

Zhijun Li

List of Publications by Year in descending order

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245
papers

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16411

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246
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246
times ranked

7169
citing authors

#	ARTICLE	IF	CITATIONS
1	Neural Control of Bimanual Robots With Guaranteed Global Stability and Motion Precision. IEEE Transactions on Industrial Informatics, 2017, 13, 1162-1171.	7.2	328
2	Adaptive Parameter Estimation and Control Design for Robot Manipulators With Finite-Time Convergence. IEEE Transactions on Industrial Electronics, 2018, 65, 8112-8123.	5.2	324
3	Trajectory-Tracking Control of Mobile Robot Systems Incorporating Neural-Dynamic Optimized Model Predictive Approach. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2016, 46, 740-749.	5.9	303
4	Teleoperation Control Based on Combination of Wave Variable and Neural Networks. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2017, 47, 2125-2136.	5.9	287
5	Neural Network-Based Motion Control of an Underactuated Wheeled Inverted Pendulum Model. IEEE Transactions on Neural Networks and Learning Systems, 2014, 25, 2004-2016.	7.2	256
6	Robot Learning System Based on Adaptive Neural Control and Dynamic Movement Primitives. IEEE Transactions on Neural Networks and Learning Systems, 2019, 30, 777-787.	7.2	237
7	A survey of human-centered intelligent robots: issues and challenges. IEEE/CAA Journal of Automatica Sinica, 2017, 4, 602-609.	8.5	236
8	Adaptive Impedance Control for an Upper Limb Robotic Exoskeleton Using Biological Signals. IEEE Transactions on Industrial Electronics, 2017, 64, 1664-1674.	5.2	235
9	Finite-Time Convergence Adaptive Fuzzy Control for Dual-Arm Robot With Unknown Kinematics and Dynamics. IEEE Transactions on Fuzzy Systems, 2019, 27, 574-588.	6.5	220
10	Physical Human-Robot Interaction of a Robotic Exoskeleton By Admittance Control. IEEE Transactions on Industrial Electronics, 2018, 65, 9614-9624.	5.2	215
11	sEMG-Based Joint Force Control for an Upper-Limb Power-Assist Exoskeleton Robot. IEEE Journal of Biomedical and Health Informatics, 2014, 18, 1043-1050.	3.9	207
12	Adaptive Fuzzy Control for Coordinated Multiple Robots With Constraint Using Impedance Learning. IEEE Transactions on Cybernetics, 2019, 49, 3052-3063.	6.2	207
13	Fuzzy Approximation-Based Adaptive Backstepping Control of an Exoskeleton for Human Upper Limbs. IEEE Transactions on Fuzzy Systems, 2015, 23, 555-566.	6.5	206
14	Nonlinear Disturbance Observer-Based Control Design for a Robotic Exoskeleton Incorporating Fuzzy Approximation. IEEE Transactions on Industrial Electronics, 2015, 62, 5763-5775.	5.2	198
15	Trajectory Planning and Optimized Adaptive Control for a Class of Wheeled Inverted Pendulum Vehicle Models. IEEE Transactions on Cybernetics, 2013, 43, 24-36.	6.2	192
16	Development and Learning Control of a Human Limb With a Rehabilitation Exoskeleton. IEEE Transactions on Industrial Electronics, 2014, 61, 3776-3785.	5.2	192
17	Adaptive Fuzzy Control for Multilateral Cooperative Teleoperation of Multiple Robotic Manipulators Under Random Network-Induced Delays. IEEE Transactions on Fuzzy Systems, 2014, 22, 437-450.	6.5	170
18	Interface Design of a Physical Human-Robot Interaction System for Human Impedance Adaptive Skill Transfer. IEEE Transactions on Automation Science and Engineering, 2018, 15, 329-340.	3.4	168

