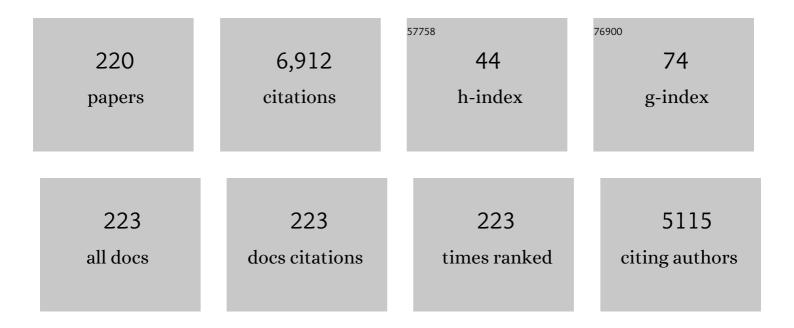
Haoyong Yu

List of Publications by Year in descending order

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Ηλογονίς Υμ

#	Article	IF	CITATIONS
1	Decentralized Adaptive Neural Inverse Optimal Control of Nonlinear Interconnected Systems. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 8840-8851.	11.3	4
2	On Time-Synchronized Stability and Control. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 2450-2463.	9.3	72
3	Real-Time Hierarchical Classification of Time Series Data for Locomotion Mode Detection. IEEE Journal of Biomedical and Health Informatics, 2022, 26, 1749-1760.	6.3	10
4	Time-Synchronized Control for Disturbed Systems. IEEE Transactions on Cybernetics, 2022, 52, 8703-8715.	9.5	16
5	Sensorless Control for Unsymmetrical Bistable Multimagnetic Circuit Permanent Magnet Actuator Based on High-Frequency Signal Injection and High-Pass Filter Circuit. IEEE Transactions on Industrial Electronics, 2022, 69, 10859-10869.	7.9	0
6	Adaptive Fuzzy Inverse Optimal Fixed-Time Control of Uncertain Nonlinear Systems. IEEE Transactions on Fuzzy Systems, 2022, 30, 3857-3868.	9.8	13
7	Toward Gait Symmetry Enhancement via a Cable-Driven Exoskeleton Powered by Series Elastic Actuators. IEEE Robotics and Automation Letters, 2022, 7, 786-793.	5.1	35
8	Gait Phase Subdivision and Leg Stiffness Estimation During Stair Climbing. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2022, 30, 860-868.	4.9	2
9	Indirect adaptive control of multi-input-multi-output nonlinear singularly perturbed systems with model uncertainties. Neurocomputing, 2022, 491, 104-116.	5.9	1
10	Predictive Locomotion Mode Recognition and Accurate Gait Phase Estimation for Hip Exoskeleton on Various Terrains. IEEE Robotics and Automation Letters, 2022, 7, 6439-6446.	5.1	34
11	Design and Study of Scissor-Mechanism-Based Pneumatic Actuator With a Characteristic of Bidirectional Contraction. IEEE/ASME Transactions on Mechatronics, 2022, 27, 2080-2088.	5.8	4
12	GTac: A Biomimetic Tactile Sensor With Skin-Like Heterogeneous Force Feedback for Robots. IEEE Sensors Journal, 2022, 22, 14491-14500.	4.7	11
13	A Piecewise Monotonic Smooth Phase Variable for Speed-Adaptation Control of Powered Knee-Ankle Prostheses. IEEE Robotics and Automation Letters, 2022, 7, 8526-8533.	5.1	9
14	Bioinspired Amphibious Origami Robot with Body Sensing for Multimodal Locomotion. Soft Robotics, 2022, 9, 1198-1209.	8.0	9
15	GTac-Gripper: A Reconfigurable Under-Actuated Four-Fingered Robotic Gripper With Tactile Sensing. IEEE Robotics and Automation Letters, 2022, 7, 7232-7239.	5.1	8
16	GSG: A Granary-Shaped Soft Gripper With Mechanical Sensing via Snap-Through Structure. IEEE Robotics and Automation Letters, 2022, 7, 9421-9428.	5.1	6
17	Estimation of Upper Limb Kinematics with a Magnetometer-Free Egocentric Visual-Inertial System. , 2022, , .		5
18	Stability Analysis for Input Saturated Discrete-Time Switched Systems With Average Dwell-Time. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 412-419.	9.3	24

#	Article	IF	CITATIONS
19	Six novel 6R metamorphic mechanisms induced from three-series-connected Bennett linkages that vary among classical linkages. Mechanism and Machine Theory, 2021, 156, 104133.	4.5	19
20	Robust adaptive motion tracking of piezoelectric actuated stages using online neural-network-based sliding mode control. Mechanical Systems and Signal Processing, 2021, 150, 107235.	8.0	44
21	Real-Time Avoidance Strategy of Dynamic Obstacles via Half Model-Free Detection and Tracking With 2D Lidar for Mobile Robots. IEEE/ASME Transactions on Mechatronics, 2021, 26, 2215-2225.	5.8	21
