

# Jian Huang

## List of Publications by Year in descending order

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191  
papers

4,118  
citations

136950

32  
h-index

144013

57  
g-index

192  
all docs

192  
docs citations

192  
times ranked

3212  
citing authors

#	ARTICLE	IF	CITATIONS
1	Sliding-Mode Velocity Control of Mobile-Wheeled Inverted-Pendulum Systems. IEEE Transactions on Robotics, 2010, 26, 750-758.	10.3	201
2	Notice of Removal: A Disturbance Observer Based Sliding Mode Control for a Class of Underactuated Robotic System With Mismatched Uncertainties. IEEE Transactions on Automatic Control, 2019, 64, 2480-2487.	5.7	162
3	Human-Walking-Intention-Based Motion Control of an Omnidirectional-Type Cane Robot. IEEE/ASME Transactions on Mechatronics, 2013, 18, 285-296.	5.8	157
4	Control of Upper-Limb Power-Assist Exoskeleton Using a Human-Robot Interface Based on Motion Intention Recognition. IEEE Transactions on Automation Science and Engineering, 2015, 12, 1257-1270.	5.2	148
5	Nonlinear Disturbance Observer-Based Dynamic Surface Control of Mobile Wheeled Inverted Pendulum. IEEE Transactions on Control Systems Technology, 2015, 23, 2400-2407.	5.2	141
6	Interval Type-2 Fuzzy Logic Modeling and Control of a Mobile Two-Wheeled Inverted Pendulum. IEEE Transactions on Fuzzy Systems, 2018, 26, 2030-2038.	9.8	137
7	Odor source localization algorithms on mobile robots: A review and future outlook. Robotics and Autonomous Systems, 2019, 112, 123-136.	5.1	129
8	High-Order Disturbance-Observer-Based Sliding Mode Control for Mobile Wheeled Inverted Pendulum Systems. IEEE Transactions on Industrial Electronics, 2020, 67, 2030-2041.	7.9	129
9	Fuzzy support vector machine for classification of EEG signals using wavelet-based features. Medical Engineering and Physics, 2009, 31, 858-865.	1.7	120
10	Solid oxide fuel cell (SOFC) performance evaluation, fault diagnosis and health control: A review. Journal of Power Sources, 2021, 505, 230058.	7.8	108
11	Nonlinear Disturbance Observer-Based Dynamic Surface Control for Trajectory Tracking of Pneumatic Muscle System. IEEE Transactions on Control Systems Technology, 2014, 22, 440-455.	5.2	104
12	Design and Evaluation of the RUPERT Wearable Upper Extremity Exoskeleton Robot for Clinical and In-Home Therapies. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2016, 46, 926-935.	9.3	104
13	A real-time EMG pattern recognition method for virtual myoelectric hand control. Neurocomputing, 2014, 136, 345-355.	5.9	103
14	Modeling and Velocity Control for a Novel Narrow Vehicle Based on Mobile Wheeled Inverted Pendulum. IEEE Transactions on Control Systems Technology, 2013, 21, 1607-1617.	5.2	101
15	Active learning for regression using greedy sampling. Information Sciences, 2019, 474, 90-105.	6.9	80
16	Nonlinear disturbance observer based sliding mode control of a human-driven knee joint orthosis. Robotics and Autonomous Systems, 2016, 75, 41-49.	5.1	74
17	Fall Detection and Prevention Control Using Walking-Aid Cane Robot. IEEE/ASME Transactions on Mechatronics, 2016, 21, 625-637.	5.8	73
18	Optimize TSK Fuzzy Systems for Regression Problems: Minibatch Gradient Descent With Regularization, DropRule, and AdaBound (MBGD-RDA). IEEE Transactions on Fuzzy Systems, 2020, 28, 1003-1015.	9.8	68