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19	Admittance-Based Controller Design for Physical Human-Robot Interaction in the Constrained Task Space. IEEE Transactions on Automation Science and Engineering, 2020, 17, 1937-1949.	3.4	167
20	Adaptive Neural Control of Uncertain MIMO Nonlinear Systems With State and Input Constraints. IEEE Transactions on Neural Networks and Learning Systems, 2017, 28, 1318-1330.	7.2	163
21	Adaptive Robust Motion/Force Control of Holonomic-Constrained Nonholonomic Mobile Manipulators. IEEE Transactions on Systems, Man, and Cybernetics, 2007, 37, 607-616.	5.5	157
22	Asymmetric Bimanual Control of Dual-Arm Exoskeletons for Human-Cooperative Manipulations. IEEE Transactions on Robotics, 2018, 34, 264-271.	7.3	155
23	Adaptive robust coordinated control of multiple mobile manipulators interacting with rigid environments. Automatica, 2010, 46, 2028-2034.	3.0	148
24	Trilateral Teleoperation of Adaptive Fuzzy Force/Motion Control for Nonlinear Teleoperators With Communication Random Delays. IEEE Transactions on Fuzzy Systems, 2013, 21, 610-624.	6.5	148
25	Neural Networks Enhanced Adaptive Admittance Control of Optimized Robot-Environment Interaction. IEEE Transactions on Cybernetics, 2019, 49, 2568-2579.	6.2	144
26	A DMPs-Based Framework for Robot Learning and Generalization of Humanlike Variable Impedance Skills. IEEE/ASME Transactions on Mechatronics, 2018, 23, 1193-1203.	3.7	142
27	Reinforcement Learning of Manipulation and Grasping Using Dynamical Movement Primitives for a Humanoidlike Mobile Manipulator. IEEE/ASME Transactions on Mechatronics, 2018, 23, 121-131.	3.7	142
28	Constrained Multilegged Robot System Modeling and Fuzzy Control With Uncertain Kinematics and Dynamics Incorporating Foot Force Optimization. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2016, 46, 1-15.	5.9	135
29	Multi-Sensor Guided Hand Gesture Recognition for a Teleoperated Robot Using a Recurrent Neural Network. IEEE Robotics and Automation Letters, 2021, 6, 6039-6045.	3.3	132
30	Reinforcement Learning Control of a Flexible Two-Link Manipulator: An Experimental Investigation. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 7326-7336.	5.9	130
31	High-Order Disturbance-Observer-Based Sliding Mode Control for Mobile Wheeled Inverted Pendulum Systems. IEEE Transactions on Industrial Electronics, 2020, 67, 2030-2041.	5.2	129
32	Model Predictive Control of Nonholonomic Chained Systems Using General Projection Neural Networks Optimization. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2015, 45, 1313-1321.	5.9	125
33	Neural-Dynamic-Method-Based Dual-Arm CMG Scheme With Time-Varying Constraints Applied to Humanoid Robots. IEEE Transactions on Neural Networks and Learning Systems, 2015, 26, 3251-3262.	7.2	121
34	Adaptive Neural Control of a Kinematically Redundant Exoskeleton Robot Using Brain-Machine Interfaces. IEEE Transactions on Neural Networks and Learning Systems, 2019, 30, 3558-3571.	7.2	111
35	Adaptive Neural Network Based Variable Stiffness Control of Uncertain Robotic Systems Using Disturbance Observer. IEEE Transactions on Industrial Electronics, 2017, 64, 2236-2245.	5.2	110
36	Robust Stabilization of a Wheeled Mobile Robot Using Model Predictive Control Based on Neurodynamics Optimization. IEEE Transactions on Industrial Electronics, 2017, 64, 505-516.	5.2	109

