Zhijun Li

List of Publications by Citations

215	7,895	52	82
papers	citations	h-index	g-index
246	10,109	5.7	6.94
ext. papers	ext. citations	avg, IF	L-index

#	Paper	IF	Citations
215	Neural Control of Bimanual Robots With Guaranteed Global Stability and Motion Precision. *IEEE Transactions on Industrial Informatics*, **2017**, 13, 1162-1171	11.9	264
214	Teleoperation Control Based on Combination of Wave Variable and Neural Networks. *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, **2017**, 47, 2125-2136	7.3	226
213	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	7.3	223
212	Adaptive Parameter Estimation and Control Design for Robot Manipulators With Finite-Time Convergence. *IEEE Transactions on Industrial Electronics*, **2018**, 65, 8112-8123	8.9	215
211	Neural network-based motion control of an underactuated wheeled inverted pendulum model. *IEEE Transactions on Neural Networks and Learning Systems*, **2014**, 25, 2004-16	10.3	197
210	Adaptive Impedance Control for an Upper Limb Robotic Exoskeleton Using Biological Signals. *IEEE Transactions on Industrial Electronics*, **2017**, 64, 1664-1674	8.9	165
209	Trajectory Planning and Optimized Adaptive Control for a Class of Wheeled Inverted Pendulum Vehicle Models. *IEEE Transactions on Cybernetics*, **2013**, 43, 24-36	10.2	159
208	Development and Learning Control of a Human Limb With a Rehabilitation Exoskeleton. *IEEE Transactions on Industrial Electronics*, **2014**, 61, 3776-3785	8.9	150
207	Fuzzy Approximation-Based Adaptive Backstepping Control of an Exoskeleton for Human Upper Limbs. *IEEE Transactions on Fuzzy Systems*, **2015**, 23, 555-566	8.3	146
206	. *IEEE Transactions on Industrial Electronics*, **2015**, 62, 5763-5775	8.9	142
205	Robot Learning System Based on Adaptive Neural Control and Dynamic Movement Primitives. *IEEE Transactions on Neural Networks and Learning Systems*, **2019**, 30, 777-787	10.3	140
204	A survey of human-centered intelligent robots: issues and challenges. *IEEE/CAA Journal of Automatica Sinica*, **2017**, 4, 602-609	7	139
203	Physical Human-Robot Interaction of a Robotic Exoskeleton By Admittance Control. *IEEE Transactions on Industrial Electronics*, **2018**, 65, 9614-9624	8.9	137
202	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	8.3	135
201	. *IEEE Transactions on Automation Science and Engineering*, **2018**, 15, 329-340	4.9	131
200	Finite-Time Convergence Adaptive Fuzzy Control for Dual-Arm Robot With Unknown Kinematics and Dynamics. *IEEE Transactions on Fuzzy Systems*, **2019**, 27, 574-588	8.3	129
199	Adaptive Fuzzy Control for Coordinated Multiple Robots With Constraint Using Impedance Learning. *IEEE Transactions on Cybernetics*, **2019**, 49, 3052-3063	10.2	128

198	sEMG-based joint force control for an upper-limb power-assist exoskeleton robot. *IEEE Journal of Biomedical and Health Informatics*, **2014**, 18, 1043-50	7.2	127
197	Adaptive robust coordinated control of multiple mobile manipulators interacting with rigid environments. *Automatica*, **2010**, 46, 2028-2034	5.7	126
196	Adaptive robust motion/force control of holonomic-constrained nonholonomic mobile manipulators. *IEEE Transactions on Systems, Man, and Cybernetics*, **2007**, 37, 607-16		119
195	Asymmetric Bimanual Control of Dual-Arm Exoskeletons for Human-Cooperative Manipulations. *IEEE Transactions on Robotics*, **2018**, 34, 264-271	6.5	116
194	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	10.3	114
193	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	7.3	111
192	Trilateral Teleoperation of Adaptive Fuzzy Force/Motion Control for Nonlinear Teleoperators With Communication Random Delays. *IEEE Transactions on Fuzzy Systems*, **2013**, 21, 610-624	8.3	109
191	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	7.3	108
