

# He Cai

## List of Publications by Year in descending order

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50  
papers

1,540  
citations

516710

16  
h-index

526287

27  
g-index

60  
all docs

60  
docs citations

60  
times ranked

1032  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Dynamic Leader-Follower Approach for Line Marching of Swarm Robots. Unmanned Systems, 2023, 11, 67-82.	3.6	2
2	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.	11.3	59
3	Asymmetric Input-Output Constraint Control of a Flexible Variable-Length Rotary Crane Arm. IEEE Transactions on Cybernetics, 2022, 52, 10582-10591.	9.5	48
4	Adaptive Leader-Follower Formation Control of Underactuated Surface Vehicles With Guaranteed Performance. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 1997-2008.	9.3	60
5	Adaptive Deformation Control of a Flexible Variable-Length Rotary Crane Arm With Asymmetric Input-Output Constraints. IEEE Transactions on Cybernetics, 2022, 52, 13752-13761.	9.5	9
6	Cooperative Output Regulation of Linear Multi-agent Systems by Distributed Observer Approach. Advances in Industrial Control, 2022, , 231-257.	0.5	1
7	Cooperative Control of Multi-agent Systems. Advances in Industrial Control, 2022, , .	0.5	17
8	Coordination of a Flywheel Energy Storage Matrix System: An External Model Approach. IEEE Access, 2021, 9, 34475-34486.	4.2	6
9	Output based adaptive distributed output observer for leader-follower multiagent systems. Automatica, 2021, 125, 109413.	5.0	23
10	Cooperative Driven Algorithm for Sheep Herd Trajectory Tracking by Two Sheepdogs. , 2021, , .		1
11	Distributed Control for Bounded Time-Varying Power Sharing of Grid-Connected DDC Cluster. , 2021, , .		1
12	A Self-Organized Line Marching Formation Control Algorithm. , 2021, , .		0
13	Circle Flocking of Swarm Robots Based on Relative Position Measurement. , 2021, , .		0
14	Sheepdog Driven Algorithm for Sheep Herd Transport. , 2021, , .		1
15	Stabilization of A Class of Nonlinear Systems Subject to Periodic Disturbances. , 2021, , .		0
16	Power Tracking and State-of-Energy Balancing of an Energy Storage System by Distributed Control. IEEE Access, 2020, 8, 170261-170270.	4.2	8
17	A unified distributed robust control framework for power sharing of grid-connected dispatchable distributed generator cluster. Advanced Control for Applications, 2020, 2, e47.	1.7	2
18	Distributed Tracking of Leader-Follower Multiagent Systems Subject to Disturbed Leader's Information. IEEE Access, 2020, 8, 227970-227981.	4.2	9

#	ARTICLE	IF	CITATIONS
19	Attitude Consensus of Multiple Rigid Body Systems by Output Based Adaptive Distributed Output Observer. , 2020, , .		0
20	Cooperative Control of A Flywheel Energy Storage System with Identical Damping. IFAC-PapersOnLine, 2020, 53, 12771-12776.	0.9	0
21	Dynamic Consensus Tracking of Uncertain Lagrangian Systems With a Switched Command Generator. IEEE Transactions on Automatic Control, 2019, 64, 4260-4267.	5.7	9
22	Distributed Power Sharing Control of Grid-Connected AC Microgrid with Uncertain Plant. , 2019, , .		2
23	Distributed Robust Hierarchical Power Sharing Control of Grid-Connected Spatially Concentrated AC Microgrid. IEEE Transactions on Control Systems Technology, 2019, 27, 1012-1022.	5.2	27
24	Distributed Nonlinear Hierarchical Control of AC Microgrid via Unreliable Communication. IEEE Transactions on Smart Grid, 2018, 9, 2429-2441.	9.0	49
25	Distributed dual objective control of energy storage systems. , 2018, , .		5
26	Cooperative Output Regulation of Linear Multi-agent Systems with a Switched Exosystem by Output Feedback Control. , 2018, , .		0
27	The Attitude Consensus Problem via an Output Based Adaptive Distributed Observer Approach. , 2018, , .		5
28	Cooperative Output Regulation of Linear Multi-Agent Systems with a Switched Exosystem. , 2018, , .		1
29	Cooperative Output Regulation of Multi-agent Systems with Randomly Switching Network. , 2018, , .		0
30	Output Feedback Reinforcement Q-learning for Optimal Quadratic Tracking Control of Unknown Discrete-Time Linear Systems and Its Application. , 2018, , .		1
31	Distributed Tracking Control of an Interconnected Leader-Follower Multiagent System. IEEE Transactions on Automatic Control, 2017, 62, 3494-3501.	5.7	39
32	The adaptive distributed observer approach to the cooperative output regulation of linear multi-agent systems. Automatica, 2017, 75, 299-305.	5.0	302
33	Leader-following attitude consensus of multiple uncertain spacecraft systems subject to external disturbance. International Journal of Robust and Nonlinear Control, 2017, 27, 742-760.	3.7	49
34	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.	0.9	8
35	Dynamic leader-following consensus of multiple uncertain Euler-Lagrange systems with a switched exosystem. , 2017, , .		4
36	Sign-consensus of multi-agent systems over fast switching signed graphs. , 2017, , .		3

#	ARTICLE	IF	CITATIONS
37	Cooperative output regulation for a class of nonlinear heterogeneous multi-agent systems. , 2017, , .		1
38	Distributed power sharing control of grid-connected AC microgrid. , 2016, , .		6
39	Distributed Control Scheme for Package-Level State-of-Charge Balancing of Grid-Connected Battery Energy Storage System. IEEE Transactions on Industrial Informatics, 2016, 12, 1919-1929.	11.3	67
40	Consensus-based distributed package-level state-of-charge balancing for grid-connected battery energy storage system. , 2016, , .		7
41	Consensus-based distributed nonlinear hierarchical control of AC microgrid under switching communication network. , 2016, , .		4
42	Leader-following adaptive consensus of multiple uncertain rigid spacecraft systems. Science China Information Sciences, 2016, 59, 1-13.	4.3	54
43	The Leader-Following Consensus for Multiple Uncertain Euler-Lagrange Systems With an Adaptive Distributed Observer. IEEE Transactions on Automatic Control, 2016, 61, 3152-3157.	5.7	185
44	Leader-following attitude consensus of multiple rigid body systems by attitude feedback control. Automatica, 2016, 69, 87-92.	5.0	106
45	A Distributed Feedforward Approach to Cooperative Control of AC Microgrids. IEEE Transactions on Power Systems, 2016, 31, 4057-4067.	6.5	71
46	Unit quaternion-based output feedback control for leader-following attitude consensus of multiple rigid spacecraft systems. , 2014, , .		1
47	The leader-following attitude control of multiple rigid spacecraft systems. Automatica, 2014, 50, 1109-1115.	5.0	201
48	Leader-following consensus of multiple uncertain Eulerâ€“Lagrange systems under switching network topology. International Journal of General Systems, 2014, 43, 294-304.	2.5	83
49	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
50	A reduced-order distributed observer approach to attitude consensus of multiple rigid spacecraft systems. , 2013, , .		1