

Shi-Lu Dai

List of Publications by Year in descending order

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Version: 2024-02-01

60
papers

2,547
citations

257101

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315357

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60
all docs

60
docs citations

60
times ranked

1332
citing authors

#	ARTICLE	IF	CITATIONS
1	Leader-Follower Formation Control of USVs With Prescribed Performance and Collision Avoidance. IEEE Transactions on Industrial Informatics, 2019, 15, 572-581.	7.2	293
2	Neural Learning Control of Marine Surface Vessels With Guaranteed Transient Tracking Performance. IEEE Transactions on Industrial Electronics, 2016, 63, 1717-1727.	5.2	261
3	Platoon Formation Control With Prescribed Performance Guarantees for USVs. IEEE Transactions on Industrial Electronics, 2018, 65, 4237-4246.	5.2	252
4	Identification and Learning Control of Ocean Surface Ship Using Neural Networks. IEEE Transactions on Industrial Informatics, 2012, 8, 801-810.	7.2	202
5	Adaptive Neural Control of Underactuated Surface Vessels With Prescribed Performance Guarantees. IEEE Transactions on Neural Networks and Learning Systems, 2019, 30, 3686-3698.	7.2	202
6	Dynamic Learning From Adaptive Neural Network Control of a Class of Nonaffine Nonlinear Systems. IEEE Transactions on Neural Networks and Learning Systems, 2014, 25, 111-123.	7.2	185
7	Scheduling-and-Control Codesign for a Collection of Networked Control Systems With Uncertain Delays. IEEE Transactions on Control Systems Technology, 2010, 18, 66-78.	3.2	123
8	Adaptive Leader-Follower Formation Control of Nonholonomic Mobile Robots With Prescribed Transient and Steady-State Performance. IEEE Transactions on Industrial Informatics, 2020, 16, 3662-3671.	7.2	104
9	Haptics Electromyography Perception and Learning Enhanced Intelligence for Teleoperated Robot. IEEE Transactions on Automation Science and Engineering, 2019, 16, 1512-1521.	3.4	81
10	Distributed Cooperative Learning Control of Uncertain Multiagent Systems With Prescribed Performance and Preserved Connectivity. IEEE Transactions on Neural Networks and Learning Systems, 2021, 32, 3217-3229.	7.2	65
11	Adaptive Leader-Follower Formation Control of Underactuated Surface Vehicles With Guaranteed Performance. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 1997-2008.	5.9	60
12	Asymptotic Trajectory Tracking Control With Guaranteed Transient Behavior for MSV With Uncertain Dynamics and External Disturbances. IEEE Transactions on Industrial Electronics, 2019, 66, 3712-3720.	5.2	59
13	Simultaneously Encoding Movement and sEMG-Based Stiffness for Robotic Skill Learning. IEEE Transactions on Industrial Informatics, 2021, 17, 1244-1252.	7.2	59
14	Transverse function control with prescribed performance guarantees for underactuated marine surface vehicles. International Journal of Robust and Nonlinear Control, 2019, 29, 1577-1596.	2.1	54
15	Robust adaptive control of a class of nonlinear strict-feedback discrete-time systems with exact output tracking. Automatica, 2009, 45, 2537-2545.	3.0	50
16	Adaptive neural formation control for underactuated unmanned surface vehicles with collision and connectivity constraints. Ocean Engineering, 2021, 226, 108834.	1.9	45
17	Learning from adaptive neural network output feedback control of uncertain ocean surface ship dynamics. International Journal of Adaptive Control and Signal Processing, 2014, 28, 341-365.	2.3	41
18	Fixed-Time Formation Control of Unicycle-Type Mobile Robots With Visibility and Performance Constraints. IEEE Transactions on Industrial Electronics, 2021, 68, 12615-12625.	5.2	40