190	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, 3251-62	10.3	96
189	Neural Networks Enhanced Adaptive Admittance Control of Optimized Robot-Environment Interaction. *IEEE Transactions on Cybernetics*, **2019**, 49, 2568-2579	10.2	93
188	. *IEEE/ASME Transactions on Mechatronics*, **2018**, 23, 121-131	5.5	90
187	. *IEEE Transactions on Automation Science and Engineering*, **2020**, 17, 1937-1949	4.9	87
186	A DMPs-Based Framework for Robot Learning and Generalization of Humanlike Variable Impedance Skills. *IEEE/ASME Transactions on Mechatronics*, **2018**, 23, 1193-1203	5.5	83
185	High-Order Disturbance-Observer-Based Sliding Mode Control for Mobile Wheeled Inverted Pendulum Systems. *IEEE Transactions on Industrial Electronics*, **2020**, 67, 2030-2041	8.9	82
184	Direct adaptive controller for uncertain MIMO dynamic systems with time-varying delay and dead-zone inputs. *Automatica*, **2016**, 63, 287-291	5.7	77
183	Robust Stabilization of a Wheeled Mobile Robot Using Model Predictive Control Based on Neurodynamics Optimization. *IEEE Transactions on Industrial Electronics*, **2017**, 64, 505-516	8.9	77
182	Mind Control of a Robotic Arm With Visual Fusion Technology. *IEEE Transactions on Industrial Informatics*, **2018**, 14, 3822-3830	11.9	75
181	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	10.3	75

180	Adaptive Neural Network Based Variable Stiffness Control of Uncertain Robotic Systems Using Disturbance Observer. *IEEE Transactions on Industrial Electronics*, **2017**, 64, 2236-2245	8.9	74
179	Adaptive fuzzy logic control of dynamic balance and motion for wheeled inverted pendulums. *Fuzzy Sets and Systems*, **2009**, 160, 1787-1803	3.7	74
178	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	10.3	68
177	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, 1460-73	10.3	68
176	Reinforcement Learning Control of a Flexible Two-Link Manipulator: An Experimental Investigation. *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, **2020**, 1-11	7.3	66
175	Advanced landfill leachate treatment using iron-carbon microelectrolysis- Fenton process: Process optimization and column experiments. *Journal of Hazardous Materials*, **2016**, 318, 460-467	12.8	65
174	. *IEEE Transactions on Fuzzy Systems*, **2015**, 23, 1044-1056	8.3	63
173	Decentralised adaptive fuzzy control of coordinated multiple mobile manipulators interacting with non-rigid environments. *IET Control Theory and Applications*, **2013**, 7, 397-410	2.5	62
172	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	7.3	59
171	Brain□Machine Interface and Visual Compressive Sensing-Based Teleoperation Control of an Exoskeleton Robot. *IEEE Transactions on Fuzzy Systems*, **2017**, 25, 58-69	8.3	57
170	Neural Network Approximation Based Near-Optimal Motion Planning With Kinodynamic Constraints Using RRT. *IEEE Transactions on Industrial Electronics*, **2018**, 65, 8718-8729	8.9	57
169	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	3.1	57
168	Human Cooperative Wheelchair With Brain□Machine Interaction Based on Shared Control Strategy. *IEEE/ASME Transactions on Mechatronics*, **2017**, 22, 185-195	5.5	57
167	Modification Strategies with Inorganic Acids for Efficient Photocatalysts by Promoting the Adsorption of O2. *ACS Applied Materials & Interfaces*, **2015**, 7, 22727-40	9.5	56
166	Disturbance Observer-Based Fuzzy Control of Uncertain MIMO Mechanical Systems With Input Nonlinearities and its Application to Robotic Exoskeleton. *IEEE Transactions on Cybernetics*, **2017**, 47, 984-994	10.2	54
165	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	10.3	53
164	Robust adaptive control of coordinated multiple mobile manipulators. *Mechatronics*, **2008**, 18, 239-250	3	52
