Yong-Chun Fang

List of Publications by Year
in descending order

		53794	82547
157 papers	6,187 citations	45 h-index	72 g-index
161 all docs	161 docs citations	161 times ranked	2709 citing authors

#	Article	IF	Citations
1	Neuroadaptive Control for Complicated Underactuated Systems With Simultaneous Output and Velocity Constraints Exerted on Both Actuated and Unactuated States. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 4488-4498.	11.3	61
2	Neural Network-Based Hybrid Three-Dimensional Position Control for a Flapping Wing Aerial Vehicle. IEEE Transactions on Cybernetics, 2023, 53, 6095-6108.	9.5	4
3	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.	5.2	9
4	Bridging the Gap Between Visual Servoing and Visual SLAM: A Novel Integrated Interactive Framework. IEEE Transactions on Automation Science and Engineering, 2022, 19, 2245-2255.	5.2	7
5	New Adaptive Control Methods for n-Link Robot Manipulators With Online Gravity Compensation: Design and Experiments. IEEE Transactions on Industrial Electronics, 2022, 69, 539-548.	7.9	47
6	Energy-Based Motion Control for Pneumatic Artificial Muscle Actuated Robots With Experiments. IEEE Transactions on Industrial Electronics, 2022, 69, 7295-7306.	7.9	36
7	Online Antiswing Trajectory Planning for a Practical Rubber Tire Container Gantry Crane. IEEE Transactions on Industrial Electronics, 2022, 69, 6193-6203.	7.9	8
8	Adaptive Fuzzy Control for a Class of MIMO Underactuated Systems With Plant Uncertainties and Actuator Deadzones: Design and Experiments. IEEE Transactions on Cybernetics, 2022, 52, 8213-8226.	9.5	113
9	Virtual-Goal-Guided RRT for Visual Servoing of Mobile Robots With FOV Constraint. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 2073-2083.	9.3	18
10	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.	9.3	30
11	Adaptive Fuzzy Control for Uncertain Mechatronic Systems With State Estimation and Input Nonlinearities. IEEE Transactions on Industrial Informatics, 2022, 18, 1770-1780.	11.3	23
12	New Adaptive Dynamic Output Feedback Control of Double-Pendulum Ship-Mounted Cranes With Accurate Gravitational Compensation and Constrained Inputs. IEEE Transactions on Industrial Electronics, 2022, 69, 9196-9205.	7.9	11
13	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.	11.3	25
14	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.	5.8	10
15	Multi-objective Trajectory Planning with State Constraints for 5-DOF Underactuated Tower Crane Systems. Lecture Notes in Electrical Engineering, 2022, , 710-728.	0.4	2
16	An Intelligent AFM Scanning Strategy Based on Autonomous Exploration. IEEE/ASME Transactions on Mechatronics, 2022, 27, 1750-1760.	5.8	5
17	Adaptive Coupling Anti-Swing Tracking Control of Underactuated Dual Boom Crane Systems. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 4697-4709.	9.3	15
18	Neural network-based adaptive command filtering control for pneumatic artificial muscle robots with input uncertainties. Control Engineering Practice, 2022, 118, 104960.	5.5	11

