

Jian-Liang Wang

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123
papers

3,625
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32
h-index

58
g-index

158
ext. papers

4,723
ext. citations

3.6
avg, IF

5.54
L-index

#	Paper	IF	Citations
123	Reliable H_2 controller design for linear systems. <i>Automatica</i> , 2001 , 37, 717-725	5.7	341
122	Reliable robust flight tracking control: an LMI approach. <i>IEEE Transactions on Control Systems Technology</i> , 2002 , 10, 76-89	4.8	329
121	An LMI approach to . <i>Automatica</i> , 2007 , 43, 1656-1665	5.7	247
120	An LMI approach to minimum sensitivity analysis with application to fault detection. <i>Automatica</i> , 2005 , 41, 1995-2004	5.7	205
119	Non-fragile H_2 control for linear systems with multiplicative controller gain variations. <i>Automatica</i> , 2001 , 37, 727-737	5.7	148
118	An adaptive technique for robust diagnosis of faults with independent effects on system outputs. <i>International Journal of Control</i> , 2002 , 75, 792-802	1.5	109
117	Distributed Formation and Reconfiguration Control of VTOL UAVs. <i>IEEE Transactions on Control Systems Technology</i> , 2017 , 25, 270-277	4.8	108
116	. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2016 , 17, 2419-2429	6.1	98
115	. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2013 , 43, 689-697	7.3	92
114	Robust nonfragile Kalman filtering for uncertain linear systems with estimator gain uncertainty. <i>IEEE Transactions on Automatic Control</i> , 2001 , 46, 343-348	5.9	80
113	A PD-Like Protocol With a Time Delay to Average Consensus Control for Multi-Agent Systems Under an Arbitrarily Fast Switching Topology. <i>IEEE Transactions on Cybernetics</i> , 2017 , 47, 898-907	10.2	74
112	Reliable control using redundant controllers. <i>IEEE Transactions on Automatic Control</i> , 1998 , 43, 1588-1593	3.9	72
111	Delay-dependent exponential H_2 filtering for discrete-time switched delay systems. <i>International Journal of Robust and Nonlinear Control</i> , 2012 , 22, 1522-1536	3.6	71
110	. <i>IEEE Transactions on Vehicular Technology</i> , 2017 , 66, 981-991	6.8	62
109	Feedback linearization families for nonlinear systems. <i>IEEE Transactions on Automatic Control</i> , 1987 , 32, 935-940	5.9	59
108	H_8 control for linear systems with additive controller gain variations. <i>International Journal of Control</i> , 2000 , 73, 1500-1506	1.5	58
107	Non-fragile positive real control for uncertain linear neutral delay systems. <i>Systems and Control Letters</i> , 2004 , 52, 59-74	2.4	57

106	CNN-Based Distributed Adaptive Control for Vehicle-Following Platoon With Input Saturation. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2018 , 19, 3121-3132	6.1	56
105	Reliable guaranteed cost control for uncertain nonlinear systems. <i>IEEE Transactions on Automatic Control</i> , 2000 , 45, 2188-2192	5.9	49
104	Robust stabilization via state feedback for descriptor systems with uncertainties in the derivative matrix. <i>International Journal of Control</i> , 2000 , 73, 407-415	1.5	49
103	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	7.3	47
102	Reliable H_{∞} control for affine nonlinear systems. <i>IEEE Transactions on Automatic Control</i> , 1998 , 43, 1112-1117	5.9	45
101	Output feedback control of networked control systems with packet dropouts in both channels. <i>Information Sciences</i> , 2013 , 221, 544-554	7.7	44
100	Reliable guaranteed variance filtering against sensor failures. <i>IEEE Transactions on Signal Processing</i> , 2003 , 51, 1403-1411	4.8	43
99	Quantized H_{∞} Consensus of Multiagent Systems With Quantization Mismatch Under Switching Weighted Topologies. <i>IEEE Transactions on Control of Network Systems</i> , 2017 , 4, 202-212	4	40
98	Quantised H_{∞} Filtering for networked systems with random sensor packet losses. <i>IET Control Theory and Applications</i> , 2010 , 4, 1339-1352	2.5	39
97	Parameterized linear systems and linearization families for nonlinear systems. <i>IEEE Transactions on Circuits and Systems</i> , 1987 , 34, 650-657		39
96	STABILIZATION AND H_{∞} CONTROL FOR UNCERTAIN STOCHASTIC TIME-DELAY SYSTEMS VIA NON-FRAGILE CONTROLLERS. <i>Asian Journal of Control</i> , 2008 , 8, 197-200	1.7	38
95	Robust Fault Detection Observer Design: Iterative LMI Approaches. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2007 , 129, 77-82	1.6	38
94	Reliable LQG control with sensor failures. <i>IET Control Theory and Applications</i> , 2000 , 147, 433-439		37
93	Analysis on robust stability for interval descriptor systems. <i>Systems and Control Letters</i> , 2001 , 42, 267-278	2.4	35
92	Guaranteed cost control for discrete-time linear systems under controller gain perturbations. <i>Linear Algebra and Its Applications</i> , 2000 , 312, 161-180	0.9	32
91	Robustness of uncertain descriptor systems. <i>Systems and Control Letters</i> , 1997 , 31, 129-138	2.4	31
90	Fault-Tolerant Robust Automatic Landing Control Design. <i>Journal of Guidance, Control, and Dynamics</i> , 2005 , 28, 854-871	2.1	30
89	Adaptive fuzzy fault-tolerant control for multiple high-speed trains with proportional and integral-based sliding mode. <i>IET Control Theory and Applications</i> , 2017 , 11, 1234-1244	2.5	29