22	Investigation on a New Approach for Designing Articulated Soft Robots With Discrete Variable Stiffness. IEEE/ASME Transactions on Mechatronics, 2021, 26, 2998-3009.	5.8	11
23	Omnidirectional Platforms for Gait Training: Admittance-Shaping Control for Enhanced Mobility. Journal of Intelligent and Robotic Systems: Theory and Applications, 2021, 101, 1.	3.4	4
24	Task-related brain functional network reconfigurations relate to motor recovery in chronic subcortical stroke. Scientific Reports, 2021, 11, 8442.	3.3	19
25	Fully Distributed Cooperative Circumnavigation of Networked Unmanned Aerial Vehicles. IEEE/ASME Transactions on Mechatronics, 2021, 26, 709-718.	5.8	17
26	Lower-Limb Exoskeleton With Variable-Structure Series Elastic Actuators: Phase-Synchronized Force Control for Gait Asymmetry Correction. IEEE Transactions on Robotics, 2021, 37, 763-779.	10.3	41
27	Hysteresis modeling and compensation of a rotary series elastic actuator with nonlinear stiffness. Review of Scientific Instruments, 2021, 92, 095005.	1.3	0
28	Nonlinear Disturbance Observer-based Robust Motion Control for Multi-joint Series Elastic Actuator-driven Robots. , 2021, , .		1
29	A Sliding Mode Force and Position Controller Synthesis for Series Elastic Actuators. Robotica, 2020, 38, 15-28.	1.9	17
30	Composite learning control of robotic systems: A least squares modulated approach. Automatica, 2020, 111, 108612.	5.0	66
31	Degeneration of structural brain networks is associated with cognitive decline after ischaemic stroke. Brain Communications, 2020, 2, fcaa155.	3.3	9
32	A Novel Articulated Soft Robot Capable of Variable Stiffness through Bistable Structure. , 2020, , .		6
33	Bifurcation variations and motion-ruled-surface evolution of a novel Schatz linkage induced metamorphic mechanism. Mechanism and Machine Theory, 2020, 150, 103867.	4.5	27
34	A Unified Method for Vision Aided Navigation of Autonomous Systems. , 2020, , .		0
35	High-order based revelation of bifurcation of novel Schatz-inspired metamorphic mechanisms using screw theory. Mechanism and Machine Theory, 2020, 152, 103931.	4.5	25
36	A novel piezo-actuated flapping mechanism based on inertia drive. Journal of Intelligent Material Systems and Structures, 2020, 31, 1782-1792.	2.5	1

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37	On performance recovery of robust dynamic surface control. International Journal of Robust and Nonlinear Control, 2020, 30, 3094-3109.	3.7	2
38	An Omnidirectional Assistive Platform Integrated With Functional Electrical Stimulation for Gait Rehabilitation: A Case Study. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2020, 28, 710-719.	4.9	3
39	Nonâ€linearâ€disturbanceâ€observerâ€enhanced MPC for motion control systems with multiple disturbances. IET Control Theory and Applications, 2020, 14, 63-72.	2.1	28
40	Unknown System Dynamics Estimator for Nonlinear Uncertain Systems. IFAC-PapersOnLine, 2020, 53, 554-559.	0.9	4
41	A Deep Learning Based End-to-End Locomotion Mode Detection Method for Lower Limb Wearable Robot Control. , 2020, , .		4
42	What Are Spectral and Spatial Distributions of EEC-EMG Correlations in Overground Walking? An Exploratory Study. IEEE Access, 2019, 7, 143935-143946.	4.2	13
43	Academic Review and Perspectives on Robotic Exoskeletons. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2019, 27, 2294-2304.	4.9	80
44	High mobility control of an omnidirectional platform for gait rehabilitation after stroke. , 2019, 2019, 694-700.		1
