

# Maolin Jin

## List of Publications by Year in descending order

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71  
papers

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citations

236925

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71  
all docs

71  
docs citations

71  
times ranked

1889  
citing authors

#	ARTICLE	IF	CITATIONS
1	Snake Robot Gripper Module for Search and Rescue in Narrow Spaces. IEEE Robotics and Automation Letters, 2022, 7, 1667-1673.	5.1	24
2	Robot-Based Automation for Upper and Sole Manufacturing in Shoe Production. Machines, 2022, 10, 255.	2.2	8
3	Efficient Acceleration-Level Formula of Bias Acceleration Satisfying Time Precedence for Operational Space Formulation. IEEE Access, 2022, 10, 65533-65547.	4.2	1
4	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
5	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
6	Self-Tuning Control for Articulated Robots Using the Plestan's Method. International Journal of Precision Engineering and Manufacturing, 2021, 22, 557-566.	2.2	5
7	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
8	Experimental study on a robust interaction control with unknown environments. Electronics Letters, 2021, 57, 964.	1.0	0
9	Generation of Snake Robot Locomotion Patterns Using Genetic Algorithm. Journal of the Korean Society for Precision Engineering, 2021, 38, 717-724.	0.2	1
10	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
11	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
12	A Model-Free and Chattering-Suppression Approach with Time-Delay Estimation and Fuzzy Logic for Robot Manipulators. , 2021, , .		0
13	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
14	Model-free continuous nonsingular fast terminal sliding mode control for cable-driven manipulators. ISA Transactions, 2020, 98, 483-495.	5.7	91
15	An Adaptive PID Control for Robot Manipulators Under Substantial Payload Variations. IEEE Access, 2020, 8, 162261-162270.	4.2	28
16	An Effective Adaptive Gain Dynamics for Time-Delay Control of Robot Manipulators. IEEE Access, 2020, 8, 192229-192238.	4.2	5
17	Task Space Trajectory Planning for Robot Manipulators to Follow 3-D Curved Contours. Electronics (Switzerland), 2020, 9, 1424.	3.1	7
18	Snake Robot with Driving Assistant Mechanism. Applied Sciences (Switzerland), 2020, 10, 7478.	2.5	8

#	ARTICLE	IF	CITATIONS
19	Robust and adaptive dynamic controller for fully-actuated robots in operational space under uncertainties. <i>Autonomous Robots</i> , 2019, 43, 1023-1040.	4.8	20
20	Adaptive Fuzzy Backstepping Sliding Mode Control for a 3-DOF Hydraulic Manipulator with Nonlinear Disturbance Observer for Large Payload Variation. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 3290.	2.5	40
21	Nonlinear Extended State Observer Based on Output Feedback Control for a Manipulator With Time-Varying Output Constraints and External Disturbance. <i>IEEE Access</i> , 2019, 7, 156860-156870.	4.2	31
22	Robust Link Position Tracking Control for Robot Manipulators with Series Elastic Actuators Using Time-delay Estimation. , 2019, , .		1
23	Discrete time delay control for hydraulic excavator motion control with terminal sliding mode control. <i>Mechatronics</i> , 2019, 60, 15-25.	3.3	44
24	Stable Gain Adaptation for Time-Delay Control of Robot Manipulators. <i>IFAC-PapersOnLine</i> , 2019, 52, 217-222.	0.9	4
25	Inversion-free force tracking control of piezoelectric actuators using fast finite-time integral terminal sliding-mode. <i>Mechatronics</i> , 2019, 57, 39-50.	3.3	33
26	Research Trends on Disaster Response Robots. <i>Journal of the Korean Society for Precision Engineering</i> , 2019, 36, 331-337.	0.2	5
27	Vehicle Body Design of Armored Robot for Complex Disaster. <i>The Journal of Korea Robotics Society</i> , 2018, 13, 248-255.	0.4	4
28	Fuzzy PID controller design using time-delay estimation. <i>Transactions of the Institute of Measurement and Control</i> , 2017, 39, 1329-1338.	1.7	25
29	Adaptive time-delay control with a supervising switching technique for robot manipulators. <i>Transactions of the Institute of Measurement and Control</i> , 2017, 39, 1374-1382.	1.7	18
30	Model-Free Robust Adaptive Control of Humanoid Robots With Flexible Joints. <i>IEEE Transactions on Industrial Electronics</i> , 2017, 64, 1706-1715.	7.9	168
31	Adaptive Integral Sliding Mode Control With Time-Delay Estimation for Robot Manipulators. <i>IEEE Transactions on Industrial Electronics</i> , 2017, 64, 6796-6804.	7.9	216
32	Adaptive-Robust Time-Delay Control for a Class of Uncertain Euler-Lagrange Systems. <i>IEEE Transactions on Industrial Electronics</i> , 2017, 64, 7109-7119.	7.9	88
33	Time-delay control with adaptive gain dynamics for robot manipulators. , 2017, , .		6
34	Control and synchronization of the generalized Lorenz system with mismatched uncertainties using backstepping technique and time-delay estimation. <i>International Journal of Circuit Theory and Applications</i> , 2017, 45, 1833-1848.	2.0	9
35	Adaptive gain back-stepping sliding mode control for electrohydraulic servo system with uncertainties. , 2017, , .		5
36	Robust Control of Robot Manipulators Using Inclusive and Enhanced Time Delay Control. <i>IEEE/ASME Transactions on Mechatronics</i> , 2017, 22, 2141-2152.	5.8	120

