Jian-Liang 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.

123 papers	**3,625** citations
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	Observer-Based Event-Triggered Composite Anti-Disturbance Control for Multi-Agent Systems Under Multiple Disturbances and Stochastic FDIAs. *IEEE Transactions on Automation Science and Engineering*, **2022**, 1-13	4.9	1
122	Event-Triggered Observer-Based $\mathcal{H}_\infty$ Consensus Control and Fault Detection of Multiagent Systems under Stochastic False Data Injection Attacks. *IEEE Transactions on Network Science and Engineering*, **2021**, 1-1	4.9	6
121	Event-Triggered Adaptive Fault-Tolerant Pinning Control for Cluster Consensus of Heterogeneous Nonlinear Multi-Agent Systems Under Aperiodic DoS Attacks. *IEEE Transactions on Network Science and Engineering*, **2021**, 8, 1941-1956	4.9	11
120	Distributed neuroadaptive fault-tolerant sliding-mode control for 2-D plane vehicular platoon systems with spacing constraints and unknown direction faults. *Automatica*, **2021**, 129, 109675	5.7	8
119	BLF-Based Neuroadaptive Fault-Tolerant Control for Nonlinear Vehicular Platoon With Time-Varying Fault Directions and Distance Restrictions. *IEEE Transactions on Intelligent Transportation Systems*, **2021**, 1-11	6.1	4
118	. *IEEE/CAA Journal of Automatica Sinica*, **2021**, 8, 1644-1656	7	11
117	Cluster synchronization of heterogeneous nonlinear multi-agent systems with actuator faults and IQCs through adaptive fault-tolerant pinning control. *Information Sciences*, **2021**, 575, 289-305	7.7	1
116	Novel auxiliary saturation compensation design for neuroadaptive NTSM tracking control of high speed trains with actuator saturation. *Journal of the Franklin Institute*, **2020**, 357, 1582-1602	4	5
115	Fully Distributed Adaptive Fault-Tolerant Sliding-Mode Control for Nonlinear Leader-Following Multiagent Systems With ANASs and IQCs. *IEEE Transactions on Cybernetics*, **2020**, PP,	10.2	5
114	Event-triggered Switching-type Fault Detection and Isolation for Fuzzy Control Systems under DoS Attacks. *IEEE Transactions on Fuzzy Systems*, **2020**, 1-1	8.3	13
113	Motion Context Network for Weakly Supervised Object Detection in Videos. *IEEE Signal Processing Letters*, **2020**, 27, 1864-1868	3.2	
112	Neuroadaptive quantized PID sliding-mode control for heterogeneous vehicular platoon with unknown actuator deadzone. *International Journal of Robust and Nonlinear Control*, **2019**, 29, 188-208	3.6	18
111	Robust linear output feedback controller for autonomous landing of a quadrotor on a ship deck. *International Journal of Control*, **2019**, 92, 2791-2805	1.5	6
110	CNN-Based Distributed Adaptive Control for Vehicle-Following Platoon With Input Saturation. *IEEE Transactions on Intelligent Transportation Systems*, **2018**, 19, 3121-3132	6.1	56
109	A Low-Complexity Control for Nonlinear Vehicular Platoon with Asymmetric Actuator Saturation **2018**,		4
108	Quantized H_{∞} Consensus of Multiagent Systems With Quantization Mismatch Under Switching Weighted Topologies. *IEEE Transactions on Control of Network Systems*, **2017**, 4, 202-212	4	40
107	. *IEEE Transactions on Vehicular Technology*, **2017**, 66, 981-991	6.8	62