163	Adaptive Robust Dynamic Balance and Motion Controls of Mobile Wheeled Inverted Pendulums. *IEEE Transactions on Control Systems Technology*, **2009**, 17, 233-241	4.8	51

162	Adaptive Neural Network Control for Robotic Manipulators With Unknown Deadzone. *IEEE Transactions on Cybernetics*, **2018**, 48, 2670-2682	10.2	49
161	Vision-Based Human Tracking Control of a Wheeled Inverted Pendulum Robot. *IEEE Transactions on Cybernetics*, **2016**, 46, 2423-2434	10.2	47
160	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	7.3	47
159	Vision-Based Model Predictive Control for Steering of a Nonholonomic Mobile Robot. *IEEE Transactions on Control Systems Technology*, **2015**, 1-1	4.8	47
158	Neural-Dynamic Optimization-Based Model Predictive Control for Tracking and Formation of Nonholonomic Multirobot Systems. *IEEE Transactions on Neural Networks and Learning Systems*, **2018**, 29, 6113-6122	10.3	46
157	Visual Servoing of Constrained Mobile Robots Based on Model Predictive Control. *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, **2017**, 47, 1428-1438	7.3	45
156	Robust adaptive motion control for underwater remotely operated vehicles with velocity constraints. *International Journal of Control, Automation and Systems*, **2012**, 10, 421-429	2.9	45
155	Boosting-based EMG patterns classification scheme for robustness enhancement. *IEEE Journal of Biomedical and Health Informatics*, **2013**, 17, 545-52	7.2	44
154	Bilateral Teleoperation of Holonomic Constrained Robotic Systems With Time-Varying Delays. *IEEE Transactions on Instrumentation and Measurement*, **2013**, 62, 752-765	5.2	43
153	Robust adaptive control of cooperating mobile manipulators with relative motion. *IEEE Transactions on Systems, Man, and Cybernetics*, **2009**, 39, 103-16		43
152	Ceramic coatings of LA141 alloy formed by plasma electrolytic oxidation for corrosion protection. *ACS Applied Materials & Interfaces*, **2011**, 3, 3682-90	9.5	41
151	Adaptive neural-fuzzy control of uncertain constrained multiple coordinated nonholonomic mobile manipulators. *Engineering Applications of Artificial Intelligence*, **2008**, 21, 985-1000	7.2	41
150	Effects of alternate partial root-zone irrigation on soil microorganism and maize growth. *Plant and Soil*, **2008**, 302, 45-52	4.2	41
149	Adaptive Admittance Control for an Ankle Exoskeleton Using an EMG-Driven Musculoskeletal Model. *Frontiers in Neurorobotics*, **2018**, 12, 16	3.4	40
148	Model Predictive Tracking Control of Nonholonomic Mobile Robots With Coupled Input Constraints and Unknown Dynamics. *IEEE Transactions on Industrial Informatics*, **2019**, 15, 3196-3205	11.9	39
147	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	4.8	37
146	An Improved ACO Algorithm Optimized Fuzzy PID Controller for Load Frequency Control in Multi Area Interconnected Power Systems. *IEEE Access*, **2020**, 8, 6429-6447	3.5	37
145	Robust Tube-Based Predictive Control for Visual Servoing of Constrained Differential-Drive Mobile Robots. *IEEE Transactions on Industrial Electronics*, **2018**, 65, 3437-3446	8.9	35

144	Global adaptive tracking control of robot manipulators using neural networks with finite-time learning convergence. *International Journal of Control, Automation and Systems*, **2017**, 15, 1916-1924	2.9	35
143	Multi-Sensor Guided Hand Gesture Recognition for a Teleoperated Robot Using a Recurrent Neural Network. *IEEE Robotics and Automation Letters*, **2021**, 6, 6039-6045	4.2	35
142	Adaptive control with a fuzzy tuner for cable-based rehabilitation robot. *International Journal of Control, Automation and Systems*, **2016**, 14, 865-875	2.9	34
141	Robust Control of Motion/Force for Robotic Manipulators With Random Time Delays. *IEEE Transactions on Control Systems Technology*, **2013**, 21, 1708-1718	4.8	33
