and evaluation of a compact portable knee-ankle-foot robot for gait rehabilitation. <i>Mechanism and Machine Theory</i> , 2016 , 103, 51-64	4	65
170	Iterative learning impedance control for rehabilitation robots driven by series elastic actuators. <i>Automatica</i> , 2018 , 90, 1-7	5.7	64
169	Electromagnetic Positioning for Tip Tracking and Shape Sensing of Flexible Robots. <i>IEEE Sensors Journal</i> , 2015 , 15, 4565-4575	4	63
168	Composite Learning Robot Control With Friction Compensation: A Neural Network-Based Approach. <i>IEEE Transactions on Industrial Electronics</i> , 2019 , 66, 7841-7851	8.9	62
167	6-D Magnetic Localization and Orientation Method for an Annular Magnet Based on a Closed-Form Analytical Model. <i>IEEE Transactions on Magnetics</i> , 2014 , 50, 1-11	2	58
166	Composite adaptive dynamic surface control using online recorded data. <i>International Journal of Robust and Nonlinear Control</i> , 2016 , 26, 3921-3936	3.6	58
165	Design and control of a novel compliant differential shape memory alloy actuator. <i>Sensors and Actuators A: Physical</i> , 2015 , 225, 71-80	3.9	55
164	Shape reconstruction for wire-driven flexible robots based on Błzier curve and electromagnetic positioning. <i>Mechatronics</i> , 2015 , 29, 28-35	3	54
163	Omni-Directional Mobility Using Active Split Offset Castors. <i>Journal of Mechanical Design, Transactions of the ASME</i> , 2004 , 126, 822-829	3	54
162	Machine health condition prediction via online dynamic fuzzy neural networks. <i>Engineering Applications of Artificial Intelligence</i> , 2014 , 35, 105-113	7.2	51
161	Real-Time Shape Estimation for Wire-Driven Flexible Robots With Multiple Bending Sections Based on Quadratic Błzier Curves. <i>IEEE Sensors Journal</i> , 2015 , 15, 6326-6334	4	50
160	Multi-modal control scheme for rehabilitation robotic exoskeletons. <i>International Journal of Robotics Research</i> , 2017 , 36, 759-777	5.7	47

159	Robust Sliding Mode Control for Robots Driven by Compliant Actuators. <i>IEEE Transactions on Control Systems Technology</i> , 2019 , 27, 1259-1266	4.8	47
158	Academic Review and Perspectives on Robotic Exoskeletons. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2019 , 27, 2294-2304	4.8	42
157	Locomotive Control of a Wearable Lower Exoskeleton for Walking Enhancement. <i>JVC/Journal of Vibration and Control</i> , 2006 , 12, 1311-1336	2	41
156	Adaptive neural PD control with semiglobal asymptotic stabilization guarantee. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2014 , 25, 2264-74	10.3	39
155	Practically Oriented Finite-Time Control Design and Implementation: Application to a Series Elastic Actuator. <i>IEEE Transactions on Industrial Electronics</i> , 2018 , 65, 4166-4176	8.9	37
154	Self-contained pedestrian tracking during normal walking using an inertial/magnetic sensor module. <i>IEEE Transactions on Biomedical Engineering</i> , 2014 , 61, 892-9	5	36
153	Continuous sliding mode control of compliant robot arms: A singularly perturbed approach. <i>Mechatronics</i> , 2018 , 52, 127-134	3	34
152	Design of a Novel Flexible EndoscopeCardioscope. <i>Journal of Mechanisms and Robotics</i> , 2016 , 8, 051014	2.2	33
151	Composite learning control of robotic systems: A least squares modulated approach. <i>Automatica</i> , 2020 , 111, 108612	5.7	32
150	Output-Feedback Adaptive Neural Control of a Compliant Differential SMA Actuator. <i>IEEE Transactions on Control Systems Technology</i> , 2017 , 25, 2202-2210	4.8	31
149	ROBOTICS IN NATURAL ORIFICE TRANSLUMINAL ENDOSCOPIC SURGERY. <i>Journal of Mechanics in Medicine and Biology</i> , 2013 , 13, 1350044	0.7	31
148	A Nonsmooth Composite Control Design Framework for Nonlinear Systems With Mismatched Disturbances: Algorithms and Experimental Tests. <i>IEEE Transactions on Industrial Electronics</i> , 2018 , 65, 8828-8839	8.9	30
147	New Approach to Fixed-Order Output-Feedback Control for Piecewise-Affine Systems. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2018 , 65, 2961-2969	3.9	30