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37	Mind Control of a Robotic Arm With Visual Fusion Technology. IEEE Transactions on Industrial Informatics, 2018, 14, 3822-3830.	7.2	109
38	Hybrid Brain/Muscle Signals Powered Wearable Walking Exoskeleton Enhancing Motor Ability in Climbing Stairs Activity. IEEE Transactions on Medical Robotics and Bionics, 2019, 1, 218-227.	2.1	104
39	Design and Adaptive Control for an Upper Limb Robotic Exoskeleton in Presence of Input Saturation. IEEE Transactions on Neural Networks and Learning Systems, 2019, 30, 97-108.	7.2	98
40	Neural Network Approximation Based Near-Optimal Motion Planning With Kinodynamic Constraints Using RRT. IEEE Transactions on Industrial Electronics, 2018, 65, 8718-8729.	5.2	95
41	Force Sensorless Admittance Control for Teleoperation of Uncertain Robot Manipulator Using Neural Networks. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 3282-3292.	5.9	95
42	A Survey of the Four Pillars for Small Object Detection: Multiscale Representation, Contextual Information, Super-Resolution, and Region Proposal. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 936-953.	5.9	94
43	Adaptive fuzzy logic control of dynamic balance and motion for wheeled inverted pendulums. Fuzzy Sets and Systems, 2009, 160, 1787-1803.	1.6	91
44	Disturbance Observer-Based Neural Network Control of Cooperative Multiple Manipulators With Input Saturation. IEEE Transactions on Neural Networks and Learning Systems, 2020, 31, 1735-1746.	7.2	91
45	Contact-Force Distribution Optimization and Control for Quadruped Robots Using Both Gradient and Adaptive Neural Networks. IEEE Transactions on Neural Networks and Learning Systems, 2014, 25, 1460-1473.	7.2	87
46	Direct adaptive controller for uncertain MIMO dynamic systems with time-varying delay and dead-zone inputs. Automatica, 2016, 63, 287-291.	3.0	86
47	Decentralized Fuzzy Control of Multiple Cooperating Robotic Manipulators With Impedance Interaction. IEEE Transactions on Fuzzy Systems, 2015, 23, 1044-1056.	6.5	85
48	Brain-Machine Interface and Visual Compressive Sensing-Based Teleoperation Control of an Exoskeleton Robot. IEEE Transactions on Fuzzy Systems, 2017, 25, 58-69.	6.5	84
49	Human Cooperative Wheelchair With Brain-Machine Interaction Based on Shared Control Strategy. IEEE/ASME Transactions on Mechatronics, 2017, 22, 185-195.	3.7	84
50	Asymmetric Bounded Neural Control for an Uncertain Robot by State Feedback and Output Feedback. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2019, , 1-12.	5.9	84
51	An Improved ACO Algorithm Optimized Fuzzy PID Controller for Load Frequency Control in Multi Area Interconnected Power Systems. IEEE Access, 2020, 8, 6429-6447.	2.6	84
52	Advanced landfill leachate treatment using iron-carbon microelectrolysis- Fenton process: Process optimization and column experiments. Journal of Hazardous Materials, 2016, 318, 460-467.	6.5	83
53	Model Predictive Tracking Control of Nonholonomic Mobile Robots With Coupled Input Constraints and Unknown Dynamics. IEEE Transactions on Industrial Informatics, 2019, 15, 3196-3205.	7.2	82
54	Asymmetric Cooperation Control of Dual-Arm Exoskeletons Using Human Collaborative Manipulation Models. IEEE Transactions on Cybernetics, 2022, 52, 12126-12139.	6.2	79

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55	Robust adaptive control of coordinated multiple mobile manipulators. <i>Mechatronics</i> , 2008, 18, 239-250.	2.0	78
56	Vision-Based Model Predictive Control for Steering of a Nonholonomic Mobile Robot. <i>IEEE Transactions on Control Systems Technology</i> , 2015, , 1-1.	3.2	78
57	Disturbance Observer-Based Fuzzy Control of Uncertain MIMO Mechanical Systems With Input Nonlinearities and its Application to Robotic Exoskeleton. <i>IEEE Transactions on Cybernetics</i> , 2017, 47, 984-994.	6.2	76
58	Adaptive Neural Network Control for Robotic Manipulators With Unknown Deadzone. <i>IEEE Transactions on Cybernetics</i> , 2018, 48, 2670-2682.	6.2	73
59	Adaptive Robust Dynamic Balance and Motion Controls of Mobile Wheeled Inverted Pendulums. <i>IEEE Transactions on Control Systems Technology</i> , 2009, 17, 233-241.	3.2	68
60	Modification Strategies with Inorganic Acids for Efficient Photocatalysts by Promoting the Adsorption of O_2 . <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 22727-22740.	4.0	68
61	Vision-Based Human Tracking Control of a Wheeled Inverted Pendulum Robot. <i>IEEE Transactions on Cybernetics</i> , 2016, 46, 2423-2434.	6.2	68
62	Neural-Dynamic Optimization-Based Model Predictive Control for Tracking and Formation of Nonholonomic Multirobot Systems. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2018, 29, 6113-6122.	7.2	68
63	A Learning-Based Hierarchical Control Scheme for an Exoskeleton Robot in Human-Robot Cooperative Manipulation. <i>IEEE Transactions on Cybernetics</i> , 2020, 50, 112-125.	6.2	68
64	Decentralised adaptive fuzzy control of coordinated multiple mobile manipulators interacting with non-rigid environments. <i>IET Control Theory and Applications</i> , 2013, 7, 397-410.	1.2	67
65	Visual Servoing of Constrained Mobile Robots Based on Model Predictive Control. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2017, 47, 1428-1438.	5.9	67
66	Human-in-the-Loop Control of a Wearable Lower Limb Exoskeleton for Stable Dynamic Walking. <i>IEEE/ASME Transactions on Mechatronics</i> , 2021, 26, 2700-2711.	3.7	66
67	Human-in-the-Loop Control of Soft Exosuits Using Impedance Learning on Different Terrains. <i>IEEE Transactions on Robotics</i> , 2022, 38, 2979-2993.	7.3	66
68	Global adaptive tracking control of robot manipulators using neural networks with finite-time learning convergence. <i>International Journal of Control, Automation and Systems</i> , 2017, 15, 1916-1924.	1.6	64
69	Adaptive Admittance Control for an Ankle Exoskeleton Using an EMG-Driven Musculoskeletal Model. <i>Frontiers in Neurorobotics</i> , 2018, 12, 16.	1.6	64
70	Human-Cooperative Control of a Wearable Walking Exoskeleton for Enhancing Climbing Stair Activities. <i>IEEE Transactions on Industrial Electronics</i> , 2020, 67, 3086-3095.	5.2	64
71	Boosting-Based EMG Patterns Classification Scheme for Robustness Enhancement. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2013, 17, 545-552.	3.9	61
72	Robust Adaptive Control of Cooperating Mobile Manipulators With Relative Motion. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , 2009, 39, 103-116.	5.5	57

