

Jian Huang

List of Publications by Year in descending order

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191
papers

4,118
citations

136950

32
h-index

144013

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192
docs citations

192
times ranked

3212
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Interval Type-2 Fuzzy Disturbance Observer-Based Tâ€S Fuzzy Control for a Pneumatic Flexible Joint. IEEE Transactions on Industrial Electronics, 2022, 69, 5962-5972.	7.9	33
3	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
4	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
5	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
6	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
7	Adhesive and Hydrophobic Bilayer Hydrogel Enabled Onâ€Skin Biosensors for Highâ€Fidelity Classification of Human Emotion. Advanced Functional Materials, 2022, 32, .	14.9	58
8	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
9	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
10	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
11	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
12	Personalized Human Activity Recognition Based on Integrated Wearable Sensor and Transfer Learning. Sensors, 2021, 21, 885.	3.8	41
13	Force sensorless admittance control of body weight support system. Advanced Robotics, 2021, 35, 425-436.	1.8	2
14	Extended-State-Observer-Based Super Twisting Control for Pneumatic Muscle Actuators. Actuators, 2021, 10, 35.	2.3	8
15	Improved Proxy-based Sliding Mode Control Integrated Adaptive Dynamic Programming For Pneumatic Muscle Actuators. , 2021, , .		1
16	Logistic Regression Based Multi-task, Multi-kernel Learning for Emotion Recognition. , 2021, , .		4
17	Gait Phase Recognition Based on Air-pressure Mechanomyogram and Sensor Fusion. , 2021, , .		0
18	Supernumerary Robotic Limbs: A Review and Future Outlook. IEEE Transactions on Medical Robotics and Bionics, 2021, 3, 623-639.	3.2	32

#	ARTICLE	IF	CITATIONS
19	A New Anthropomorphic Thumb Configuration With Passive Finger Torsion. , 2021, , .		1
20	Solid oxide fuel cell (SOFC) performance evaluation, fault diagnosis and health control: A review. Journal of Power Sources, 2021, 505, 230058.	7.8	108
21	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
22	Head-free, Human Gaze-driven Assistive Robotic System for Reaching and Grasping. , 2021, , .		4
23	Prescribed Performance-based Chattering-free Tracking Control for Pneumatic Muscle Actuators. , 2021, , .		0
24	Parametric Design Optimization of a Universal Supernumerary Robotic Limb. , 2021, , .		4
25	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
26	Intelligent mobile walking-aids: perception, control and safety. Advanced Robotics, 2020, 34, 2-18.	1.8	10
27	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
28	On the Functional Equivalence of TSK Fuzzy Systems to Neural Networks, Mixture of Experts, CART, and Stacking Ensemble Regression. IEEE Transactions on Fuzzy Systems, 2020, 28, 2570-2580.	9.8	34
29	Hand Gesture Recognition Based on Multi-Classification Adaptive Neuro-Fuzzy Inference System and pMMG. , 2020, , .		2
30	Towards Environmentally Adaptive Odor Source Localization: Fuzzy Lévy Taxis Algorithm and Its Validation in Dynamic Odor Plumes. , 2020, , .		6
31	Supervised Discriminative Sparse PCA with Adaptive Neighbors for Dimensionality Reduction. , 2020, , .		2
32	Neural-network-based nonlinear model predictive tracking control of a pneumatic muscle actuator-driven exoskeleton. IEEE/CAA Journal of Automatica Sinica, 2020, 7, 1478-1488.	13.1	39
33	An Ultra-Sensitive Modular Hybrid EMG-FMG Sensor with Floating Electrodes. Sensors, 2020, 20, 4775.	3.8	10
34	Reinforcement Learning Based Fast Self-Recalibrating Decoder for Intracortical Brain-Machine Interface. Sensors, 2020, 20, 5528.	3.8	2
35	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
36	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