140	Decentralised adaptive control of cooperating Robotic manipulators with disturbance observers. *IET Control Theory and Applications*, **2014**, 8, 515-521	2.5	33
139	. *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, **2018**, 48, 733-742	7.3	32
138	. *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, **2016**, 1-12	7.3	32
137	A Learning-Based Hierarchical Control Scheme for an Exoskeleton Robot in Human-Robot Cooperative Manipulation. *IEEE Transactions on Cybernetics*, **2020**, 50, 112-125	10.2	32
136	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	3.6	31
135	Adaptive sliding-mode control for two-wheeled inverted pendulum vehicle based on zero-dynamics theory. *Nonlinear Dynamics*, **2014**, 76, 459-471	5	31
134	Dynamic Balance Optimization and Control of Quadruped Robot Systems With Flexible Joints. *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, **2016**, 46, 1338-1351	7.3	30
133	Enhanced visible photocatalytic activity of nanocrystalline □Fe2O3 by coupling phosphate-functionalized graphene. *RSC Advances*, **2013**, 3, 7438	3.7	30
132	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	7.3	28
131	Reference Trajectory Reshaping Optimization and Control of Robotic Exoskeletons for Human-Robot Co-Manipulation. *IEEE Transactions on Cybernetics*, **2020**, 50, 3740-3751	10.2	28
130	Skill transfer learning for autonomous robots and human□obot cooperation: A survey. *Robotics and Autonomous Systems*, **2020**, 128, 103515	3.5	26
129	Motor-Imagery-Based Teleoperation of a Dual-Arm Robot Performing Manipulation Tasks. *IEEE Transactions on Cognitive and Developmental Systems*, **2019**, 11, 414-424	3	26
128	Robust Vision-Based Tube Model Predictive Control of Multiple Mobile Robots for Leader□ollower Formation. *IEEE Transactions on Industrial Electronics*, **2020**, 67, 3096-3106	8.9	26
127	Adaptive robust controls of biped robots. *IET Control Theory and Applications*, **2013**, 7, 161-175	2.5	25

126	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	7.3	25
125	Adaptive fuzzy-based motion generation and control of mobile under-actuated manipulators. *Engineering Applications of Artificial Intelligence*, **2014**, 30, 86-95	7.2	24
124	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*, **2020**, 1-18	7.3	24
123	Human-Cooperative Control of a Wearable Walking Exoskeleton for Enhancing Climbing Stair Activities. *IEEE Transactions on Industrial Electronics*, **2020**, 67, 3086-3095	8.9	23
122	Evolution Strategies Learning With Variable Impedance Control for Grasping Under Uncertainty. *IEEE Transactions on Industrial Electronics*, **2019**, 66, 7788-7799	8.9	22
121	Brain Machine Interfacing-Based Teleoperation of Multiple Coordinated Mobile Robots. *IEEE Transactions on Industrial Electronics*, **2017**, 64, 5161-5170	8.9	21
120	Development of a hybrid motion capture method using MYO armband with application to teleoperation **2016**,		21
119	Motion Tracking Control Design for a Class of Nonholonomic Mobile Robot Systems. *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, **2020**, 50, 2150-2156	7.3	21
118	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	2.9	19
117	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	7.3	18
116	Synergy-Based Control of Assistive Lower-Limb Exoskeletons by Skill Transfer. *IEEE/ASME Transactions on Mechatronics*, **2020**, 25, 705-715	5.5	16
115	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	2.9	16
114	Development of human-machine interface for teleoperation of a mobile manipulator. *International Journal of Control, Automation and Systems*, **2012**, 10, 1225-1231	2.9	16
113	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	3.4	16
112	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	4.9	16