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19	Learning-Based Error-Constrained Motion Control for Pneumatic Artificial Muscle-Actuated Exoskeleton Robots With Hardware Experiments. IEEE Transactions on Automation Science and Engineering, 2022, 19, 3700-3711.	5.2	6
20	Adaptive Neural Network Output Feedback Control of Uncertain Underactuated Systems With Actuated and Unactuated State Constraints. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 7027-7043.	9.3	44
21	E^{3}MoP: Efficient Motion Planning Based on Heuristic-Guided Motion Primitives Pruning and Path Optimization With Sparse-Banded Structure. IEEE Transactions on Automation Science and Engineering, 2022, 19, 2762-2775.	5.2	16
22	Nonlinear Output Feedback Control of Three-Dimensional Underactuated Shipboard Rotary Cranes. Lecture Notes in Electrical Engineering, 2022, , 43-56.	0.4	1
23	A Time-Optimal Trajectory Planning Strategy for an Aircraft With a Suspended Payload via Optimization and Learning Approaches. IEEE Transactions on Control Systems Technology, 2022, 30, 2333-2343.	5.2	4
24	Neural network-based adaptive sliding mode control for underactuated dual overhead cranes suffering from matched and unmatched disturbances. Autonomous Intelligent Systems, 2022, 2, .	3.1	5
25	Fast Active Aerial Exploration for Traversable Path Finding of Ground Robots in Unknown Environments. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-13.	4.7	8
26	Disturbance Compensation-Based Nonlinear Control for Pneumatic Artificial Muscle Systems With Hardware Experiments. Journal of Physics: Conference Series, 2022, 2213, 012033.	0.4	0
27	Observer-based adaptive fuzzy control of underactuated offshore cranes for cargo stabilization with respect to ship decks. Mechanism and Machine Theory, 2022, 175, 104927.	4.5	15
28	Amplitude-Limited Optimal Control for Robot Manipulators Actuated by Pneumatic Artificial Muscles. , 2022, , .		0
29	Online trajectory planning for three-dimensional offshore boom cranes. Automation in Construction, 2022, 140, 104372.	9.8	5
30	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.	7.9	71
31	Nonlinear Control for Aerial Transportation Systems With Double-Pendulum Swing Effects. IEEE Transactions on Industrial Electronics, 2021, 68, 6020-6030.	7.9	16
32	A neuroadaptive control method for pneumatic artificial muscle systems with hardware experiments. Mechanical Systems and Signal Processing, 2021, 146, 106976.	8.0	23
33	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.	11.3	66
34	A Novel Robust Observer-Based Nonlinear Trajectory Tracking Control Strategy for Quadrotors. IEEE Transactions on Control Systems Technology, 2021, 29, 1952-1963.	5.2	32
35	Nonlinear Sliding Mode Tracking Control of Underactuated Tower Cranes. International Journal of Control, Automation and Systems, 2021, 19, 1065-1077.	2.7	27
36	An Effective Correction Method for AFM Image Distortion due to Hysteresis and Thermal Drift. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-12.	4.7	5

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37	A Nonlinear Control Approach for Aerial Transportation Systems With Improved Antiswing and Positioning Performance. IEEE Transactions on Automation Science and Engineering, 2021, 18, 2104-2114.	5.2	16
38	Visual tracking of mobile robots with both velocity and acceleration saturation constraints. Mechanical Systems and Signal Processing, 2021, 150, 107274.	8.0	15
39	Adaptive Nonlinear Hierarchical Control for a Rotorcraft Transporting a Cable-Suspended Payload. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 4171-4182.	9.3	32
40	Gain-adapting coupling control for a class of underactuated mechanical systems. Automatica, 2021, 125, 109461.	5.0	7
41	Error Constrained Hybrid Force/Position Control of a Grinding Robot. , 2021, , .		0
42	Modeling and nonlinear energy-based anti-swing control of underactuated dual ship-mounted crane systems. Nonlinear Dynamics, 2021, 106, 323-338.	5.2	9
43	Nonlinear antiswing control for offshore boom cranes subject to ship roll and heave disturbances. Automation in Construction, 2021, 131, 103843.	9.8	11
44	MRPB 1.0: A Unified Benchmark for the Evaluation of Mobile Robot Local Planning Approaches. , 2021, , .		15
45	A novel disturbance observer based sliding mode combined repetitive learning control strategy for large range nanopositioning system. , 2021, , .		0
46	A Novel Framework for Autonomous Landing of the Quadrotor on the Moving Platform by Onboard Vision Sensors. , 2021, , .		0
47	Collaborative Antiswing Hoisting Control for Dual Rotary Cranes with Motion Constraints. IEEE Transactions on Industrial Informatics, 2021, , 1-1.	11.3	7
48	Nonlinear Control for Dual-Rope Aerial Transportation System by Tilt-Rotor. , 2021, , .		0
49	A Novel Geometric Hierarchical Approach for Dynamic Visual Servoing of Quadrotors. IEEE Transactions on Industrial Electronics, 2020, 67, 3840-3849.	7.9	44
50	Neural Network-Based Adaptive Antiswing Control of an Underactuated Ship-Mounted Crane With Roll Motions and Input Dead Zones. IEEE Transactions on Neural Networks and Learning Systems, 2020, 31, 901-914.	11.3	208
51	Adaptive Output-Feedback Control for Dual Overhead Crane System With Enhanced Anti-Swing Performance. IEEE Transactions on Control Systems Technology, 2020, 28, 2235-2248.	5.2	22
52	Adaptive Control for Pneumatic Artificial Muscle Systems With Parametric Uncertainties and Unidirectional Input Constraints. IEEE Transactions on Industrial Informatics, 2020, 16, 969-979.	11.3	122
53	A Path-Integral-Based Reinforcement Learning Algorithm for Path Following of an Autoassembly Mobile Robot. IEEE Transactions on Neural Networks and Learning Systems, 2020, 31, 4487-4499.	11.3	21
54	CAE-RLSM: Consistent and Efficient Redundant Line Segment Merging for Online Feature Map Building. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 4222-4237.	4.7	9