45	Algorithmic Resolution of Multiple Impacts in Nonsmooth Mechanical Systems with Switching Constraints. , 2019, , .		2
46	Phase-Synchronized Assistive Torque Control for the Correction of Kinematic Anomalies in the Gait Cycle. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2019, 27, 2305-2314.	4.9	21
47	Feature Extraction of Shoulder Joint's Voluntary Flexion-Extension Movement Based on Electroencephalography Signals for Power Assistance. Bioengineering, 2019, 6, 2.	3.5	9
48	Composite learning adaptive backstepping control using neural networks with compact supports. International Journal of Adaptive Control and Signal Processing, 2019, 33, 1726-1738.	4.1	6
49	On parameter convergence in least squares identification and adaptive control. International Journal of Robust and Nonlinear Control, 2019, 29, 2898-2911.	3.7	28
50	Efficient learning from adaptive control under sufficient excitation. International Journal of Robust and Nonlinear Control, 2019, 29, 3111-3124.	3.7	17
51	Modeling and Experimental Verification of a Dual-slider Piezo-actuated Linear Motor. Instruments and Experimental Techniques, 2019, 62, 876-880.	0.5	2
52	Composite Learning Robot Control With Friction Compensation: A Neural Network-Based Approach. IEEE Transactions on Industrial Electronics, 2019, 66, 7841-7851.	7.9	106
53	Global Dynamic Nonrecursive Realization of Decentralized Nonsmooth Exact Tracking for Large-Scale Interconnected Nonlinear Systems. IEEE Transactions on Cybernetics, 2019, 49, 3521-3531.	9.5	7
54	Identification and Control of Nonlinear Systems Using Neural Networks: A Singularity-Free Approach. IEEE Transactions on Neural Networks and Learning Systems, 2019, 30, 2696-2706.	11.3	24

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55	A Novel Stick–Slip Piezoelectric Actuator Based on a Triangular Compliant Driving Mechanism. IEEE Transactions on Industrial Electronics, 2019, 66, 5374-5382.	7.9	119
56	Robust Sliding Mode Control for Robots Driven by Compliant Actuators. IEEE Transactions on Control Systems Technology, 2019, 27, 1259-1266.	5.2	70
57	Efficient PID Tracking Control of Robotic Manipulators Driven by Compliant Actuators. IEEE Transactions on Control Systems Technology, 2019, 27, 915-922.	5.2	111
58	An Integrated Robotic Mobile Platform and Functional Electrical Stimulation System for Gait Rehabilitation Post-Stroke. Biosystems and Biorobotics, 2019, , 425-429.	0.3	1
59	Enhanced parameter estimation in adaptive control via online historical data. IET Control Theory and Applications, 2019, 13, 2710-2716.	2.1	4
60	Generalized Dynamic Predictive Control for Nonparametric Uncertain Systems With Application to Series Elastic Actuators. IEEE Transactions on Industrial Informatics, 2018, 14, 4829-4840.	11.3	26
61	Discussions on Smooth Modifications of Integral Sliding Mode Control. International Journal of Control, Automation and Systems, 2018, 16, 586-593.	2.7	11
62	Practically Oriented Finite-Time Control Design and Implementation: Application to a Series Elastic Actuator. IEEE Transactions on Industrial Electronics, 2018, 65, 4166-4176.	7.9	47
63	Composite learning robot control with guaranteed parameter convergence. Automatica, 2018, 89, 398-406.	5.0	127
64	Robust Speed Regulation for PMSM Servo System With Multiple Sources of Disturbances via an Augmented Disturbance Observer. IEEE/ASME Transactions on Mechatronics, 2018, 23, 769-780.	5.8	170
65	Iterative learning impedance control for rehabilitation robots driven by series elastic actuators. Automatica, 2018, 90, 1-7.	5.0	117
