

# Wei Wang

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

99  
papers

3,344  
citations

31  
h-index

56  
g-index

115  
ext. papers

4,400  
ext. citations

4.8  
avg. IF

6.12  
L-index

#	Paper	IF	Citations
99	Distributed Adaptive Tracking Control for High-Order Nonlinear Multi-Agent Systems over Event-Triggered Communication. <i>IEEE Transactions on Automatic Control</i> , <b>2022</b> , 1-1	5.9	7
98	Output feedback based adaptive consensus tracking for uncertain heterogeneous multi-agent systems with event-triggered communication. <i>Automatica</i> , <b>2022</b> , 136, 110049	5.7	2
97	Identifying topology and system parameters of fractional-order complex dynamical networks. <i>Applied Mathematics and Computation</i> , <b>2022</b> , 414, 126666	2.7	4
96	Adaptive Leaderless Consensus for Uncertain High-Order Nonlinear Multiagent Systems With Event-Triggered Communication. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , <b>2022</b> , 1-17	7.3	1
95	Adaptive Backstepping Control of Uncertain Sandwich-Like Nonlinear Systems With Deadzone Nonlinearity. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , <b>2022</b> , 1-11	7.3	0
94	Adaptive Finite-Time Fault-Tolerant Control of Uncertain Systems With Input Saturation. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , <b>2022</b> , 1-13	7.3	1
93	Distributed Adaptive Control for Asymptotically Consensus Tracking of Uncertain Nonlinear Systems With Intermittent Actuator Faults and Directed Communication Topology. <i>IEEE Transactions on Cybernetics</i> , <b>2021</b> , 51, 4050-4061	10.2	6
92	Adaptive Backstepping Control of Uncertain Nonlinear Systems with Input and State Quantization. <i>IEEE Transactions on Automatic Control</i> , <b>2021</b> , 1-1	5.9	0
91	Topology identification of fractional-order complex dynamical networks based on auxiliary-system approach. <i>Chaos</i> , <b>2021</b> , 31, 043125	3.3	3
90	Observer-Based Event-Triggered Adaptive Fuzzy Control for Leader-Following Consensus of Nonlinear Strict-Feedback Systems. <i>IEEE Transactions on Cybernetics</i> , <b>2021</b> , 51, 2131-2141	10.2	20
89	Adaptive Control Design for Underactuated Cranes with Guaranteed Transient Performance: Theoretical Design and Experimental Verification. <i>IEEE Transactions on Industrial Electronics</i> , <b>2021</b> , 1-1	8.9	9
88	Adaptive Tracking Control for a Class of Uncertain Systems With Output Disturbance. <i>IEEE Access</i> , <b>2021</b> , 9, 129141-129147	3.5	1
87	Distributed Adaptive Resilient Formation Control of Uncertain Nonholonomic Mobile Robots Under Deception Attacks. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , <b>2021</b> , 68, 3822-3835	3.9	6
86	Adaptive backstepping based consensus tracking of uncertain nonlinear systems with event-triggered communication. <i>Automatica</i> , <b>2021</b> , 133, 109841	5.7	9
85	Distributed Successive Convex Approximation for Nonconvex Economic Dispatch in Smart Grid. <i>IEEE Transactions on Industrial Informatics</i> , <b>2021</b> , 17, 8288-8298	11.9	0
84	Adaptive Iterative Learning Control of Multiple Autonomous Vehicles With a Time-Varying Reference Under Actuator Faults. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , <b>2021</b> , 32, 5512-5525	10.3	9
83	. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , <b>2021</b> , 1-1	3.7	2

