

# Yang-yang Chen

## List of Publications by Year in descending order

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73  
papers

753  
citations

482844  
16  
h-index

537477  
26  
g-index

76  
all docs

76  
docs citations

76  
times ranked

644  
citing authors

#	ARTICLE	IF	CITATIONS
1	A backstepping design for directed formation control of three-leader agents in the plane. <i>International Journal of Robust and Nonlinear Control</i> , 2009, 19, 729-745.	3.8	63
2	Circular formation flight control for unmanned aerial vehicles with directed network and external disturbance. <i>IEEE/CAA Journal of Automatica Sinica</i> , 2020, 7, 505-516.	13.9	62
3	Formation tracking and attitude synchronization control of underactuated ships along closed orbits. <i>International Journal of Robust and Nonlinear Control</i> , 2015, 25, 3023-3044.	3.8	59
4	A curve extension design for coordinated path following control of unicycles along given convex loops. <i>International Journal of Control</i> , 2011, 84, 1729-1745.	2.0	42
5	Average-Consensus Filter of First-Order Multi-Agent Systems With Disturbances. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2018, 65, 1763-1767.	3.2	37
6	Adaptive Formation Tracking Control for First-Order Agents With a Time-Varying Flow Parameter. <i>IEEE Transactions on Automatic Control</i> , 2022, 67, 2481-2488.	6.0	36
7	Coordinated path following control of multi-unicycle formation motion around closed curves in a time-invariant flow. <i>Nonlinear Dynamics</i> , 2015, 81, 1005-1016.	5.3	35
8	A geometric extension design for spherical formation tracking control of second-order agents in unknown spatiotemporal flowfields. <i>Nonlinear Dynamics</i> , 2017, 88, 1173-1186.	5.3	30
9	Coordinated adaptive control for coordinated path-following surface vessels with a time-invariant orbital velocity. <i>IEEE/CAA Journal of Automatica Sinica</i> , 2014, 1, 337-346.	13.9	29
10	Coordinated adaptive control for three-dimensional formation tracking with a time-varying orbital velocity. <i>IET Control Theory and Applications</i> , 2013, 7, 646-662.	2.2	27
11	An adaptive backstepping design for formation tracking motion in an unknown Eulerian specification flowfield. <i>Journal of the Franklin Institute</i> , 2017, 354, 6217-6233.	3.7	26
12	Formation circumnavigation for unmanned aerial vehicles using relative measurements with an uncertain dynamic target. <i>Nonlinear Dynamics</i> , 2019, 97, 2305-2321.	5.3	24
13	Fuzzy Adaptive Containment Control for Nonlinear Nonaffine Pure-Feedback Multiagent Systems. <i>IEEE Transactions on Fuzzy Systems</i> , 2021, 29, 2878-2889.	10.5	24
14	Adaptive Formation Tracking Control of Directed Networked Vehicles in a Time-Varying Flowfield. <i>Journal of Guidance, Control, and Dynamics</i> , 2021, 44, 1883-1891.	3.3	23
15	Adaptive neural networks-based fixed-time fault-tolerant consensus tracking for uncertain multiple Euler-Lagrange systems. <i>ISA Transactions</i> , 2022, 129, 102-113.	6.2	21
16	Spherical formation tracking control for second-order agents with unknown general flowfields and strongly connected topologies. <i>International Journal of Robust and Nonlinear Control</i> , 2019, 29, 3715-3736.	3.8	18
17	Indirect Adaptive Fuzzy Control for Nonaffine Nonlinear Pure-Feedback Systems. <i>IEEE Transactions on Fuzzy Systems</i> , 2020, 28, 2918-2929.	10.5	14
18	Hierarchical Average-Tracking Algorithm for Multiagent Systems With Unmatched Constant References Signals. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2020, 67, 2642-2646.	3.2	14

