

Wei Wang

List of Publications by Year in descending order

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114
papers

5,443
citations

101496

36
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82499

72
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115
all docs

115
docs citations

115
times ranked

2810
citing authors

#	ARTICLE	IF	CITATIONS
1	Adaptive actuator failure compensation control of uncertain nonlinear systems with guaranteed transient performance. <i>Automatica</i> , 2010, 46, 2082-2091.	3.0	571
2	Distributed adaptive control for consensus tracking with application to formation control of nonholonomic mobile robots. <i>Automatica</i> , 2014, 50, 1254-1263.	3.0	414
3	Adaptive compensation for infinite number of actuator failures or faults. <i>Automatica</i> , 2011, 47, 2197-2210.	3.0	265
4	Distributed adaptive asymptotically consensus tracking control of nonlinear multi-agent systems with unknown parameters and uncertain disturbances. <i>Automatica</i> , 2017, 77, 133-142.	3.0	249
5	Adaptive finite-time consensus control of a group of uncertain nonlinear mechanical systems. <i>Automatica</i> , 2015, 51, 292-301.	3.0	225
6	Adaptive output feedback tracking control of a nonholonomic mobile robot. <i>Automatica</i> , 2014, 50, 821-831.	3.0	183
7	Adaptive stabilization and tracking control of a nonholonomic mobile robot with input saturation and disturbance. <i>Systems and Control Letters</i> , 2013, 62, 234-241.	1.3	180
8	Design of adaptive finite-time controllers for nonlinear uncertain systems based on given transient specifications. <i>Automatica</i> , 2016, 69, 395-404.	3.0	149
9	Adaptive Event-Triggered Control of Nonlinear Systems With Controller and Parameter Estimator Triggering. <i>IEEE Transactions on Automatic Control</i> , 2020, 65, 318-324.	3.6	145
10	Adaptive control of uncertain nonlinear systems with quantized input signal. <i>Automatica</i> , 2018, 95, 152-162.	3.0	133
11	Adaptive Backstepping Control of Nonlinear Uncertain Systems With Quantized States. <i>IEEE Transactions on Automatic Control</i> , 2019, 64, 4756-4763.	3.6	130
12	Decentralized adaptive backstepping stabilization of interconnected systems with dynamic input and output interactions. <i>Automatica</i> , 2009, 45, 55-67.	3.0	129
13	Global stable tracking control of underactuated ships with input saturation. <i>Systems and Control Letters</i> , 2015, 85, 1-7.	1.3	123
14	Adaptive control of a class of strict-feedback time-varying nonlinear systems with unknown control coefficients. <i>Automatica</i> , 2018, 93, 98-105.	3.0	122
15	Decentralized adaptive tracking control for a class of interconnected nonlinear systems with input quantization. <i>Automatica</i> , 2017, 81, 359-368.	3.0	118
16	Adaptive backstepping control of uncertain systems with unknown input time-delay. <i>Automatica</i> , 2009, 45, 1415-1422.	3.0	112
17	Distributed adaptive leader-follower and leaderless consensus control of a class of strict-feedback nonlinear systems: a unified approach. <i>Automatica</i> , 2020, 118, 109021.	3.0	102
18	Adaptive consensus of uncertain nonlinear systems with event triggered communication and intermittent actuator faults. <i>Automatica</i> , 2020, 111, 108667.	3.0	91