#	ARTICLE	IF	CITATIONS
19	Mixed Reality Enhanced User Interactive Path Planning for Omnidirectional Mobile Robot. Applied Sciences (Switzerland), 2020, 10, 1135.	1.3	36
20	Distributed model reference adaptive containment control of heterogeneous uncertain multi-agent systems. ISA Transactions, 2019, 86, 73-86.	3.1	32
21	Cooperative Learning-Based Formation Control of Autonomous Marine Surface Vessels With Prescribed Performance. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 2565-2577.	5.9	32
22	Adaptive Finite-Time Tracking Control of Nonholonomic Multirobot Formation Systems With Limited Field-of-View Sensors. IEEE Transactions on Cybernetics, 2022, 52, 10695-10708.	6.2	32
23	Cooperative deterministic learning and formation control for underactuated USVs with prescribed performance. International Journal of Robust and Nonlinear Control, 2022, 32, 2902-2924.	2.1	27
24	Neural-network-based adaptive output-feedback formation tracking control of USVs under collision avoidance and connectivity maintenance constraints. Neurocomputing, 2020, 401, 101-112.	3.5	25
25	Robust adaptive output feedback control of a class of discrete-time nonlinear systems with nonlinear uncertainties and unknown control directions. International Journal of Robust and Nonlinear Control, 2013, 23, 1472-1495.	2.1	20
26	Transverse function approach to practical stabilisation of underactuated surface vessels with modelling uncertainties and unknown disturbances. IET Control Theory and Applications, 2017, 11, 2573-2584.	1.2	19
27	Adaptive Constrained Formation-Tracking Control for a Tractor-Trailer Mobile Robot Team With Multiple Constraints. IEEE Transactions on Automatic Control, 2023, 68, 1700-1707.	3.6	19
28	A sEMG-Based Shared Control System With No-Target Obstacle Avoidance for Omnidirectional Mobile Robots. IEEE Access, 2020, 8, 26030-26040.	2.6	18
29	Fixed-Time Path-Following Control of an Autonomous Vehicle With Path-Dependent Performance and Feasibility Constraints. IEEE Transactions on Intelligent Vehicles, 2023, 8, 458-468.	9.4	17
30	Disturbance observer enhanced variable gain controller for robot teleoperation with motion capture using wearable armbands. Autonomous Robots, 2020, 44, 1217-1231.	3.2	14
31	Deterministic learning enhanced neural network control of unmanned helicopter. International Journal of Advanced Robotic Systems, 2016, 13, 172988141667111.	1.3	13
32	Multirobot System Formation Control With Multiple Performance and Feasibility Constraints. IEEE Transactions on Control Systems Technology, 2022, 30, 1766-1773.	3.2	9
33	Performance-Guaranteed Tracking Control of an Autonomous Surface Vessel With Parametric Uncertainties and Time-Varying Disturbances. IEEE Access, 2019, 7, 101905-101914.	2.6	8
34	Similar Fault Isolation of Discrete-Time Nonlinear Uncertain Systems: An Adaptive Threshold Based Approach. IEEE Access, 2020, 8, 80755-80770.	2.6	8
35	Motion Planning for Mobile Robot with Modified BIT* and MPC. Applied Sciences (Switzerland), 2021, 11, 426.	1.3	7
36	A Fast Compression Framework Based on 3D Point Cloud Data for Telepresence. International Journal of Automation and Computing, 2020, 17, 855-866.	4.5	5

#	ARTICLE	IF	CITATIONS
37	Adaptive Line-of-Sight Tracking Control for a Tractor-Trailer Vehicle System With Multiple Constraints. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 11349-11360.	4.7	5
38	Distributed Adaptive Formation Control of MSVs With Prescribed Performance Under Undirected Graph. , 2018, , .		4
39	Tremor attenuation for surgical robots using support vector machine with parameters optimization. , 2018, , .		3
40	Intelligent adaptive learning and control for discrete-time nonlinear uncertain systems in multiple environments. Neurocomputing, 2021, 462, 31-45.	3.5	3
41	Learning control of uncertain ocean surface ship dynamics using neural networks. , 2011, , .		2
42	Performance-guaranteed control of an autonomous underwater vehicle subject to time-varying disturbances. , 2018, , .		2
43	Constrained Line-of-Sight Tracking Control of A Tractor-Trailer Mobile Robot System with Multiple Constraints. , 2021, , .		2
44	A Real-time Football Goalkeeper Robot System Based on Fuzzy Logic Control. , 2021, , .		2
45	Leader-follower formation control of fully actuated USVs with prescribed performance and collision avoidance. , 2017, , .		1
46	Platoon Formation Control of USVs With Output Tracking Error Constraints. , 2018, , .		1
47	Finite-time formation control of mobile robots under limited sensing range. , 2018, , .		1
48	Finite-Time Synchronization of Nonlinear Multi-Agent Systems with Prescribed Performance. , 2019, , .		1
49	Finite-Time Trajectory Tracking Control of MSV With Prescribed Transient Performance. , 2019, , .		1
50	A Robust Multi-Object Tracking SLAM System in Dynamic Scenes for Stereo and RGB-D Cameras. , 2021, , .		1
51	Adaptive Path-Following Control of An Autonomous Vehicle with Path-Dependent Constraint Requirements. , 2021, , .		1
52	Adaptive tracking control of underactuated surface vessels with model uncertainties. , 2017, , .		0
53	Trajectory tracking control of underactuated surface vessel with output tracking error constraints. , 2017, , .		0
54	Neural Network Control Using Composite Learning for USVs with Output Error Constraints. , 2019, , .		0

#	ARTICLE	IF	CITATIONS
55	Vision-Based Fixed-Time Platoon Formation Control of Multi-Agent Systems. , 2020, , .		0
56	Learning to Predict Action Based on B-ultrasound Image Information. , 2021, , .		0
57	Transverse Function Control for Underactuated MSV With Stochastic Disturbances Under Output Error Constraints. , 2021, , .		0
58	Adaptive Optimal Tracking Control for Uncertain Unmanned Surface Vessel via Reinforcement Learning. , 2021, , .		0
59	Neural Learning Control for Discrete-Time Autonomous Marine Surface Vessels. , 2020, , .		0
60	Vision-based Robot Handwriting Skill Reproduction and Generalization. , 2021, , .		0