82	Distributed adaptive leader-follower and leaderless consensus control of a class of strict-feedback nonlinear systems: a unified approach. <i>Automatica</i> , <b>2020</b> , 118, 109021	5.7	37
81	Distributed adaptive consensus tracking for uncertain high-order nonlinear multiagent systems with event-triggered communication. <i>Optimal Control Applications and Methods</i> , <b>2020</b> , 41, 2077-2093	1.7	3
80	Distributed H <sub>∞</sub> containment control of multiagent systems over switching topologies with communication time delay. <i>International Journal of Robust and Nonlinear Control</i> , <b>2020</b> , 30, 5221-5232	3.6	3
79	Semiglobal Consensus of a Class of Heterogeneous Multi-Agent Systems With Saturation. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , <b>2020</b> , 31, 4946-4955	10.3	8
78	Adaptive consensus of uncertain nonlinear systems with event triggered communication and intermittent actuator faults. <i>Automatica</i> , <b>2020</b> , 111, 108667	5.7	32
77	Recent advances in distributed adaptive consensus control of uncertain nonlinear multi-agent systems. <i>Journal of Control and Decision</i> , <b>2020</b> , 7, 44-63	0.9	7
76	Event-Triggered Finite-Time Consensus of Second-Order Leader-Follower Multiagent Systems With Uncertain Disturbances. <i>IEEE Transactions on Cybernetics</i> , <b>2020</b> , PP,	10.2	5
75	Adaptive neural finite-time containment control for nonlower triangular nonlinear multi-agent systems with dynamics uncertainties. <i>Neurocomputing</i> , <b>2020</b> , 391, 157-166	5.4	7
74	A Hierarchical Security Control Framework of Nonlinear CPSs Against DoS Attacks With Application to Power Sharing of AC Microgrids. <i>IEEE Transactions on Cybernetics</i> , <b>2020</b> , PP,	10.2	3
73	Adaptive Event-Triggered Control of Nonlinear Systems With Controller and Parameter Estimator Triggering. <i>IEEE Transactions on Automatic Control</i> , <b>2020</b> , 65, 318-324	5.9	66
72	Distributed Extremum Seeking for Optimal Resource Allocation and Its Application to Economic Dispatch in Smart Grids. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , <b>2019</b> , 30, 3161-3171	10.3	14
71	Adaptive cooperative control for a class of nonlinear multi-agent systems with dead zone and input delay. <i>Nonlinear Dynamics</i> , <b>2019</b> , 96, 2707-2719	5	20
70	Adaptive Control of DC Motor Servo System With Application to Vehicle Active Steering. <i>IEEE/ASME Transactions on Mechatronics</i> , <b>2019</b> , 24, 1054-1063	5.5	21
69	Adaptive Backstepping Control of Nonlinear Uncertain Systems With Quantized States. <i>IEEE Transactions on Automatic Control</i> , <b>2019</b> , 64, 4756-4763	5.9	54
68	Adaptive Backstepping Control of Uncertain Gear Transmission Servosystems With Asymmetric Dead-Zone Nonlinearity. <i>IEEE Transactions on Industrial Electronics</i> , <b>2019</b> , 66, 3752-3762	8.9	22
67	Distributed containment control of multi-agent systems under asynchronous switching and stochastic disturbances. <i>IET Control Theory and Applications</i> , <b>2019</b> , 13, 1105-1112	2.5	6
66	Game theoretical security detection strategy for networked systems. <i>Information Sciences</i> , <b>2018</b> , 453, 346-363	7.7	17
65	A Game Theory Based Collaborative Security Detection Method for Internet of Things Systems. <i>IEEE Transactions on Information Forensics and Security</i> , <b>2018</b> , 13, 1432-1445	8	39

64	Adaptive control of a class of strict-feedback time-varying nonlinear systems with unknown control coefficients. <i>Automatica</i> , <b>2018</b> , 93, 98-105	5.7	70
63	Fully Distributed Adaptive Consensus Control of a Class of High-Order Nonlinear Systems With a Directed Topology and Unknown Control Directions. <i>IEEE Transactions on Cybernetics</i> , <b>2018</b> , 48, 2349-2356	10.2	58
62	Fully distributed adaptive consensus control for a class of nonlinear systems of directed topology. <i>Transactions of the Institute of Measurement and Control</i> , <b>2018</b> , 40, 675-684	1.8	2
61	Distributed Adaptive Containment Control for a Class of Nonlinear Multiagent Systems With Input Quantization. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , <b>2018</b> , 29, 2419-2428	10.3	29
60	Event-triggered control for stochastic nonlinear systems. <i>Automatica</i> , <b>2018</b> , 95, 534-538	5.7	31
59	Adaptive control of uncertain nonlinear systems with quantized input signal. <i>Automatica</i> , <b>2018</b> , 95, 152-162	5.7	70
58	Sampled-Data-Based Consensus and $L_2$ -Gain Analysis for Heterogeneous Multiagent Systems. <i>IEEE Transactions on Cybernetics</i> , <b>2017</b> , 47, 1523-1531	10.2	39
57	Fault-tolerant containment control of uncertain nonlinear systems in strict-feedback form. <i>International Journal of Robust and Nonlinear Control</i> , <b>2017</b> , 27, 497-511	3.6	25
56	Distributed adaptive asymptotically consensus tracking control of nonlinear multi-agent systems with unknown parameters and uncertain disturbances. <i>Automatica</i> , <b>2017</b> , 77, 133-142	5.7	140
55	Decentralized adaptive tracking control for a class of interconnected nonlinear systems with input quantization. <i>Automatica</i> , <b>2017</b> , 81, 359-368	5.7	72
54	Output-feedback adaptive consensus tracking control for a class of high-order nonlinear multi-agent systems. <i>International Journal of Robust and Nonlinear Control</i> , <b>2017</b> , 27, 4931-4948	3.6	16
53	Distributed adaptive asymptotically consensus tracking control of uncertain Euler-Lagrange systems under directed graph condition. <i>ISA Transactions</i> , <b>2017</b> , 71, 121-129	5.5	16
52	Adaptive quantized attitude control for spacecraft with input saturation <b>2017</b> ,		1
51	Smooth control design for adaptive leader-following consensus control of a class of high-order nonlinear systems with time-varying reference. <i>Automatica</i> , <b>2017</b> , 83, 361-367	5.7	60
50	Pursuing an evader through cooperative relaying in multi-agent surveillance networks. <i>Automatica</i> , <b>2017</b> , 83, 155-161	5.7	30
49	Prescribed performance bound-based adaptive path-following control of uncertain nonholonomic mobile robots. <i>International Journal of Adaptive Control and Signal Processing</i> , <b>2017</b> , 31, 805-822	2.8	35
48	Adaptive Control of Quantized Uncertain Nonlinear Systems. <i>IFAC-PapersOnLine</i> , <b>2017</b> , 50, 10425-10430	0.7	11
47	Adaptive Compensation for Intermittent Actuator Failures <b>2017</b> , 97-124		