#	ARTICLE	IF	CITATIONS
37	Improving time-delay control for robot manipulators using TSK fuzzy logic control systems. , 2017, , .		4
38	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 ETQq0 0.0 rgBT /00verlock 10 2017, 50, 4318-4323.	2.0	28
39	Impedance control with structural compliance and a sensorless strategy for contact tasks. , 2017, , .		1
40	Kinematic analysis of hydraulic manipulators for a disaster response robot. , 2017, , .		3
41	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
42	Synchronization of chaotic systems using particle swarm optimization and time-delay estimation. Nonlinear Dynamics, 2016, 86, 2003-2015.	5.2	24
43	A New Adaptive Sliding-Mode Control Scheme for Application to Robot Manipulators. IEEE Transactions on Industrial Electronics, 2016, 63, 3628-3637.	7.9	383
44	Time delay control of a pump-controlled electro-hydraulic actuator. , 2015, , .		6
45	A new adaptive sliding mode control scheme. , 2015, , .		1
46	Design of pitch controller for wind turbines using time-delay estimation. , 2015, , .		4
47	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
48	Terminal sliding-mode based force tracking control of piezoelectric actuators for variable physical damping system. , 2014, , .		6
49	Control and synchronization of chaos systems using time-delay estimation and supervising switching control. Nonlinear Dynamics, 2014, 75, 549-560.	5.2	35
50	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
51	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
52	Adaptive Backstepping Control of an Electrohydraulic Actuator. IEEE/ASME Transactions on Mechatronics, 2014, 19, 987-995.	5.8	246
53	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
54	Development of refractory brick construction robot in steel works. , 2012, , .		2

#	ARTICLE	IF	CITATIONS
55	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
56	Design of an online tuning modified-grey fuzzy PID controller for nonlinear systems. , 2011, , .		2
57	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
58	Roll Replacing Robot Systems for Wire-rod Press Roll. Journal of Institute of Control, Robotics and Systems, 2011, 17, 647-650.	0.2	0
59	High-accuracy trajectory tracking of industrial robot manipulators using time delay estimation and terminal sliding mode. , 2009, , .		5
60	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
61	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
62	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
63	A Solution to the Accuracy/Robustness Dilemma in Impedance Control. IEEE/ASME Transactions on Mechatronics, 2009, 14, 282-294.	5.8	94
64	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
65	An IMC based enhancement of accuracy and robustness of impedance control. , 2008, , .		5
66	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
67	Control Architecture Design for a Fire Searching Robot using Task Oriented Design Methodology. , 2006, , .		22
68	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
69	A Robust Compliant Motion Control of Robot with Certain Hard Nonlinearities Using Time Delay Estimation. , 2006, , .		5
70	Nonlinear bang-bang impact control for free space, impact and constrained motion: multi-DOF case. , 0, , .		3
71	Nonlinear Bang-Bang Impact Control: A Seamless Control in All Contact Modes. , 0, , .		4