#	ARTICLE	IF	CITATIONS
19	Distributed Adaptive Tracking Control for High-Order Nonlinear Multiagent Systems Over Event-Triggered Communication. <i>IEEE Transactions on Automatic Control</i> , 2023, 68, 1176-1183.	3.6	86
20	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> , 2018, 48, 2349-2356.	6.2	85
21	Smooth control design for adaptive leader-following consensus control of a class of high-order nonlinear systems with time-varying reference. <i>Automatica</i> , 2017, 83, 361-367.	3.0	81
22	Cooperative control for consensus of multi-agent systems with actuator faults. <i>Computers and Electrical Engineering</i> , 2014, 40, 2154-2166.	3.0	68
23	Distributed Filtering for Switched Nonlinear Positive Systems With Missing Measurements Over Sensor Networks. <i>IEEE Sensors Journal</i> , 2016, 16, 4940-4948.	2.4	65
24	Hierarchical Decomposition Based Consensus Tracking for Uncertain Interconnected Systems via Distributed Adaptive Output Feedback Control. <i>IEEE Transactions on Automatic Control</i> , 2016, 61, 1938-1945.	3.6	65
25	A Game Theory Based Collaborative Security Detection Method for Internet of Things Systems. <i>IEEE Transactions on Information Forensics and Security</i> , 2018, 13, 1432-1445.	4.5	65
26	Adaptive Failure Compensation Control for Uncertain Systems With Stochastic Actuator Failures. <i>IEEE Transactions on Automatic Control</i> , 2014, 59, 808-814.	3.6	61
27	Cooperative Containment Control of Multiagent Systems Based on Follower Observers With Time Delay. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2016, , 1-11.	5.9	59
28	Event-triggered control for stochastic nonlinear systems. <i>Automatica</i> , 2018, 95, 534-538.	3.0	58
29	Observer-Based Event-Triggered Adaptive Fuzzy Control for Leader-Following Consensus of Nonlinear Strict-Feedback Systems. <i>IEEE Transactions on Cybernetics</i> , 2021, 51, 2131-2141.	6.2	54
30	Pursuing an evader through cooperative relaying in multi-agent surveillance networks. <i>Automatica</i> , 2017, 83, 155-161.	3.0	52
31	Prescribed performance bound-based adaptive path-following control of uncertain nonholonomic mobile robots. <i>International Journal of Adaptive Control and Signal Processing</i> , 2017, 31, 805-822.	2.3	52
32	Output feedback control of networked control systems with packet dropouts in both channels. <i>Information Sciences</i> , 2013, 221, 544-554.	4.0	51
33	Sampled-Data-Based Consensus and L_2 -Gain Analysis for Heterogeneous Multiagent Systems. <i>IEEE Transactions on Cybernetics</i> , 2017, 47, 1523-1531.	6.2	49
34	Adaptive backstepping based consensus tracking of uncertain nonlinear systems with event-triggered communication. <i>Automatica</i> , 2021, 133, 109841.	3.0	47
35	Adaptive fault-tolerant stabilization for nonlinear systems with Markovian jumping actuator failures and stochastic noises. <i>Automatica</i> , 2015, 51, 200-209.	3.0	46
36	Distributed Adaptive Containment Control for a Class of Nonlinear Multiagent Systems With Input Quantization. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2018, 29, 2419-2428.	7.2	42

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37	Adaptive Control of DC Motor Servo System With Application to Vehicle Active Steering. IEEE/ASME Transactions on Mechatronics, 2019, 24, 1054-1063.	3.7	41
38	Adaptive Backstepping Control of Uncertain Gear Transmission Servosystems With Asymmetric Dead-Zone Nonlinearity. IEEE Transactions on Industrial Electronics, 2019, 66, 3752-3762.	5.2	37
39	Adaptive Control Design for Underactuated Cranes With Guaranteed Transient Performance: Theoretical Design and Experimental Verification. IEEE Transactions on Industrial Electronics, 2022, 69, 2822-2832.	5.2	37
40	Fault diagnosis based on parameter estimation in closed-loop systems. IET Control Theory and Applications, 2015, 9, 1146-1153.	1.2	36
41	Fault-tolerant containment control of uncertain nonlinear systems in strict-feedback form. International Journal of Robust and Nonlinear Control, 2017, 27, 497-511.	2.1	36
42	Adaptive cooperative control for a class of nonlinear multi-agent systems with dead zone and input delay. Nonlinear Dynamics, 2019, 96, 2707-2719.	2.7	31
43	Output feedback based adaptive consensus tracking for uncertain heterogeneous multi-agent systems with event-triggered communication. Automatica, 2022, 136, 110049.	3.0	30
44	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.	7.2	26
45	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.	7.2	26
46	Game theoretical security detection strategy for networked systems. Information Sciences, 2018, 453, 346-363.	4.0	25
47	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.	2.1	23
48	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.	3.5	23
49	Adaptive Backstepping Control of Uncertain Nonlinear Systems With Input and State Quantization. IEEE Transactions on Automatic Control, 2022, 67, 6754-6761.	3.6	23
50	Fault Diagnosis for Blast Furnace Ironmaking Process Based on Two-stage Principal Component Analysis. ISIJ International, 2014, 54, 2334-2341.	0.6	22
51	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.	6.2	22
52	Distributed adaptive asymptotically consensus tracking control of uncertain Euler-Lagrange systems under directed graph condition. ISA Transactions, 2017, 71, 121-129.	3.1	21
53	Recent advances in distributed adaptive consensus control of uncertain nonlinear multi-agent systems. Journal of Control and Decision, 2020, 7, 44-63.	0.7	21
54	Event-Triggered Finite-Time Consensus of Second-Order Leader-Follower Multiagent Systems With Uncertain Disturbances. IEEE Transactions on Cybernetics, 2022, 52, 3783-3793.	6.2	18

