

Yu Liu

List of Publications by Year in descending order

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papers

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430442

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83
all docs

83
docs citations

83
times ranked

514
citing authors

#	ARTICLE	IF	CITATIONS
1	Modeling and Observer-Based Vibration Control of a Flexible Spacecraft With External Disturbances. IEEE Transactions on Industrial Electronics, 2019, 66, 8648-8658.	5.2	161
2	Boundary Control for an Axially Moving System With Input Restriction Based on Disturbance Observers. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2019, 49, 2242-2253.	5.9	111
3	Adaptive boundary control of an axially moving belt system with high acceleration/deceleration. IET Control Theory and Applications, 2016, 10, 1299-1306.	1.2	105
4	Observer-based boundary control for an asymmetric output-constrained flexible robotic manipulator. Science China Information Sciences, 2022, 65, 1.	2.7	90
5	Boundary control of an axially moving accelerated/decelerated belt system. International Journal of Robust and Nonlinear Control, 2016, 26, 3849-3866.	2.1	80
6	Output feedback boundary control of an axially moving system with input saturation constraint. ISA Transactions, 2017, 68, 22-32.	3.1	78
7	Modelling and control for a class of axially moving nonuniform system. International Journal of Systems Science, 2017, 48, 849-861.	3.7	59
8	Adaptive Neural Network Control of a Flexible Spacecraft Subject to Input Nonlinearity and Asymmetric Output Constraint. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 6226-6234.	7.2	59
9	Stabilization of an axially moving accelerated/decelerated system via an adaptive boundary control. ISA Transactions, 2016, 64, 394-404.	3.1	58
10	Asymmetric Input-Output Constraint Control of a Flexible Variable-Length Rotary Crane Arm. IEEE Transactions on Cybernetics, 2022, 52, 10582-10591.	6.2	48
11	Vibration control and boundary tension constraint of an axially moving string system. Nonlinear Dynamics, 2017, 89, 2431-2440.	2.7	40
12	Observer-based backstepping boundary control for a flexible riser system. Mechanical Systems and Signal Processing, 2018, 111, 314-330.	4.4	39
13	Boundary Control of a Rotating and Length-Varying Flexible Robotic Manipulator System. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 377-386.	5.9	38
14	Adaptive Lyapunov-based backstepping control for an axially moving system with input saturation. IET Control Theory and Applications, 2016, 10, 2083-2092.	1.2	34
15	Boundary control of an axially moving system with high acceleration/deceleration and disturbance observer. Journal of the Franklin Institute, 2017, 354, 2905-2923.	1.9	27
16	Adaptive stabilisation of a flexible riser by using the Lyapunov-based barrier backstepping technique. IET Control Theory and Applications, 2017, 11, 2252-2260.	1.2	27
17	Boundary barrier-based control of a flexible riser system. IET Control Theory and Applications, 2017, 11, 923-930.	1.2	20
18	Robust output feedback stabilization for a flexible marine riser system. ISA Transactions, 2018, 78, 130-140.	3.1	20

