

Yuzhe Qian

List of Publications by Year in descending order

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62
papers

3,483
citations

126708

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docs citations

63
times ranked

1562
citing authors

#	ARTICLE	IF	CITATIONS
1	Amplitude-Saturated Nonlinear Output Feedback Antiswing Control for Underactuated Cranes With Double-Pendulum Cargo Dynamics. IEEE Transactions on Industrial Electronics, 2017, 64, 2135-2146.	5.2	185
2	A Novel Kinematic Coupling-Based Trajectory Planning Method for Overhead Cranes. IEEE/ASME Transactions on Mechatronics, 2012, 17, 166-173.	3.7	179
3	New Energy Analytical Results for the Regulation of Underactuated Overhead Cranes: An End-Effector Motion-Based Approach. IEEE Transactions on Industrial Electronics, 2012, 59, 4723-4734.	5.2	173
4	Energy coupling output feedback control of 4-DOF underactuated cranes with saturated inputs. Automatica, 2013, 49, 1318-1325.	3.0	150
5	Nonlinear Antiswing Control for Crane Systems With Double-Pendulum Swing Effects and Uncertain Parameters: Design and Experiments. IEEE Transactions on Automation Science and Engineering, 2018, 15, 1413-1422.	3.4	145
6	Dynamics Analysis and Nonlinear Control of an Offshore Boom Crane. IEEE Transactions on Industrial Electronics, 2014, 61, 414-427.	5.2	136
7	Nonlinear Stabilizing Control for Ship-Mounted Cranes With Ship Roll and Heave Movements: Design, Analysis, and Experiments. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2018, 48, 1781-1793.	5.9	119
8	Adaptive Nonlinear Crane Control With Load Hoisting/Lowering and Unknown Parameters: Design and Experiments. IEEE/ASME Transactions on Mechatronics, 2015, 20, 2107-2119.	3.7	116
9	An energy-optimal solution for transportation control of cranes with double pendulum dynamics: Design and experiments. Mechanical Systems and Signal Processing, 2018, 102, 87-101.	4.4	115
10	Motion-Estimation-Based Visual Servoing of Nonholonomic Mobile Robots. , 2011, 27, 1167-1175.		109
11	Minimum-Time Trajectory Planning for Underactuated Overhead Crane Systems With State and Control Constraints. IEEE Transactions on Industrial Electronics, 2014, 61, 6915-6925.	5.2	107
12	A Swing Constraint Guaranteed MPC Algorithm for Underactuated Overhead Cranes. IEEE/ASME Transactions on Mechatronics, 2016, 21, 2543-2555.	3.7	103
13	A New Antiswing Control Method for Underactuated Cranes With Unmodeled Uncertainties: Theoretical Design and Hardware Experiments. IEEE Transactions on Industrial Electronics, 2015, 62, 453-465.	5.2	100
14	Slew/Translation Positioning and Swing Suppression for 4-DOF Tower Cranes With Parametric Uncertainties: Design and Hardware Experimentation. IEEE Transactions on Industrial Electronics, 2016, 63, 6407-6418.	5.2	98
15	Adaptive Anti-Swing and Positioning Control for 4-DOF Rotary Cranes Subject to Uncertain/Unknown Parameters With Hardware Experiments. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2019, 49, 1309-1321.	5.9	88
16	Visual Servoing of Nonholonomic Mobile Robots With Uncalibrated Camera-to-Robot Parameters. IEEE Transactions on Industrial Electronics, 2017, 64, 390-400.	5.2	83
17	Nonlinear tracking control of underactuated cranes with load transferring and lowering: Theory and experimentation. Automatica, 2014, 50, 2350-2357.	3.0	82
18	An adaptive tracking control method with swing suppression for 4-DOF tower crane systems. Mechanical Systems and Signal Processing, 2019, 123, 426-442.	4.4	78