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19	Adhesive and Hydrophobic Bilayer Hydrogel Enabled On-Skin Biosensors for High-Fidelity Classification of Human Emotion. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	58
20	Model-Based Intelligent Fault Detection and Diagnosis for Mating Electric Connectors in Robotic Wiring Harness Assembly Systems. <i>IEEE/ASME Transactions on Mechatronics</i> , 2008, 13, 86-94.	5.8	57
21	An assembly strategy scheduling method for human and robot coordinated cell manufacturing. <i>International Journal of Intelligent Computing and Cybernetics</i> , 2011, 4, 487-510.	2.7	50
22	An Echo State Gaussian Process-Based Nonlinear Model Predictive Control for Pneumatic Muscle Actuators. <i>IEEE Transactions on Automation Science and Engineering</i> , 2019, 16, 1071-1084.	5.2	50
23	Optimize TSK Fuzzy Systems for Classification Problems: Minibatch Gradient Descent With Uniform Regularization and Batch Normalization. <i>IEEE Transactions on Fuzzy Systems</i> , 2020, 28, 3065-3075.	9.8	50
24	An Integrated Wireless Wearable Sensor System for Posture Recognition and Indoor Localization. <i>Sensors</i> , 2016, 16, 1825.	3.8	45
25	Sliding mode control with an extended disturbance observer for a class of underactuated system in cascaded form. <i>Nonlinear Dynamics</i> , 2017, 90, 2571-2582.	5.2	44
26	Echo state network based predictive control with particle swarm optimization for pneumatic muscle actuator. <i>Journal of the Franklin Institute</i> , 2016, 353, 2761-2782.	3.4	43
27	Personalized Human Activity Recognition Based on Integrated Wearable Sensor and Transfer Learning. <i>Sensors</i> , 2021, 21, 885.	3.8	41
28	Robust Model-Based Online Fault Detection for Mating Process of Electric Connectors in Robotic Wiring Harness Assembly Systems. <i>IEEE Transactions on Control Systems Technology</i> , 2010, 18, 1207-1215.	5.2	40
29	Neural-network-based nonlinear model predictive tracking control of a pneumatic muscle actuator-driven exoskeleton. <i>IEEE/CAA Journal of Automatica Sinica</i> , 2020, 7, 1478-1488.	13.1	39
30	Stochastic fault tolerant control of networked control systems. <i>Journal of the Franklin Institute</i> , 2009, 346, 1006-1020.	3.4	36
31	Set-Membership-Based Fault Detection and Isolation for Robotic Assembly of Electrical Connectors. <i>IEEE Transactions on Automation Science and Engineering</i> , 2018, 15, 160-171.	5.2	35
32	Posture estimation and human support using wearable sensors and walking-aid robot. <i>Robotics and Autonomous Systems</i> , 2015, 73, 24-43.	5.1	34
33	On the Functional Equivalence of TSK Fuzzy Systems to Neural Networks, Mixture of Experts, CART, and Stacking Ensemble Regression. <i>IEEE Transactions on Fuzzy Systems</i> , 2020, 28, 2570-2580.	9.8	34
34	Interval Type-2 Fuzzy Disturbance Observer-Based T $\alpha$ S Fuzzy Control for a Pneumatic Flexible Joint. <i>IEEE Transactions on Industrial Electronics</i> , 2022, 69, 5962-5972.	7.9	33
35	Supernumerary Robotic Limbs: A Review and Future Outlook. <i>IEEE Transactions on Medical Robotics and Bionics</i> , 2021, 3, 623-639.	3.2	32
36	Reinforcement learning-based shared control for walking-aid robot and its experimental verification. <i>Advanced Robotics</i> , 2015, 29, 1463-1481.	1.8	31