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55	Gated recurrent unit based frequency-dependent hysteresis modeling and end-to-end compensation. Mechanical Systems and Signal Processing, 2020, 136, 106501.	8.0	16
56	Unmanned Quadrotor Transportation Systems with Payload Hoisting/Lowering: Dynamics Modeling and Controller Design. , 2020, , .		3
57	An Adaptive Fuzzy Control Method of Single-Link Flexible Manipulators with Input Dead-Zones. International Journal of Fuzzy Systems, 2020, 22, 2521-2533.	4.0	8
58	Attitude-Constrained Time-Optimal Trajectory Planning for Rotorcrafts: Theory and Application to Visual Servoing. IEEE/ASME Transactions on Mechatronics, 2020, 25, 1912-1921.	5.8	23
59	Point-to-point motion control for flexible crane systems working in the deep sea. Measurement and Control, 2020, 53, 1041-1048.	1.8	1
60	A Novel Topography and Elasticity Synchronous Measure Approach With an AFM. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 8401-8410.	4.7	1
61	Distributed Optimization of Visual Sensor Networks for Coverage of a Large-Scale 3-D Scene. IEEE/ASME Transactions on Mechatronics, 2020, 25, 2777-2788.	5.8	9
62	Real-Time Acceleration-Continuous Path-Constrained Trajectory Planning With Built-In Tradeoff Between Cruise and Time-Optimal Motions. IEEE Transactions on Automation Science and Engineering, 2020, 17, 1911-1924.	5.2	28
63	Dynamic Image-Based Output Feedback Control for Visual Servoing of Multirotors. IEEE Transactions on Industrial Informatics, 2020, 16, 7624-7636.	11.3	28
64	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.	5.2	74
65	Precise Cell Injection and Extraction Control Based on Microscopic Visual Feedback. IEEE/ASME Transactions on Mechatronics, 2020, 25, 872-881.	5.8	14
66	An Optimized Scanning-Based AFM Fast Imaging Method. IEEE/ASME Transactions on Mechatronics, 2020, 25, 535-546.	5.8	4
67	Auto-tuning nonlinear PID-type controller for rotorcraft-based aggressive transportation. Mechanical Systems and Signal Processing, 2020, 145, 106858.	8.0	14
68	A Simple Antiswing Input Shaper for Dual Boom Cranes. , 2020, , .		1
69	Nonlinear coordination control of offshore boom cranes with bounded control inputs. International Journal of Robust and Nonlinear Control, 2019, 29, 1165-1181.	3.7	27
70	Visual Servoing of Wheeled Mobile Robots Without Desired Images. IEEE Transactions on Cybernetics, 2019, 49, 2835-2844.	9.5	25
71	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.	8.0	51
72	Motion Trajectory-Based Transportation Control for 3-D Boom Cranes: Analysis, Design, and Experiments. IEEE Transactions on Industrial Electronics, 2019, 66, 3636-3646.	7.9	32

