Wei Wang

List of Publications by Citations

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	Adaptive actuator failure compensation control of uncertain nonlinear systems with guaranteed transient performance. *Automatica*, **2010**, 46, 2082-2091	5.7	420
98	Distributed adaptive control for consensus tracking with application to formation control of nonholonomic mobile robots. *Automatica*, **2014**, 50, 1254-1263	5.7	274
97	Adaptive compensation for infinite number of actuator failures or faults. *Automatica*, **2011**, 47, 2197-2210	5.7	183
96	Adaptive finite-time consensus control of a group of uncertain nonlinear mechanical systems. *Automatica*, **2015**, 51, 292-301	5.7	176
95	Distributed adaptive asymptotically consensus tracking control of nonlinear multi-agent systems with unknown parameters and uncertain disturbances. *Automatica*, **2017**, 77, 133-142	5.7	140
94	Adaptive stabilization and tracking control of a nonholonomic mobile robot with input saturation and disturbance. *Systems and Control Letters*, **2013**, 62, 234-241	2.4	134
93	Adaptive output feedback tracking control of a nonholonomic mobile robot. *Automatica*, **2014**, 50, 821-831	5.7	133
92	Decentralized adaptive backstepping stabilization of interconnected systems with dynamic input and output interactions. *Automatica*, **2009**, 45, 55-67	5.7	107
91	Design of adaptive finite-time controllers for nonlinear uncertain systems based on given transient specifications. *Automatica*, **2016**, 69, 395-404	5.7	105
90	Adaptive backstepping control of uncertain systems with unknown input time-delay. *Automatica*, **2009**, 45, 1415-1422	5.7	86
89	Global stable tracking control of underactuated ships with input saturation. *Systems and Control Letters*, **2015**, 85, 1-7	2.4	78
88	Decentralized adaptive tracking control for a class of interconnected nonlinear systems with input quantization. *Automatica*, **2017**, 81, 359-368	5.7	72
87	Adaptive control of a class of strict-feedback time-varying nonlinear systems with unknown control coefficients. *Automatica*, **2018**, 93, 98-105	5.7	70
86	Adaptive control of uncertain nonlinear systems with quantized input signal. *Automatica*, **2018**, 95, 152-162	5.7	70
85	Adaptive Event-Triggered Control of Nonlinear Systems With Controller and Parameter Estimator Triggering. *IEEE Transactions on Automatic Control*, **2020**, 65, 318-324	5.9	66
84	Smooth control design for adaptive leader-following consensus control of a class of high-order nonlinear systems with time-varying reference. *Automatica*, **2017**, 83, 361-367	5.7	60
83	Fully Distributed Adaptive Consensus Control of a Class of High-Order Nonlinear Systems With a Directed Topology and Unknown Control Directions. *IEEE Transactions on Cybernetics*, **2018**, 48, 2349-2356	19.2	58