106	Distributed Formation and Reconfiguration Control of VTOL UAVs. *IEEE Transactions on Control Systems Technology*, **2017**, 25, 270-277	4.8	108
105	Distributed adaptive control for vehicular platoon with unknown dead-zone inputs and velocity/acceleration disturbances. *International Journal of Robust and Nonlinear Control*, **2017**, 27, 2961-2981	3.6	8
104	A PD-Like Protocol With a Time Delay to Average Consensus Control for Multi-Agent Systems Under an Arbitrarily Fast Switching Topology. *IEEE Transactions on Cybernetics*, **2017**, 47, 898-907	10.2	74
103	Development of a novel visual feature detection-based method for aircraft door identification using vision approach **2017**,		1
102	Adaptive fuzzy fault-tolerant control for multiple high-speed trains with proportional and integral-based sliding mode. *IET Control Theory and Applications*, **2017**, 11, 1234-1244	2.5	29
101	Adaptive quantised observer-based output feedback control for non-linear systems with input and output quantisation. *IET Control Theory and Applications*, **2017**, 11, 263-272	2.5	12
100	Non-fragile quantized H output feedback control for nonlinear systems with quantized inputs and outputs. *Journal of the Franklin Institute*, **2017**, 354, 415-438	4	11
99	Adaptive platoon control for nonlinear vehicular systems with asymmetric input deadzone and inter-vehicular spacing constraints **2017**,		2
98	. *IEEE Transactions on Aerospace and Electronic Systems*, **2016**, 52, 990-1005	3.7	2
97	Vision-based autonomous flocking of UAVs in unknown forest environment **2016**,		4
96	String stability of heterogeneous leader-following vehicle platoons based on constant spacing policy **2016**,		6
95	. *IEEE Transactions on Aerospace and Electronic Systems*, **2016**, 52, 891-903	3.7	23
94	Tracking of a moving ground target by a quadrotor using a backstepping approach based on a full state cascaded dynamics. *Applied Soft Computing Journal*, **2016**, 47, 47-62	7.5	22
93	. *IEEE Transactions on Intelligent Transportation Systems*, **2016**, 17, 2419-2429	6.1	98
92	3D motion planning for UAVs in GPS-denied unknown forest environment **2016**,		2
91	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
90	A vision tracking system via color detection **2016**,		1
89	Quantized insensitive consensus of Lipschitz nonlinear multi-agent systems using the incidence matrix. *Journal of the Franklin Institute*, **2015**, 352, 4845-4863	4	28

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88	Non-fragile H∞ consensus of linear multi-agent systems with interval-bounded variations **2015**,		2
87	Fault tolerant control and detection of networked control systems with Markov packet dropouts **2014**,		1
86	A non-feature-based model for range identification **2014**,		1
85	A novel PID controller gain tuning method for a quadrotor landing on a ship deck using the invariant ellipsoid technique **2014**,		1
84	Ship deck landing of a quadrotor using the invariant ellipsoid technique **2014**,		2
83	Neural adaptive flight controller for ducted-fan UAV performing nonlinear maneuver **2013**,		9
82	. *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, **2013**, 43, 689-697	7.3	92
81	Output feedback control of networked control systems with packet dropouts in both channels. *Information Sciences*, **2013**, 221, 544-554	7.7	44
80	Depth and normal vector identification of an unknown slope from a UAV using a single camera **2013**,		1
79	Output regulation of time delay systems based on internal model principle **2013**,		9
78	H∞ Control for Networked Control Systems with Limited Communication. *European Journal of Control*, **2012**, 18, 103-118	2.5	11
77	Delay-dependent exponential H∞ filtering for discrete-time switched delay systems. *International Journal of Robust and Nonlinear Control*, **2012**, 22, 1522-1536	3.6	71
76	Neural adaptive back stepping flight controller for a ducted fan UAV **2012**,		2
75	H-infinity control of Networked Control Systems with bounded packet dropouts **2011**,		3
74	Dynamics of 3D polygonal rendering **2010**,		1
73	Flight Control of VTOL Quadrotor Aircraft via Output Feedback **2010**,		3
72	Welcome from the general chairs and program chairs **2010**,		4
71	Observer-based h-infinity control in multiple channel networked control systems with random packet dropouts. *Journal of Control Theory and Applications*, **2010**, 8, 359-367		7

