Renquan Lu

List of Publications by Year in Descending Order

128 papers	5,770 citations	42 h-index	73 g-index
138 ext. papers	7,265 ext. citations	6.1 avg, IF	6.98 L-index

#	Paper	IF	Citations
128	Anti-Synchronization of Discrete-Time Fuzzy Memristive Neural Networks via Impulse Sampled-Data Communication.. *IEEE Transactions on Cybernetics*, **2022**, PP,	10.2	2
127	Delay Effect on First-Order Consensus over Directed Graphs: Optimizing PID Protocols for Maximal Robustness. *SIAM Journal on Control and Optimization*, **2022**, 60, 233-258	1.9	0
126	Event-Triggered Output-Feedback Control for Large-Scale Systems With Unknown Hysteresis. *IEEE Transactions on Cybernetics*, **2021**, 51, 5236-5247	10.2	8
125	Robust Lidar-Based Localization Scheme for Unmanned Ground Vehicle via Multisensor Fusion. *IEEE Transactions on Neural Networks and Learning Systems*, **2021**, 32, 5633-5643	10.3	3
124	A Novel Fixed-Time Protocol for First-Order Consensus Tracking with Disturbance Rejection. *IEEE Transactions on Automatic Control*, **2021**, 1-1	5.9	2
123	Saturated Threshold Event-Triggered Control for Multiagent Systems Under Sensor Attacks and Its Application to UAVs. *IEEE Transactions on Circuits and Systems I: Regular Papers*, **2021**, 1-12	3.9	7
122	Variable-Parameter-Dependent Saturated Robust Control for Vehicle Lateral Stability. *IEEE Transactions on Control Systems Technology*, **2021**, 1-12	4.8	1
121	Distributed Reinforcement Learning Containment Control for Multiple Nonholonomic Mobile Robots. *IEEE Transactions on Circuits and Systems I: Regular Papers*, **2021**, 1-12	3.9	5
120	Partial-Nodes-Based State Estimation for Complex Networks With Constrained Bit Rate. *IEEE Transactions on Network Science and Engineering*, **2021**, 8, 1887-1899	4.9	4
119	Distributed event triggering control for six-rotor UAV systems with asymmetric time-varying output constraints. *Science China Information Sciences*, **2021**, 64, 1	3.4	13
118	. *IEEE Transactions on Circuits and Systems II: Express Briefs*, **2021**, 68, 2538-2542	3.5	3
117	Finite-Time Consensus Tracking Neural Network FTC of Multi-Agent Systems. *IEEE Transactions on Neural Networks and Learning Systems*, **2021**, 32, 653-662	10.3	73
116	Consensus of Continuous-Time Multiagent Systems via Delayed Output Feedback: Delay Versus Connectivity. *IEEE Transactions on Automatic Control*, **2021**, 66, 1329-1336	5.9	1
115	Distributed Kalman Filter for Large-Scale Power Systems With State Inequality Constraints. *IEEE Transactions on Industrial Electronics*, **2021**, 68, 6238-6247	8.9	3
114	Distributed H State Estimator Design for Time-Delay Periodic Systems Over Scheduling Sensor Networks. *IEEE Transactions on Cybernetics*, **2021**, 51, 462-472	10.2	12
113	Event-Triggered Control for Multiagent Systems With Sensor Faults and Input Saturation. *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, **2021**, 51, 3855-3866	7.3	97
112	Quasi-Synchronization for Periodic Neural Networks With Asynchronous Target and Constrained Information. *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, **2021**, 51, 4379-4388	7.3	15