82	Adaptive Backstepping Control of Nonlinear Uncertain Systems With Quantized States. *IEEE Transactions on Automatic Control*, **2019**, 64, 4756-4763	5.9	54
81	Cooperative control for consensus of multi-agent systems with actuator faults. *Computers and Electrical Engineering*, **2014**, 40, 2154-2166	4.3	54
80	Distributed Filtering for Switched Nonlinear Positive Systems With Missing Measurements Over Sensor Networks. *IEEE Sensors Journal*, **2016**, 16, 4940-4948	4	53
79	Adaptive Failure Compensation Control for Uncertain Systems With Stochastic Actuator Failures. *IEEE Transactions on Automatic Control*, **2014**, 59, 808-814	5.9	48
78	Hierarchical Decomposition Based Consensus Tracking for Uncertain Interconnected Systems via Distributed Adaptive Output Feedback Control. *IEEE Transactions on Automatic Control*, **2016**, 61, 1938-1945	5.9	47
77	Cooperative Containment Control of Multiagent Systems Based on Follower Observers With Time Delay. *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, **2016**, 1-11	7.3	47
76	Output feedback control of networked control systems with packet dropouts in both channels. *Information Sciences*, **2013**, 221, 544-554	7.7	44
75	Sampled-Data-Based Consensus and L_{2} -Gain Analysis for Heterogeneous Multiagent Systems. *IEEE Transactions on Cybernetics*, **2017**, 47, 1523-1531	10.2	39
74	A Game Theory Based Collaborative Security Detection Method for Internet of Things Systems. *IEEE Transactions on Information Forensics and Security*, **2018**, 13, 1432-1445	8	39
73	Distributed adaptive leaderFollower and leaderless consensus control of a class of strict-feedback nonlinear systems: a unified approach. *Automatica*, **2020**, 118, 109021	5.7	37
72	Adaptive fault-tolerant stabilization for nonlinear systems with Markovian jumping actuator failures and stochastic noises. *Automatica*, **2015**, 51, 200-209	5.7	36
71	Prescribed performance bound-based adaptive path-following control of uncertain nonholonomic mobile robots. *International Journal of Adaptive Control and Signal Processing*, **2017**, 31, 805-822	2.8	35
70	Adaptive consensus of uncertain nonlinear systems with event triggered communication and intermittent actuator faults. *Automatica*, **2020**, 111, 108667	5.7	32
69	Event-triggered control for stochastic nonlinear systems. *Automatica*, **2018**, 95, 534-538	5.7	31
68	Pursuing an evader through cooperative relaying in multi-agent surveillance networks. *Automatica*, **2017**, 83, 155-161	5.7	30
67	Distributed Adaptive Containment Control for a Class of Nonlinear Multiagent Systems With Input Quantization. *IEEE Transactions on Neural Networks and Learning Systems*, **2018**, 29, 2419-2428	10.3	29
66	Fault-tolerant containment control of uncertain nonlinear systems in strict-feedback form. *International Journal of Robust and Nonlinear Control*, **2017**, 27, 497-511	3.6	25
65	Adaptive Backstepping Control of Uncertain Gear Transmission Servosystems With Asymmetric Dead-Zone Nonlinearity. *IEEE Transactions on Industrial Electronics*, **2019**, 66, 3752-3762	8.9	22

64	Adaptive Control of DC Motor Servo System With Application to Vehicle Active Steering. *IEEE/ASME Transactions on Mechatronics*, **2019**, 24, 1054-1063	5.5	21
63	Adaptive cooperative control for a class of nonlinear multi-agent systems with dead zone and input delay. *Nonlinear Dynamics*, **2019**, 96, 2707-2719	5	20
62	Observer-Based Event-Triggered Adaptive Fuzzy Control for Leader-Following Consensus of Nonlinear Strict-Feedback Systems. *IEEE Transactions on Cybernetics*, **2021**, 51, 2131-2141	10.2	20
61	Fault diagnosis based on parameter estimation in closed-loop systems. *IET Control Theory and Applications*, **2015**, 9, 1146-1153	2.5	19
60	Game theoretical security detection strategy for networked systems. *Information Sciences*, **2018**, 453, 346-363	7.7	17
59	Output-feedback adaptive consensus tracking control for a class of high-order nonlinear multi-agent systems. *International Journal of Robust and Nonlinear Control*, **2017**, 27, 4931-4948	3.6	16
58	Distributed adaptive asymptotically consensus tracking control of uncertain Euler-Lagrange systems under directed graph condition. *ISA Transactions*, **2017**, 71, 121-129	5.5	16
57	Distributed Extremum Seeking for Optimal Resource Allocation and Its Application to Economic Dispatch in Smart Grids. *IEEE Transactions on Neural Networks and Learning Systems*, **2019**, 30, 3161-3171	10.3	14
56	Simultaneous Identification of Bidirectional Path Models Based on Process Data. *IEEE Transactions on Automation Science and Engineering*, **2015**, 12, 666-679	4.9	13
55	State estimation for Markovian Jump Linear Systems with bounded disturbances. *Automatica*, **2013**, 49, 3292-3303	5.7	13
54	Fault Diagnosis for Blast Furnace Ironmaking Process Based on Two-stage Principal Component Analysis. *ISIJ International*, **2014**, 54, 2334-2341	1.7	13
53	Adaptive Control of Quantized Uncertain Nonlinear Systems. *IFAC-PapersOnLine*, **2017**, 50, 10425-10430	0.7	11
52	Adaptive Backstepping Control of Uncertain Systems with Actuator Failures, Subsystem Interactions, and Nonsmooth Nonlinearities		11
51	A new robust fault-tolerant controller for self-repairing flight control system. *Journal of the Franklin Institute*, **2013**, 350, 2509-2518	4	10
50	Adaptive output feedback controller design for a class of uncertain nonlinear systems with actuator failures **2010**,		10
49	Stability analysis of decentralized adaptive backstepping control systems with actuator failures. *Journal of Systems Science and Complexity*, **2009**, 22, 109-121	1	10
48	Adaptive Control Design for Underactuated Cranes with Guaranteed Transient Performance: Theoretical Design and Experimental Verification. *IEEE Transactions on Industrial Electronics*, **2021**, 1-1	8.9	9
47	Adaptive backstepping based consensus tracking of uncertain nonlinear systems with event-triggered communication. *Automatica*, **2021**, 133, 109841	5.7	9