#	ARTICLE	IF	CITATIONS
37	Adaptive Proxy-Based Robust Control Integrated With Nonlinear Disturbance Observer for Pneumatic Muscle Actuators. IEEE/ASME Transactions on Mechatronics, 2020, 25, 1756-1764.	5.8	31
38	A Study on Error Recovery Search Strategies of Electronic Connector Mating for Robotic Fault-Tolerant Assembly. Journal of Intelligent and Robotic Systems: Theory and Applications, 2016, 81, 257-271.	3.4	30
39	A Wearable Activity Recognition Device Using Air-Pressure and IMU Sensors. IEEE Access, 2019, 7, 6611-6621.	4.2	28
40	An Automatic Analog Instrument Reading System Using Computer Vision and Inspection Robot. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 6322-6335.	4.7	28
41	Tandem Stance Avoidance Using Adaptive and Asymmetric Admittance Control for Fall Prevention. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2016, 24, 542-550.	4.9	27
42	Adaptive proxy-based sliding mode control for a class of second-order nonlinear systems and its application to pneumatic muscle actuators. ISA Transactions, 2022, 124, 395-402.	5.7	26
43	A Wearable Rehabilitation Robotic Hand Driven by PM-TS Actuators. Lecture Notes in Computer Science, 2010, , 440-450.	1.3	25
44	Sliding mode tracking for actuators comprising pneumatic muscle and torsion spring. Transactions of the Institute of Measurement and Control, 2012, 34, 255-277.	1.7	24
45	Switching Dynamic Modeling and Driving Stability Analysis of Three-Wheeled Narrow Tilting Vehicle. IEEE/ASME Transactions on Mechatronics, 2014, 19, 1309-1322.	5.8	24
46	Soft Rehabilitation and Nursing-Care Robots: A Review and Future Outlook. Applied Sciences (Switzerland), 2019, 9, 3102.	2.5	23
47	Combining particle filter algorithm with bio-inspired anemotaxis behavior: A smoke plume tracking method and its robotic experiment validation. Measurement: Journal of the International Measurement Confederation, 2020, 154, 107482.	5.0	22
48	Study of Fall Detection Using Intelligent Cane Based on Sensor Fusion. , 2008, , .		21
49	Fuzzy PID control of a wearable rehabilitation robotic hand driven by pneumatic muscles. , 2009, , .		21
50	Robust stability conditions for remote SISO DMC controller in networked control systems. Journal of Process Control, 2009, 19, 743-750.	3.3	21
51	Fall detection and prevention in the elderly based on the ZMP stability control. , 2013, , .		20
52	Upper Limb Rehabilitation Robot Powered by PAMs Cooperates with FES Arrays to Realize Reach-to-Grasp Trainings. Journal of Healthcare Engineering, 2017, 2017, 1-15.	1.9	20
53	Single-Layer Learning-Based Predictive Control With Echo State Network for Pneumatic-Muscle-Actuators-Driven Exoskeleton. IEEE Transactions on Cognitive and Developmental Systems, 2021, 13, 80-90.	3.8	20
54	Adaptive neural network control for quadrotor unmanned aerial vehicles. , 2017, , .		19

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55	Human-Following Control of Cane-Type Walking-Aid Robot Within Fixed Relative Posture. IEEE/ASME Transactions on Mechatronics, 2022, 27, 537-548.	5.8	19
56	Vibration damping in manipulation of deformable linear objects using sliding mode control. Advanced Robotics, 2014, 28, 157-172.	1.8	18
57	Data-Driven Human-Robot Coordination Based Walking State Monitoring With Cane-Type Robot. IEEE Access, 2018, 6, 8896-8908.	4.2	18
58	Fingertip Tactile Sensor With Single Sensing Element Based on FSR and PVDF. IEEE Sensors Journal, 2019, 19, 11100-11112.	4.7	18
59	Terminal Sliding Mode Control of Mobile Wheeled Inverted Pendulum System with Nonlinear Disturbance Observer. Mathematical Problems in Engineering, 2014, 2014, 1-8.	1.1	17
60	Mechatronic Design of a Synergetic Upper Limb Exoskeletal Robot and Wrench-based Assistive Control. Journal of Bionic Engineering, 2018, 15, 247-259.	5.0	16
61	Motion control of omni-directional type cane robot based on human intention. , 2008, , .		15
62	Development of a width-changeable intelligent walking-aid robot. , 2012, , .		15
63	Fault detection algorithm for external thread fastening by robotic manipulator using linear support vector machine classifier. , 2013, , .		15
64	Decoding Lower Limb Muscle Activity and Kinematics from Cortical Neural Spike Trains during Monkey Performing Stand and Squat Movements. Frontiers in Neuroscience, 2017, 11, 44.	2.8	14
65	Set-Membership filtering with incomplete observations. Information Sciences, 2020, 517, 37-51.	6.9	14
66	Dynamic modeling and simulation of manipulating deformable linear objects. , 2008, , .		13
67	Global path planning using modified firefly algorithm. , 2017, , .		13
68	A Novel Coordinated Motion Fusion-Based Walking-Aid Robot System. Sensors, 2018, 18, 2761.	3.8	13
69	Optimizing Control of Passive Gait Training Exoskeleton Driven by Pneumatic Muscles Using Switch-Mode Firefly Algorithm. Robotica, 2019, 37, 2087-2103.	1.9	13
70	A Deep Q-Network for robotic odor/gas source localization: Modeling, measurement and comparative study. Measurement: Journal of the International Measurement Confederation, 2021, 183, 109725.	5.0	13
71	Stochastic switched controller design of networked control systems with a random long delay. Asian Journal of Control, 2011, 13, 255-264.	3.0	12
72	Optimal posture control for stability of intelligent cane robot. , 2012, , .		12