70	Adaptive control allocation for non-linear systems with internal dynamics. *IET Control Theory and Applications*, **2010**, 4, 909-922	2.5	14
69	Quantised H filtering for networked systems with random sensor packet losses. *IET Control Theory and Applications*, **2010**, 4, 1339-1352	2.5	39
68	Robust static output feedback design for polynomial nonlinear systems. *International Journal of Robust and Nonlinear Control*, **2010**, 20, 1637-1654	3.6	29
67	Adaptive nonlinear control allocation of non-minimum phase uncertain systems **2009**,		5
66	An improved nonlinear H synthesis for parameter-dependent polynomial nonlinear systems using SOS programming **2009**,		9
65	Quantized H control for networked control systems with packet dropouts **2009**,		2
64	Nonlinear Control Allocation for Non-Minimum Phase Systems. *IEEE Transactions on Control Systems Technology*, **2009**, 17, 394-404	4.8	29
63	Reliable Robust Preview Tracking Control Against Actuator Faults. *Asian Journal of Control*, **2008**, 5, 124-131	1.7	7
62	STABILIZATION AND H CONTROL FOR UNCERTAIN STOCHASTIC TIME-DELAY SYSTEMS VIA NON-FRAGILE CONTROLLERS. *Asian Journal of Control*, **2008**, 8, 197-200	1.7	38
61	Stability Analysis and Design for Polynomial Nonlinear Systems Using SOS with Application to Aircraft Flight Control. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2008**, 41, 8684-8689		1
60	An LMI approach to . *Automatica*, **2007**, 43, 1656-1665	5.7	247
59	Improved robust model predictive control with structured uncertainty. *Journal of Process Control*, **2007**, 17, 683-688	3.9	24
58	Worst-Case Fault Detection Observer Design: Optimization Approach. *Journal of Optimization Theory and Applications*, **2007**, 132, 475-491	1.6	12
57	Stability Analysis and Controller Synthesis for Parameter-Dependent Polynomial Nonlinear Systems. *Proceedings of the American Control Conference*, **2007**,	1.2	2
56	Robust Fault Detection Observer Design: Iterative LMI Approaches. *Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME*, **2007**, 129, 77-82	1.6	38
55	Multi-objective Robust Model Predictive Control: Trajectory Tracking Problem Through LMI Formulation. *Proceedings of the American Control Conference*, **2007**,	1.2	1
54	Constrained Nonlinear Finite-Time Control Allocation. *Proceedings of the American Control Conference*, **2007**,	1.2	11
53	Fault-Tolerant Robust Automatic Landing Control Design. *Journal of Guidance, Control, and Dynamics*, **2005**, 28, 854-871	2.1	30

52	An LMI approach to minimum sensitivity analysis with application to fault detection. *Automatica*, **2005**, 41, 1995-2004	5.7	205
51	An optimization approach for worst-case fault detection observer design **2004**,		2
50	Non-fragile positive real control for uncertain linear neutral delay systems. *Systems and Control Letters*, **2004**, 52, 59-74	2.4	57
49	Reliable guaranteed variance filtering against sensor failures. *IEEE Transactions on Signal Processing* , **2003**, 51, 1403-1411	4.8	43
48	Maximum bounds for robust stability of linear uncertain descriptor systems with structured perturbations. *International Journal of Systems Science*, **2003**, 34, 463-467	2.3	8
47	Nonfragile H∞ Output Feedback Controller Design for Linear Systems*. *Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME*, **2003**, 125, 117-123	1.6	21
46	Actuator fault diagnosis for a class of bilinear systems with uncertainty. *Journal of the Franklin Institute*, **2002**, 339, 361-374	4	6
45	An adaptive technique for robust diagnosis of faults with independent effects on system outputs. *International Journal of Control*, **2002**, 75, 792-802	1.5	109
44	Reliable robust flight tracking control: an LMI approach. *IEEE Transactions on Control Systems Technology*, **2002**, 10, 76-89	4.8	329
43	Reliable linear-quadratic control for singularly perturbed systems. *International Journal of Systems Science*, **2002**, 33, 949-958	2.3	3
42	Stable controller synthesis for linear time-invariant systems. *International Journal of Control*, **2002**, 75, 154-162	1.5	10
41	An Iterative LMI Method to Discrete-time Reliable State-feedback Controller Design with Mixed H2/H∞ Performance. *European Journal of Control*, **2002**, 8, 126-135	2.5	4
40	Actuator Fault Estimation Scheme for Flight Applications. *Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME*, **2002**, 124, 701-704	1.6	4
39	Decentralized control of symmetric systems. *Systems and Control Letters*, **2001**, 42, 145-149	2.4	12
38	Analysis on robust stability for interval descriptor systems. *Systems and Control Letters*, **2001**, 42, 267-278.	2.4	35
37	Reliable H∞ controller design for linear systems. *Automatica*, **2001**, 37, 717-725	5.7	341
36	Non-fragile H∞ control for linear systems with multiplicative controller gain variations. *Automatica*, **2001**, 37, 727-737	5.7	148
35	LMI-based reliable robust preview tracking control against actuator faults **2001**,		4