46	Adaptive Iterative Learning Control of Multiple Autonomous Vehicles With a Time-Varying Reference Under Actuator Faults. *IEEE Transactions on Neural Networks and Learning Systems*, **2021**, 32, 5512-5525	10.3	9
45	Semiglobal Consensus of a Class of Heterogeneous Multi-Agent Systems With Saturation. *IEEE Transactions on Neural Networks and Learning Systems*, **2020**, 31, 4946-4955	10.3	8
44	A new approach to adaptive actuator failure compensation in uncertain systems **2009**,		8
43	Distributed Adaptive Tracking Control for High-Order Nonlinear Multi-Agent Systems over Event-Triggered Communication. *IEEE Transactions on Automatic Control*, **2022**, 1-1	5.9	7
42	Recent advances in distributed adaptive consensus control of uncertain nonlinear multi-agent systems. *Journal of Control and Decision*, **2020**, 7, 44-63	0.9	7
41	Adaptive neural finite-time containment control for nonlower triangular nonlinear multi-agent systems with dynamics uncertainties. *Neurocomputing*, **2020**, 391, 157-166	5.4	7
40	Distributed containment control of multi-agent systems under asynchronous switching and stochastic disturbances. *IET Control Theory and Applications*, **2019**, 13, 1105-1112	2.5	6
39	Distributed Adaptive Control for Asymptotically Consensus Tracking of Uncertain Nonlinear Systems With Intermittent Actuator Faults and Directed Communication Topology. *IEEE Transactions on Cybernetics*, **2021**, 51, 4050-4061	10.2	6
38	Decentralized adaptive consensus control of uncertain nonlinear systems under directed topologies **2015**,		6
37	Fault detection for ironmaking process based on stacked denoising autoencoders **2016**,		6
36	Distributed Adaptive Resilient Formation Control of Uncertain Nonholonomic Mobile Robots Under Deception Attacks. *IEEE Transactions on Circuits and Systems I: Regular Papers*, **2021**, 68, 3822-3835	3.9	6
35	Simultaneous identification of bi-directional paths in closed-loop systems with coloured noise. *Automatica*, **2015**, 58, 139-142	5.7	5
34	. *IEEE Transactions on Aerospace and Electronic Systems*, **2013**, 49, 1391-1399	3.7	5
33	Event-Triggered Finite-Time Consensus of Second-Order Leader-Follower Multiagent Systems With Uncertain Disturbances. *IEEE Transactions on Cybernetics*, **2020**, PP,	10.2	5
32	Robust state estimation for linear systems with parametric uncertainties and quantised measurements. *International Journal of Systems Science*, **2015**, 46, 526-534	2.3	4
31	Hierarchical decomposition based distributed adaptive control for output consensus tracking of uncertain nonlinear systems **2013**,		4
30	Extended state observer-based robust fault-tolerant controller for flight control surface failures **2009**,		4
29	Identifying topology and system parameters of fractional-order complex dynamical networks. *Applied Mathematics and Computation*, **2022**, 414, 126666	2.7	4