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55	Adaptive output feedback controller design for a class of uncertain nonlinear systems with actuator failures. , 2010, , .		17
56	State estimation for Markovian Jump Linear Systems with bounded disturbances. Automatica, 2013, 49, 3292-3303.	3.0	17
57	Distributed containment control of multiagent systems over switching topologies with communication time delay. International Journal of Robust and Nonlinear Control, 2020, 30, 5221-5232.	2.1	17
58	Adaptive time-varying formation control of uncertain Euler-Lagrange systems with event-triggered communication. International Journal of Robust and Nonlinear Control, 2021, 31, 9026-9039.	2.1	17
59	Adaptive Leaderless Consensus for Uncertain High-Order Nonlinear Multiagent Systems With Event-Triggered Communication. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 7101-7111.	5.9	17
60	A Hierarchical Security Control Framework of Nonlinear CPSs Against DoS Attacks With Application to Power Sharing of AC Microgrids. IEEE Transactions on Cybernetics, 2022, 52, 5255-5266.	6.2	16
61	Stability analysis of decentralized adaptive backstepping control systems with actuator failures. Journal of Systems Science and Complexity, 2009, 22, 109-121.	1.6	15
62	Semiglobal Consensus of a Class of Heterogeneous Multi-Agent Systems With Saturation. IEEE Transactions on Neural Networks and Learning Systems, 2020, 31, 4946-4955.	7.2	15
63	Spacecraft Proximity Maneuvering and Rendezvous With Collision Avoidance Based on Reinforcement Learning. IEEE Transactions on Aerospace and Electronic Systems, 2022, 58, 5823-5834.	2.6	15
64	Adaptive Control of Quantized Uncertain Nonlinear Systems. IFAC-PapersOnLine, 2017, 50, 10425-10430.	0.5	14
65	Adaptive neural finite-time containment control for nonlinear triangular nonlinear multi-agent systems with dynamics uncertainties. Neurocomputing, 2020, 391, 157-166.	3.5	14
66	Identifying topology and system parameters of fractional-order complex dynamical networks. Applied Mathematics and Computation, 2022, 414, 126666.	1.4	14
67	Adaptive Finite-Time Fault-Tolerant Control of Uncertain Systems With Input Saturation. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2023, 53, 165-177.	5.9	14
68	A new robust fault-tolerant controller for self-repairing flight control system. Journal of the Franklin Institute, 2013, 350, 2509-2518.	1.9	13
69	Simultaneous Identification of Bidirectional Path Models Based on Process Data. IEEE Transactions on Automation Science and Engineering, 2015, 12, 666-679.	3.4	13
70	A new approach to adaptive actuator failure compensation in uncertain systems. , 2009, , .		12
71	Distributed adaptive consensus tracking for uncertain high-order nonlinear multiagent systems with event-triggered communication. Optimal Control Applications and Methods, 2020, 41, 2077-2093.	1.3	12
72	Fault detection for ironmaking process based on stacked denoising autoencoders. , 2016, , .		11