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73	Bilateral Teleoperation of Holonomic Constrained Robotic Systems With Time-Varying Delays. IEEE Transactions on Instrumentation and Measurement, 2013, 62, 752-765.	2.4	57
74	Motor-Imagery-Based Teleoperation of a Dual-Arm Robot Performing Manipulation Tasks. IEEE Transactions on Cognitive and Developmental Systems, 2019, 11, 414-424.	2.6	56
75	Trajectory prediction of cyclist based on dynamic Bayesian network and long short-term memory model at unsignalized intersections. Science China Information Sciences, 2021, 64, 1.	2.7	56
76	Ceramic Coatings of LA141 Alloy Formed by Plasma Electrolytic Oxidation for Corrosion Protection. ACS Applied Materials & Interfaces, 2011, 3, 3682-3690.	4.0	54
77	Adaptive Motion/Force Control of Mobile Under-Actuated Manipulators With Dynamics Uncertainties by Dynamic Coupling and Output Feedback. IEEE Transactions on Control Systems Technology, 2010, 18, 1068-1079.	3.2	53
78	Robust adaptive motion control for underwater remotely operated vehicles with velocity constraints. International Journal of Control, Automation and Systems, 2012, 10, 421-429.	1.6	52
79	Human-Inspired Control of Dual-Arm Exoskeleton Robots With Force and Impedance Adaptation. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2020, 50, 5296-5305.	5.9	51
80	Robust Tube-Based Predictive Control for Visual Servoing of Constrained Differential-Drive Mobile Robots. IEEE Transactions on Industrial Electronics, 2018, 65, 3437-3446.	5.2	50
81	Skill transfer learning for autonomous robots and human-robot cooperation: A survey. Robotics and Autonomous Systems, 2020, 128, 103515.	3.0	50
82	Ankle Joint Torque Estimation Using an EMG-Driven Neuromusculoskeletal Model and an Artificial Neural Network Model. IEEE Transactions on Automation Science and Engineering, 2021, 18, 564-573.	3.4	50
83	Effects of alternate partial root-zone irrigation on soil microorganism and maize growth. Plant and Soil, 2008, 302, 45-52.	1.8	49
84	Adaptive control with a fuzzy tuner for cable-based rehabilitation robot. International Journal of Control, Automation and Systems, 2016, 14, 865-875.	1.6	49
85	Adaptive neural-fuzzy control of uncertain constrained multiple coordinated nonholonomic mobile manipulators. Engineering Applications of Artificial Intelligence, 2008, 21, 985-1000.	4.3	48
86	Human-Cooperative Control Design of a Walking Exoskeleton for Body Weight Support. IEEE Transactions on Industrial Informatics, 2020, 16, 2985-2996.	7.2	47
87	Development of Sensory-Motor Fusion-Based Manipulation and Grasping Control for a Robotic Hand-Eye System. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2016, , 1-12.	5.9	46
88	Robust Control of Motion/Force for Robotic Manipulators With Random Time Delays. IEEE Transactions on Control Systems Technology, 2013, 21, 1708-1718.	3.2	45
89	Robust Vision-Based Tube Model Predictive Control of Multiple Mobile Robots for Leader-Follower Formation. IEEE Transactions on Industrial Electronics, 2020, 67, 3096-3106.	5.2	45
90	Constrained Adaptive Robust Trajectory Tracking for WIP Vehicles Using Model Predictive Control and Extended State Observer. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2018, 48, 733-742.	5.9	44