66	Toward a Transform Method From Lighthill Fish Swimming Model to Biomimetic Robot Fish. IEEE Robotics and Automation Letters, 2018, 3, 2632-2639.	5.1	25
67	Hybrid FES–robotic gait rehabilitation technologies: a review on mechanical design, actuation, and control strategies. International Journal of Intelligent Robotics and Applications, 2018, 2, 1-28.	2.8	37
68	A Nonsmooth Composite Control Design Framework for Nonlinear Systems With Mismatched Disturbances: Algorithms and Experimental Tests. IEEE Transactions on Industrial Electronics, 2018, 65, 8828-8839.	7.9	42
69	Continuous Tracking Control for a Compliant Actuator With Two-Stage Stiffness. IEEE Transactions on Automation Science and Engineering, 2018, 15, 57-66.	5.2	24
70	Subject-specific and respiration-corrected 4D liver model from real-time ultrasound image sequences. Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization, 2018, 6, 7-16.	1.9	1
71	Robust model predictive control for constrained continuous-time nonlinear systems. International Journal of Control, 2018, 91, 359-368.	1.9	38
72	Adaptive Command-Filtered Backstepping Control of Robot Arms With Compliant Actuators. IEEE Transactions on Control Systems Technology, 2018, 26, 1149-1156.	5.2	138

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73	Integral Sliding Mode Control: Performance, Modification, and Improvement. IEEE Transactions on Industrial Informatics, 2018, 14, 3087-3096.	11.3	201
74	The Shared Effects of Active Body Weight Support and Robot-Applied Resistance/Assistance on Temporal Gait Parameters and Gait Related Muscle Activity. , 2018, , .		0
75	Adaptive Impedance Control for Compliantly Actuated Robots with a Unified Safety Measure. , 2018, , .		4
76	A novel energy efficient electro-hydraulic actuation system and its force control design. , 2018, , .		1
77	Decentralized Robust Exact Tracking Control for 2-DOF Planar Robot Manipulator. , 2018, , .		0
78	Towards High Performance Quadrupedal Locomotion with Passive Hip Joint Compliance. , 2018, , .		0
79	Motion Estimation for the Control of Upper Limb Wearable Exoskeleton Robot with Electroencephalography Signals. , 2018, , .		1
80	Design and Model Analysis of a Robotic Joint with Circular Electro-hydraulic Actuator. , 2018, , .		2
81	A Novel Precision Measuring Parallel Mechanism for the Closed-Loop Control of a Biologically Inspired Lower Limb Exoskeleton. IEEE/ASME Transactions on Mechatronics, 2018, 23, 2693-2703.	5.8	28
82	Continuous sliding mode control of compliant robot arms: A singularly perturbed approach. Mechatronics, 2018, 52, 127-134.	3.3	48
83	A Study on Kinematic Pattern of Fish Undulatory Locomotion Using a Robot Fish. Journal of Mechanisms and Robotics, 2018, 10, .	2.2	12
84	Design and Evaluation of a Motorized Robotic Bed Mover With Omnidirectional Mobility for Patient Transportation. IEEE Journal of Biomedical and Health Informatics, 2018, 22, 1775-1785.	6.3	9
85	New Approach to Fixed-Order Output-Feedback Control for Piecewise-Affine Systems. IEEE Transactions on Circuits and Systems I: Regular Papers, 2018, 65, 2961-2969.	5.4	33
86	A quantitative evaluation function for 3D tree-like structure segmentations in liver images. Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization, 2017, 5, 45-53.	1.9	0
87	A piezo-driven flapping wing mechanism for micro air vehicles. Microsystem Technologies, 2017, 23, 967-973.	2.0	16
88	Biomimetic Hybrid Feedback Feedforward Neural-Network Learning Control. IEEE Transactions on Neural Networks and Learning Systems, 2017, 28, 1481-1487.	11.3	106