#	ARTICLE	IF	CITATIONS
19	Optimal trajectory planning and tracking control method for overhead cranes. IET Control Theory and Applications, 2016, 10, 692-699.	1.2	75
20	Nonlinear Motion Control of Complicated Dual Rotary Crane Systems Without Velocity Feedback: Design, Analysis, and Hardware Experiments. IEEE Transactions on Automation Science and Engineering, 2020, 17, 1017-1029.	3.4	74
21	Nonlinear Continuous Global Stabilization Control for Underactuated RTAC Systems: Design, Analysis, and Experimentation. IEEE/ASME Transactions on Mechatronics, 2017, 22, 1104-1115.	3.7	73
22	Observer-Based Nonlinear Control for Tower Cranes Suffering From Uncertain Friction and Actuator Constraints With Experimental Verification. IEEE Transactions on Industrial Electronics, 2021, 68, 6192-6204.	5.2	71
23	Visual servoing of mobile robots for posture stabilization: from theory to experiments. International Journal of Robust and Nonlinear Control, 2015, 25, 1-15.	2.1	68
24	Adaptive Output Feedback Control for 5-DOF Varying-Cable-Length Tower Cranes With Cargo Mass Estimation. IEEE Transactions on Industrial Informatics, 2021, 17, 2453-2464.	7.2	66
25	A swing constrained time-optimal trajectory planning strategy for double pendulum crane systems. Nonlinear Dynamics, 2017, 89, 1513-1524.	2.7	62
26	Nonlinear Antiswing Control of Offshore Cranes With Unknown Parameters and Persistent Ship-Induced Perturbations: Theoretical Design and Hardware Experiments. IEEE Transactions on Industrial Electronics, 2018, 65, 2629-2641.	5.2	57
27	Acceleration-Level Pseudo-Dynamic Visual Servoing of Mobile Robots With Backstepping and Dynamic Surface Control. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2019, 49, 2071-2081.	5.9	56
28	Antiswing Control of Offshore Boom Cranes With Ship Roll Disturbances. IEEE Transactions on Control Systems Technology, 2018, 26, 740-747.	3.2	55
29	Nonlinear Motion Control of Underactuated Three-Dimensional Boom Cranes With Hardware Experiments. IEEE Transactions on Industrial Informatics, 2018, 14, 887-897.	7.2	53
30	Visual Servo Regulation of Wheeled Mobile Robots With Simultaneous Depth Identification. IEEE Transactions on Industrial Electronics, 2018, 65, 460-469.	5.2	52
31	Adaptive robust tracking control for an offshore ship-mounted crane subject to unmatched sea wave disturbances. Mechanical Systems and Signal Processing, 2019, 114, 556-570.	4.4	51
32	A Novel Geometric Hierarchical Approach for Dynamic Visual Servoing of Quadrotors. IEEE Transactions on Industrial Electronics, 2020, 67, 3840-3849.	5.2	44
33	Switching Logic-Based Nonlinear Feedback Control of Offshore Ship-Mounted Tower Cranes: A Disturbance Observer-Based Approach. IEEE Transactions on Automation Science and Engineering, 2019, 16, 1125-1136.	3.4	43
34	Modeling and nonlinear coordination control for an underactuated dual overhead crane system. Automatica, 2018, 91, 244-255.	3.0	41
35	Vehicle state estimation for INS/GPS aided by sensors fusion and SCKF-based algorithm. Mechanical Systems and Signal Processing, 2021, 150, 107315.	4.4	32
36	Adaptive Nonlinear Hierarchical Control for a Rotorcraft Transporting a Cable-Suspended Payload. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 4171-4182.	5.9	32

