Maolin Jin

List of Publications by Year
in descending order

71 papers	3,052 citations	236925 25 h-index	206112 48 g-index
71 all docs	71 docs citations	71 times ranked	1889 citing authors

#	Article	IF	Citations
1	A New Adaptive Sliding-Mode Control Scheme for Application to Robot Manipulators. IEEE Transactions on Industrial Electronics, 2016, 63, 3628-3637.	7.9	383
2	Practical Nonsingular Terminal Sliding-Mode Control of Robot Manipulators for High-Accuracy Tracking Control. IEEE Transactions on Industrial Electronics, 2009, 56, 3593-3601.	7.9	333
3	Adaptive Backstepping Control of an Electrohydraulic Actuator. IEEE/ASME Transactions on Mechatronics, 2014, 19, 987-995.	5.8	246
4	Adaptive Integral Sliding Mode Control With Time-Delay Estimation for Robot Manipulators. IEEE Transactions on Industrial Electronics, 2017, 64, 6796-6804.	7.9	216
5	Continuous Nonsingular Terminal Sliding-Mode Control of Shape Memory Alloy Actuators Using Time Delay Estimation. IEEE/ASME Transactions on Mechatronics, 2015, 20, 899-909.	5.8	191
6	Robust Compliant Motion Control of Robot With Nonlinear Friction Using Time-Delay Estimation. IEEE Transactions on Industrial Electronics, 2008, 55, 258-269.	7.9	190
7	Model-Free Robust Adaptive Control of Humanoid Robots With Flexible Joints. IEEE Transactions on Industrial Electronics, 2017, 64, 1706-1715.	7.9	168
8	Robust Control of Robot Manipulators Using Inclusive and Enhanced Time Delay Control. IEEE/ASME Transactions on Mechatronics, 2017, 22, 2141-2152.	5.8	120
9	A Solution to the Accuracy/Robustness Dilemma in Impedance Control. IEEE/ASME Transactions on Mechatronics, 2009, 14, 282-294.	5.8	94
10	Model-free continuous nonsingular fast terminal sliding mode control for cable-driven manipulators. ISA Transactions, 2020, 98, 483-495.	5.7	91
11	Adaptive-Robust Time-Delay Control for a Class of Uncertain Euler–Lagrange Systems. IEEE Transactions on Industrial Electronics, 2017, 64, 7109-7119.	7.9	88
12	Precise tracking control of shape memory alloy actuator systems using hyperbolic tangential sliding mode control with time delay estimation. Mechatronics, 2013, 23, 310-317.	3.3	76
13	Robust Tracking Under Nonlinear Friction Using Time-Delay Control With Internal Model. IEEE Transactions on Control Systems Technology, 2009, 17, 1406-1414.	5.2	73
14	Variable PID Gain Tuning Method Using Backstepping Control With Time-Delay Estimation and Nonlinear Damping. IEEE Transactions on Industrial Electronics, 2014, 61, 6975-6985.	7.9	69
15	Stability guaranteed auto-tuning algorithm of a time-delay controller using a modified Nussbaum function. International Journal of Control, 2014, 87, 1926-1935.	1.9	44
16	Discrete time delay control for hydraulic excavator motion control with terminal sliding mode control. Mechatronics, 2019, 60, 15-25.	3.3	44
17	An Adaptive Gain Dynamics for Time Delay Control Improves Accuracy and Robustness to Significant Payload Changes for Robots. IEEE Transactions on Industrial Electronics, 2020, 67, 3076-3085.	7.9	43
18	Adaptive Fuzzy Backstepping Sliding Mode Control for a 3-DOF Hydraulic Manipulator with Nonlinear Disturbance Observer for Large Payload Variation. Applied Sciences (Switzerland), 2019, 9, 3290.	2.5	40