89	Output-Feedback Adaptive Neural Control of a Compliant Differential SMA Actuator. IEEE Transactions on Control Systems Technology, 2017, 25, 2202-2210.	5.2	48
90	Multi-modal control scheme for rehabilitation robotic exoskeletons. International Journal of Robotics Research, 2017, 36, 759-777.	8.5	71

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91	Gait-Event-Based Synchronization Method for Gait Rehabilitation Robots via a Bioinspired Adaptive Oscillator. IEEE Transactions on Biomedical Engineering, 2017, 64, 1345-1356.	4.2	46
92	Experimental evaluation of a novel robotic hospital bed mover with omni-directional mobility. Applied Ergonomics, 2017, 65, 389-397.	3.1	16
93	Resistance training using a novel robotic walker for over-ground gait rehabilitation: a preliminary study on healthy subjects. Medical and Biological Engineering and Computing, 2017, 55, 1873-1881.	2.8	15
94	Adaptive Human–Robot Interaction Control for Robots Driven by Series Elastic Actuators. IEEE Transactions on Robotics, 2017, 33, 169-182.	10.3	143
95	Composite learning from adaptive backstepping neural network control. Neural Networks, 2017, 95, 134-142.	5.9	97
96	A sliding mode controller design for the robust position control problem of series elastic actuators. , 2017, , .		7
97	Estimation of EMG signal for shoulder joint based on EEG signals for the control of upper-limb power assistance devices. , 2017, , .		2
98	Design of an SSVEP-based BCI system with visual servo module for a service robot to execute multiple tasks. , 2017, , .		8
99	A Unified Robust Motion Controller Design for Series Elastic Actuators. IEEE/ASME Transactions on Mechatronics, 2017, 22, 2229-2240.	5.8	47
100	Design and experimental validation of a linear piezoelectric micromotor for dual-slider positioning. Microsystem Technologies, 2017, 23, 2363-2370.	2.0	4
101	Adaptive fuzzy PD control with stable Hâ^ž tracking guarantee. Neurocomputing, 2017, 237, 71-78.	5.9	34
102	Biomechanical effects of body weight support with a novel robotic walker for over-ground gait rehabilitation. Medical and Biological Engineering and Computing, 2017, 55, 315-326.	2.8	25
103	Kinematic comparison of surgical tendon-driven manipulators and concentric tube manipulators. Mechanism and Machine Theory, 2017, 107, 148-165.	4.5	135
104	A robust force controller design for series elastic actuators. , 2017, , .		6
105	Construction of power assistive system for the control of upper limb wearable exoskeleton robot with electroencephalography signals. , 2017, , .		0
106	Biomechanical effects of robot assisted walking on knee joint kinematics and muscle activation pattern. , 2017, 2017, 252-257.		1
107	Modelling and control of a novel walker robot for post-stroke gait rehabilitation. , 2017, , .		1
108	Identification of gait-related brain activity using electroencephalographic signals. , 2017, , .		5

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109	A Novel De-Noising Method for Improving the Performance of Full-Waveform LiDAR Using Differential Optical Path. Remote Sensing, 2017, 9, 1109.	4.0	14
110	An Incremental Learning-Based Mechanism for Object Recognition in Cloud Robotic System. , 2017, , .		0
111	Adaptive-Oscillator-Based Control Strategy for Gait Rehabilitation Robots. Biosystems and Biorobotics, 2017, , 1365-1369.	0.3	1
112	Composite adaptive dynamic surface control using online recorded data. International Journal of Robust and Nonlinear Control, 2016, 26, 3921-3936.	3.7	71