146	Robust model predictive control for constrained continuous-time nonlinear systems. <i>International Journal of Control</i> , 2018 , 91, 359-368	1.5	29
145	Model reference composite learning control without persistency of excitation. <i>IET Control Theory and Applications</i> , 2016 , 10, 1963-1971	2.5	28
144	A Unified Robust Motion Controller Design for Series Elastic Actuators. <i>IEEE/ASME Transactions on Mechatronics</i> , 2017 , 22, 2229-2240	5.5	27
143	Adaptive fuzzy PD control with stable H _∞ tracking guarantee. <i>Neurocomputing</i> , 2017 , 237, 71-78	5.4	27
142	Mechanical design of a portable knee-ankle-foot robot 2013 ,		27

141	Statics modeling of an underactuated wire-driven flexible robotic arm 2014 ,		26
140	Gait-Event-Based Synchronization Method for Gait Rehabilitation Robots via a Bioinspired Adaptive Oscillator. <i>IEEE Transactions on Biomedical Engineering</i> , 2017 , 64, 1345-1356	5	25
139	Peaking-Free Output-Feedback Adaptive Neural Control Under a Nonseparation Principle. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2015 , 26, 3097-108	10.3	24
138	Global asymptotic stabilization using adaptive fuzzy PD control. <i>IEEE Transactions on Cybernetics</i> , 2015 , 45, 588-96	10.2	21
137	On parameter convergence in least squares identification and adaptive control. <i>International Journal of Robust and Nonlinear Control</i> , 2019 , 29, 2898-2911	3.6	19
136	Hybrid FES/robotic gait rehabilitation technologies: a review on mechanical design, actuation, and control strategies. <i>International Journal of Intelligent Robotics and Applications</i> , 2018 , 2, 1-28	1.7	19
135	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	5.5	19
134	An Improved Magnetic Tracking Method Using Rotating Uniaxial Coil With Sparse Points and Closed Form Analytic Solution. <i>IEEE Sensors Journal</i> , 2014 , 14, 3585-3592	4	18
133	Intelligent fault monitoring and diagnosis in electrical machines. <i>Measurement: Journal of the International Measurement Confederation</i> , 2013 , 46, 3640-3646	4.6	18
132	2015 ,		18
131	Online data-driven composite adaptive backstepping control with exact differentiators. <i>International Journal of Adaptive Control and Signal Processing</i> , 2016 , 30, 779-789	2.8	18
130	Simplified adaptive neural control of strict-feedback nonlinear systems. <i>Neurocomputing</i> , 2015 , 159, 251-256	5.4	16
129	Developing a Mobile Lower Limb Robotic Exoskeleton for Gait Rehabilitation. <i>Journal of Medical Devices, Transactions of the ASME</i> , 2014 , 8,	1.3	16
128	Continuous Tracking Control for a Compliant Actuator With Two-Stage Stiffness. <i>IEEE Transactions on Automation Science and Engineering</i> , 2018 , 15, 57-66	4.9	15
127	Gait event detection through neuromorphic spike sequence learning 2014 ,		15
126	A linear actuator for precision positioning of dual objects. <i>Smart Materials and Structures</i> , 2015 , 24, 125039	3.9	15
125	Development of NTU wearable exoskeleton system for assistive technologies		15
124	. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2021 , 1-14	7.3	15

123	A piezo-driven flapping wing mechanism for micro air vehicles. <i>Microsystem Technologies</i> , 2017 , 23, 967-973		14
122	Bifurcation variations and motion-ruled-surface evolution of a novel Schatz linkage induced metamorphic mechanism. <i>Mechanism and Machine Theory</i> , 2020 , 150, 103867	4	14
121	Generalized Dynamic Predictive Control for Nonparametric Uncertain Systems With Application to Series Elastic Actuators. <i>IEEE Transactions on Industrial Informatics</i> , 2018 , 14, 4829-4840	11.9	14
120	Toward a Transform Method From Lighthill Fish Swimming Model to Biomimetic Robot Fish. <i>IEEE Robotics and Automation Letters</i> , 2018 , 3, 2632-2639	4.2	14
119	Restriction of pelvic lateral and rotational motions alters lower limb kinematics and muscle activation pattern during over-ground walking. <i>Medical and Biological Engineering and Computing</i> , 2016 , 54, 1621-1629	3.1	14
118	Biomechanical effects of body weight support with a novel robotic walker for over-ground gait rehabilitation. <i>Medical and Biological Engineering and Computing</i> , 2017 , 55, 315-326	3.1	14