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73	A novel fall prevention scheme for intelligent cane robot by using a motor driven universal joint. , 2011, , .		11
74	Stabilization of networked control systems with short or long random delays: A new multirate method. International Journal of Robust and Nonlinear Control, 2010, 20, 1802-1816.	3.7	10
75	Control of upper-limb power-assist exoskeleton based on motion intention recognition. , 2011, , .		10
76	Motion control of intelligent cane robot under normal and abnormal walking condition. , 2011, , .		10
77	Human-robot coordination stability for fall detection and prevention using cane robot. , 2016, , .		10
78	Automatic Reading System for Analog Instruments Based on Computer Vision and Inspection Robot for Power Plant. , 2018, , .		10
79	A Switch-Mode Firefly Algorithm for Global Optimization. IEEE Access, 2018, 6, 54177-54184.	4.2	10
80	Intelligent mobile walking-aids: perception, control and safety. Advanced Robotics, 2020, 34, 2-18.	1.8	10
81	An Ultra-Sensitive Modular Hybrid EMG&FMC Sensor with Floating Electrodes. Sensors, 2020, 20, 4775.	3.8	10
82	Design and Application of an Intelligent Robotic Gripper for Accurate and Tolerant Electronic Connector Mating. Journal of Robotics and Mechatronics, 2012, 24, 441-451.	1.0	10
83	Evolutionary artificial potential field method based manipulator path planning for safe robotic assembly. , 2009, , .		9
84	Design of a wearable rehabilitation robot integrated with functional electrical stimulation. , 2012, , .		9
85	Control of intelligent cane robot considering usage of ordinary cane. , 2013, , .		9
86	Design and control of an intelligent walking-aid robot. , 2014, , .		9
87	Model-based Robust Online Fault Detection for Mating Process of Electric Connectors in Robotic Wiring Harness Assembly Systems. , 2007, , .		8
88	Hybrid vision-force guided fault tolerant robotic assembly for electric connectors. , 2009, , .		8
89	Sliding mode tracking for actuators comprising pneumatic muscle and torsion spring. , 2009, , .		8
90	Robust velocity sliding mode control of mobile wheeled inverted pendulum systems. , 2009, , .		8

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91	i-Hand: An intelligent robotic hand for fast and accurate assembly in electronic manufacturing. , 2012, , .		8
92	Multi-sensor based human motion intention recognition algorithm for walking-aid robot. , 2015, , .		8
93	Extended-State-Observer-Based Super Twisting Control for Pneumatic Muscle Actuators. Actuators, 2021, 10, 35.	2.3	8
94	Motion Control and Fall Detection of Intelligent Cane Robot. Springer Tracts in Advanced Robotics, 2015, , 317-337.	0.4	8
95	A Visual Servo Based Predictive Control with Echo State Gaussian Process for Soft Bending Actuator. IEEE/ASME Transactions on Mechatronics, 2020, , 1-1.	5.8	8
96	Modeling for Mating Process of Electric Connectors in Robotic Wiring Harness Assembly Systems. , 2007, , .		7
97	Optimal braking control for UW-Car using sliding mode. , 2009, , .		7
98	Assembly strategy modeling and selection for human and robot coordinated cell assembly. , 2011, , .		7
99	Adaptive sliding mode control for manipulating deformable linear object with input saturation. , 2012, , .		7
100	Fall detection for the elderly using a cane robot based on ZMP estimation. , 2013, , .		7
101	Adaptive Super-Twisting Control for Mobile Wheeled Inverted Pendulum Systems. Applied Sciences (Switzerland), 2019, 9, 2508.	2.5	7
102	Design, modelling and identification of a fiber-reinforced bending pneumatic muscle. Science China Information Sciences, 2019, 62, 1.	4.3	7
103	Using High-Frequency Local Field Potentials From Multicortex to Decode Reaching and Grasping Movements in Monkey. IEEE Transactions on Cognitive and Developmental Systems, 2019, 11, 270-280.	3.8	7
104	Assembly strategy modeling and selection for human and robot coordinated cell assembly. , 2011, , .		7
105	An Underactuated Prosthetic Hand with Coupled Metacarpophalangeal Joints. Journal of Advanced Computational Intelligence and Intelligent Informatics, 2018, 22, 674-682.	0.9	7
106	Optimal design of dexterous prosthetic hand with five-joint thumb and fingertip tactile sensors based on novel precision grasp metric. Mechanism and Machine Theory, 2022, 171, 104759.	4.5	7
107	Generalized Spatialâ€Temporal Fault Location Method for Solid Oxide Fuel Cells Using LSTM and Causal Inference. IEEE Transactions on Transportation Electrification, 2022, 8, 4583-4594.	7.8	7
108	Multi-Class Support Vector Machines for Brain Neural Signals Recognition. , 2006, , .		6