#	ARTICLE	IF	CITATIONS
19	Spherical Formation Tracking Control of Nonlinear Second-Order Agents With Adaptive Neural Flow Estimate. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2022, 33, 5716-5727.	12.6	14
20	Fixed-time Consensus Tracking for Second-order Leader-follower Multi-agent Systems with Nonlinear Dynamics Under Directed Topology. <i>International Journal of Control, Automation and Systems</i> , 2021, 19, 2697-2705.	2.7	12
21	Directed Coordinated Control for Multi-agent Formation Motion on a Set of Given Curves. <i>Zidonghua Xuebao/Acta Automatica Sinica</i> , 2010, 35, 1541-1549.	0.3	12
22	Practical Fixed-Time Consensus Tracking for Multiple Euler-Lagrange Systems With Stochastic Packet Losses and Input/Output Constraints. <i>IEEE Systems Journal</i> , 2022, 16, 6185-6196.	4.9	12
23	Coordinated path-following and attitude control for multiple surface vessels via curve extension method. , 2012, , .		10
24	Spherical formation tracking control of non-holonomic aircraft-like vehicles in a spatiotemporal flowfield. <i>Journal of the Franklin Institute</i> , 2020, 357, 3924-3952.	3.7	10
25	Distributed adaptive observer-based output formation-containment control for heterogeneous multi-agent systems with unknown inputs. <i>IET Control Theory and Applications</i> , 2020, 14, 2205-2212.	2.2	10
26	Finite-time tracking control for nonaffine nonlinear pure-feedback systems with a prescribed performance. <i>International Journal of Robust and Nonlinear Control</i> , 2022, 32, 2212-2232.	3.8	10
27	Distributed fixed-time average-tracking for multi-agent systems with mismatched and matched disturbances. <i>Transactions of the Institute of Measurement and Control</i> , 2022, 44, 2323-2335.	1.9	9
28	Fully distributed spherical formation tracking control for nonlinear vehicles with spatiotemporal uncertainties and digraphs. <i>Nonlinear Dynamics</i> , 2020, 101, 997-1013.	5.3	6
29	Robust flocking of multiple intelligent agents with multiple disturbances. <i>International Journal of Intelligent Systems</i> , 2022, 37, 7571-7583.	5.8	6
30	Cooperative control of multi-agent moving along a set of given curves. <i>Journal of Systems Science and Complexity</i> , 2011, 24, 631-646.	2.8	5
31	Finite-time event-triggered containment control of multiple Euler-Lagrange systems with unknown control coefficients. <i>Journal of the Franklin Institute</i> , 2023, 360, 777-791.	3.7	5
32	Sliding mode control of concomitant satellites' formation tracking via STK. , 2014, , .		4
33	A geometric extension design for second-order nonlinear agents formation surrounding a sphere. , 2016, , .		4
34	Coordinated adaptive control for formation flying vehicles with a time-varying orbital velocity. , 2013, , .		3
35	Spherical formation tracking control of second-order nonlinear agents with directed communication. , 2016, , .		3
36	Distributed energy-efficient target tracking algorithm based on event-triggered strategy for sensor networks. <i>IET Control Theory and Applications</i> , 2019, 13, 1564-1570.	2.2	3

#	ARTICLE	IF	CITATIONS
37	Deep Reinforcement Learning Algorithms for Multiple Arc-Welding Robots. <i>Frontiers in Control Engineering</i> , 2021, 2, .	0.7	3
38	Projection-Based Containment Control of Multiple Nonlinear Systems With Switching Topologies. <i>IEEE Transactions on Control of Network Systems</i> , 2022, 9, 1793-1803.	4.0	3
39	Discrete-time formation tracking control for first-order agents along skewed superellipses. <i>Journal of the Franklin Institute</i> , 2022, 359, 3148-3163.	3.7	3
40	Coordinated Closed-Curve Path Following Control of Multi-Unicycle in a Time-Invariant Flow Field. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2014, 47, 9643-9648.	0.4	2
41	Spherical formation tracking of non-holonomic vehicles in three-dimensional space. , 2017, , .		2
42	QMIX Algorithm for Coordinated Welding of Multiple Robots. , 2021, , .		2
43	Finite-time coordinated path-following control of leader-following multi-agent systems. <i>Frontiers of Information Technology and Electronic Engineering</i> , 2022, 23, 1511-1521.	2.7	2
44	Adaptive Projection and Fuzzy Tracking Design for Unknown Control Coefficients and References. <i>IEEE Transactions on Cybernetics</i> , 2024, 54, 2235-2243.	10.1	2
45	Adaptive fault-tolerant formation tracking control of networked mobile robots with input delays. <i>Journal of the Franklin Institute</i> , 2024, 361, 248-264.	3.7	2
46	Coordinated patterns of underactuated ships along closed orbits. , 2014, , .		1
47	Cooperative adaptive flow estimation for spherical formation tracking control with directed communication. , 2017, , .		1
48	Robust Spherical Formation Tracking Control of First-order Agents with An Adaptive Neural Flow Estimate. , 2018, , .		1
49	Finite-time control of spherical formation tracking of first-order UAVs. , 2021, , .		1
50	Spherical Orbit Tracking and Formation Flying for Nonholonomic Aircraft-Like Vehicles With Directed Interactions and Unknown Disturbances. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2022, 52, 5362-5367.	9.7	1
51	Finite-time Coordinated Path-following Control along Convex Loops of Multi-agents with Input Saturation. , 2020, , .		1
52	Spherical Formation Tracking Control of Spacecraft Flying Under Directed Communication Topology and External Disturbance. , 2020, , .		1
53	Neural Network Boundary Approximation for Uncertain Nonlinear Spatiotemporal Systems and Its Application of Tracking Control. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2024, 35, 7238-7243.	12.6	1
54	Adaptive event-triggered actor-critic algorithm for optimal 3D formation circumnavigation with relative measurement and an unknown moving target. <i>Journal of the Franklin Institute</i> , 2023, 360, 14309-14328.	3.7	1

