

Xiacong Li

List of Publications by Year in descending order

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Version: 2024-02-01

23
papers

273
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933447

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docs citations

23
times ranked

152
citing authors

#	ARTICLE	IF	CITATIONS
1	Data-Based Tuning of Reduced-Order Inverse Model in Both Disturbance Observer and Feedforward With Application to Tray Indexing. IEEE Transactions on Industrial Electronics, 2017, 64, 5492-5501.	7.9	51
2	Composite jerk feedforward and disturbance observer for robust tracking of flexible systems. Automatica, 2017, 80, 253-260.	5.0	41
3	Data-Driven Multiobjective Controller Optimization for a Magnetically Levitated Nanopositioning System. IEEE/ASME Transactions on Mechatronics, 2020, 25, 1961-1970.	5.8	32
4	Iterative Super-Twisting Sliding Mode Control for Tray Indexing System With Unknown Dynamics. IEEE Transactions on Industrial Electronics, 2021, 68, 9855-9865.	7.9	20
5	Enhanced sensitivity shaping by data-based tuning of disturbance observer with non-binomial filter. ISA Transactions, 2019, 85, 284-292.	5.7	17
6	Global Iterative Sliding Mode Control of an Industrial Biaxial Gantry System for Contouring Motion Tasks. IEEE/ASME Transactions on Mechatronics, 2022, 27, 1617-1628.	5.8	17
7	Grasping Detection Network with Uncertainty Estimation for Confidence-Driven Semi-Supervised Domain Adaptation. , 2020, , .		15
8	PID-like coupling control of underactuated overhead cranes with input constraints. Mechanical Systems and Signal Processing, 2022, 178, 109274.	8.0	14
9	Convex Parameterization and Optimization for Robust Tracking of a Magnetically Levitated Planar Positioning System. IEEE Transactions on Industrial Electronics, 2022, 69, 3798-3809.	7.9	11
10	Disturbance Compensation by Reference Profile Alteration With Application to Tray Indexing. IEEE Transactions on Industrial Electronics, 2019, 66, 9406-9416.	7.9	10
11	Feedforward Control With Disturbance Prediction for Linear Discrete-Time Systems. IEEE Transactions on Control Systems Technology, 2019, 27, 2340-2350.	5.2	10
12	Data-Driven Model-Free Iterative Tuning Approach for Smooth and Accurate Tracking. , 2018, , .		8
13	Convex Inner Approximation for Mixed H_2/H_∞ Control With Application to a 2-DoF Flexure-Based Nanopositioning System. IEEE Transactions on Industrial Electronics, 2022, 69, 1586-1596.	7.9	8
14	Weight Imprinting Classification-Based Force Grasping With a Variable-Stiffness Robotic Gripper. IEEE Transactions on Automation Science and Engineering, 2022, 19, 969-981.	5.2	7
15	Parameter Space Optimization Towards Constrained Controller Design With Application to Tray Indexing. IEEE Transactions on Industrial Electronics, 2020, 67, 5575-5585.	7.9	6
16	Generalized Iterative Super-Twisting Sliding Mode Control: A Case Study on Flexure-Joint Dual-Drive H-Gantry Stage. , 2021, , .		3
17	Data-driven optimization of disturbance observer and feedforward controller in a composite control structure. , 2016, , .		1
18	Set-point alteration scheme for improved disturbance compensation. , 2017, , .		1

#	ARTICLE	IF	CITATIONS
19	Second-Order NonConvex Optimization for Constrained Fixed-Structure Static Output Feedback Controller Synthesis. IEEE Transactions on Automatic Control, 2022, 67, 4854-4861.	5.7	1
20	Revised binary tree data-driven model for valve stiction. , 2014, , .		0
21	Adaptive Iterative Sliding Mode Control: Development, Synthesis, and Application of a Flexure-Joint Biaxial Gantry Stage. , 2021, , .		0
22	Learning-Based Controller Optimization for Repetitive Robotic Tasks. , 2020, , .		0
23	Robust Control of a Two-Degree-of-Freedom Flexure-Based Nanopositioner for Planar Scanning Tasks. , 2021, , .		0