111	. *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, **2021**, 51, 2624-2634	7.3	16
110	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	4.9	15
109	RGB-D sensor-based visual SLAM for localization and navigation of indoor mobile robot **2016**,		15

108	Intelligent compliant force/motion control of nonholonomic mobile manipulator working on the nonrigid surface. *Neural Computing and Applications*, **2006**, 15, 204-216	4.8	15
107	Cooperative Manipulation of Wearable Dual-Arm Exoskeletons Using Force Communication Between Partners. *IEEE Transactions on Industrial Electronics*, **2020**, 67, 6629-6638	8.9	15
106	Development of a robotic teaching interface for human to human skill transfer **2016**,		15
105	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	3	15
104	BrainRobot Interface-Based Navigation Control of a Mobile Robot in Corridor Environments. *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, **2020**, 50, 3047-3058	7.3	15
103	Shared control of a brain-actuated intelligent wheelchair **2014**,		14
102	Human-In-the-Loop Control of a Wearable Lower Limb Exoskeleton for Stable Dynamic Walking. *IEEE/ASME Transactions on Mechatronics*, **2020**, 1-1	5.5	14
101	Human-Cooperative Control Design of a Walking Exoskeleton for Body Weight Support. *IEEE Transactions on Industrial Informatics*, **2020**, 16, 2985-2996	11.9	14
100	DMP-Based Motion Generation for a Walking Exoskeleton Robot Using Reinforcement Learning. *IEEE Transactions on Industrial Electronics*, **2020**, 67, 3830-3839	8.9	14
99	Brain-Actuated Control of Dual-Arm Robot Manipulation With Relative Motion. *IEEE Transactions on Cognitive and Developmental Systems*, **2019**, 11, 51-62	3	13
98	. *IEEE Transactions on Automation Science and Engineering*, **2021**, 18, 564-573	4.9	13
97	Adaptive Proxy-Based Robust Control Integrated With Nonlinear Disturbance Observer for Pneumatic Muscle Actuators. *IEEE/ASME Transactions on Mechatronics*, **2020**, 25, 1756-1764	5.5	12
96	EEG-Based Volitional Control of Prosthetic Legs for Walking in Different Terrains. *IEEE Transactions on Automation Science and Engineering*, **2021**, 18, 530-540	4.9	12
95	Adaptive Neural-Network-Based Active Control of Regenerative Chatter in Micromilling. *IEEE Transactions on Automation Science and Engineering*, **2018**, 15, 628-640	4.9	11
94	BrainComputer 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	3	11
93	Development of a fast transmission method for 3D point cloud. *Multimedia Tools and Applications*, **2018**, 77, 25369-25387	2.5	10
92	Hybrid brain/muscle-actuated control of an intelligent wheelchair **2013**,		10
91	Teleoperated robot writing using EMG signals **2015**,		10

90	Development of multi-fingered dexterous hand for grasping manipulation. *Science China Information Sciences*, **2014**, 57, 1-10	3.4	10
89	Adaptive Dynamic Coupling Control of Hybrid Joints of Human-Symbiotic Wheeled Mobile Manipulators with Unmodelled Dynamics. *International Journal of Social Robotics*, **2010**, 2, 109-120	4	9
88	Robust motion/force control of nonholonomic mobile manipulators using hybrid joints. *Advanced Robotics*, **2007**, 21, 1231-1252	1.7	9
87	Whole-Body Control of an Autonomous Mobile Manipulator Using Series Elastic Actuators. *IEEE/ASME Transactions on Mechatronics*, **2021**, 26, 657-667	5.5	9
86	Adaptive Time-Delay Balance Control of Biped Robots. *IEEE Transactions on Industrial Electronics*, **2020**, 67, 2936-2944	8.9	9
85	Skill Learning Strategy Based on Dynamic Motion Primitives for HumanRobot Cooperative Manipulation. *IEEE Transactions on Cognitive and Developmental Systems*, **2021**, 13, 105-117	3	9