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91	Reference Trajectory Reshaping Optimization and Control of Robotic Exoskeletons for Human-Robot Co-Manipulation. IEEE Transactions on Cybernetics, 2020, 50, 3740-3751.	6.2	44
92	Dynamic Balance Optimization and Control of Quadruped Robot Systems With Flexible Joints. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2016, 46, 1338-1351.	5.9	43
93	Evolution Strategies Learning With Variable Impedance Control for Grasping Under Uncertainty. IEEE Transactions on Industrial Electronics, 2019, 66, 7788-7799.	5.2	42
94	Multisensor-Based Navigation and Control of a Mobile Service Robot. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 2624-2634.	5.9	42
95	DMP-Based Motion Generation for a Walking Exoskeleton Robot Using Reinforcement Learning. IEEE Transactions on Industrial Electronics, 2020, 67, 3830-3839.	5.2	41
96	Decentralised adaptive control of cooperating Robotic manipulators with disturbance observers. IET Control Theory and Applications, 2014, 8, 515-521.	1.2	37
97	Synergy-Based Control of Assistive Lower-Limb Exoskeletons by Skill Transfer. IEEE/ASME Transactions on Mechatronics, 2020, 25, 705-715.	3.7	36
98	EEG-Based Volitional Control of Prosthetic Legs for Walking in Different Terrains. IEEE Transactions on Automation Science and Engineering, 2021, 18, 530-540.	3.4	36
99	Adaptive sliding-mode control for two-wheeled inverted pendulum vehicle based on zero-dynamics theory. Nonlinear Dynamics, 2014, 76, 459-471.	2.7	35
100	Deep Neural Network Approach in EMG-Based Force Estimation for Human-Robot Interaction. IEEE Transactions on Artificial Intelligence, 2021, 2, 404-412.	3.4	35
101	Adaptive neural network control of bilateral teleoperation with unsymmetrical stochastic delays and unmodeled dynamics. International Journal of Robust and Nonlinear Control, 2014, 24, 1628-1652.	2.1	34
102	Adaptive Control and Optimization of Mobile Manipulation Subject to Input Saturation and Switching Constraints. IEEE Transactions on Automation Science and Engineering, 2019, 16, 1543-1555.	3.4	33
103	Development of a Human-Robot Hybrid Intelligent System Based on Brain Teleoperation and Deep Learning SLAM. IEEE Transactions on Automation Science and Engineering, 2019, 16, 1664-1674.	3.4	32
104	Coordination Control of a Dual-Arm Exoskeleton Robot Using Human Impedance Transfer Skills. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2019, 49, 954-963.	5.9	32
105	Enhanced visible photocatalytic activity of nanocrystalline γ -Fe ₂ O ₃ by coupling phosphate-functionalized graphene. RSC Advances, 2013, 3, 7438.	1.7	31
106	Adaptive Proxy-Based Robust Control Integrated With Nonlinear Disturbance Observer for Pneumatic Muscle Actuators. IEEE/ASME Transactions on Mechatronics, 2020, 25, 1756-1764.	3.7	31
107	Skill Learning Strategy Based on Dynamic Motion Primitives for Human-Robot Cooperative Manipulation. IEEE Transactions on Cognitive and Developmental Systems, 2021, 13, 105-117.	2.6	31
108	Adaptive robust controls of biped robots. IET Control Theory and Applications, 2013, 7, 161-175.	1.2	30