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73	Quaternion-Based Hybrid Attitude Control for an Under-Actuated Flapping Wing Aerial Vehicle. IEEE/ASME Transactions on Mechatronics, 2019, 24, 2341-2352.	5.8	7
74	A Robust Control Approach for Double-Pendulum Overhead Cranes With Unknown Disturbances. , 2019, , .		3
75	An adaptive tracking control method with swing suppression for 4-DOF tower crane systems. Mechanical Systems and Signal Processing, 2019, 123, 426-442.	8.0	78
76	Nonlinear Stable Transportation Control for Double-Pendulum Shipboard Cranes With Ship-Motion-Induced Disturbances. IEEE Transactions on Industrial Electronics, 2019, 66, 9467-9479.	7.9	41
77	The effects of fluorene-9-bisphenol on female zebrafish (Danio rerio) reproductive and exploratory behaviors. Chemosphere, 2019, 228, 398-411.	8.2	29
78	Trajectory planning-based control of underactuated wheeled inverted pendulum robots. Science China Information Sciences, 2019, 62, 1.	4.3	4
79	A Continuous Robust Attitude Control Approach for Quadrotors Subject to Disturbance. , 2019, , .		0
80	Any Curve Path Following of Snake-like Robots. , 2019, , .		2
81	A Novel Nonlinear Control Scheme for Double-Pendulum Quadrotor Transportation Systems. , 2019, , .		3
82	Tree-Search-Based Any-Time Time-Optimal Path-Constrained Trajectory Planning With Inadmissible Island Constraints. IEEE Access, 2019, 7, 1040-1051.	4.2	6
83	Dynamic Feedback Antiswing Control of Shipboard Cranes Without Velocity Measurement: Theory and Hardware Experiments. IEEE Transactions on Industrial Informatics, 2019, 15, 2879-2891.	11.3	27
84	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.	5.2	43
85	Antiswing Cargo Transportation of Underactuated Tower Crane Systems by a Nonlinear Controller Embedded With an Integral Term. IEEE Transactions on Automation Science and Engineering, 2019, 16, 1387-1398.	5.2	68
86	A Novel Energy-Coupling-Based Hierarchical Control Approach for Unmanned Quadrotor Transportation Systems. IEEE/ASME Transactions on Mechatronics, 2019, 24, 248-259.	5.8	65
87	Enhanced-coupling adaptive control for double-pendulum overhead cranes with payload hoisting and lowering. Automatica, 2019, 101, 241-251.	5.0	40
88	Transportation Control of Double-Pendulum Cranes With a Nonlinear Quasi-PID Scheme: Design and Experiments. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2019, 49, 1408-1418.	9.3	170
89	Multilevel Humanlike Motion Planning for Mobile Robots in Complex Indoor Environments. IEEE Transactions on Automation Science and Engineering, 2019, 16, 1244-1258.	5.2	53
90	Guided Motion Planning for Snake-like Robots Based on Geometry Mechanics and HJB Equation. IEEE Transactions on Industrial Electronics, 2019, 66, 7120-7130.	7.9	17

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91	Autonomous Indoor Exploration Via Polygon Map Construction and Graph-Based SLAM Using Directional Endpoint Features. IEEE Transactions on Automation Science and Engineering, 2019, 16, 1531-1542.	5.2	35
92	An Increased Nonlinear Coupling Motion Controller for Underactuated Multi-TORA Systems: Theoretical Design and Hardware Experimentation. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2019, 49, 1186-1193.	9.3	26
93	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.	9.3	88
94	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.	9.3	56
95	Complete and Time-Optimal Path-Constrained Trajectory Planning With Torque and Velocity Constraints: Theory and Applications. IEEE/ASME Transactions on Mechatronics, 2018, 23, 735-746.	5.8	61
96	A line segment extraction algorithm using laser data based on seeded region growing. International Journal of Advanced Robotic Systems, 2018, 15, 172988141875524.	2.1	23
97	Dynamics analysis and time-optimal motion planning for unmanned quadrotor transportation systems. Mechatronics, 2018, 50, 16-29.	3.3	54
98	Continuous Sliding Mode Control Strategy for a Class of Nonlinear Underactuated Systems. IEEE Transactions on Automatic Control, 2018, 63, 3471-3478.	5.7	106
99	Nonlinear control for underactuated multi-rope cranes: Modeling, theoretical design and hardware experiments. Control Engineering Practice, 2018, 76, 123-132.	5.5	11
100	A Novel Serpentine Gait Generation Method for Snakelike Robots Based on Geometry Mechanics. IEEE/ASME Transactions on Mechatronics, 2018, 23, 1249-1258.	5.8	19
101	Modeling and nonlinear coordination control for an underactuated dual overhead crane system. Automatica, 2018, 91, 244-255.	5.0	41
102	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.	9.3	119
103	Antiswing Control of Offshore Boom Cranes With Ship Roll Disturbances. IEEE Transactions on Control Systems Technology, 2018, 26, 740-747.	5.2	55
104	Visual Servo Regulation of Wheeled Mobile Robots With Simultaneous Depth Identification. IEEE Transactions on Industrial Electronics, 2018, 65, 460-469.	7.9	52
105	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.	7.9	57
106	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.	8.0	115
107	Nonlinear Hierarchical Control for Unmanned Quadrotor Transportation Systems. IEEE Transactions on Industrial Electronics, 2018, 65, 3395-3405.	7.9	122
108	Neural Network Based Adaptive Feedback Control for Tower Cranes. , 2018, , .		2