84	Spatiotemporal Graph Convolution Multifusion Network for Urban Vehicle Emission Prediction. *IEEE Transactions on Neural Networks and Learning Systems*, **2021**, 32, 3342-3354	10.3	8
83	Learning-Based Probabilistic LTL Motion Planning With Environment and Motion Uncertainties. *IEEE Transactions on Automatic Control*, **2021**, 66, 2386-2392	5.9	8
82	Human-in-the-Loop Control of Soft Exosuits Using Impedance Learning on Different Terrains. *IEEE Transactions on Robotics*, **2022**, 1-10	6.5	8
81	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	3	7
80	Biologically Inspired Deadbeat Control of Robotic Leg Prostheses. *IEEE/ASME Transactions on Mechatronics*, **2020**, 25, 2733-2742	5.5	7
79	Development and Implementation of a Wheeled Inverted Pendulum Vehicle Using Adaptive Neural Control with Extreme Learning Machines. *Cognitive Computation*, **2015**, 7, 740-752	4.4	7
78	Coordinated Dynamic Control in the Task Space for Redundantly Actuated Cable-Driven Parallel Robots. *IEEE/ASME Transactions on Mechatronics*, **2020**, 1-1	5.5	7
77	. *IEEE Transactions on Artificial Intelligence*, **2021**, 1-1	4.7	7
76	Quantized feedback stabilization of discrete-time linear system with Markovian jump packet losses. *Neurocomputing*, **2015**, 158, 307-314	5.4	6
75	Path-following control of wheeled planetary exploration robots moving on deformable rough terrain. *Scientific World Journal, The*, **2014**, 2014, 793526	2.2	6
74	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	4.9	6
73	Adaptive Tracking Control of a Class of Constrained EulerLagrange Systems by Factorization of Dynamic Mass Matrix. *IEEE Transactions on Industrial Electronics*, **2019**, 66, 7831-7840	8.9	6

72	**2021**, 5, 1279-1284		6
71	A Teleoperated Shared Control Scheme for Mobile Robot Based sEMG **2018**,		6
70	. *IEEE Transactions on Cognitive and Developmental Systems*, **2018**, 10, 1126-1132	3	6
69	Mind guided motion control of robot manipulator using EEG signals **2015**,		5
68	Zero-dynamics-based adaptive sliding mode control for a wheeled inverted pendulum with parametric friction and uncertain dynamics compensation. *Transactions of the Institute of Measurement and Control*, **2015**, 37, 91-99	1.8	5
67	Adaptive Fuzzy-Region-Based Control of Euler–Lagrange Systems With Kinematically Singular Configurations. *IEEE Transactions on Fuzzy Systems*, **2020**, 1-1	8.3	5
66	Bioinspired Embodiment for Intelligent Sensing and Dexterity in Fine Manipulation: A Survey. *IEEE Transactions on Industrial Informatics*, **2020**, 16, 4308-4321	11.9	5
65	Adaptive impedance control of robotic exoskeletons using reinforcement learning **2016**,		5
64	Robotic Grasping of Unknown Objects Using Novel Multilevel Convolutional Neural Networks: From Parallel Gripper to Dexterous Hand. *IEEE Transactions on Automation Science and Engineering*, **2020**, 1-12	4.9	5
63	Adaptive Visual Regulation of Wheeled Mobile Robots: a Switching Approach. *Journal of Intelligent and Robotic Systems: Theory and Applications*, **2020**, 98, 345-358	2.9	5
62	High-Precision Trajectory Tracking Control of Cable-Driven Parallel Robots Using Robust Synchronization. *IEEE Transactions on Industrial Informatics*, **2021**, 17, 2488-2499	11.9	5
61	. *IEEE Transactions on Cognitive and Developmental Systems*, **2021**, 13, 57-66	3	5
60	Human-Robot Cooperation Control Based on Trajectory Deformation Algorithm for a Lower Limb Rehabilitation Robot. *IEEE/ASME Transactions on Mechatronics*, **2021**, 1-1	5.5	5
59	HSTA: A Hierarchical Spatio-Temporal Attention Model for Trajectory Prediction. *IEEE Transactions on Vehicular Technology*, **2021**, 1-1	6.8	5
58	Wearable Robots for Human Underwater Movement Ability Enhancement: A Survey. *IEEE/CAA Journal of Automatica Sinica*, **2022**, 9, 967-977	7	5