#	Publication		
28	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.. *IFAC-PapersOnLine*, **2015**, 48, 452-457	0.7	3
27	Distributed adaptive consensus tracking for uncertain high-order nonlinear multiagent systems with event-triggered communication. *Optimal Control Applications and Methods*, **2020**, 41, 2077-2093	1.7	3
26	Distributed H containment control of multiagent systems over switching topologies with communication time delay. *International Journal of Robust and Nonlinear Control*, **2020**, 30, 5221-5232	3.6	3
25	Distributed adaptive output feedback control of uncertain multi-agent systems with actuator faults and communication delays **2016**,		3
24	Informative conditions for a data set in an MIMO networked control system. *Neurocomputing*, **2013**, 121, 309-316	5.4	3
23	Discrete time-varying fault detection filter for non-uniformly sampled-data systems. *Science China Information Sciences*, **2014**, 57, 1-11	3.4	3
22	A Hierarchical Security Control Framework of Nonlinear CPSs Against DoS Attacks With Application to Power Sharing of AC Microgrids. *IEEE Transactions on Cybernetics*, **2020**, PP,	10.2	3
21	Topology identification of fractional-order complex dynamical networks based on auxiliary-system approach. *Chaos*, **2021**, 31, 043125	3.3	3
20	Fully distributed adaptive consensus control for a class of nonlinear systems of directed topology. *Transactions of the Institute of Measurement and Control*, **2018**, 40, 675-684	1.8	2
19	Adaptive containment control for a class of multi-agent systems with unknown actuator failures **2016**,		2
18	Set-membership state estimation with nonlinear equality constraints and quantization. *Neurocomputing*, **2013**, 119, 359-365	5.4	2
17	Lower bounds in parameter estimation based on quantized measurements **2013**,		2
16	New robust fault-tolerant controller for self-repairing flight control systems. *Journal of Systems Engineering and Electronics*, **2011**, 22, 77-82	1.3	2
15	Adaptive failure compensation for uncertain systems with multiple inputs. *Journal of Systems Engineering and Electronics*, **2011**, 22, 70-76	1.3	2
14	Output feedback based adaptive consensus tracking for uncertain heterogeneous multi-agent systems with event-triggered communication. *Automatica*, **2022**, 136, 110049	5.7	2
13	Integrated design of residual generation and evaluation for fault detection of networked control systems. *International Journal of Robust and Nonlinear Control*, **2016**, 26, 519-541	3.6	2
12	Adaptive time-varying formation control of uncertain Euler Lagrange systems with event-triggered communication. *International Journal of Robust and Nonlinear Control*,	3.6	2
11	. *IEEE Transactions on Aerospace and Electronic Systems*, **2021**, 1-1	3.7	2

LIST OF PUBLICATIONS

10	Adaptive quantized attitude control for spacecraft with input saturation **2017**,		1
9	A new approach to design robust backstepping controller for MIMO nonlinear systems with input unmodeled dynamics **2009**,		1
8	Distributed adaptive control of multi-agent systems under directed graph for asymptotically consensus tracking **2016**,		1
7	Adaptive Tracking Control for a Class of Uncertain Systems With Output Disturbance. *IEEE Access*, **2021**, 9, 129141-129147	3.5	1
6	Adaptive Leaderless Consensus for Uncertain High-Order Nonlinear Multiagent Systems With Event-Triggered Communication. *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, **2022**, 1-11	7.3	1
5	Adaptive Finite-Time Fault-Tolerant Control of Uncertain Systems With Input Saturation. *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, **2022**, 1-13	7.3	1
4	Adaptive Backstepping Control of Uncertain Nonlinear Systems with Input and State Quantization. *IEEE Transactions on Automatic Control*, **2021**, 1-1	5.9	0
3	Distributed Successive Convex Approximation for Nonconvex Economic Dispatch in Smart Grid. *IEEE Transactions on Industrial Informatics*, **2021**, 17, 8288-8298	11.9	0
2	Adaptive Backstepping Control of Uncertain Sandwich-Like Nonlinear Systems With Deadzone Nonlinearity. *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, **2022**, 1-11	7.3	0
1	Adaptive Compensation for Intermittent Actuator Failures **2017**, 97-124		