113	Online dataâ€driven composite adaptive backstepping control with exact differentiators. International Journal of Adaptive Control and Signal Processing, 2016, 30, 779-789.	4.1	24
114	Development of a human computer interaction system based on multi-modal gaze tracking methods. , 2016, , .		4
115	An intelligent technique for posture and fall detection using multiscale entropy analysis and fuzzy logic. , 2016, , .		5
116	Investigation of the EEG scalp distribution for estimation of shoulder joint torque in the upper-limb power assistant system. , 2016, , .		1
117	An Active Disturbance Rejection controller design for the robust position control of Series Elastic Actuators. , 2016, , .		8
118	Mechanical design and evaluation of a compact portable knee–ankle–foot robot for gait rehabilitation. Mechanism and Machine Theory, 2016, 103, 51-64.	4.5	99
119	Composite Learning Fuzzy Control of Uncertain Nonlinear Systems. International Journal of Fuzzy Systems, 2016, 18, 990-998.	4.0	14
120	Composite learning: An efficient way of parameter estimation in adaptive control. , 2016, , .		5
121	CREATION OF CLINICALLY-DIFFERENTIAL TUMOR MIMIC MODEL USING VASELINE-BASED MATERIALS WITH BARIUM SULFATE FOR THE VALIDATION OF REAL-TIME ULTRASOUND IMACE-CUIDED LIVER BIOPSY SYSTEM. Biomedical Engineering - Applications, Basis and Communications, 2016, 28, 1650003.	0.6	0
122	A robotic knee exoskeleton for walking assistance and connectivity topology exploration in EEG signal. , 2016, , .		18
123	Unbalance detection to avoid falls with the use of a smart walker. , 2016, , .		4
124	Method based on bioinspired sample improves autofocusing performances. Optical Engineering, 2016, 55, 103103.	1.0	6
125	Robustness analysis of composite adaptive robot control. , 2016, , .		5
126	Model reference composite learning control without persistency of excitation. IET Control Theory and Applications, 2016, 10, 1963-1971.	2.1	37

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127	Biomimetic composite learning for robot motion control. , 2016, , .		3
128	Development of a novel robotic omni-directional hospital bed mover for patient transfer. , 2016, , .		3
129	Least-squares learning control with guaranteed parameter convergence. , 2016, , .		3
130	Region control for robots driven by series elastic actuators. , 2016, , .		0
131	An Acceleration-Based Robust Motion Controller Design for a Novel Series Elastic Actuator. IEEE Transactions on Industrial Electronics, 2016, 63, 1900-1910.	7.9	106
132	Restriction of pelvic lateral and rotational motions alters lower limb kinematics and muscle activation pattern during over-ground walking. Medical and Biological Engineering and Computing, 2016, 54, 1621-1629.	2.8	19
133	Design of a Novel Flexible Endoscope—Cardioscope. Journal of Mechanisms and Robotics, 2016, 8, .	2.2	37
134	Composite Learning From Adaptive Dynamic Surface Control. IEEE Transactions on Automatic Control, 2016, 61, 2603-2609.	5.7	217
135	Modeling and simulations of three-dimensional laser imaging based on space-variant structure. Optics and Laser Technology, 2016, 78, 62-70.	4.6	11
136	Hybrid feedback feedforward: An efficient design of adaptive neural network control. Neural Networks, 2016, 76, 122-134.	5.9	103
137	A novel constrained wire-driven flexible mechanism and its kinematic analysis. Mechanism and Machine Theory, 2016, 95, 59-75.	4.5	98
138	Composite learning control with application to inverted pendulums. , 2015, , .		15
139	Robust position control of a novel series elastic actuator via disturbance observer. , 2015, , .		22