117	Robust adaptive motion tracking of piezoelectric actuated stages using online neural-network-based sliding mode control. <i>Mechanical Systems and Signal Processing</i> , 2021 , 150, 107235 ^{7.8}		14
116	A Novel De-Noising Method for Improving the Performance of Full-Waveform LiDAR Using Differential Optical Path. <i>Remote Sensing</i> , 2017 , 9, 1109	5	13
115	A novel constrained tendon-driven serpentine manipulator 2015 ,		13
114	Identification and Control of Nonlinear Systems Using Neural Networks: A Singularity-Free Approach. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2019 , 30, 2696-2706	10.3	13
113	Experimental evaluation of a novel robotic hospital bed mover with omni-directional mobility. <i>Applied Ergonomics</i> , 2017 , 65, 389-397	4.2	12
112	Design of a novel robotic over-ground walking device for gait rehabilitation 2014 ,		12
111	A robotic knee exoskeleton for walking assistance and connectivity topology exploration in EEG signal 2016 ,		12
110	Composite Learning Fuzzy Control of Uncertain Nonlinear Systems. <i>International Journal of Fuzzy Systems</i> , 2016 , 18, 990-998	3.6	11
109	Output Feedback Adaptive Neural Control Without Seeking SPR Condition. <i>Asian Journal of Control</i> , 2015 , 17, 1620-1630	1.7	10
108	Fast and low-frequency adaptation in neural network control. <i>IET Control Theory and Applications</i> , 2014 , 8, 2062-2069	2.5	10
107	Design and analysis of a novel compact compliant actuator with variable impedance 2012 ,		10
106	Preliminary design analysis of a novel variable impedance compact compliant actuator 2011 ,		10

105	Non-linear-disturbance-observer-enhanced MPC for motion control systems with multiple disturbances. <i>IET Control Theory and Applications</i> , 2020 , 14, 63-72	2.5	10
104	Resistance training using a novel robotic walker for over-ground gait rehabilitation: a preliminary study on healthy subjects. <i>Medical and Biological Engineering and Computing</i> , 2017 , 55, 1873-1881	3.1	9
103	High-order based revelation of bifurcation of novel Schatz-inspired metamorphic mechanisms using screw theory. <i>Mechanism and Machine Theory</i> , 2020 , 152, 103931	4	9
102	A Practical Tuning Method for the Robust PID Controller with Velocity Feed-Back. <i>Machines</i> , 2015 , 3, 208-222	2.9	9
101	Lower-Limb Exoskeleton With Variable-Structure Series Elastic Actuators: Phase-Synchronized Force Control for Gait Asymmetry Correction. <i>IEEE Transactions on Robotics</i> , 2021 , 37, 763-779	6.5	9
100	Efficient learning from adaptive control under sufficient excitation. <i>International Journal of Robust and Nonlinear Control</i> , 2019 , 29, 3111-3124	3.6	8
99	Discussions on Smooth Modifications of Integral Sliding Mode Control. <i>International Journal of Control, Automation and Systems</i> , 2018 , 16, 586-593	2.9	8
98	Modeling and simulations of three-dimensional laser imaging based on space-variant structure. <i>Optics and Laser Technology</i> , 2016 , 78, 62-70	4.2	8
97	Gait phase detection in able-bodied subjects and dementia patients. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2013 , 2013, 4907-10	0.9	8
96	Composite learning control with application to inverted pendulums 2015 ,		8
95	A novel tele-operated flexible surgical arm with optimal trajectory tracking aiming for minimally invasive neurosurgery 2015 ,		8
94	Toward Gait Symmetry Enhancement via a Cable-Driven Exoskeleton Powered by Series Elastic Actuators. <i>IEEE Robotics and Automation Letters</i> , 2022 , 7, 786-793	4.2	8
93	Development and evaluation of a novel overground robotic walker for pelvic motion support 2015 ,		7
92	Fast and robust extraction of surrogate respiratory signal from intra-operative liver ultrasound images. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2013 , 8, 1027-35	3.9	7
91	Analysis and design of an omnidirectional platform for operation on non-ideal floors		7
90	Stability Analysis for Input Saturated Discrete-Time Switched Systems With Average Dwell-Time. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2021 , 51, 412-419	7.3	7