46	Hierarchical Decomposition Based Consensus Tracking for Uncertain Interconnected Systems via Distributed Adaptive Output Feedback Control. <i>IEEE Transactions on Automatic Control</i> , <b>2016</b> , 61, 1938-1945	5.9	47
45	Distributed adaptive output feedback control of uncertain multi-agent systems with actuator faults and communication delays <b>2016</b> ,		3
44	Adaptive containment control for a class of multi-agent systems with unknown actuator failures <b>2016</b> ,		2
43	Integrated design of residual generation and evaluation for fault detection of networked control systems. <i>International Journal of Robust and Nonlinear Control</i> , <b>2016</b> , 26, 519-541	3.6	2
42	Distributed adaptive control of multi-agent systems under directed graph for asymptotically consensus tracking <b>2016</b> ,		1
41	Distributed Filtering for Switched Nonlinear Positive Systems With Missing Measurements Over Sensor Networks. <i>IEEE Sensors Journal</i> , <b>2016</b> , 16, 4940-4948	4	53
40	Design of adaptive finite-time controllers for nonlinear uncertain systems based on given transient specifications. <i>Automatica</i> , <b>2016</b> , 69, 395-404	5.7	105
39	Fault detection for ironmaking process based on stacked denoising autoencoders <b>2016</b> ,		6
38	Cooperative Containment Control of Multiagent Systems Based on Follower Observers With Time Delay. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , <b>2016</b> , 1-11	7.3	47
37	Simultaneous identification of bi-directional paths in closed-loop systems with coloured noise. <i>Automatica</i> , <b>2015</b> , 58, 139-142	5.7	5
36	Fault diagnosis based on parameter estimation in closed-loop systems. <i>IET Control Theory and Applications</i> , <b>2015</b> , 9, 1146-1153	2.5	19
35	Simultaneous Identification of Bidirectional Path Models Based on Process Data. <i>IEEE Transactions on Automation Science and Engineering</i> , <b>2015</b> , 12, 666-679	4.9	13
34	Auxiliary Signal Design for Active Fault Detection Based on Set-membership ? ?This work was supported partly by the National Natural Science Foundation of China under grants 61290324, 61203068 and The Beijing SHRIMP Center (National Science and Technology Infrastructure) under grant no. DD12-115.. <i>IFAC-PapersOnLine</i> , <b>2015</b> , 48, 452-457	0.7	3
33	Global stable tracking control of underactuated ships with input saturation. <i>Systems and Control Letters</i> , <b>2015</b> , 85, 1-7	2.4	78
32	Robust state estimation for linear systems with parametric uncertainties and quantised measurements. <i>International Journal of Systems Science</i> , <b>2015</b> , 46, 526-534	2.3	4
31	Adaptive fault-tolerant stabilization for nonlinear systems with Markovian jumping actuator failures and stochastic noises. <i>Automatica</i> , <b>2015</b> , 51, 200-209	5.7	36
30	Adaptive finite-time consensus control of a group of uncertain nonlinear mechanical systems. <i>Automatica</i> , <b>2015</b> , 51, 292-301	5.7	176
29	Decentralized adaptive consensus control of uncertain nonlinear systems under directed topologies <b>2015</b> ,		6