140	Real-Time Shape Estimation for Wire-Driven Flexible Robots With Multiple Bending Sections Based on Quadratic Bézier Curves. IEEE Sensors Journal, 2015, 15, 6326-6334.	4.7	82
141	Gait event-based human-robot synchrony for gait rehabilitation using adaptive oscillator. , 2015, , .		2
142	A novel gait phase-based control strategy for a portable knee-ankle-foot robot. , 2015, , .		9
143	Technical Note: Automatic real-time ultrasound tracking of respiratory signal using selective filtering and dynamic template matching. Medical Physics, 2015, 42, 4536-4541.	3.0	4
144	Effects of compliant and flexible trunks on peak-power of a lizard-inspired robot. , 2015, , .		3

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145	A linear actuator for precision positioning of dual objects. Smart Materials and Structures, 2015, 24, 125039.	3.5	18
146	A Practical Tuning Method for the Robust PID Controller with Velocity Feed-Back. Machines, 2015, 3, 208-222.	2.2	21
147	A novel tele-operated flexible surgical arm with optimal trajectory tracking aiming for minimally invasive neurosurgery. , 2015, , .		8
148	Mechanical Design and Evaluation of a Novel Knee-Ankle-Foot Robot for Rehabilitation. , 2015, , .		1
149	Composite learning from model reference adaptive fuzzy control. , 2015, , .		6
150	A novel constrained tendon-driven serpentine manipulator. , 2015, , .		17
151	Design and control of a novel compliant differential shape memory alloy actuator. Sensors and Actuators A: Physical, 2015, 225, 71-80.	4.1	79
152	Simplified adaptive neural control of strict-feedback nonlinear systems. Neurocomputing, 2015, 159, 251-256.	5.9	20
153	Shape reconstruction for wire-driven flexible robots based on Bézier curve and electromagnetic positioning. Mechatronics, 2015, 29, 28-35.	3.3	71
154	Optimal teleoperation control of a constrained tendon-driven serpentine manipulator. , 2015, , .		6
155	Electromagnetic Positioning for Tip Tracking and Shape Sensing of Flexible Robots. IEEE Sensors Journal, 2015, 15, 4565-4575.	4.7	94
156	A nonlinear stability analysis for the robust position control problem of robot manipulators via disturbance observer. , 2015, , .		7
157	Dynamic surface control via singular perturbation analysis. Automatica, 2015, 57, 29-33.	5.0	85
158	Practical PID controller tuning for motion control. , 2015, , .		10
159	Peaking-Free Output-Feedback Adaptive Neural Control Under a Nonseparation Principle. IEEE Transactions on Neural Networks and Learning Systems, 2015, 26, 3097-3108.	11.3	27
160	Study on mathematic magnetic field model of rectangular coils for magnetic actuation. , 2015, , .		5
161	Development and evaluation of a novel overground robotic walker for pelvic motion support. , 2015, ,		13
162	Human–Robot Interaction Control of Rehabilitation Robots With Series Elastic Actuators. IEEE Transactions on Robotics, 2015, 31, 1089-1100.	10.3	270

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163	Single trial EEG classification of lower-limb movements using improved regularized common spatial pattern. , 2015, , .		5
164	Power analysis of a series elastic actuator for ankle joint gait rehabilitation. , 2015, , .		6
165	A review of long range piezoelectric motors using frequency leveraged method. Sensors and Actuators A: Physical, 2015, 235, 240-255.	4.1	131
166	Global Asymptotic Stabilization Using Adaptive Fuzzy PD Control. IEEE Transactions on Cybernetics, 2015, 45, 574-582.	9.5	24
167	Output Feedback Adaptive Neural Control Without Seeking SPR Condition. Asian Journal of Control, 2015, 17, 1620-1630.	3.0	11