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109	Motion Tracking Control Design for a Class of Nonholonomic Mobile Robot Systems. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2020, 50, 2150-2156.	5.9	30
110	Learning-Based Probabilistic LTL Motion Planning With Environment and Motion Uncertainties. IEEE Transactions on Automatic Control, 2021, 66, 2386-2392.	3.6	30
111	Human-Robot Cooperation Control Based on Trajectory Deformation Algorithm for a Lower Limb Rehabilitation Robot. IEEE/ASME Transactions on Mechatronics, 2021, 26, 3128-3138.	3.7	30
112	Adaptive fuzzy-based motion generation and control of mobile under-actuated manipulators. Engineering Applications of Artificial Intelligence, 2014, 30, 86-95.	4.3	29
113	Development of a hybrid motion capture method using MYO armband with application to teleoperation. , 2016, , .		27
114	Brain-Robot Machine Interfacing-Based Teleoperation of Multiple Coordinated Mobile Robots. IEEE Transactions on Industrial Electronics, 2017, 64, 5161-5170.	5.2	27
115	Cooperative Manipulation of Wearable Dual-Arm Exoskeletons Using Force Communication Between Partners. IEEE Transactions on Industrial Electronics, 2020, 67, 6629-6638.	5.2	27
116	Whole-Body Control of an Autonomous Mobile Manipulator Using Series Elastic Actuators. IEEE/ASME Transactions on Mechatronics, 2021, 26, 657-667.	3.7	27
117	Brain-Robot Interface-Based Navigation Control of a Mobile Robot in Corridor Environments. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2020, 50, 3047-3058.	5.9	26
118	Guest Editorial An Overview of Biomedical Robotics and Bio-Mechatronics Systems and Applications. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2016, 46, 869-874.	5.9	25
119	Spatiotemporal Graph Convolution Multifusion Network for Urban Vehicle Emission Prediction. IEEE Transactions on Neural Networks and Learning Systems, 2021, 32, 3342-3354.	7.2	25
120	Human-in-the-Loop Control Strategy of Unilateral Exoskeleton Robots for Gait Rehabilitation. IEEE Transactions on Cognitive and Developmental Systems, 2021, 13, 57-66.	2.6	25
121	RGB-D sensor-based visual target detection and tracking for an intelligent wheelchair robot in indoors environments. International Journal of Control, Automation and Systems, 2015, 13, 521-529.	1.6	23
122	Cooperative Manipulation for a Mobile Dual-Arm Robot Using Sequences of Dynamic Movement Primitives. IEEE Transactions on Cognitive and Developmental Systems, 2020, 12, 18-29.	2.6	23
123	HSTA: A Hierarchical Spatio-Temporal Attention Model for Trajectory Prediction. IEEE Transactions on Vehicular Technology, 2021, 70, 11295-11307.	3.9	23
124	Intelligent compliant force/motion control of nonholonomic mobile manipulator working on the nonrigid surface. Neural Computing and Applications, 2006, 15, 204-216.	3.2	22
125	Development of a robotic teaching interface for human to human skill transfer. , 2016, , .		22
126	RGB-D sensor-based visual SLAM for localization and navigation of indoor mobile robot. , 2016, , .		22