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37	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
38	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
39	Set-Membership filtering with incomplete observations. Information Sciences, 2020, 517, 37-51.	6.9	14
40	Optimize TSK Fuzzy Systems for Classification Problems: Minibatch Gradient Descent With Uniform Regularization and Batch Normalization. IEEE Transactions on Fuzzy Systems, 2020, 28, 3065-3075.	9.8	50
41	Trajectory Tracking of Mobile Robots Based on Fuzzy Control and Extended State Observer. Lecture Notes in Electrical Engineering, 2020, , 697-706.	0.4	1
42	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
43	High Gain Finite-Time Trajectory Tracking Control of Pneumatic Muscle Actuator. Lecture Notes in Electrical Engineering, 2020, , 777-787.	0.4	0
44	Neural Decoding Based on Active Learning for Intracortical Brain-Machine Interfaces. , 2020, , .		0
45	Fingertip Tactile Sensor With Single Sensing Element Based on FSR and PVDF. IEEE Sensors Journal, 2019, 19, 11100-11112.	4.7	18
46	Soft Rehabilitation and Nursing-Care Robots: A Review and Future Outlook. Applied Sciences (Switzerland), 2019, 9, 3102.	2.5	23
47	Nonlinear Disturbance Observer Based T-S Fuzzy Logic Control of Pneumatic Artificial Muscles. , 2019, , .		1
48	Adaptive Super-Twisting Control for Mobile Wheeled Inverted Pendulum Systems. Applied Sciences (Switzerland), 2019, 9, 2508.	2.5	7
49	Optimizing Control of Passive Gait Training Exoskeleton Driven by Pneumatic Muscles Using Switch-Mode Firefly Algorithm. Robotica, 2019, 37, 2087-2103.	1.9	13
50	Design, modelling and identification of a fiber-reinforced bending pneumatic muscle. Science China Information Sciences, 2019, 62, 1.	4.3	7
51	Model Predictive Control for Human Following Rehabilitation Robot. , 2019, , .		5
52	Design and Performance Evaluation of a Particle Filter-based Algorithm for Smoke Plume Path Tracking. , 2019, , .		3
53	Formation Tracking of Heterogeneous UGV-UAV Systems with Switching Directed Topologies. , 2019, , .		6
54	A Predictive Control for Pneumatic Muscle Actuators based Exoskeleton by Using MIMO Echo State Network. , 2019, , .		1

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55	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
56	A Wearable Activity Recognition Device Using Air-Pressure and IMU Sensors. IEEE Access, 2019, 7, 6611-6621.	4.2	28
57	An Echo State Gaussian Process-Based Nonlinear Model Predictive Control for Pneumatic Muscle Actuators. IEEE Transactions on Automation Science and Engineering, 2019, 16, 1071-1084.	5.2	50
58	Odor source localization algorithms on mobile robots: A review and future outlook. Robotics and Autonomous Systems, 2019, 112, 123-136.	5.1	129
59	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
60	Active learning for regression using greedy sampling. Information Sciences, 2019, 474, 90-105.	6.9	80
61	Peripheral Neural Interface. Advances in Experimental Medicine and Biology, 2019, 1101, 91-122.	1.6	1
62	Super Twisting Control of Passive Gait Training Exoskeleton Driven by Pneumatic Muscles. , 2019, , .		1
63	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
64	Data-Driven Human-Robot Coordination Based Walking State Monitoring With Cane-Type Robot. IEEE Access, 2018, 6, 8896-8908.	4.2	18
65	Set-Membership-Based Fault Detection and Isolation for Robotic Assembly of Electrical Connectors. IEEE Transactions on Automation Science and Engineering, 2018, 15, 160-171.	5.2	35
66	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
67	PSO-Optimized Fuzzy Control for Four-Rotor Unmanned Aerial Vehicle with Suspended Load. , 2018, , .		2
68	Design and Control of a Soft Bending Pneumatic Actuator Based on Visual Feedback. , 2018, , .		4
69	Impedance-Sliding Mode Control based Fall Prevention Motion Control Algorithm for Walking-aid Robot. , 2018, , .		1
70	Anti-swing Control in Manipulation of a Deformable Linear Object using Dynamic Surface Control. , 2018, , .		4
71	Dynamic Modelling and Identification of a Soft Bending Pneumatic Actuator Based on Visual Recognition. , 2018, , .		1
72	Dynamic Model of Exoskeleton Based on Pneumatic Muscle Actuators and Experiment Verification. , 2018, , .		4