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109	Fault-tolerant mating process of electric connectors in robotic wiring harness assembly systems. , 2008, , .		6
110	Skill-based vibration suppression in manipulation of deformable linear objects. , 2011, , .		6
111	Design of interval type-2 fuzzy logic controller for mobile wheeled inverted pendulum. , 2016, , .		6
112	Electrospinning Sedimentary Microstructure Feedback Control by Tuning Substrate Linear Machine Velocity. IEEE Transactions on Industrial Electronics, 2017, 64, 8686-8694.	7.9	6
113	Formation Tracking of Heterogeneous UGV-UAV Systems with Switching Directed Topologies. , 2019, , .		6
114	Towards Environmentally Adaptive Odor Source Localization: Fuzzy LÃ©vy Taxis Algorithm and Its Validation in Dynamic Odor Plumes. , 2020, , .		6
115	Particle Source Localization With a Low-Cost Robotic Sensor System: Algorithmic Design and Performance Evaluation. IEEE Sensors Journal, 2020, 20, 13074-13085.	4.7	6
116	Proxy-Based Control of Intelligent Assistive Walker for Intentional Sit-to-Stand Transfer. IEEE/ASME Transactions on Mechatronics, 2022, 27, 904-915.	5.8	6
117	Vision-Force Guided Monitoring for Mating Connectors in Wiring Harness Assembly Systems. Journal of Robotics and Mechatronics, 2012, 24, 666-676.	1.0	6
118	Modeling and control of a novel narrow vehicle. , 2010, , .		5
119	Control of a rehabilitation robotic exoskeleton based on intentional reaching direction. , 2010, , .		5
120	On the stability of networked impulsive control systems. International Journal of Robust and Nonlinear Control, 2012, 22, 1952-1968.	3.7	5
121	Study of reinforcement learning based shared control of walking-aid robot. , 2013, , .		5
122	Velocity control of mobile wheeled inverted pendulum. International Journal of Modelling, Identification and Control, 2013, 19, 43.	0.2	5
123	Model Predictive Control for Human Following Rehabilitation Robot. , 2019, , .		5
124	Echo State Network-Enhanced Super-Twisting Control of Passive Gait Training Exoskeleton Driven by Pneumatic Muscles. IEEE/ASME Transactions on Mechatronics, 2022, 27, 5107-5118.	5.8	5
125	Dynamic surface control with a nonlinear disturbance observer for multiâ€degree of freedom underactuated mechanical systems. International Journal of Robust and Nonlinear Control, 2022, 32, 7809-7827.	3.7	5
126	Stability Analysis of Networked Impulsive Control Systems. , 2006, , .		4