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73	Decentralized adaptive consensus control of uncertain nonlinear systems under directed topologies. , 2015, , .		10
74	Distributed Adaptive Attitude Synchronization of Multiple Spacecraft With Event-Triggered Communication. IEEE Transactions on Aerospace and Electronic Systems, 2022, 58, 262-274.	2.6	9
75	Adaptive Backstepping Control of Uncertain Sandwich-Like Nonlinear Systems With Deadzone Nonlinearity. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 7268-7278.	5.9	9
76	Auxiliary Signal Design for Active Fault Detection Based on Set-membership $\hat{\dots}$ $\hat{\dots}$. 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.	0.5	8
77	Distributed Successive Convex Approximation for Nonconvex Economic Dispatch in Smart Grid. IEEE Transactions on Industrial Informatics, 2021, 17, 8288-8298.	7.2	8
78	Hierarchical decomposition based distributed adaptive control for output consensus tracking of uncertain nonlinear systems. , 2013, , .		7
79	Distributed containment control of multi-agent systems under asynchronous switching and stochastic disturbances. IET Control Theory and Applications, 2019, 13, 1105-1112.	1.2	7
80	Extended state observer-based robust fault-tolerant controller for flight control surface failures. , 2009, , .		6
81	Model Reduction Based Set-Membership Filtering with Linear State Equality Constraints. IEEE Transactions on Aerospace and Electronic Systems, 2013, 49, 1391-1399.	2.6	6
82	Discrete time-varying fault detection filter for non-uniformly sampled-data systems. Science China Information Sciences, 2014, 57, 1-11.	2.7	5
83	Simultaneous identification of bi-directional paths in closed-loop systems with coloured noise. Automatica, 2015, 58, 139-142.	3.0	5
84	Distributed adaptive control of multi-agent systems under directed graph for asymptotically consensus tracking. , 2016, , .		5
85	Topology identification of fractional-order complex dynamical networks based on auxiliary-system approach. Chaos, 2021, 31, 043125.	1.0	5
86	Adaptive failure compensation for uncertain systems with multiple inputs. Journal of Systems Engineering and Electronics, 2011, 22, 70-76.	1.1	4
87	Robust state estimation for linear systems with parametric uncertainties and quantised measurements. International Journal of Systems Science, 2015, 46, 526-534.	3.7	4
88	Informative conditions for a data set in an MIMO networked control system. Neurocomputing, 2013, 121, 309-316.	3.5	3
89	Set-membership state estimation with nonlinear equality constraints and quantization. Neurocomputing, 2013, 119, 359-365.	3.5	3
90	Distributed adaptive output feedback control of uncertain multi-agent systems with actuator faults and communication delays. , 2016, , .		3

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91	Adaptive backstepping control of uncertain systems in the presence of unmodeled dynamics and time-varying delays. , 2016, , .		3
92	Adaptive quantized attitude control for spacecraft with input saturation. , 2017, , .		3
93	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.	1.1	3
94	Adaptive Backstepping based Secure Control for P-normal Form of Second-Order Nonlinear Systems Against Deception Attacks. , 2021, , .		3
95	New robust fault-tolerant controller for self-repairing flight control systems. Journal of Systems Engineering and Electronics, 2011, 22, 77-82.	1.1	2
96	Lower bounds in parameter estimation based on quantized measurements. , 2013, , .		2
97	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.	2.1	2
98	Adaptive containment control for a class of multi-agent systems with unknown actuator failures. , 2016, , .		2
99	Adaptive Asymptotically Tracking Control for Uncertain Strict-feedback Nonlinear Systems With Input Quantization. , 2018, , .		2
100	Event-triggered Adaptive Output Consensus Tracking Control of Uncertain Nonlinear Multi-agent Systems. , 2020, , .		2
101	Adaptive Tracking Control for a Class of Uncertain Systems With Output Disturbance. IEEE Access, 2021, 9, 129141-129147.	2.6	2
102	Prescribed Performance Bound-based Adaptive Tracking Control of a Mobile Robot with Visibility Constraints. , 2021, , .		2
103	A new approach to design robust backstepping controller for MIMO nonlinear systems with input unmodeled dynamics. , 2009, , .		1
104	Global stabilization control of underactuated ships with input saturation. , 2015, , .		1
105	An open issue in direct adaptive solutions to actuator failure compensation problems. , 2010, , .		0
106	Decentralized adaptive output tracking control of interconnected nonlinear systems with actuator failures. , 2012, , .		0
107	Robust adaptive path following control of nonholonomic mobile robots with transverse function approach. , 2014, , .		0
108	Observer-based dynamic output-feedback protocol for H_∞ tracking control of multi-agent systems. , 2017, , .		0

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109	Distributed Adaptive Consensus Tracking Control of Uncertain High-order Nonlinear Systems under Directed Graph Condition. , 2018, , .		0
110	Adaptive Finite-Time Varying Fault Compensation Tracking Control for Linear Systems. , 2020, , .		0
111	Adaptive Compensation for Intermittent Actuator Failures. , 2017, , 97-124.		0
112	Distributed Adaptive Fault-tolerant Formation Control of Uncertain Nonholonomic Mobile Robots. , 2021, , .		0
113	Adaptive Leaderless Consensus for a Class of Uncertain Nonlinear Systems with Intermittent Actuator Faults. , 2020, , .		0
114	A switching-free multiple-model approach for adaptive FTC of non-Lipschitz nonlinear uncertain systems under persistent actuator failures. IFAC Journal of Systems and Control, 2022, , 100201.	1.1	0