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73	Center Difference Set Membership Filter by Zonotopes for Nonlinear System. , 2018, , .		1
74	T-S Fuzzy Logic Control with Genetic Algorithm Optimization for Pneumatic Muscle Actuator. , 2018, , .		4
75	Automatic Reading System for Analog Instruments Based on Computer Vision and Inspection Robot for Power Plant. , 2018, , .		10
76	A Switch-Mode Firefly Algorithm for Global Optimization. IEEE Access, 2018, 6, 54177-54184.	4.2	10
77	A Novel Coordinated Motion Fusion-Based Walking-Aid Robot System. Sensors, 2018, 18, 2761.	3.8	13
78	An Underactuated Prosthetic Hand with Coupled Metacarpophalangeal Joints. Journal of Advanced Computational Intelligence and Intelligent Informatics, 2018, 22, 674-682.	0.9	7
79	Electrospinning Sedimentary Microstructure Feedback Control by Tuning Substrate Linear Machine Velocity. IEEE Transactions on Industrial Electronics, 2017, 64, 8686-8694.	7.9	6
80	Sliding mode control with an extended disturbance observer for a class of underactuated system in cascaded form. Nonlinear Dynamics, 2017, 90, 2571-2582.	5.2	44
81	Limbs synergies based human motion intention estimation algorithm for using cane-type walking-aid robot. , 2017, , .		4
82	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-PapersOnLine, 2017, 50, 1952-1957.	0.9	4
83	Global path planning using modified firefly algorithm. , 2017, , .		13
84	Proxy-based sliding mode stabilization of a class of second-order nonlinear system. , 2017, , .		1
85	Aided sit to stand transfer by assistive robot and wearable sensors. , 2017, , .		0
86	Adaptive neural network control for quadrotor unmanned aerial vehicles. , 2017, , .		19
87	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
88	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
89	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
90	An Integrated Wireless Wearable Sensor System for Posture Recognition and Indoor Localization. Sensors, 2016, 16, 1825.	3.8	45

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91	A high-order disturbance observer based sliding mode velocity control of mobile wheeled inverted pendulum systems. , 2016, , .		2
92	Human-robot coordination stability for fall detection and prevention using cane robot. , 2016, , .		10
93	Design of interval type-2 fuzzy logic controller for mobile wheeled inverted pendulum. , 2016, , .		6
94	Echo state network based predictive control with particle swarm optimization for pneumatic muscle actuator. Journal of the Franklin Institute, 2016, 353, 2761-2782.	3.4	43
95	Leg hybrid rehabilitation based on hip-knee exoskeleton and ankle motion induced by FES. , 2016, , .		4
96	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
97	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
98	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
99	Fall Detection and Prevention Control Using Walking-Aid Cane Robot. IEEE/ASME Transactions on Mechatronics, 2016, 21, 625-637.	5.8	73
100	Indoor localization with incomplete observation using set-membership filter. , 2015, , .		1
101	Multi-sensor based human motion intention recognition algorithm for walking-aid robot. , 2015, , .		8
102	Development and experiment study of an intelligent walking-aid robot. International Journal of Modelling, Identification and Control, 2015, 24, 216.	0.2	1
103	Tandem stance avoidance using adaptive and asymmetric admittance control for fall prevention. , 2015, , .		4
104	Adaptive fuzzy sliding mode control for pneumatic muscle actuator. , 2015, , .		4
105	Virtual friction model for control of cane robot. , 2015, , .		3
106	Wearable sensor-based indoor localisation system considering incomplete observations. International Journal of Modelling, Identification and Control, 2015, 24, 291.	0.2	1
107	Posture estimation and human support using wearable sensors and walking-aid robot. Robotics and Autonomous Systems, 2015, 73, 24-43.	5.1	34
108	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