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127	Dynamic model of three wheeled narrow tilting vehicle and corresponding experiment verification. , 2012, , .		4
128	A novel feature reduction method for real-time EMG pattern recognition system. , 2013, , .		4
129	Tandem stance avoidance using adaptive and asymmetric admittance control for fall prevention. , 2015, , .		4
130	Adaptive fuzzy sliding mode control for pneumatic muscle actuator. , 2015, , .		4
131	Leg hybrid rehabilitation based on hip-knee exoskeleton and ankle motion induced by FES. , 2016, , .		4
132	Limbs synergies based human motion intention estimation algorithm for using cane-type walking-aid robot. , 2017, , .		4
133	Design of Nonlinear Predictive Control for Pneumatic Muscle Actuator Based on Echo State Gaussian Process * *This work was supported by the National Natural Science Foundation of China under Grant 61473130, the Science Fund for Distinguished Young Scholars of Hubei Province (2015CFA047), the Fundamental Research Funds for the Central Universities (HUST: 2015TS028) and the Program for New Century Excellent Talents in University (NCET-12-0214). IFAC Papers Online, 2017, 50, 1952-1957.	0.9	4
134	Design and Control of a Soft Bending Pneumatic Actuator Based on Visual Feedback. , 2018, , .		4
135	Anti-swing Control in Manipulation of a Deformable Linear Object using Dynamic Surface Control. , 2018, , .		4
136	Dynamic Model of Exoskeleton Based on Pneumatic Muscle Actuators and Experiment Verification. , 2018, , .		4
137	T-S Fuzzy Logic Control with Genetic Algorithm Optimization for Pneumatic Muscle Actuator. , 2018, , .		4
138	Logistic Regression Based Multi-task, Multi-kernel Learning for Emotion Recognition. , 2021, , .		4
139	Nonlinear Internal Model Control Using Echo State Network for Pneumatic Muscle System. Journal of Computers, 2012, 7, .	0.4	4
140	Head-free, Human Gaze-driven Assistive Robotic System for Reaching and Grasping. , 2021, , .		4
141	Parametric Design Optimization of a Universal Supernumerary Robotic Limb. , 2021, , .		4
142	Improving the Robustness of Human-Machine Interactive Control for Myoelectric Prosthetic Hand During Arm Position Changing. Frontiers in Neurorobotics, 0, 16, .	2.8	4
143	Real time posture control for stability improvement of intelligent cane robot. , 2012, , .		3
144	Dynamic model of three wheeled Narrow Tilting Vehicle and optimal tilt controller design. , 2012, , .		3

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145	Sliding mode control with fuzzy compensator of pneumatic muscle actuator. International Journal of Computer Applications in Technology, 2012, 44, 257.	0.5	3
146	Fall detection for elderly by using an intelligent cane robot based on center of pressure (COP) stability theory. , 2014, , .		3
147	Dynamic Surface Control of Mobile Wheeled Inverted Pendulum Systems with Nonlinear Disturbance Observer. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 4505-4510.	0.4	3
148	Virtual friction model for control of cane robot. , 2015, , .		3
149	Design and Performance Evaluation of a Particle Filter-based Algorithm for Smoke Plume Path Tracking. , 2019, , .		3
150	Vibration Suppression of Deformable Linear Object Based on Vision Feedback. Lecture Notes in Control and Information Sciences, 2014, , 425-437.	1.0	3
151	Human intention estimation algorithm design for robot in human and robot cooperated cell assembly. , 2010, , .		2
152	Real-time fall and overturn prevention control for human-cane robotic system. , 2013, , .		2
153	Indoor localization system based on wearable posture sensors with incomplete observations. , 2014, , .		2
154	A high-order disturbance observer based sliding mode velocity control of mobile wheeled inverted pendulum systems. , 2016, , .		2
155	PSO-Optimized Fuzzy Control for Four-Rotor Unmanned Aerial Vehicle with Suspended Load. , 2018, , .		2
156	Hand Gesture Recognition Based on Multi-Classification Adaptive Neuro-Fuzzy Inference System and pMMG. , 2020, , .		2
157	Supervised Discriminative Sparse PCA with Adaptive Neighbors for Dimensionality Reduction. , 2020, , .		2
158	Reinforcement Learning Based Fast Self-Recalibrating Decoder for Intracortical Brainâ€“Machine Interface. Sensors, 2020, 20, 5528.	3.8	2
159	Force sensorless admittance control of body weight support system. Advanced Robotics, 2021, 35, 425-436.	1.8	2
160	Optimized Motion Control of an Intelligent Cane Robot for Easing Muscular Fatigue in the Elderly During Walking. Journal of Robotics and Mechatronics, 2013, 25, 1070-1077.	1.0	2
161	Measurements and Analyses of Walk Using a Novel Rollator Equipped with a Rotatable Chest Pad. Journal of Robotics and Mechatronics, 2022, 34, 18-27.	1.0	2
162	Modeling and control for UW-Car in rough terrain. , 2012, , .		1