57	Introduction to the Special Issue on Human Cooperative Wearable Robotic Systems. *IEEE Robotics and Automation Letters*, **2018**, 3, 466-468	4.2	4
56	Trajectory tracking control method and experiment of AGV **2016**,		4
55	Development of a human-friendly robot for socially aware human-robot interaction **2017**,		4

54	Adaptive neural network control for uncertain MIMO robotic systems with time-varying delay and unknown backlash-like hysteresis **2015**,		4
53	Cone-beam breast CT features associated with HER2/neu overexpression in patients with primary breast cancer. *European Radiology*, **2020**, 30, 2731-2739	8	4
52	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	5.5	4
51	KAM-Net: Keypoint-Aware and Keypoint-Matching Network for Vehicle Detection from 2D Point Cloud. *IEEE Transactions on Artificial Intelligence*, **2021**, 1-1	4.7	4
50	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**, 1-1	6.8	4
49	Teleoperation control of an exoskeleton robot using brain machine interface and visual compressive sensing **2016**,		3
48	Development of a TouchX based teleoperation approach using wave variable technique **2016**,		3
47	Guest Editorial Neuro-Robotics Systems: Sensing, Cognition, Learning, and Control. *IEEE Transactions on Cognitive and Developmental Systems*, **2019**, 11, 145-147	3	3
46	Development of a physiological signals enhanced teleoperation strategy **2015**,		3
45	Brain Teleoperation Control of a Nonholonomic Mobile Robot Using Quadrupole Potential Function. *IEEE Transactions on Cognitive and Developmental Systems*, **2019**, 11, 527-538	3	3
44	Performance-based iterative learning control for task-oriented rehabilitation: a pilot study in robot-assisted bilateral training. *IEEE Transactions on Cognitive and Developmental Systems*, **2021**, 1-1	3	3
43	Guest Editorial Special Issue on Bioinspired Embodiment for Intelligent Sensing and Dexterity in Fine Manipulation. *IEEE Transactions on Industrial Informatics*, **2019**, 15, 1141-1143	11.9	2
42	Deep Learning Method for Grasping Novel Objects Using Dexterous Hands. *IEEE Transactions on Cybernetics*, **2020**, PP,	10.2	2
41	Neural network based global adaptive dynamic surface tracking control for robot manipulators **2016**,		2
40	Development of a exoskeleton robot for lower limb rehabilitation **2016**,		2
39	Admittance control of a robotic exoskeleton for physical human robot interaction **2017**,		2
38	Guest editorial for special issue on human-centered intelligent robots: issues and challenges. *IEEE/CAA Journal of Automatica Sinica*, **2017**, 4, 599-601	7	2
37	Brain-actuated teleoperation control of a mobile robot **2015**,		2

36	Asymmetric Cooperation Control of Dual-Arm Exoskeletons Using Human Collaborative Manipulation Models. *IEEE Transactions on Cybernetics*, **2021**, PP,	10.2	2
35	Optimal balancing control of bipedal robots using reinforcement learning **2016**,		2
34	Brain Teleoperation of a Mobile Robot Using Deep Learning Technique **2018**,		2
33	The development of a high-speed lower-limb robotic exoskeleton. *Science China Information Sciences*, **2018**, 62, 1	3.4	2
32	A Novel Robot Teaching System Based on Mixed Reality **2018**,		2
31	Neuromorphic Vision-Based Fall Localization in Event Streams With Temporal-Spatial Attention Weighted Network.. *IEEE Transactions on Cybernetics*, **2022**, PP,	10.2	2
30	NeuroGrasp: Multi-modal Neural Network with Euler Region Regression for Neuromorphic Vision-based Grasp Pose Estimation. *IEEE Transactions on Instrumentation and Measurement*, **2022**, 1-1	5.2	2
29	Mechanisms and Design of a Humanoid Robot for Two-handed Manipulation **2019**,		1
28	Visual Regulation of Differential-Drive Mobile Robots: A Nonadaptive Switching Approach. *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, **2020**, 1-11	7.3	1