28	Distributed adaptive control for consensus tracking with application to formation control of nonholonomic mobile robots. <i>Automatica</i> , <b>2014</b> , 50, 1254-1263	5-7	274
27	Cooperative control for consensus of multi-agent systems with actuator faults. <i>Computers and Electrical Engineering</i> , <b>2014</b> , 40, 2154-2166	4-3	54
26	Fault Diagnosis for Blast Furnace Ironmaking Process Based on Two-stage Principal Component Analysis. <i>ISIJ International</i> , <b>2014</b> , 54, 2334-2341	1-7	13
25	Adaptive Failure Compensation Control for Uncertain Systems With Stochastic Actuator Failures. <i>IEEE Transactions on Automatic Control</i> , <b>2014</b> , 59, 808-814	5-9	48
24	Discrete time-varying fault detection filter for non-uniformly sampled-data systems. <i>Science China Information Sciences</i> , <b>2014</b> , 57, 1-11	3-4	3
23	Adaptive output feedback tracking control of a nonholonomic mobile robot. <i>Automatica</i> , <b>2014</b> , 50, 821-831	5-7	133
22	Informative conditions for a data set in an MIMO networked control system. <i>Neurocomputing</i> , <b>2013</b> , 121, 309-316	5-4	3
21	Set-membership state estimation with nonlinear equality constraints and quantization. <i>Neurocomputing</i> , <b>2013</b> , 119, 359-365	5-4	2
20	State estimation for Markovian Jump Linear Systems with bounded disturbances. <i>Automatica</i> , <b>2013</b> , 49, 3292-3303	5-7	13
19	Output feedback control of networked control systems with packet dropouts in both channels. <i>Information Sciences</i> , <b>2013</b> , 221, 544-554	7-7	44
18	A new robust fault-tolerant controller for self-repairing flight control system. <i>Journal of the Franklin Institute</i> , <b>2013</b> , 350, 2509-2518	4	10
17	. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , <b>2013</b> , 49, 1391-1399	3-7	5
16	Adaptive stabilization and tracking control of a nonholonomic mobile robot with input saturation and disturbance. <i>Systems and Control Letters</i> , <b>2013</b> , 62, 234-241	2-4	134
15	Lower bounds in parameter estimation based on quantized measurements <b>2013</b> ,		2
14	Hierarchical decomposition based distributed adaptive control for output consensus tracking of uncertain nonlinear systems <b>2013</b> ,		4
13	Adaptive compensation for infinite number of actuator failures or faults. <i>Automatica</i> , <b>2011</b> , 47, 2197-2210	5-7	183
12	New robust fault-tolerant controller for self-repairing flight control systems. <i>Journal of Systems Engineering and Electronics</i> , <b>2011</b> , 22, 77-82	1-3	2
11	Adaptive failure compensation for uncertain systems with multiple inputs. <i>Journal of Systems Engineering and Electronics</i> , <b>2011</b> , 22, 70-76	1-3	2

10	Adaptive output feedback controller design for a class of uncertain nonlinear systems with actuator failures <b>2010</b> ,		10
9	Adaptive actuator failure compensation control of uncertain nonlinear systems with guaranteed transient performance. <i>Automatica</i> , <b>2010</b> , 46, 2082-2091	5-7	420
8	Extended state observer-based robust fault-tolerant controller for flight control surface failures <b>2009</b> ,		4
7	A new approach to design robust backstepping controller for MIMO nonlinear systems with input unmodeled dynamics <b>2009</b> ,		1
6	A new approach to adaptive actuator failure compensation in uncertain systems <b>2009</b> ,		8
5	Stability analysis of decentralized adaptive backstepping control systems with actuator failures. <i>Journal of Systems Science and Complexity</i> , <b>2009</b> , 22, 109-121	1	10
4	Decentralized adaptive backstepping stabilization of interconnected systems with dynamic input and output interactions. <i>Automatica</i> , <b>2009</b> , 45, 55-67	5-7	107
3	Adaptive backstepping control of uncertain systems with unknown input time-delay. <i>Automatica</i> , <b>2009</b> , 45, 1415-1422	5-7	86
2	Adaptive Backstepping Control of Uncertain Systems with Actuator Failures, Subsystem Interactions, and Nonsmooth Nonlinearities		11
1	Adaptive time-varying formation control of uncertain Euler-Lagrange systems with event-triggered communication. <i>International Journal of Robust and Nonlinear Control</i> ,	3-6	2