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163	Nonlinear SVM based anomaly detection for manipulator assembly task. , 2012, , .		1
164	Fault Detection Algorithm for Thread Fastening by Robotic Manipulator. Journal of the Robotics Society of Japan, 2012, 30, 804-812.	0.1	1
165	An Electronic Travel Aid based on multi-sensor fusion using extended Kalman filter. , 2014, , .		1
166	Indoor localization with incomplete observation using set-membership filter. , 2015, , .		1
167	Development and experiment study of an intelligent walking-aid robot. International Journal of Modelling, Identification and Control, 2015, 24, 216.	0.2	1
168	Wearable sensor-based indoor localisation system considering incomplete observations. International Journal of Modelling, Identification and Control, 2015, 24, 291.	0.2	1
169	A direct adaptive fuzzy sliding mode controller and its application. , 2015, , .		1
170	Proxy-based sliding mode stabilization of a class of second-order nonlinear system. , 2017, , .		1
171	Impedance-Sliding Mode Control based Fall Prevention Motion Control Algorithm for Walking-aid Robot. , 2018, , .		1
172	Dynamic Modelling and Identification of a Soft Bending Pneumatic Actuator Based on Visual Recognition. , 2018, , .		1
173	Center Difference Set Membership Filter by Zonotopes for Nonlinear System. , 2018, , .		1
174	Nonlinear Disturbance Observer Based T-S Fuzzy Logic Control of Pneumatic Artificial Muscles. , 2019, , .		1
175	A Predictive Control for Pneumatic Muscle Actuators based Exoskeleton by Using MIMO Echo State Network. , 2019, , .		1
176	Improved Proxy-based Sliding Mode Control Integrated Adaptive Dynamic Programming For Pneumatic Muscle Actuators. , 2021, , .		1
177	A New Anthropomorphic Thumb Configuration With Passive Finger Torsion. , 2021, , .		1
178	Trajectory Tracking of Mobile Robots Based on Fuzzy Control and Extended State Observer. Lecture Notes in Electrical Engineering, 2020, , 697-706.	0.4	1
179	Real-time Fall Detection and Prevention Control Using Intelligent Cane for Human Operator. The Abstracts of the International Conference on Advanced Mechatronics Toward Evolutionary Fusion of IT and Mechatronics ICAM, 2010, 2010.5, 265-270.	0.0	1
180	Stabilization of an Inverted Pendulum Cart with a Balancing Mechanism by Consistent Trajectories in Acceleration Behavior. Journal of Robotics and Mechatronics, 2013, 25, 262-270.	1.0	1

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181	Modeling and Control of a New Narrow Vehicle. , 2014, , 1-43.		1
182	Peripheral Neural Interface. Advances in Experimental Medicine and Biology, 2019, 1101, 91-122.	1.6	1
183	Super Twisting Control of Passive Gait Training Exoskeleton Driven by Pneumatic Muscles. , 2019, , .		1
184	Stabilization of cluster in wireless sensor and actor network. , 2008, , .		0
185	Stochastic controlling tolerable fault of Network Control Systems. , 2008, , .		0
186	Deformable PCB based on connector mating method by using iHand for improving HRC performance efficiency. , 2011, , .		0
187	Aided sit to stand transfer by assistive robot and wearable sensors. , 2017, , .		0
188	Gait Phase Recognition Based on Air-pressure Mechanomyogram and Sensor Fusion. , 2021, , .		0
189	High Gain Finite-Time Trajectory Tracking Control of Pneumatic Muscle Actuator. Lecture Notes in Electrical Engineering, 2020, , 777-787.	0.4	0
190	Neural Decoding Based on Active Learning for Intracortical Brain-Machine Interfaces. , 2020, , .		0
191	Prescribed Performance-based Chattering-free Tracking Control for Pneumatic Muscle Actuators. , 2021, , .		0