

# Yuzhe Qian

## List of Publications by Year in descending order

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62  
papers

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citations

126708

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63  
docs citations

63  
times ranked

1562  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	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
4	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
5	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
6	A neuroadaptive control method for pneumatic artificial muscle systems with hardware experiments. Mechanical Systems and Signal Processing, 2021, 146, 106976.	4.4	23
7	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
8	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
9	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
10	Visual tracking of mobile robots with both velocity and acceleration saturation constraints. Mechanical Systems and Signal Processing, 2021, 150, 107274.	4.4	15
11	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
12	Modeling and nonlinear energy-based anti-swing control of underactuated dual ship-mounted crane systems. Nonlinear Dynamics, 2021, 106, 323-338.	2.7	9
13	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
14	A Novel Geometric Hierarchical Approach for Dynamic Visual Servoing of Quadrotors. IEEE Transactions on Industrial Electronics, 2020, 67, 3840-3849.	5.2	44
15	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
16	Gated recurrent unit based frequency-dependent hysteresis modeling and end-to-end compensation. Mechanical Systems and Signal Processing, 2020, 136, 106501.	4.4	16
17	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
18	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

#	ARTICLE	IF	CITATIONS
19	Auto-tuning nonlinear PID-type controller for rotorcraft-based aggressive transportation. Mechanical Systems and Signal Processing, 2020, 145, 106858.	4.4	14
20	A Simple Antiswing Input Shaper for Dual Boom Cranes. , 2020, , .		1
21	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
22	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
23	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
24	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
25	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
26	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
27	Modeling and nonlinear coordination control for an underactuated dual overhead crane system. Automatica, 2018, 91, 244-255.	3.0	41
28	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
29	Antiswing Control of Offshore Boom Cranes With Ship Roll Disturbances. IEEE Transactions on Control Systems Technology, 2018, 26, 740-747.	3.2	55
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	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
32	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
33	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
34	Dynamics Modeling and Analysis for Cooperative Dual Rotary Crane Systems. , 2018, , .		2
35	Differential Flatness-Based Robust Control of Self-balanced Robots. IFAC-PapersOnLine, 2018, 51, 949-954.	0.5	4
36	Nonlinear time-optimal trajectory planning for varying-rope-length overhead cranes. Assembly Automation, 2018, 38, 587-594.	1.0	17

#	ARTICLE	IF	CITATIONS
37	An Energy-based Nonlinear Coupling Control for Offshore Ship-mounted Cranes. International Journal of Automation and Computing, 2018, 15, 570-581.	4.5	17
38	Nonlinear Motion Control of Underactuated Three-Dimensional Boom Cranes With Hardware Experiments. IEEE Transactions on Industrial Informatics, 2018, 14, 887-897.	7.2	53
39	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
40	A swing constrained time-optimal trajectory planning strategy for double pendulum crane systems. Nonlinear Dynamics, 2017, 89, 1513-1524.	2.7	62
41	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
42	A Wavelet-Based AFM Fast Imaging Method With Self-Tuning Scanning Frequency. IEEE Nanotechnology Magazine, 2017, 16, 1088-1098.	1.1	12
43	Visual Servoing of Nonholonomic Mobile Robots With Uncalibrated Camera-to-Robot Parameters. IEEE Transactions on Industrial Electronics, 2017, 64, 390-400.	5.2	83
44	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
45	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
46	Optimal trajectory planning and tracking control method for overhead cranes. IET Control Theory and Applications, 2016, 10, 692-699.	1.2	75
47	A Swing Constraint Guaranteed MPC Algorithm for Underactuated Overhead Cranes. IEEE/ASME Transactions on Mechatronics, 2016, 21, 2543-2555.	3.7	103
48	Dynamics analysis of an offshore ship-mounted crane subject to sea wave disturbances. , 2016, , .		5
49	Modeling and verification for a four-rope crane. , 2015, , .		2
50	A learning strategy based partial feedback linearization control method for an offshore boom crane. , 2015, , .		10
51	Trajectory planning of omnidirectional mobile robots with active casters: Multi-motor coordination and singularity avoidance. , 2015, , .		5
52	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
53	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
54	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

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55	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
56	Nonlinear tracking control of underactuated cranes with load transferring and lowering: Theory and experimentation. Automatica, 2014, 50, 2350-2357.	3.0	82
57	Dynamics Analysis and Nonlinear Control of an Offshore Boom Crane. IEEE Transactions on Industrial Electronics, 2014, 61, 414-427.	5.2	136
58	An energy exchanging and dropping-based model-free output feedback crane control method. Mechatronics, 2013, 23, 549-558.	2.0	14
59	Energy coupling output feedback control of 4-DOF underactuated cranes with saturated inputs. Automatica, 2013, 49, 1318-1325.	3.0	150
60	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
61	A Novel Kinematic Coupling-Based Trajectory Planning Method for Overhead Cranes. IEEE/ASME Transactions on Mechatronics, 2012, 17, 166-173.	3.7	179
62	Motion-Estimation-Based Visual Servoing of Nonholonomic Mobile Robots. , 2011, 27, 1167-1175.		109