27	Transient tracking performance guaranteed global NN control of robot manipulator **2016**,		1
26	Nonholonomic navigation and control of a wheeled chair **2016**,		1
25	Visual servoing of constrained differential-drive mobile robots using robust tube-based predictive control **2017**,		1
24	Navigation and collision avoidance for nonholonomic robots using quadrupole potential function **2017**,		1
23	Manipulation and grasping control for a hand-eye robot system using sensory-motor fusion **2015**,		1
22	Hybrid motion/force control of biped robots considering force optimization **2015**,		1
21	Stabilization of Markov Jump Linear Systems with Input Quantization. *Circuits, Systems, and Signal Processing*, **2015**, 34, 2109-2126	2.2	1
20	Model predictive control for visual servo steering of nonholonomic mobile robots **2014**,		1
19	Robust Motion/Force Control of Holonomic Constrainted Nonholonomic Mobile Manipulators using Hybrid Joints **2006**,		1

18	Motion control of nonholonomic mobile underactuated manipulator		1
17	Sensing and Navigation of Wearable Assistance Cognitive Systems for the Visually Impaired. *IEEE Transactions on Cognitive and Developmental Systems*, **2022**, 1-1	3	1
16	Dual-Loop Dynamic Control of Cable-Driven Parallel Robots Without Online Tension Distribution. *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, **2022**, 1-14	7.3	1
15	Stackelberg Game-oriented Optimal Control for Bounded Constrained Mechanical Systems: A Fuzzy Evidence Theoretic Approach. *IEEE Transactions on Fuzzy Systems*, **2021**, 1-1	8.3	1
14	Robust Vehicle Detection in High-Resolution Aerial Images With Imbalanced Data. *IEEE Transactions on Artificial Intelligence*, **2021**, 2, 238-250	4.7	1
13	Muscle Synergy-based Planning and Neural-adaptive Control for a Prosthetic Arm. *IEEE Transactions on Artificial Intelligence*, **2021**, 1-1	4.7	1
12	Teleoperation System for Omnidirectional Mobile Robot Based on Shared Control Scheme **2018**,		1
11	Development and Continuous Control of an Intelligent Upper-Limb Neuroprosthesis for Reach and Grasp Motions Using Biological Signals. *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, **2021**, 1-11	7.3	1
10	Fuzzy Enhanced Adaptive Admittance Control of a Wearable Walking Exoskeleton with Step Trajectory Shaping. *IEEE Transactions on Fuzzy Systems*, **2022**, 1-1	8.3	1
9	MoNet: Motion-Based Point Cloud Prediction Network. *IEEE Transactions on Intelligent Transportation Systems*, **2021**, 1-11	6.1	0
8	Optimal Probabilistic Motion Planning with Potential Infeasible LTL Constraints. *IEEE Transactions on Automatic Control*, **2022**, 1-1	5.9	0
7	Assimilation Control of a Robotic Exoskeleton for Physical Human-Robot Interaction. *IEEE Robotics and Automation Letters*, **2022**, 7, 2977-2984	4.2	0
6	Neural-Dynamics Optimization and Repetitive Learning Control for Robotic Leg Prostheses. *IEEE/ASME Transactions on Mechatronics*, **2021**, 1-1	5.5	0
5	Integrated Task Sensing and Whole Body Control for Mobile Manipulation With Series Elastic Actuators. *IEEE Transactions on Automation Science and Engineering*, **2022**, 1-12	4.9	0
4	Whole-Body Fuzzy Based Impedance Control of a Humanoid Wheeled Robot. *IEEE Robotics and Automation Letters*, **2022**, 7, 4909-4916	4.2	0
3	Special Issue on Neuro-Robotics: From Brain Machine Interfaces to Rehabilitation Robotics. *Advanced Robotics*, **2020**, 34, 975-975	1.7	
2	Guest Editorial Focused Section on Mechatronics in Unmanned Systems. *IEEE/ASME Transactions on Mechatronics*, **2021**, 26, 595-599	5.5	
1	Lifting Triplet Energy and Bipolar Characteristics by Limiting the Rotation of the Peripheral Groups in Host Materials to Achieve High-Efficiency Blue OLED.. *Chemistry - an Asian Journal*, **2021**, e202101298	4.5	