88	Nonlinear Control Allocation for Non-Minimum Phase Systems. <i>IEEE Transactions on Control Systems Technology</i> , 2009 , 17, 394-404	4.8	29
87	Robust static output feedback design for polynomial nonlinear systems. <i>International Journal of Robust and Nonlinear Control</i> , 2010 , 20, 1637-1654	3.6	29
86	Quantized insensitive consensus of Lipschitz nonlinear multi-agent systems using the incidence matrix. <i>Journal of the Franklin Institute</i> , 2015 , 352, 4845-4863	4	28
85	On the pseudo-linearization problem for nonlinear systems. <i>Systems and Control Letters</i> , 1989 , 12, 161-167	4	28
84	Non-fragile guaranteed cost control for discrete-time uncertain linear systems. <i>International Journal of Systems Science</i> , 2001 , 32, 845-853	2.3	25
83	Improved robust model predictive control with structured uncertainty. <i>Journal of Process Control</i> , 2007 , 17, 683-688	3.9	24
82	. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , 2016 , 52, 891-903	3.7	23
81	Tracking of a moving ground target by a quadrotor using a backstepping approach based on a full state cascaded dynamics. <i>Applied Soft Computing Journal</i> , 2016 , 47, 47-62	7.5	22
80	Nonfragile H _∞ Output Feedback Controller Design for Linear Systems*. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2003 , 125, 117-123	1.6	21
79	Reliable Control of Uncertain Nonlinear Systems. <i>Automatica</i> , 1998 , 34, 875-879	5.7	20
78	Neuroadaptive quantized PID sliding-mode control for heterogeneous vehicular platoon with unknown actuator deadzone. <i>International Journal of Robust and Nonlinear Control</i> , 2019 , 29, 188-208	3.6	18
77	Reliable nonlinear control system design by using strictly redundant control elements. <i>International Journal of Control</i> , 1998 , 69, 315-328	1.5	16
76	Adaptive control allocation for non-linear systems with internal dynamics. <i>IET Control Theory and Applications</i> , 2010 , 4, 909-922	2.5	14
75	Necessary and sufficient conditions for the controllability of linear interval descriptor systems. <i>Automatica</i> , 1998 , 34, 363-367	5.7	14
74	A nonlinear flight controller design for aircraft. <i>Control Engineering Practice</i> , 1995 , 3, 813-825	3.9	13
73	Event-triggered Switching-type Fault Detection and Isolation for Fuzzy Control Systems under DoS Attacks. <i>IEEE Transactions on Fuzzy Systems</i> , 2020 , 1-1	8.3	13
72	Adaptive quantised observer-based output feedback control for non-linear systems with input and output quantisation. <i>IET Control Theory and Applications</i> , 2017 , 11, 263-272	2.5	12
71	Worst-Case Fault Detection Observer Design: Optimization Approach. <i>Journal of Optimization Theory and Applications</i> , 2007 , 132, 475-491	1.6	12