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109	A direct adaptive fuzzy sliding mode controller and its application. , 2015, , .		1
110	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
111	Reinforcement learning-based shared control for walking-aid robot and its experimental verification. Advanced Robotics, 2015, 29, 1463-1481.	1.8	31
112	Motion Control and Fall Detection of Intelligent Cane Robot. Springer Tracts in Advanced Robotics, 2015, , 317-337.	0.4	8
113	Fall detection for elderly by using an intelligent cane robot based on center of pressure (COP) stability theory. , 2014, , .		3
114	Design and control of an intelligent walking-aid robot. , 2014, , .		9
115	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
116	An Electronic Travel Aid based on multi-sensor fusion using extended Kalman filter. , 2014, , .		1
117	Indoor localization system based on wearable posture sensors with incomplete observations. , 2014, , .		2
118	Vibration damping in manipulation of deformable linear objects using sliding mode control. Advanced Robotics, 2014, 28, 157-172.	1.8	18
119	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
120	A real-time EMG pattern recognition method for virtual myoelectric hand control. Neurocomputing, 2014, 136, 345-355.	5.9	103
121	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
122	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
123	Vibration Suppression of Deformable Linear Object Based on Vision Feedback. Lecture Notes in Control and Information Sciences, 2014, , 425-437.	1.0	3
124	Modeling and Control of a New Narrow Vehicle. , 2014, , 1-43.		1
125	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
126	Control of intelligent cane robot considering usage of ordinary cane. , 2013, , .		9

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127	Fault detection algorithm for external thread fastening by robotic manipulator using linear support vector machine classifier. , 2013, , .		15
128	Human-Walking-Intention-Based Motion Control of an Omnidirectional-Type Cane Robot. IEEE/ASME Transactions on Mechatronics, 2013, 18, 285-296.	5.8	157
129	Fall detection and prevention in the elderly based on the ZMP stability control. , 2013, , .		20
130	Study of reinforcement learning based shared control of walking-aid robot. , 2013, , .		5
131	Real-time fall and overturn prevention control for human-cane robotic system. , 2013, , .		2
132	Fall detection for the elderly using a cane robot based on ZMP estimation. , 2013, , .		7
133	A novel feature reduction method for real-time EMG pattern recognition system. , 2013, , .		4
134	Velocity control of mobile wheeled inverted pendulum. International Journal of Modelling, Identification and Control, 2013, 19, 43.	0.2	5
135	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
136	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
137	Modeling and control for UW-Car in rough terrain. , 2012, , .		1
138	Nonlinear SVM based anomaly detection for manipulator assembly task. , 2012, , .		1
139	Real time posture control for stability improvement of intelligent cane robot. , 2012, , .		3
140	Adaptive sliding mode control for manipulating deformable linear object with input saturation. , 2012, , .		7
141	Dynamic model of three wheeled narrow tilting vehicle and corresponding experiment verification. , 2012, , .		4
142	i-Hand: An intelligent robotic hand for fast and accurate assembly in electronic manufacturing. , 2012, , .		8
143	Dynamic model of three wheeled Narrow Tilting Vehicle and optimal tilt controller design. , 2012, , .		3
144	Development of a width-changeable intelligent walking-aid robot. , 2012, , .		15

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145	Design of a wearable rehabilitation robot integrated with functional electrical stimulation. , 2012, , .		9
146	Optimal posture control for stability of intelligent cane robot. , 2012, , .		12
147	Sliding mode control with fuzzy compensator of pneumatic muscle actuator. International Journal of Computer Applications in Technology, 2012, 44, 257.	0.5	3
148	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
149	Fault Detection Algorithm for Thread Fastening by Robotic Manipulator. Journal of the Robotics Society of Japan, 2012, 30, 804-812.	0.1	1
150	On the stability of networked impulsive control systems. International Journal of Robust and Nonlinear Control, 2012, 22, 1952-1968.	3.7	5
151	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
152	Nonlinear Internal Model Control Using Echo State Network for Pneumatic Muscle System. Journal of Computers, 2012, 7, .	0.4	4
153	Vision-Force Guided Monitoring for Mating Connectors in Wiring Harness Assembly Systems. Journal of Robotics and Mechatronics, 2012, 24, 666-676.	1.0	6
154	A novel fall prevention scheme for intelligent cane robot by using a motor driven universal joint. , 2011, , .		11
155	Skill-based vibration suppression in manipulation of deformable linear objects. , 2011, , .		6
156	Deformable PCB based on connector mating method by using iHand for improving HRC performance efficiency. , 2011, , .		0
157	Control of upper-limb power-assist exoskeleton based on motion intention recognition. , 2011, , .		10
158	Motion control of intelligent cane robot under normal and abnormal walking condition. , 2011, , .		10
159	An assembly strategy scheduling method for human and robot coordinated cell manufacturing. International Journal of Intelligent Computing and Cybernetics, 2011, 4, 487-510.	2.7	50
160	Stochastic switched controller design of networked control systems with a random long delay. Asian Journal of Control, 2011, 13, 255-264.	3.0	12
161	Assembly strategy modeling and selection for human and robot coordinated cell assembly. , 2011, , .		7
162	Assembly strategy modeling and selection for human and robot coordinated cell assembly. , 2011, , .		7