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127	Combined Sensing, Cognition, Learning, and Control for Developing Future Neuro-Robotics Systems: A Survey. IEEE Transactions on Cognitive and Developmental Systems, 2019, 11, 148-161.	2.6	22
128	Brain-Actuated Control of Dual-Arm Robot Manipulation With Relative Motion. IEEE Transactions on Cognitive and Developmental Systems, 2019, 11, 51-62.	2.6	22
129	Coordinated Dynamic Control in the Task Space for Redundantly Actuated Cable-Driven Parallel Robots. IEEE/ASME Transactions on Mechatronics, 2021, 26, 2396-2407.	3.7	21
130	Assimilation Control of a Robotic Exoskeleton for Physical Human-Robot Interaction. IEEE Robotics and Automation Letters, 2022, 7, 2977-2984.	3.3	20
131	Shared control of a brain-actuated intelligent wheelchair. , 2014, , .		19
132	Multiobjective Scheduling Strategy With Genetic Algorithm and Time-Enhanced A* Planning for Autonomous Parking Robotics in High-Density Unmanned Parking Lots. IEEE/ASME Transactions on Mechatronics, 2021, 26, 1547-1557.	3.7	19
133	A Novel Illumination-Robust Hand Gesture Recognition System With Event-Based Neuromorphic Vision Sensor. IEEE Transactions on Automation Science and Engineering, 2021, 18, 508-520.	3.4	19
134	Pole-Curb Fusion Based Robust and Efficient Autonomous Vehicle Localization System With Branch-and-Bound Global Optimization and Local Grid Map Method. IEEE Transactions on Vehicular Technology, 2021, 70, 11283-11294.	3.9	19
135	Development of human-machine interface for teleoperation of a mobile manipulator. International Journal of Control, Automation and Systems, 2012, 10, 1225-1231.	1.6	18
136	On motion optimization of robotic manipulators with strong nonlinear dynamic coupling using support area level set algorithm. International Journal of Control, Automation and Systems, 2013, 11, 1266-1275.	1.6	17
137	Teleoperated robot writing using EMG signals. , 2015, , .		17
138	Adaptive Neural-Network-Based Active Control of Regenerative Chatter in Micromilling. IEEE Transactions on Automation Science and Engineering, 2018, 15, 628-640.	3.4	17
139	Adaptive Time-Delay Balance Control of Biped Robots. IEEE Transactions on Industrial Electronics, 2020, 67, 2936-2944.	5.2	17
140	Robotic Grasping of Unknown Objects Using Novel Multilevel Convolutional Neural Networks: From Parallel Gripper to Dexterous Hand. IEEE Transactions on Automation Science and Engineering, 2021, 18, 1730-1741.	3.4	17
141	Muscle-Synergy-Based Planning and Neural-Adaptive Control for a Prosthetic Arm. IEEE Transactions on Artificial Intelligence, 2021, 2, 424-436.	3.4	17
142	Robust motion/force control of nonholonomic mobile manipulators using hybrid joints. Advanced Robotics, 2007, 21, 1231-1252.	1.1	16
143	High-Precision Trajectory Tracking Control of Cable-Driven Parallel Robots Using Robust Synchronization. IEEE Transactions on Industrial Informatics, 2021, 17, 2488-2499.	7.2	16
144	Receding Horizon Control-Based Motion Planning With Partially Infeasible LTL Constraints. , 2021, 5, 1279-1284.		16

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145	Fuzzy Enhanced Adaptive Admittance Control of a Wearable Walking Exoskeleton With Step Trajectory Shaping. IEEE Transactions on Fuzzy Systems, 2022, 30, 1541-1552.	6.5	16
146	NeuroGrasp: Multimodal Neural Network With Euler Region Regression for Neuromorphic Vision-Based Grasp Pose Estimation. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-11.	2.4	16
147	Brain-Computer Interface-Based Stochastic Navigation and Control of a Semiautonomous Mobile Robot in Indoor Environments. IEEE Transactions on Cognitive and Developmental Systems, 2019, 11, 129-141.	2.6	15
148	Adaptive Tracking Control of a Class of Constrained Euler-Lagrange Systems by Factorization of Dynamic Mass Matrix. IEEE Transactions on Industrial Electronics, 2019, 66, 7831-7840.	5.2	15
149	Robust Vehicle Detection in High-Resolution Aerial Images With Imbalanced Data. IEEE Transactions on Artificial Intelligence, 2021, 2, 238-250.	3.4	15
150	Wearable Robots for Human Underwater Movement Ability Enhancement: A Survey. IEEE/CAA Journal of Automatica Sinica, 2022, 9, 967-977.	8.5	15
151	Development of a fast transmission method for 3D point cloud. Multimedia Tools and Applications, 2018, 77, 25369-25387.	2.6	14
152	Cone-beam breast CT features associated with HER2/neu overexpression in patients with primary breast cancer. European Radiology, 2020, 30, 2731-2739.	2.3	14
153	Neuromorphic Vision-Based Fall Localization in Event Streams With Temporal-Spatial Attention Weighted Network. IEEE Transactions on Cybernetics, 2022, 52, 9251-9262.	6.2	14
154	Hybrid brain/muscle-actuated control of an intelligent wheelchair. , 2013, , .		13
155	Development of multi-fingered dexterous hand for grasping manipulation. Science China Information Sciences, 2014, 57, 1-10.	2.7	13
156	Bioinspired Embodiment for Intelligent Sensing and Dexterity in Fine Manipulation: A Survey. IEEE Transactions on Industrial Informatics, 2020, 16, 4308-4321.	7.2	13
157	Optimal Probabilistic Motion Planning With Potential Infeasible LTL Constraints. IEEE Transactions on Automatic Control, 2023, 68, 301-316.	3.6	13
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