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109	Payload Lifting Control of Underactuated Boom Cranes Using Sliding Mode Theory. , 2018, , .		0
110	Dynamics Modeling and Analysis for Cooperative Dual Rotary Crane Systems. , 2018, , .		2
111	Differential Flatness-Based Robust Control of Self-balanced Robots. IFAC-PapersOnLine, 2018, 51, 949-954.	0.9	4
112	Nonlinear time-optimal trajectory planning for varying-rope-length overhead cranes. Assembly Automation, 2018, 38, 587-594.	1.7	17
113	A Visual Distance Approach for Multicamera Deployment With Coverage Optimization. IEEE/ASME Transactions on Mechatronics, 2018, 23, 1007-1018.	5.8	28
114	An Energy-based Nonlinear Coupling Control for Offshore Ship-mounted Cranes. International Journal of Automation and Computing, 2018, 15, 570-581.	4.5	17
115	Nonlinear Motion Control of Underactuated Three-Dimensional Boom Cranes With Hardware Experiments. IEEE Transactions on Industrial Informatics, 2018, 14, 887-897.	11.3	53
116	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.	5.2	145
117	Essential Properties of Numerical Integration for Time-Optimal Path-Constrained Trajectory Planning. IEEE Robotics and Automation Letters, 2017, 2, 888-895.	5.1	32
118	Adaptive repetitive learning control for an offshore boom crane. Automatica, 2017, 82, 21-28.	5.0	55
119	Nonlinear Stabilization Control of Multiple-RTAC Systems Subject to Amplitude-Restricted Actuating Torques Using Only Angular Position Feedback. IEEE Transactions on Industrial Electronics, 2017, 64, 3084-3094.	7.9	34
120	Amplitude-Saturated Nonlinear Output Feedback Antiswing Control for Underactuated Cranes With Double-Pendulum Cargo Dynamics. IEEE Transactions on Industrial Electronics, 2017, 64, 2135-2146.	7.9	185
121	Sliding mode control for underactuated overhead cranes suffering from both matched and unmatched disturbances. Mechatronics, 2017, 47, 116-125.	3.3	56
122	Behavioural effect of low-dose BPA on male zebrafish: Tuning of male mating competition and female mating preference during courtship process. Chemosphere, 2017, 169, 40-52.	8.2	37
123	Visual Servoing of Nonholonomic Mobile Robots With Uncalibrated Camera-to-Robot Parameters. IEEE Transactions on Industrial Electronics, 2017, 64, 390-400.	7.9	83
124	Nonlinear Continuous Global Stabilization Control for Underactuated RTAC Systems: Design, Analysis, and Experimentation. IEEE/ASME Transactions on Mechatronics, 2017, 22, 1104-1115.	5.8	73
125	A varying set-point AFM scanning method for simultaneous measurement of sample topography and elasticity. , 2017, , .		1
126	Global homography calibration for monocular vision-based pose measurement of mobile robots. International Journal of Intelligent Robotics and Applications, 2017, 1, 372-382.	2.8	1