#	Article	IF	Citations
19	Simple robust technique using time delay estimation for the control and synchronization of Lorenz systems. Chaos, Solitons and Fractals, 2009, 41, 2672-2680.	5.1	37
20	High-Accuracy Tracking Control of Robot Manipulators Using Time Delay Estimation and Terminal Sliding Mode. International Journal of Advanced Robotic Systems, 2011, 8, 33.	2.1	37
21	Stability Guaranteed Time Delay Control of Manipulators Using Nonlinear Damping and Terminal Sliding Mode. IEEE Transactions on Industrial Electronics, 2012, , 1-1.	7.9	37
22	Control and synchronization of chaos systems using time-delay estimation and supervising switching control. Nonlinear Dynamics, 2014, 75, 549-560.	5.2	35
23	Inversion-free force tracking control of piezoelectric actuators using fast finite-time integral terminal sliding-mode. Mechatronics, 2019, 57, 39-50.	3.3	33
24	Nonlinear Extended State Observer Based on Output Feedback Control for a Manipulator With Time-Varying Output Constraints and External Disturbance. IEEE Access, 2019, 7, 156860-156870.	4.2	31
25	An Adaptive PID Control for Robot Manipulators Under Substantial Payload Variations. IEEE Access, 2020, 8, 162261-162270.	4.2	28
26	Control of Robot Manipulators Using Time-Delay Estimation and Fuzzy Logic Systems. Journal of Electrical Engineering and Technology, 2017, 12, 1271-1279.	2.0	28
27	Fuzzy PID controller design using time-delay estimation. Transactions of the Institute of Measurement and Control, 2017, 39, 1329-1338.	1.7	25
28	Synchronization of chaotic systems using particle swarm optimization and time-delay estimation. Nonlinear Dynamics, 2016, 86, 2003-2015.	5.2	24
29	Snake Robot Gripper Module for Search and Rescue in Narrow Spaces. IEEE Robotics and Automation Letters, 2022, 7, 1667-1673.	5.1	24
30	Control Architecture Design for a Fire Searching Robot using Task Oriented Design Methodology. , 2006, , .		22
31	Robust and adaptive dynamic controller for fully-actuated robots in operational space under uncertainties. Autonomous Robots, 2019, 43, 1023-1040.	4.8	20
32	Adaptive time-delay control with a supervising switching technique for robot manipulators. Transactions of the Institute of Measurement and Control, 2017, 39, 1374-1382.	1.7	18
33	Automatic Gain Tuning for Robust PID Control Using Time-Delay Control ∗ ∗This work was supported in part by the Ministry of Trade, Industry & Energy (MOTIE, Korea) under Industrial Technology Innovation Program. No.10067184 (Development of armored robot systems for personal protections of) Tj ETQq1 0 0.784314 rgBT /Ov 2017, 50, 4318-4323.	1.1	14
34	Control and synchronization of the generalized Lorenz system with mismatched uncertainties using backstepping technique and time€delay estimation. International Journal of Circuit Theory and Applications, 2017, 45, 1833-1848.	2.0	9
35	Snake Robot with Driving Assistant Mechanism. Applied Sciences (Switzerland), 2020, 10, 7478.	2.5	8
36	Robot-Based Automation for Upper and Sole Manufacturing in Shoe Production. Machines, 2022, 10, 255.	2.2	8

