

He Cai

List of Publications by Year in descending order

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50
papers

1,540
citations

516215

16
h-index

525886

27
g-index

60
all docs

60
docs citations

60
times ranked

1032
citing authors

#	ARTICLE	IF	CITATIONS
1	The adaptive distributed observer approach to the cooperative output regulation of linear multi-agent systems. <i>Automatica</i> , 2017, 75, 299-305.	3.0	302
2	The leader-following attitude control of multiple rigid spacecraft systems. <i>Automatica</i> , 2014, 50, 1109-1115.	3.0	201
3	The Leader-Following Consensus for Multiple Uncertain Euler-Lagrange Systems With an Adaptive Distributed Observer. <i>IEEE Transactions on Automatic Control</i> , 2016, 61, 3152-3157.	3.6	185
4	Leader-following attitude consensus of multiple rigid body systems by attitude feedback control. <i>Automatica</i> , 2016, 69, 87-92.	3.0	106
5	Leader-following consensus of multiple uncertain Euler-Lagrange systems under switching network topology. <i>International Journal of General Systems</i> , 2014, 43, 294-304.	1.2	83
6	A Distributed Feedforward Approach to Cooperative Control of AC Microgrids. <i>IEEE Transactions on Power Systems</i> , 2016, 31, 4057-4067.	4.6	71
7	Distributed Control Scheme for Package-Level State-of-Charge Balancing of Grid-Connected Battery Energy Storage System. <i>IEEE Transactions on Industrial Informatics</i> , 2016, 12, 1919-1929.	7.2	67
8	Adaptive Leader-Follower Formation Control of Underactuated Surface Vehicles With Guaranteed Performance. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2022, 52, 1997-2008.	5.9	60
9	Adaptive Neural Network Control of a Flexible Spacecraft Subject to Input Nonlinearity and Asymmetric Output Constraint. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2022, 33, 6226-6234.	7.2	59
10	Leader-following adaptive consensus of multiple uncertain rigid spacecraft systems. <i>Science China Information Sciences</i> , 2016, 59, 1-13.	2.7	54
11	Leader-following attitude consensus of multiple uncertain spacecraft systems subject to external disturbance. <i>International Journal of Robust and Nonlinear Control</i> , 2017, 27, 742-760.	2.1	49
12	Distributed Nonlinear Hierarchical Control of AC Microgrid via Unreliable Communication. <i>IEEE Transactions on Smart Grid</i> , 2018, 9, 2429-2441.	6.2	49
13	Asymmetric Input-Output Constraint Control of a Flexible Variable-Length Rotary Crane Arm. <i>IEEE Transactions on Cybernetics</i> , 2022, 52, 10582-10591.	6.2	48
14	Distributed Tracking Control of an Interconnected Leader-Follower Multiagent System. <i>IEEE Transactions on Automatic Control</i> , 2017, 62, 3494-3501.	3.6	39
15	Distributed Robust Hierarchical Power Sharing Control of Grid-Connected Spatially Concentrated AC Microgrid. <i>IEEE Transactions on Control Systems Technology</i> , 2019, 27, 1012-1022.	3.2	27
16	Output based adaptive distributed output observer for leader-follower multiagent systems. <i>Automatica</i> , 2021, 125, 109413.	3.0	23
17	Cooperative Control of Multi-agent Systems. <i>Advances in Industrial Control</i> , 2022, , .	0.4	17
18	Dynamic Consensus Tracking of Uncertain Lagrangian Systems With a Switched Command Generator. <i>IEEE Transactions on Automatic Control</i> , 2019, 64, 4260-4267.	3.6	9