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127	A Practical Visual Positioning Method for Industrial Overhead Crane Systems. Lecture Notes in Computer Science, 2017, , 16-25.	1.3	2
128	Visual Servoing of Mobile Robots with Input Saturation at Kinematic Level. Lecture Notes in Computer Science, 2017, , 432-442.	1.3	3
129	Dynamics Analysis of Underactuated Cherrypicker Systems with Friction. Lecture Notes in Computer Science, 2017, , 345-354.	1.3	0
130	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.	7.9	98
131	Adaptive positioning and swing suppression control of underactuated cranes exhibiting double-pendulum dynamics: Theory and experimentation. , 2016, , .		6
132	Optimal trajectory planning and tracking control method for overhead cranes. IET Control Theory and Applications, 2016, 10, 692-699.	2.1	75
133	A Swing Constraint Guaranteed MPC Algorithm for Underactuated Overhead Cranes. IEEE/ASME Transactions on Mechatronics, 2016, 21, 2543-2555.	5.8	103
134	Geometric adaptive dynamic visual servoing of a quadrotor UAV. , 2016, , .		5
135	Dynamics analysis of an offshore ship-mounted crane subject to sea wave disturbances. , 2016, , .		5
136	Visual Servo Regulation of Wheeled Mobile Robots With an Uncalibrated Onboard Camera. IEEE/ASME Transactions on Mechatronics, 2016, 21, 2330-2342.	5.8	35
137	Model-Free Unified Tracking and Regulation Visual Servoing of Wheeled Mobile Robots. IEEE Transactions on Control Systems Technology, 2016, 24, 1328-1339.	5.2	44
138	A learning strategy based partial feedback linearization control method for an offshore boom crane. , 2015, , .		10
139	Super-twisting-based antiswing control for underactuated double pendulum cranes. , 2015, , .		10
140	Trajectory planning of omnidirectional mobile robots with active casters: Multi-motor coordination and singularity avoidance. , 2015, , .		5
141	3-D Model-Based Multi-Camera Deployment: A Recursive Convex Optimization Approach. IEEE/ASME Transactions on Mechatronics, 2015, 20, 3157-3169.	5.8	40
142	Adaptive Nonlinear Crane Control With Load Hoisting/Lowering and Unknown Parameters: Design and Experiments. IEEE/ASME Transactions on Mechatronics, 2015, 20, 2107-2119.	5.8	116
143	Visual servoing of mobile robots for posture stabilization: from theory to experiments. International Journal of Robust and Nonlinear Control, 2015, 25, 1-15.	3.7	68
144	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.	7.9	100

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145	ESSENTIAL-MATRIX-BASED VISUAL SERVOING OF MOBILE ROBOTS WITHOUT SHORT BASELINE DEGENERATION. International Journal of Robotics and Automation, 2015, 30, .	0.1	2
146	Minimum-Time Trajectory Planning for Underactuated Overhead Crane Systems With State and Control Constraints. IEEE Transactions on Industrial Electronics, 2014, 61, 6915-6925.	7.9	107
147	Development of functional biointerfaces by surface modification of polydimethylsiloxane with bioactive chlorogenic acid. Colloids and Surfaces B: Biointerfaces, 2014, 116, 700-706.	5.0	18
148	Composite iterative learning controller design for gradually varying references with applications in an AFM system. Journal of Central South University, 2014, 21, 180-189.	3.0	3
149	Nonlinear tracking control of underactuated cranes with load transferring and lowering: Theory and experimentation. Automatica, 2014, 50, 2350-2357.	5.0	82
150	Dynamics Analysis and Nonlinear Control of an Offshore Boom Crane. IEEE Transactions on Industrial Electronics, 2014, 61, 414-427.	7.9	136
151	An energy exchanging and dropping-based model-free output feedback crane control method. Mechatronics, 2013, 23, 549-558.	3.3	14
152	Energy coupling output feedback control of 4-DOF underactuated cranes with saturated inputs. Automatica, 2013, 49, 1318-1325.	5.0	150
153	Adaptive Active Visual Servoing of Nonholonomic Mobile Robots. IEEE Transactions on Industrial Electronics, 2012, 59, 486-497.	7.9	118
154	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.	7.9	173
155	A Novel Kinematic Coupling-Based Trajectory Planning Method for Overhead Cranes. IEEE/ASME Transactions on Mechatronics, 2012, 17, 166-173.	5.8	179
156	Motion-Estimation-Based Visual Servoing of Nonholonomic Mobile Robots. , 2011, 27, 1167-1175.		109
157	Homography-Based Visual Servo Regulation of Mobile Robots. IEEE Transactions on Systems, Man, and Cybernetics, 2005, 35, 1041-1050.	5.0	174