89	A Study on Kinematic Pattern of Fish Undulatory Locomotion Using a Robot Fish. <i>Journal of Mechanisms and Robotics</i> , 2018 , 10,	2.2	7
88	Phase-Synchronized Assistive Torque Control for the Correction of Kinematic Anomalies in the Gait Cycle. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2019 , 27, 2305-2314	4.8	6

87	What Are Spectral and Spatial Distributions of EEG-EMG Correlations in Overground Walking? An Exploratory Study. <i>IEEE Access</i> , 2019 , 7, 143935-143946	3.5	6
86	Power Augmentation of Upper Extremity by Using Agonist Electromyography Signals Only for Extended Admittance Control. <i>IEEJ Journal of Industry Applications</i> , 2014 , 3, 260-269	0.7	6
85	A Sliding Mode Force and Position Controller Synthesis for Series Elastic Actuators. <i>Robotica</i> , 2020 , 38, 15-28	2.1	6
84	Six novel 6R metamorphic mechanisms induced from three-series-connected Bennett linkages that vary among classical linkages. <i>Mechanism and Machine Theory</i> , 2021 , 156, 104133	4	6
83	Design and Evaluation of a Motorized Robotic Bed Mover With Omnidirectional Mobility for Patient Transportation. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2018 , 22, 1775-1785	7.2	6
82	Composite learning adaptive backstepping control using neural networks with compact supports. <i>International Journal of Adaptive Control and Signal Processing</i> , 2019 , 33, 1726-1738	2.8	5
81	Optimal teleoperation control of a constrained tendon-driven serpentine manipulator 2015 ,		5
80	Practical PID controller tuning for motion control 2015 ,		5
79	Power analysis of a series elastic actuator for ankle joint gait rehabilitation 2015 ,		5
78	A novel compact compliant actuator design for rehabilitation robots. <i>IEEE International Conference on Rehabilitation Robotics</i> , 2013 , 2013, 6650478	1.3	5
77	Identification of gait-related brain activity using electroencephalographic signals 2017 ,		5
76	Composite learning from model reference adaptive fuzzy control 2015 ,		5
75	A Supine Gait Training Device for Stroke Rehabilitation1. <i>Journal of Medical Devices, Transactions of the ASME</i> , 2014 , 8,	1.3	5
74	2014 ,		5
73	2015 ,		4
72	Single trial EEG classification of lower-limb movements using improved regularized common spatial pattern 2015 ,		4
71	Robustness analysis of composite adaptive robot control 2016 ,		4
70	Design of an SSVEP-based BCI system with visual servo module for a service robot to execute multiple tasks 2017 ,		4

69	A novel gait phase-based control strategy for a portable knee-ankle-foot robot 2015 ,		4
68	Technical Note: Automatic real-time ultrasound tracking of respiratory signal using selective filtering and dynamic template matching. <i>Medical Physics</i> , 2015 , 42, 4536-41	4-4	4
67	Manipulating Objects with a Power Assist Robot in Linear Vertical and Harmonic Motion: Psychophysical-Biomechanical Approach to Analyzing Human Characteristics to Improve the Control. <i>Journal of Biomechanical Science and Engineering</i> , 2011 , 6, 399-414	0.8	4
66	Degeneration of structural brain networks is associated with cognitive decline after ischaemic stroke. <i>Brain Communications</i> , 2020 , 2, fcaa155	4-5	4
65	Task-related brain functional network reconfigurations relate to motor recovery in chronic subcortical stroke. <i>Scientific Reports</i> , 2021 , 11, 8442	4-9	4
64	Development of a human computer interaction system based on multi-modal gaze tracking methods 2016 ,		4
63	An Active Disturbance Rejection controller design for the robust position control of Series Elastic Actuators 2016 ,		4
62	Composite learning: An efficient way of parameter estimation in adaptive control 2016 ,		4
61	Method based on bioinspired sample improves autofocusing performances. <i>Optical Engineering</i> , 2016 , 55, 103103	1-1	4
60	Real-Time Avoidance Strategy of Dynamic Obstacles via Half Model-Free Detection and Tracking With 2D Lidar for Mobile Robots. <i>IEEE/ASME Transactions on Mechatronics</i> , 2021 , 26, 2215-2225	5-5	4