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19	Boundary Control for a Vibrating String System with Bounded Input. Asian Journal of Control, 2018, 20, 323-331.	1.9	19
20	Synchronization Rather Than Finite-Time Synchronization Results of Fractional-Order Multi-Weighted Complex Networks. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 7052-7063.	7.2	18
21	Modeling and boundary control of a flexible marine riser coupled with internal fluid dynamics. Journal of Control Theory and Applications, 2013, 11, 316-323.	0.8	17
22	Output feedback boundary control of a flexible marine riser system. JVC/Journal of Vibration and Control, 2018, 24, 3617-3630.	1.5	16
23	Vibration suppression and output constraint of a variable length drilling riser system. Journal of the Franklin Institute, 2019, 356, 1177-1195.	1.9	16
24	Neural Network-Based Adaptive Boundary Control of a Flexible Riser With Input Deadzone and Output Constraint. IEEE Transactions on Cybernetics, 2022, 52, 13120-13128.	6.2	16
25	A Rail Surface Defect Detection Method Based on Pyramid Feature and Lightweight Convolutional Neural Network. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-10.	2.4	16
26	Surface Quality Assurance Method for Lithium-Ion Battery Electrode Using Concentration Compensation and Partiality Decision Rules. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 3157-3169.	2.4	15
27	A deep reinforcement learning based searching method for source localization. Information Sciences, 2022, 588, 67-81.	4.0	15
28	Boundary output feedback control of a flexible spacecraft system with input constraint. IET Control Theory and Applications, 2018, 12, 571-581.	1.2	14
29	Automatic Defect Inspection for Monocrystalline Solar Cell Interior by Electroluminescence Image Self-Comparison Method. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-11.	2.4	14
30	Dynamic RGB-D SLAM Based on Static Probability and Observation Number. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-11.	2.4	13
31	Human-Robot Variable Impedance Skills Transfer Learning Based on Dynamic Movement Primitives. IEEE Robotics and Automation Letters, 2022, 7, 6463-6470.	3.3	12
32	Adaptive Neural Network Output-Constraint Control for a Variable-Length Rotary Arm With Input Backlash Nonlinearity. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 4741-4749.	7.2	11
33	Vibration Suppression of a Flexible Riser by Boundary Iterative Learning Control. IEEE Access, 2019, 7, 130262-130269.	2.6	10
34	A Vector-Based Constrained Obstacle Avoidance Scheme for Wheeled Mobile Redundant Robot Manipulator. IEEE Transactions on Cognitive and Developmental Systems, 2021, 13, 465-474.	2.6	10
35	Adaptive Neural Network Vibration Control for an Output-Tension-Constrained Axially Moving Belt System With Input Nonlinearity. IEEE/ASME Transactions on Mechatronics, 2022, 27, 656-665.	3.7	10
36	Adaptive vibration control of a flexible marine riser via the backstepping technique and disturbance adaptation. Transactions of the Institute of Measurement and Control, 2018, 40, 1407-1416.	1.1	9

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37	A CISG Method for Internal Defect Detection of Solar Cells in Different Production Processes. IEEE Transactions on Industrial Electronics, 2022, 69, 8452-8462.	5.2	9
38	Vibration suppression of an Euler-Bernoulli beam by backstepping iterative learning control. IET Control Theory and Applications, 2019, 13, 2630-2637.	1.2	9
39	Adaptive Deformation Control of a Flexible Variable-Length Rotary Crane Arm With Asymmetric Input-Output Constraints. IEEE Transactions on Cybernetics, 2022, 52, 13752-13761.	6.2	9
40	Boundary Iterative Learning Control of a Flexible Riser With Input Saturation and Output Constraint. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 7044-7052.	5.9	8
41	Source searching in unknown obstructed environments through source estimation, target determination, and path planning. Building and Environment, 2022, 221, 109266.	3.0	8
42	Adaptive output feedback boundary control for a class of axially moving system. IET Control Theory and Applications, 2019, 13, 213-221.	1.2	7
43	Locally Weighted Learning Robot Control With Improved Parameter Convergence. IEEE Transactions on Industrial Electronics, 2022, 69, 13236-13244.	5.2	7
44	Stability and Control Analysis Based on Airship Dynamic Modeling. , 2007, , .		6
45	Multiple Guidance Network for Industrial Product Surface Inspection With One Labeled Target Sample. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 10324-10333.	7.2	6
46	Vibration control of an axially moving accelerated/decelerated belt system with input saturation. Transactions of the Institute of Measurement and Control, 2018, 40, 685-697.	1.1	5
47	Adaptive boundary control and vibration suppression of a flexible satellite system with input saturation. Transactions of the Institute of Measurement and Control, 2019, 41, 2666-2677.	1.1	5
48	SVM-based Elevator Traffic Flow Prediction. , 2006, , .		4
49	Infinite-dimensional disturbance-observer-based control for an axially moving non-uniform system with input constraint. Transactions of the Institute of Measurement and Control, 2018, 40, 3525-3533.	1.1	3
50	Backstepping Technology-Based Adaptive Boundary ILC for an Input-Output-Constrained Flexible Beam. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 9314-9322.	7.2	3
51	Optimal Path Planning for Autonomous Airship Based on Clonal Selection and Direct Collocation Algorithm. , 2008, , .		2
52	Active control of a flexible marine riser system. , 2014, , .		2
53	Vibration control for a flexible spacecraft in the presence of external disturbance. , 2018, , .		2
54	Stabilisation of a Flexible Spacecraft Subject to External Disturbance and Uncertainties. Complexity, 2020, 2020, 1-13.	0.9	2