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163	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
164	Human intention estimation algorithm design for robot in human and robot cooperated cell assembly. , 2010, , .		2
165	Robust Model-Based Online Fault Detection for Mating Process of Electric Connectors in Robotic Wiring Harness Assembly Systems. IEEE Transactions on Control Systems Technology, 2010, 18, 1207-1215.	5.2	40
166	Sliding-Mode Velocity Control of Mobile-Wheeled Inverted-Pendulum Systems. IEEE Transactions on Robotics, 2010, 26, 750-758.	10.3	201
167	Modeling and control of a novel narrow vehicle. , 2010, , .		5
168	Control of a rehabilitation robotic exoskeleton based on intentional reaching direction. , 2010, , .		5
169	A Wearable Rehabilitation Robotic Hand Driven by PM-TS Actuators. Lecture Notes in Computer Science, 2010, , 440-450.	1.3	25
170	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
171	Optimal braking control for UW-Car using sliding mode. , 2009, , .		7
172	Fuzzy PID control of a wearable rehabilitation robotic hand driven by pneumatic muscles. , 2009, , .		21
173	Stochastic fault tolerant control of networked control systems. Journal of the Franklin Institute, 2009, 346, 1006-1020.	3.4	36
174	Fuzzy support vector machine for classification of EEG signals using wavelet-based features. Medical Engineering and Physics, 2009, 31, 858-865.	1.7	120
175	Robust stability conditions for remote SISO DMC controller in networked control systems. Journal of Process Control, 2009, 19, 743-750.	3.3	21
176	Hybrid vision-force guided fault tolerant robotic assembly for electric connectors. , 2009, , .		8
177	Sliding mode tracking for actuators comprising pneumatic muscle and torsion spring. , 2009, , .		8
178	Evolutionary artificial potential field method based manipulator path planning for safe robotic assembly. , 2009, , .		9
179	Robust velocity sliding mode control of mobile wheeled inverted pendulum systems. , 2009, , .		8
180	Model-Based Intelligent Fault Detection and Diagnosis for Mating Electric Connectors in Robotic Wiring Harness Assembly Systems. IEEE/ASME Transactions on Mechatronics, 2008, 13, 86-94.	5.8	57

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181	Motion control of omni-directional type cane robot based on human intention. , 2008, , .		15
182	Study of Fall Detection Using Intelligent Cane Based on Sensor Fusion. , 2008, , .		21
183	Stabilization of cluster in wireless sensor and actor network. , 2008, , .		0
184	Fault-tolerant mating process of electric connectors in robotic wiring harness assembly systems. , 2008, , .		6
185	Stochastic controlling tolerable fault of Network Control Systems. , 2008, , .		0
186	Dynamic modeling and simulation of manipulating deformable linear objects. , 2008, , .		13
187	Modeling for Mating Process of Electric Connectors in Robotic Wiring Harness Assembly Systems. , 2007, , .		7
188	Model-based Robust Online Fault Detection for Mating Process of Electric Connectors in Robotic Wiring Harness Assembly Systems. , 2007, , .		8
189	Stability Analysis of Networked Impulsive Control Systems. , 2006, , .		4
190	Multi-Class Support Vector Machines for Brain Neural Signals Recognition. , 2006, , .		6
191	Improving the Robustness of Human-Machine Interactive Control for Myoelectric Prosthetic Hand During Arm Position Changing. <i>Frontiers in Neurorobotics</i> , 0, 16, .	2.8	4