70	Decentralized control of symmetric systems. <i>Systems and Control Letters</i> , 2001 , 42, 145-149	2.4	12
69	Neural-fuzzy scheduling of H _∞ robust controllers for a high performance fighter aircraft under a Herbst-like manoeuvre. <i>International Journal of Control</i> , 1999 , 72, 740-754	1.5	12
68	Non-fragile quantized H _∞ output feedback control for nonlinear systems with quantized inputs and outputs. <i>Journal of the Franklin Institute</i> , 2017 , 354, 415-438	4	11
67	H _∞ Control for Networked Control Systems with Limited Communication. <i>European Journal of Control</i> , 2012 , 18, 103-118	2.5	11
66	Constrained Nonlinear Finite-Time Control Allocation. <i>Proceedings of the American Control Conference</i> , 2007 ,	1.2	11
65	Extended nonlinear flight controller design for aircraft. <i>Automatica</i> , 1996 , 32, 1187-1193	5.7	11
64	Event-Triggered Adaptive Fault-Tolerant Pinning Control for Cluster Consensus of Heterogeneous Nonlinear Multi-Agent Systems Under Aperiodic DoS Attacks. <i>IEEE Transactions on Network Science and Engineering</i> , 2021 , 8, 1941-1956	4.9	11
63	. <i>IEEE/CAA Journal of Automatica Sinica</i> , 2021 , 8, 1644-1656	7	11
62	Stable controller synthesis for linear time-invariant systems. <i>International Journal of Control</i> , 2002 , 75, 154-162	1.5	10
61	Decentralized H _∞ controller design for composite systems: Linear case. <i>International Journal of Control</i> , 1999 , 72, 815-825	1.5	10
60	Neural adaptive flight controller for ducted-fan UAV performing nonlinear maneuver 2013 ,		9
59	Output regulation of time delay systems based on internal model principle 2013 ,		9
58	An improved nonlinear H _∞ synthesis for parameter-dependent polynomial nonlinear systems using SOS programming 2009 ,		9
57	Resilient guaranteed cost control to tolerate actuator faults for discrete-time uncertain linear systems. <i>IET Control Theory and Applications</i> , 2000 , 147, 277-284		9
56	Distributed adaptive control for vehicular platoon with unknown dead-zone inputs and velocity/acceleration disturbances. <i>International Journal of Robust and Nonlinear Control</i> , 2017 , 27, 2961-2981	3.6	8
55	Maximum bounds for robust stability of linear uncertain descriptor systems with structured perturbations. <i>International Journal of Systems Science</i> , 2003 , 34, 463-467	2.3	8
54	Robust controllability and robust closed-loop stability with static output feedback for a class of uncertain descriptor systems. <i>Linear Algebra and Its Applications</i> , 1999 , 297, 133-155	0.9	8
53	Distributed neuroadaptive fault-tolerant sliding-mode control for 2-D plane vehicular platoon systems with spacing constraints and unknown direction faults. <i>Automatica</i> , 2021 , 129, 109675	5.7	8

52	Observer-based h-infinity control in multiple channel networked control systems with random packet dropouts. <i>Journal of Control Theory and Applications</i> , 2010 , 8, 359-367		7
51	Reliable Robust Preview Tracking Control Against Actuator Faults. <i>Asian Journal of Control</i> , 2008 , 5, 124-131		7
50	String stability of heterogeneous leader-following vehicle platoons based on constant spacing policy 2016 ,		6
49	Actuator fault diagnosis for a class of bilinear systems with uncertainty. <i>Journal of the Franklin Institute</i> , 2002 , 339, 361-374	4	6
48	Robust sampled-data H _∞ -flight-controller design for high stability-axis roll maneuver. <i>Control Engineering Practice</i> , 2000 , 8, 735-747	3.9	6
47	Decentralized H _∞ -controller design for nonlinear systems. <i>IEEE Transactions on Automatic Control</i> , 1999 , 44, 578-583	5.9	6
46	Event-Triggered Observer-Based H_{∞} Consensus Control and Fault Detection of Multiagent Systems under Stochastic False Data Injection Attacks. <i>IEEE Transactions on Network Science and Engineering</i> , 2021 , 1-1	4.9	6
45	Robust linear output feedback controller for autonomous landing of a quadrotor on a ship deck. <i>International Journal of Control</i> , 2019 , 92, 2791-2805	1.5	6
44	Adaptive nonlinear control allocation of non-minimum phase uncertain systems 2009 ,		5
43	. <i>IEEE Transactions on Automatic Control</i> , 1988 , 33, 793-796	5.9	5
42	Novel auxiliary saturation compensation design for neuroadaptive NTSM tracking control of high speed trains with actuator saturation. <i>Journal of the Franklin Institute</i> , 2020 , 357, 1582-1602	4	5
41	Fully Distributed Adaptive Fault-Tolerant Sliding-Mode Control for Nonlinear Leader-Following Multiagent Systems With ANASs and IQCs. <i>IEEE Transactions on Cybernetics</i> , 2020 , PP,	10.2	5
40	Vision-based autonomous flocking of UAVs in unknown forest environment 2016 ,		4
39	Welcome from the general chairs and program chairs 2010 ,		4
38	Reliable nonlinear control system design using duplicated control elements. <i>International Journal of Robust and Nonlinear Control</i> , 1997 , 7, 1103-1122	3.6	4
37	LMI-based reliable robust preview tracking control against actuator faults 2001 ,		4
36	An Iterative LMI Method to Discrete-time Reliable State-feedback Controller Design with Mixed H ₂ /H _∞ Performance. <i>European Journal of Control</i> , 2002 , 8, 126-135	2.5	4
35	Actuator Fault Estimation Scheme for Flight Applications. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2002 , 124, 701-704	1.6	4