#	ARTICLE	IF	CITATIONS
19	Distributed Tracking of Leader-Follower Multiagent Systems Subject to Disturbed Leader's Information. IEEE Access, 2020, 8, 227970-227981.	2.6	9
20	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
21	Leader-following Attitude Consensus of Multiple Rigid Body Systems by an Adaptive Distributed Observer Approach * *This work has been supported in part by the Research Grants Council of the Hong Kong Special Administration Region under grant No. 14219516.. IFAC-PapersOnLine, 2017, 50, 15446-15451.	0.5	8
22	Power Tracking and State-of-Energy Balancing of an Energy Storage System by Distributed Control. IEEE Access, 2020, 8, 170261-170270.	2.6	8
23	Consensus-based distributed package-level state-of-charge balancing for grid-connected battery energy storage system. , 2016, , .		7
24	Distributed power sharing control of grid-connected AC microgrid. , 2016, , .		6
25	Coordination of a Flywheel Energy Storage Matrix System: An External Model Approach. IEEE Access, 2021, 9, 34475-34486.	2.6	6
26	Distributed dual objective control of energy storage systems. , 2018, , .		5
27	The Attitude Consensus Problem via an Output Based Adaptive Distributed Observer Approach. , 2018, , .		5
28	Consensus-based distributed nonlinear hierarchical control of AC microgrid under switching communication network. , 2016, , .		4
29	Dynamic leader-following consensus of multiple uncertain Euler-Lagrange systems with a switched exosystem. , 2017, , .		4
30	Sign-consensus of multi-agent systems over fast switching signed graphs. , 2017, , .		3
31	Adaptive Leader-following Consensus of Multiple Uncertain Rigid Spacecraft Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 293-298.	0.4	2
32	Distributed Power Sharing Control of Grid-Connected AC Microgrid with Uncertain Plant. , 2019, , .		2
33	A unified distributed robust control framework for power sharing of grid-connected dispatchable distributed generator cluster. Advanced Control for Applications, 2020, 2, e47.	0.8	2
34	A Dynamic Leader-Follower Approach for Line Marching of Swarm Robots. Unmanned Systems, 2023, 11, 67-82.	2.7	2
35	A reduced-order distributed observer approach to attitude consensus of multiple rigid spacecraft systems. , 2013, , .		1
36	Unit quaternion-based output feedback control for leader-following attitude consensus of multiple rigid spacecraft systems. , 2014, , .		1

#	ARTICLE	IF	CITATIONS
37	Cooperative Output Regulation of Linear Multi-Agent Systems with a Switched Exosystem. , 2018, , .		1
38	Output Feedback Reinforcement Q-learning for Optimal Quadratic Tracking Control of Unknown Discrete-Time Linear Systems and Its Application. , 2018, , .		1
39	Cooperative Driven Algorithm for Sheep Herd Trajectory Tracking by Two Sheepdogs. , 2021, , .		1
40	Distributed Control for Bounded Time-Varying Power Sharing of Grid-Connected DDG Cluster. , 2021, , .		1
41	Sheepdog Driven Algorithm for Sheep Herd Transport. , 2021, , .		1
42	Cooperative output regulation for a class of nonlinear heterogeneous multi-agent systems. , 2017, , .		1
43	Cooperative Output Regulation of Linear Multi-agent Systems by Distributed Observer Approach. Advances in Industrial Control, 2022, , 231-257.	0.4	1
44	Cooperative Output Regulation of Linear Multi-agent Systems with a Switched Exosystem by Output Feedback Control. , 2018, , .		0
45	Cooperative Output Regulation of Multi-agent Systems with Randomly Switching Network. , 2018, , .		0
46	A Self-Organized Line Marching Formation Control Algorithm. , 2021, , .		0
47	Circle Flocking of Swarm Robots Based on Relative Position Measurement. , 2021, , .		0
48	Attitude Consensus of Multiple Rigid Body Systems by Output Based Adaptive Distributed Output Observer. , 2020, , .		0
49	Cooperative Control of A Flywheel Energy Storage System with Identical Damping. IFAC-PapersOnLine, 2020, 53, 12771-12776.	0.5	0
50	Stabilization of A Class of Nonlinear Systems Subject to Periodic Disturbances. , 2021, , .		0