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55	Boundary Iterative Learning Control of an Euler-Bernoulli Beam System. Lecture Notes in Computer Science, 2017, , 239-247.	1.0	2
56	Geometric deviation modeling by kinematic matrix based on Lagrangian coordinate. Chinese Journal of Mechanical Engineering (English Edition), 2015, 28, 1056-1066.	1.9	1
57	Vibration suppression of a flexible marine riser by output feedback boundary control. , 2016, , .		1
58	A New Finite-Time Circadian Rhythms Learning Network for Solving Nonlinear and Nonconvex Optimization Problems With Periodic Noises. IEEE Transactions on Cybernetics, 2022, 52, 12514-12524.	6.2	1
59	RD-GRF for Automatic Classification of Surface Defects of Lithium-ion Battery Electrodes. , 2021, , .		1
60	Model-Based Verifying and Design of Autonomous Airship. Applied Mechanics and Materials, 2011, 66-68, 1748-1754.	0.2	0
61	Dynamics Research of an Autonomous Airship. Procedia Engineering, 2011, 15, 817-822.	1.2	0
62	Vibration boundary control of a flexible marine riser with high-gain observer. , 2016, , .		0
63	Vibration suppression of an axially moving system by adaptive boundary control. , 2016, , .		0
64	Nonlinear vibration control of an axially moving belt system by disturbance adaption. , 2016, , .		0
65	Vibration suppression of an axially moving system via boundary control and S-curve ac/deceleration methods. , 2016, , .		0
66	Vibration control of an axially moving system by using backstepping technique. , 2016, , .		0
67	Boundary control of an axially moving belt system via adaptive technique. , 2016, , .		0
68	Boundary disturbance rejection control for an axially moving nonuniform system. , 2017, , .		0
69	Adaptive control of a flexible riser system. , 2017, , .		0
70	Boundary control design for an axially moving ac-/decelerated system. , 2017, , .		0
71	Active control of a flexible riser system with input saturation via backstepping technique. , 2017, , .		0
72	Vibration Abatement Design for a Marine Riser System. , 2018, , .		0

#	ARTICLE	IF	CITATIONS
73	Adaptive Output Feedback Control of a Belt System. , 2019, , .		0
74	Vibration abatement design of an Euler-Bernoulli beam via boundary iterative learning control. , 2019, , .		0
75	Boundary Vibration Control of a Flexible Manipulator with External Disturbances. , 2019, , .		0
76	Angular Tracking and Vibration Control for a Flexible Variable Length Arm. , 2020, , .		0
77	Adaptive Neural Network Output Constraint Control for a Flexible Spacecraft System. , 2021, , .		0
78	Adaptive Vibration Iterative Learning Control of a Flexible Beam via Backstepping Technique. , 2021, , .		0
79	Neural Network Vibration Control of a Flexible Riser With Output Constraint. , 2021, , .		0
80	Modeling and control of a buoyancy-ballast driven airship. Shenzhen Daxue Xuebao (Ligong) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 462 T	0.1	0
81	Vibration Suppression of an Axially Moving System with Restrained Boundary Tension. Lecture Notes in Computer Science, 2017, , 257-265.	1.0	0
82	Adaptive Control of an Output Constrained Riser. Lecture Notes in Computer Science, 2017, , 248-256.	1.0	0