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55	Fixed-Time Anti-Disturbance Average-Tracking for Heterogeneous Linear Multiagent Systems. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2024, 54, 1104-1112.	9.7	1
56	Coordinated flowfield adaptative estimation for spherical formation tracking motion. , 2016, , .		0
57	Coordinated adaptive flowfield estimation for second-order agents formation tracking given orbits. , 2016, , .		0
58	Local super-ellipsoid formation tracking control for first-order agents with an unknown moving target. , 2017, , .		0
59	Spherical Formation Tracking Control of Nonholonomic Vehicles in a Time-invariant Flow Field. , 2018, , .		0
60	Spherical formation flight of UAVs with bidirectional communication delays. , 2019, , .		0
61	Formation Circling Control of Detect-Pursuing Structure with an Uncertain Dynamic Target. , 2019, , .		0
62	Formation Tracking Control with Adaptive Neural Networks Estimation. , 2020, , .		0
63	Intermittent Formation Control of Multi-agent Systems under Strongly Connected Communication Topologies. , 2020, , .		0
64	Corrections to “Practical Fixed-Time Consensus Tracking for Multiple Euler–Lagrange Systems With Stochastic Packet Losses and Input/Output Constraints” [2021 DOI: 10.1109/JSYST.2021.3112720]. IEEE Systems Journal, 2022, 16, 1709-1709.	4.9	0
65	Spherical Formation Tracking Control of Non-Holonomic UAVs with State Constraints and Time Delays. Aerospace, 2023, 10, 118.	2.3	0
66	A novel iterative barrier function design for discrete-time formation tracking control in unknown spatial flowfields. Nonlinear Dynamics, 2023, 111, 19033-19045.	5.3	0
67	Switching threshold event-triggered critic algorithm for optimal orbit tracking and formation motion. IET Control Theory and Applications, 2024, 18, 454-464.	2.2	0
68	An adaptive neural design for planar rigid formation of three coleaders in unknown flowfields. IET Control Theory and Applications, 2024, 18, 814-824.	2.2	0
69	Event-Based Fixed-Time Consensus Tracking for Constrained Networked Euler–Lagrange Systems. IEEE Systems Journal, 2024, 18, 770-781.	4.9	0
70	Adaptive tracking control of nonlinear systems with unknown time-varying parameters via a monotonically increasing function. International Journal of Robust and Nonlinear Control, 2024, 34, 7746-7763.	3.8	0
71	Multilayer Fuzzy Supremum Approximation to Discrete-Time Synchronization. IEEE Transactions on Fuzzy Systems, 2024, , 1-12.	10.5	0
72	TD3-BC-PPO: Twin delayed DDPG-based and behavior cloning-enhanced proximal policy optimization for dynamic optimization affine formation. Journal of the Franklin Institute, 2024, 361, 107018.	3.7	0

#	ARTICLE	IF	CITATIONS
73	Coordinated Ship Welding with Optimal Lazy Robot Ratio and Energy Consumption via Reinforcement Learning. <i>Journal of Marine Science and Engineering</i> , 2024, 12, 1765.	2.7	0