59	Predictive Locomotion Mode Recognition and Accurate Gait Phase Estimation for Hip Exoskeleton on Various Terrains. <i>IEEE Robotics and Automation Letters</i> , 2022 , 1-1	4-2	4
58	Feature Extraction of Shoulder Joint's Voluntary Flexion-Extension Movement Based on Electroencephalography Signals for Power Assistance. <i>Bioengineering</i> , 2018 , 6,	5-3	3
57	Novel automatic posture detection for in-patient care using IMU sensors 2013 ,		3
56	Design and experimental validation of a linear piezoelectric micromotor for dual-slider positioning. <i>Microsystem Technologies</i> , 2017 , 23, 2363-2370	1-7	3
55	Effects of compliant and flexible trunks on peak-power of a lizard-inspired robot 2015 ,		3
54	A Portable Powered Knee-Ankle- Foot Orthosis ¹ . <i>Journal of Medical Devices, Transactions of the ASME</i> , 2014 , 8,	1-3	3
53	Power assistance on slope of an omnidirectional hybrid walker and wheelchair 2012 ,		3
52	Design of a novel compliant differential Shape Memory Alloy actuator 2013 ,		3

51	Walking Support and Power Assistance of a Wheelchair Typed Omnidirectional Mobile Robot with Admittance Control 2011 ,		3
50	Novel biomimetic control of a power assist robot for horizontal transfer of objects 2011 ,		3
49	Adaptive Neural Network Control for Constrained Robot Manipulators. <i>Lecture Notes in Computer Science</i> , 2017 , 118-127	0.9	3
48	A Novel Articulated Soft Robot Capable of Variable Stiffness through Bistable Structure 2020 ,		3
47	Unbalance detection to avoid falls with the use of a smart walker 2016 ,		3
46	Global Dynamic Nonrecursive Realization of Decentralized Nonsmooth Exact Tracking for Large-Scale Interconnected Nonlinear Systems. <i>IEEE Transactions on Cybernetics</i> , 2019 , 49, 3521-3531	10.2	3
45	Omnidirectional Platforms for Gait Training: Admittance-Shaping Control for Enhanced Mobility. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2021 , 101, 1	2.9	3
44	Algorithmic Resolution of Multiple Impacts in Nonsmooth Mechanical Systems with Switching Constraints 2019 ,		2
43	Study on mathematic magnetic field model of rectangular coils for magnetic actuation 2015 ,		2
42	On performance recovery of robust dynamic surface control. <i>International Journal of Robust and Nonlinear Control</i> , 2020 , 30, 3094-3109	3.6	2
41	Biomimetic composite learning for robot motion control 2016 ,		2
40	Least-squares learning control with guaranteed parameter convergence 2016 ,		2
39	A sliding mode controller design for the robust position control problem of series elastic actuators 2017 ,		2
38	A robust force controller design for series elastic actuators 2017 ,		2
37	Gait event-based human-robot synchrony for gait rehabilitation using adaptive oscillator 2015 ,		2
36	EMG estimation from EEGs for constructing a power assist system 2014 ,		2
35	Construction of real-time BMI control system based on motor imagery 2011 ,		2
34	Exoskeleton Control for Post-stroke Gait Training of a Paretic Limb Based on Extraction of the Contralateral Gait Phase. <i>Biosystems and Biorobotics</i> , 2019 , 294-298	0.2	2

33	Supine Gait Training Device for Stroke Rehabilitation - Design of a Compliant Ankle Orthosis. <i>IFMBE Proceedings</i> , 2014 , 512-515	0.2	2
32	A New 4M Model-Based Human-Machine Interface for Lower Extremity Exoskeleton Robot. <i>Lecture Notes in Computer Science</i> , 2012 , 545-554	0.9	2
31	Enhanced parameter estimation in adaptive control via online historical data. <i>IET Control Theory and Applications</i> , 2019 , 13, 2710-2716	2.5	2
30	A Dynamic Liver Phantom for Ultrasound Image Guided Biopsy. <i>IFMBE Proceedings</i> , 2014 , 152-155	0.2	2
29	Fully Distributed Cooperative Circumnavigation of Networked Unmanned Aerial Vehicles. <i>IEEE/ASME Transactions on Mechatronics</i> , 2021 , 26, 709-718	5.5	2
28	An intelligent technique for posture and fall detection using multiscale entropy analysis and fuzzy logic 2016 ,		2
27	Modeling and Experimental Verification of a Dual-slider Piezo-actuated Linear Motor. <i>Instruments and Experimental Techniques</i> , 2019 , 62, 876-880	0.5	2