168	Power Augmentation of Upper Extremity by Using Agonist Electromyography Signals Only for Extended Admittance Control. IEEJ Journal of Industry Applications, 2014, 3, 260-269.	1.1	11
169	Fast and lowâ€frequency adaptation in neural network control. IET Control Theory and Applications, 2014, 8, 2062-2069.	2.1	12
170	Leader-Based Consensus of Heterogeneous Nonlinear Multiagent Systems. Mathematical Problems in Engineering, 2014, 2014, 1-6.	1.1	3
171	A Supine Gait Training Device for Stroke Rehabilitation1. Journal of Medical Devices, Transactions of the ASME, 2014, 8, .	0.7	6
172	A Portable Powered Knee-Ankle- Foot Orthosis1. Journal of Medical Devices, Transactions of the ASME, 2014, 8, .	0.7	4
173	A Wearable Posture Detection Device for Inpatient Healthcare1. Journal of Medical Devices, Transactions of the ASME, 2014, 8, .	0.7	0
174	Developing a Mobile Lower Limb Robotic Exoskeleton for Gait Rehabilitation. Journal of Medical Devices, Transactions of the ASME, 2014, 8, .	0.7	19
175	Depth estimation and object recognition in dark environments using ATIS. , 2014, , .		2
176	Biomimetic hybrid feedback feedforword adaptive neural control of robotic arms. , 2014, , .		7
177	EMG estimation from EEGs for constructing a power assist system. , 2014, , .		5
178	Statics modeling of an underactuated wire-driven flexible robotic arm. , 2014, , .		33
179	A brain-inspired spiking neural network model with temporal encoding and learning. Neurocomputing, 2014, 138, 3-13.	5.9	106
180	Gait event detection through neuromorphic spike sequence learning. , 2014, , .		16

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181	An Improved Magnetic Tracking Method Using Rotating Uniaxial Coil With Sparse Points and Closed Form Analytic Solution. IEEE Sensors Journal, 2014, 14, 3585-3592.	4.7	21
182	Adaptive Neural PD Control With Semiglobal Asymptotic Stabilization Guarantee. IEEE Transactions on Neural Networks and Learning Systems, 2014, 25, 2264-2274.	11.3	47
183	A preliminary study on mathematic modeling of annular magnets in magnetic tracking systems. , 2014, , .		1
184	Machine health condition prediction via online dynamic fuzzy neural networks. Engineering Applications of Artificial Intelligence, 2014, 35, 105-113.	8.1	67
185	Power assistance of an omnidirectional hybrid walker and wheelchair with admittance model and Iterative Learning Control. , 2014, , .		2
186	6-D Magnetic Localization and Orientation Method for an Annular Magnet Based on a Closed-Form Analytical Model. IEEE Transactions on Magnetics, 2014, 50, 1-11.	2.1	90
187	Self-Contained Pedestrian Tracking During Normal Walking Using an Inertial/Magnetic Sensor Module. IEEE Transactions on Biomedical Engineering, 2014, 61, 892-899.	4.2	40
188	Design of a novel robotic over-ground walking device for gait rehabilitation. , 2014, , .		14
189	A Dynamic Liver Phantom for Ultrasound Image Guided Biopsy. IFMBE Proceedings, 2014, , 152-155.	0.3	3
190	Intelligent fault monitoring and diagnosis in electrical machines. Measurement: Journal of the International Measurement Confederation, 2013, 46, 3640-3646.	5.0	20
191	Fast and robust extraction of surrogate respiratory signal from intra-operative liver ultrasound images. International Journal of Computer Assisted Radiology and Surgery, 2013, 8, 1027-1035.	2.8	7
192	Bipedal locomotion modeled as the central pattern generator (CPG) and regulated by self organizing map for model of cortex. , 2013, , .		2
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