#	ARTICLE	IF	CITATIONS
37	Adaptive Neural Network-Based Tracking Control of Underactuated Offshore Ship-to-Ship Crane Systems Subject to Unknown Wave Motions Disturbances. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 3626-3637.	5.9	30
38	Fuzzy-Sliding Mode Control for Humanoid Arm Robots Actuated by Pneumatic Artificial Muscles With Unidirectional Inputs, Saturations, and Dead Zones. IEEE Transactions on Industrial Informatics, 2022, 18, 3011-3021.	7.2	25
39	A neuroadaptive control method for pneumatic artificial muscle systems with hardware experiments. Mechanical Systems and Signal Processing, 2021, 146, 106976.	4.4	23
40	Adaptive Output-Feedback Control for Dual Overhead Crane System With Enhanced Anti-Swing Performance. IEEE Transactions on Control Systems Technology, 2020, 28, 2235-2248.	3.2	22
41	A payload swing suppression guaranteed emergency braking method for overhead crane systems. JVC/Journal of Vibration and Control, 2018, 24, 4651-4660.	1.5	18
42	Nonlinear time-optimal trajectory planning for varying-rope-length overhead cranes. Assembly Automation, 2018, 38, 587-594.	1.0	17
43	An Energy-based Nonlinear Coupling Control for Offshore Ship-mounted Cranes. International Journal of Automation and Computing, 2018, 15, 570-581.	4.5	17
44	Gated recurrent unit based frequency-dependent hysteresis modeling and end-to-end compensation. Mechanical Systems and Signal Processing, 2020, 136, 106501.	4.4	16
45	Swing suppression and accurate positioning control for underactuated offshore crane systems suffering from disturbances. IEEE/CAA Journal of Automatica Sinica, 2020, 7, 892-900.	8.5	16
46	Visual tracking of mobile robots with both velocity and acceleration saturation constraints. Mechanical Systems and Signal Processing, 2021, 150, 107274.	4.4	15
47	An energy exchanging and dropping-based model-free output feedback crane control method. Mechatronics, 2013, 23, 549-558.	2.0	14
48	Auto-tuning nonlinear PID-type controller for rotorcraft-based aggressive transportation. Mechanical Systems and Signal Processing, 2020, 145, 106858.	4.4	14
49	A Wavelet-Based AFM Fast Imaging Method With Self-Tuning Scanning Frequency. IEEE Nanotechnology Magazine, 2017, 16, 1088-1098.	1.1	12
50	A learning strategy based partial feedback linearization control method for an offshore boom crane. , 2015, , .		10
51	A New Nonlinear Control Strategy Embedded With Reinforcement Learning for a Multirotor Transporting a Suspended Payload. IEEE/ASME Transactions on Mechatronics, 2022, 27, 1174-1184.	3.7	10
52	Modeling and nonlinear energy-based anti-swing control of underactuated dual ship-mounted crane systems. Nonlinear Dynamics, 2021, 106, 323-338.	2.7	9
53	Programming-Based Optimal Learning Sliding Mode Control for Cooperative Dual Ship-Mounted Cranes Against Unmatched External Disturbances. IEEE Transactions on Automation Science and Engineering, 2023, 20, 969-980.	3.4	9
54	A high-efficiency Kalman filtering imaging mode for an atomic force microscopy with hysteresis modeling and compensation. Mechatronics, 2018, 50, 69-77.	2.0	8

#	ARTICLE	IF	CITATIONS
55	Trajectory planning of omnidirectional mobile robots with active casters: Multi-motor coordination and singularity avoidance. , 2015, , .		5
56	Dynamics analysis of an offshore ship-mounted crane subject to sea wave disturbances. , 2016, , .		5
57	An Effective Correction Method for AFM Image Distortion due to Hysteresis and Thermal Drift. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-12.	2.4	5
58	Differential Flatness-Based Robust Control of Self-balanced Robots. IFAC-PapersOnLine, 2018, 51, 949-954.	0.5	4
59	Nonlinear vibration suppression control of underactuated shipboard rotary cranes with spherical pendulum and persistent ship roll disturbances. Ocean Engineering, 2021, 241, 110013.	1.9	3
60	Modeling and verification for a four-rope crane. , 2015, , .		2
61	Dynamics Modeling and Analysis for Cooperative Dual Rotary Crane Systems. , 2018, , .		2
62	A Simple Antiswing Input Shaper for Dual Boom Cranes. , 2020, , .		1