26	Investigation on a New Approach for Designing Articulated Soft Robots with Discrete Variable Stiffness. <i>IEEE/ASME Transactions on Mechatronics</i> , 2021 , 1-1	5.5	2
25	Time-Synchronized Control for Disturbed Systems. <i>IEEE Transactions on Cybernetics</i> , 2021 , PP,	10.2	2
24	High mobility control of an omnidirectional platform for gait rehabilitation after stroke. <i>IEEE International Conference on Rehabilitation Robotics</i> , 2019 , 2019, 694-700	1.3	1
23	A novel piezo-actuated flapping mechanism based on inertia drive. <i>Journal of Intelligent Material Systems and Structures</i> , 2020 , 31, 1782-1792	2.3	1
22	An Omnidirectional Assistive Platform Integrated With Functional Electrical Stimulation for Gait Rehabilitation: A Case Study. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2020 , 28, 710-719	4.8	1
21	Subject-specific and respiration-corrected 4D liver model from real-time ultrasound image sequences. <i>Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization</i> , 2018 , 6, 7-16	0.9	1
20	Development of a novel robotic omni-directional hospital bed mover for patient transfer 2016 ,		1
19	A preliminary study on mathematic modeling of annular magnets in magnetic tracking systems 2014 ,		1
18	Bipedal locomotion modeled as the central pattern generator (CPG) and regulated by self organizing map for model of cortex 2013 ,		1
17	Biomechanical effects of robot assisted walking on knee joint kinematics and muscle activation pattern. <i>IEEE International Conference on Rehabilitation Robotics</i> , 2017 , 2017, 252-257	1.3	1
16	Leader-Based Consensus of Heterogeneous Nonlinear Multiagent Systems. <i>Mathematical Problems in Engineering</i> , 2014 , 2014, 1-6	1.1	1

15	Lowering objects manually and with power-assist: Distinctions in perceived heaviness, load forces and object motions 2011 ,		1
14	Motion support of upper extremity with agonist alone under negative admittance control 2012 ,		1
13	Unknown System Dynamics Estimator for Nonlinear Uncertain Systems. <i>IFAC-PapersOnLine</i> , 2020 , 53, 554-559	0.7	1
12	An Integrated Robotic Mobile Platform and Functional Electrical Stimulation System for Gait Rehabilitation Post-Stroke. <i>Biosystems and Biorobotics</i> , 2019 , 425-429	0.2	1
11	Adaptive-Oscillator-Based Control Strategy for Gait Rehabilitation Robots. <i>Biosystems and Biorobotics</i> , 2017 , 1365-1369	0.2	1
10	Adaptive Impedance Control for Compliantly Actuated Robots with a Unified Safety Measure 2018 ,		1
9	Design and Model Analysis of a Robotic Joint with Circular Electro-hydraulic Actuator 2018 ,		1
8	Adaptive Fuzzy Inverse Optimal Fixed-Time Control of Uncertain Nonlinear Systems. <i>IEEE Transactions on Fuzzy Systems</i> , 2021 , 1-1	8.3	0
7	Design and Study of Scissor-Mechanism-Based Pneumatic Actuator With a Characteristic of Bidirectional Contraction. <i>IEEE/ASME Transactions on Mechatronics</i> , 2022 , 1-9	5.5	0
6	A quantitative evaluation function for 3D tree-like structure segmentations in liver images. <i>Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization</i> , 2017 , 5, 45-53	0.9	
5	Sensorless Control for Unsymmetrical Bistable Multi-magnetic Circuit Permanent Magnet Actuator Based on High-frequency Signal Injection and High Pass Filter Circuit. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 1-1	8.9	
4	CREATION OF CLINICALLY-DIFFERENTIAL TUMOR MIMIC MODEL USING VASELINE-BASED MATERIALS WITH BARIUM SULFATE FOR THE VALIDATION OF REAL-TIME ULTRASOUND IMAGE-GUIDED LIVER BIOPSY SYSTEM. <i>Biomedical Engineering - Applications, Basis and Communications</i> , 2014 , 26, 1450008	0.6	
3	Hysteresis modeling and compensation of a rotary series elastic actuator with nonlinear stiffness. <i>Review of Scientific Instruments</i> , 2021 , 92, 095005	1.7	
2	Gait Phase Subdivision and Leg Stiffness Estimation During Stair Climbing.. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2022 , 30, 860-868	4.8	
1	Indirect adaptive control of multi-input-multi-output nonlinear singularly perturbed systems with model uncertainties. <i>Neurocomputing</i> , 2022 , 491, 104-116	5.4	