34	BLF-Based Neuroadaptive Fault-Tolerant Control for Nonlinear Vehicular Platoon With Time-Varying Fault Directions and Distance Restrictions. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2021 , 1-11	6.1	4
33	A Low-Complexity Control for Nonlinear Vehicular Platoon with Asymmetric Actuator Saturation 2018 ,		4
32	Flight Control of VTOL Quadrotor Aircraft via Output Feedback 2010 ,		3
31	H-infinity control of Networked Control Systems with bounded packet dropouts 2011 ,		3
30	Reliable linear-quadratic control for singularly perturbed systems. <i>International Journal of Systems Science</i> , 2002 , 33, 949-958	2.3	3
29	Scheduling of local nonlinear control laws by exogenous signals in application to flight control. <i>International Journal of Control</i> , 1995 , 61, 759-782	1.5	3
28	. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , 2016 , 52, 990-1005	3.7	2
27	Adaptive platoon control for nonlinear vehicular systems with asymmetric input deadzone and inter-vehicular spacing constraints 2017 ,		2
26	Non-fragile H _∞ consensus of linear multi-agent systems with interval-bounded variations 2015 ,		2
25	Ship deck landing of a quadrotor using the invariant ellipsoid technique 2014 ,		2
24	Quantized H _∞ control for networked control systems with packet dropouts 2009 ,		2
23	Neural adaptive back stepping flight controller for a ducted fan UAV 2012 ,		2
22	Stability Analysis and Controller Synthesis for Parameter-Dependent Polynomial Nonlinear Systems. <i>Proceedings of the American Control Conference</i> , 2007 ,	1.2	2
21	An optimization approach for worst-case fault detection observer design 2004 ,		2
20	Iterative LMI approach for robust fault detection observer design		2
19	Reliable H _∞ /spl infin/ aircraft flight controller design against faults with state/output feedback		2
18	Technical note Robust structural stability of linear interval descriptor systems. <i>International Journal of Systems Science</i> , 1999 , 30, 1325-1329	2.3	2
17	3D motion planning for UAVs in GPS-denied unknown forest environment 2016 ,		2

16	Fault tolerant control and detection of networked control systems with Markov packet dropouts 2014,		1
15	A non-feature-based model for range identification 2014,		1
14	Depth and normal vector identification of an unknown slope from a UAV using a single camera 2013,		1
13	Development of a novel visual feature detection-based method for aircraft door identification using vision approach 2017,		1
12	A novel PID controller gain tuning method for a quadrotor landing on a ship deck using the invariant ellipsoid technique 2014,		1
11	Dynamics of 3D polygonal rendering 2010,		1
10	Reliable controller design for nonlinear systems		1
9	A dynamic backpropagation algorithm with application to gain-scheduled aircraft flight control system design		1
8	Stability Analysis and Design for Polynomial Nonlinear Systems Using SOS with Application to Aircraft Flight Control. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008,</i> 41, 8684-8689		1
7	Multi-objective Robust Model Predictive Control: Trajectory Tracking Problem Through LMI Formulation. <i>Proceedings of the American Control Conference, 2007,</i>	1.2	1
6	Reliable nonlinear control system design using redundant control elements		1
5	A vision tracking system via color detection 2016,		1
4	Cluster synchronization of heterogeneous nonlinear multi-agent systems with actuator faults and IQCs through adaptive fault-tolerant pinning control. <i>Information Sciences, 2021,</i> 575, 289-305	7.7	1
3	Observer-Based Event-Triggered Composite Anti-Disturbance Control for Multi-Agent Systems Under Multiple Disturbances and Stochastic FDIAs. <i>IEEE Transactions on Automation Science and Engineering, 2022,</i> 1-13	4.9	1
2	Maximum bounds for robust stability of linear uncertain descriptor systems with structured perturbations. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1999,</i> 32, 1589-1594		
1	Motion Context Network for Weakly Supervised Object Detection in Videos. <i>IEEE Signal Processing Letters, 2020,</i> 27, 1864-1868	3.2	