34	Non-fragile guaranteed cost control for discrete-time uncertain linear systems. *International Journal of Systems Science*, **2001**, 32, 845-853	2.3	25
33	Robust nonfragile Kalman filtering for uncertain linear systems with estimator gain uncertainty. *IEEE Transactions on Automatic Control*, **2001**, 46, 343-348	5.9	80
32	Guaranteed cost control for discrete-time linear systems under controller gain perturbations. *Linear Algebra and Its Applications*, **2000**, 312, 161-180	0.9	32
31	Robust sampled-data H∞ flight-controller design for high α stability-axis roll maneuver. *Control Engineering Practice*, **2000**, 8, 735-747	3.9	6
30	Resilient guaranteed cost control to tolerate actuator faults for discrete-time uncertain linear systems. *IET Control Theory and Applications*, **2000**, 147, 277-284		9
29	Reliable LQG control with sensor failures. *IET Control Theory and Applications*, **2000**, 147, 433-439		37
28	H8 control for linear systems with additive controller gain variations. *International Journal of Control*, **2000**, 73, 1500-1506	1.5	58
27	Reliable guaranteed cost control for uncertain nonlinear systems. *IEEE Transactions on Automatic Control*, **2000**, 45, 2188-2192	5.9	49
26	Robust stabilization via state feedback for descriptor systems with uncertainties in the derivative matrix. *International Journal of Control*, **2000**, 73, 407-415	1.5	49
25	Decentralized H controller design for composite systems: Linear case. *International Journal of Control*, **1999**, 72, 815-825	1.5	10
24	Technical note Robust structural stability of linear interval descriptor systems. *International Journal of Systems Science*, **1999**, 30, 1325-1329	2.3	2
23	Robust controllability and robust closed-loop stability with static output feedback for a class of uncertain descriptor systems. *Linear Algebra and Its Applications*, **1999**, 297, 133-155	0.9	8
22	Decentralized H/sub /spl infin//-controller design for nonlinear systems. *IEEE Transactions on Automatic Control*, **1999**, 44, 578-583	5.9	6
21	Neural-fuzzy scheduling of H robust controllers for a high performance fighter aircraft under a Herbst-like manoeuvre. *International Journal of Control*, **1999**, 72, 740-754	1.5	12
20	Maximum bounds for robust stability of linear uncertain descriptor systems with structured perturbations. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **1999**, 32, 1589-1594		
19	Reliable Control of Uncertain Nonlinear Systems. *Automatica*, **1998**, 34, 875-879	5.7	20
18	Necessary and sufficient conditions for the controllability of linear interval descriptor systems. *Automatica*, **1998**, 34, 363-367	5.7	14
17	Reliable H/sub /spl infin// control for affine nonlinear systems. *IEEE Transactions on Automatic Control*, **1998**, 43, 1112-1117	5.9	45

#	Reference	IF	Cit.
16	Reliable control using redundant controllers. *IEEE Transactions on Automatic Control*, **1998**, 43, 1588-1593	3.9	72
15	Reliable nonlinear control system design by using strictly redundant control elements. *International Journal of Control*, **1998**, 69, 315-328	1.5	16
14	Robustness of uncertain descriptor systems. *Systems and Control Letters*, **1997**, 31, 129-138	2.4	31
13	Reliable nonlinear control system design using duplicated control elements. *International Journal of Robust and Nonlinear Control*, **1997**, 7, 1103-1122	3.6	4
12	Extended nonlinear flight controller design for aircraft. *Automatica*, **1996**, 32, 1187-1193	5.7	11
11	A nonlinear flight controller design for aircraft. *Control Engineering Practice*, **1995**, 3, 813-825	3.9	13
10	Scheduling of local nonlinear control laws by exogenous signals—an application to flight control. *International Journal of Control*, **1995**, 61, 759-782	1.5	3
9	On the pseudo-linearization problem for nonlinear systems. *Systems and Control Letters*, **1989**, 12, 161-167	6.4	28
8	*. IEEE Transactions on Automatic Control*, **1988**, 33, 793-796	5.9	5
7	Feedback linearization families for nonlinear systems. *IEEE Transactions on Automatic Control*, **1987**, 32, 935-940	5.9	59
6	Parameterized linear systems and linearization families for nonlinear systems. *IEEE Transactions on Circuits and Systems*, **1987**, 34, 650-657		39
5	Reliable controller design for nonlinear systems		1
4	A dynamic backpropagation algorithm with application to gain-scheduled aircraft flight control system design		1
3	Iterative LMI approach for robust fault detection observer design		2
2	Reliable H/spl infin/ aircraft flight controller design against faults with state/output feedback		2
1	Reliable nonlinear control system design using redundant control elements		1