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37	Task Space Trajectory Planning for Robot Manipulators to Follow 3-D Curved Contours. Electronics (Switzerland), 2020, 9, 1424.	3.1	7
38	Terminal sliding-mode based force tracking control of piezoelectric actuators for variable physical damping system. , 2014, , .		6
39	Time delay control of a pump-controlled electro-hydraulic actuator. , 2015, , .		6
40	Time-delay control with adaptive gain dynamics for robot manipulators. , 2017, , .		6
41	A robust control of robot manipulators for physical interaction: stability analysis for the interaction with unknown environments. Intelligent Service Robotics, 2021, 14, 471-484.	2.6	6
42	A Robust Compliant Motion Control of Robot with Certain Hard Nonlinearities Using Time Delay Estimation. , 2006, , .		5
43	An IMC based enhancement of accuracy and robustness of impedance control. , 2008, , .		5
44	High-accuracy trajectory tracking of industrial robot manipulators using time delay estimation and terminal sliding mode. , 2009, , .		5
45	Adaptive gain back-stepping sliding mode control for electrohydraulic servo system with uncertainties. , 2017, , .		5
46	An Effective Adaptive Gain Dynamics for Time-Delay Control of Robot Manipulators. IEEE Access, 2020, 8, 192229-192238.	4.2	5
47	Self-Tuning Control for Articulated Robots Using the Plestanâ€™s Method. International Journal of Precision Engineering and Manufacturing, 2021, 22, 557-566.	2.2	5
48	Research Trends on Disaster Response Robots. Journal of the Korean Society for Precision Engineering, 2019, 36, 331-337.	0.2	5
49	Nonlinear Bang-Bang Impact Control: A Seamless Control in All Contact Modes. , 0, , .		4
50	Design of pitch controller for wind turbines using time-delay estimation. , 2015, , .		4
51	Improving time-delay control for robot manipulators using TSK fuzzy logic control systems. , 2017, , .		4
52	Stable Gain Adaptation for Time-Delay Control of Robot Manipulators. IFAC-PapersOnLine, 2019, 52, 217-222.	0.9	4
53	Vehicle Body Design of Armored Robot for Complex Disaster. The Journal of Korea Robotics Society, 2018, 13, 248-255.	0.4	4
54	Nonlinear bang-bang impact control for free space, impact and constrained motion: multi-DOF case. , 0, , .		3

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55	Kinematic analysis of hydraulic manipulators for a disaster response robot. , 2017, , .		3
56	A Multi-Sensor Module of Snake Robot for Searching Survivors in Narrow Space. The Journal of Korea Robotics Society, 2021, 16, 291-298.	0.4	3
57	Nonlinear Target Impedance Design and Its Use in Robot Compliant Motion Control with Time Delay Estimation. Industrial Electronics Society (IECON), Annual Conference of IEEE, 2006, , .	0.0	2
58	Robust Trajectory Control of Robot Manipulators Using Time Delay Control with Adaptive Compensator. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 2276-2281.	0.4	2
59	Design of an online tuning modified-grey fuzzy PID controller for nonlinear systems. , 2011, , .		2
60	Development of refractory brick construction robot in steel works. , 2012, , .		2
61	A new adaptive sliding mode control scheme. , 2015, , .		1
62	Impedance control with structural compliance and a sensorless strategy for contact tasks. , 2017, , .		1
63	Robust Link Position Tracking Control for Robot Manipulators with Series Elastic Actuators Using Time-delay Estimation. , 2019, , .		1
64	Generation of Snake Robot Locomotion Patterns Using Genetic Algorithm. Journal of the Korean Society for Precision Engineering, 2021, 38, 717-724.	0.2	1
65	3-D Model-Based Trajectory Generation Algorithm for Robotic Shoe Sole Spray System. Journal of the Korean Society for Precision Engineering, 2021, 38, 825-832.	0.2	1
66	Efficient Acceleration-Level Formula of Bias Acceleration Satisfying Time Precedence for Operational Space Formulation. IEEE Access, 2022, 10, 65533-65547.	4.2	1
67	Experimental study on a robust interaction control with unknown environments. Electronics Letters, 2021, 57, 964.	1.0	0
68	Roll Replacing Robot Systems for Wire-rod Press Roll. Journal of Institute of Control, Robotics and Systems, 2011, 17, 647-650.	0.2	0
69	A Model-Free and Chattering-Suppression Approach with Time-Delay Estimation and Fuzzy Logic for Robot Manipulators. , 2021, , .		0
70	Kinematic Calibration based on Position of Robot Manipulator Eliminating Redundancy of Parameters. Journal of the Korean Society for Precision Engineering, 2022, 39, 517-528.	0.2	0
71	A Study on Sound Source Localization of Survivors for the Robot Searching Victims in a Narrow Space. Journal of the Korean Society for Precision Engineering, 2022, 39, 509-516.	0.2	0