111	Event-Triggered Guaranteed Cost Leader-Following Consensus Control of Second-Order Nonlinear Multiagent Systems. *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, **2021**, 1-10	7.3	9
110	Distributed Cooperative Compound Tracking Control for a Platoon of Vehicles With Adaptive NN. *IEEE Transactions on Cybernetics*, **2021**, PP,	10.2	27
109	Adaptive Attitude Control of a Quadrotor Using Fast Non-singular Terminal Sliding Mode. *IEEE Transactions on Industrial Electronics*, **2021**, 1-1	8.9	13
108	Event-triggered guaranteed cost fault-tolerant optimal tracking control for uncertain nonlinear system via adaptive dynamic programming. *International Journal of Robust and Nonlinear Control*, **2021**, 31, 2572-2592	3.6	8
107	Adaptive Multigradient Recursive Reinforcement Learning Event-Triggered Tracking Control for Multiagent Systems. *IEEE Transactions on Neural Networks and Learning Systems*, **2021**, PP,	10.3	13
106	Approximation-Based Nussbaum Gain Adaptive Control of Nonlinear Systems With Periodic Disturbances. *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, **2021**, 1-10	7.3	14
105	Output Regulation of Invertible Nonlinear Systems via Robust Dynamic Feedback-Linearization. *IEEE Transactions on Automatic Control*, **2021**, 1-1	5.9	4
104	Dynamic Event-Triggered State Estimation for Markov Jump Neural Networks With Partially Unknown Probabilities. *IEEE Transactions on Neural Networks and Learning Systems*, **2021**, PP,	10.3	4
103	Security Analysis for Dynamic State Estimation of Power Systems With Measurement Delays. *IEEE Transactions on Cybernetics*, **2021**, PP,	10.2	9
102	Distributed Finite-Time Containment Control for Nonlinear Multiagent Systems With Mismatched Disturbances. *IEEE Transactions on Cybernetics*, **2021**, PP,	10.2	8
101	Distributed H□filtering of nonlinear systems with random topology by an event-triggered protocol. *Science China Information Sciences*, **2021**, 64, 1	3.4	2
100	Delay Consensus Margin of First-Order Multiagent Systems With Undirected Graphs and PD Protocols. *IEEE Transactions on Automatic Control*, **2021**, 66, 4192-4198	5.9	6
99	Containment Control for Networked Fractional-Order Systems With Sampled Position Data. *IEEE Transactions on Circuits and Systems I: Regular Papers*, **2021**, 68, 3881-3889	3.9	2
98	Adaptive Attitude Control for Multi-MUAV Systems With Output Dead-Zone and Actuator Fault. *IEEE/CAA Journal of Automatica Sinica*, **2021**, 8, 1567-1575	7	29
97	Reset Moving Horizon Estimation for Quantized Discrete Time Systems. *IEEE Transactions on Automatic Control*, **2021**, 66, 4199-4205	5.9	13
96	. *IEEE Transactions on Industrial Informatics*, **2021**, 17, 7479-7488	11.9	30
95	Event-Triggered and Asynchronous Reduced-Order Filtering Codesign for Fuzzy Markov Jump Systems. *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, **2021**, 1-10	7.3	3
94	On the Design of Distributed Observers for Nonlinear Systems. *IEEE Transactions on Automatic Control*, **2021**, 1-1	5.9	1

93	Quasisynchronization for Neural Networks With Partial Constrained State Information via Intermittent Control Approach. *IEEE Transactions on Cybernetics*, **2021**, PP,	10.2	4
92	Prescribed Performance Consensus Fuzzy Control of Multi-Agent Systems with Nonaffine Nonlinear Faults. *IEEE Transactions on Fuzzy Systems*, **2020**, 1-1	8.3	8
91	State Estimation for Networked Systems With Markov Driven Transmission and Buffer Constraint. *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, **2020**, 1-8	7.3	9
90	Adaptive neural control for multiagent systems with asymmetric time-varying state constraints and input saturation. *International Journal of Robust and Nonlinear Control*, **2020**, 30, 4764-4778	3.6	5
89	Adaptive Neural Sliding Mode Control of Markov Jump Systems Subject to Malicious Attacks. *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, **2020**, 1-12	7.3	3
88	Nonfragile Finite-Time Synchronization for Coupled Neural Networks With Impulsive Approach. *IEEE Transactions on Neural Networks and Learning Systems*, **2020**, 31, 4980-4989	10.3	13
87	A Wide-Deep-Sequence Model-Based Quality Prediction Method in Industrial Process Analysis. *IEEE Transactions on Neural Networks and Learning Systems*, **2020**, 31, 3721-3731	10.3	18
86	Observer-based adaptive consensus control for nonlinear multi-agent systems with time-delay. *Science China Information Sciences*, **2020**, 63, 1	3.4	55
85	Adaptive Fixed-Time Control of Error-Constrained Pure-Feedback Interconnected Nonlinear Systems. *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, **2020**, 1-12	7.3	38
84	Distributed Sliding-Mode Tracking Control of Second-Order Nonlinear Multiagent Systems: An Event-Triggered Approach. *IEEE Transactions on Cybernetics*, **2020**, 50, 3892-3902	10.2	92
83	Adaptive event-triggered control for a class of nonlinear systems with periodic disturbances. *Science China Information Sciences*, **2020**, 63, 1	3.4	131
82	Human-in-the-loop consensus control for nonlinear multi-agent systems with actuator faults. *IEEE/CAA Journal of Automatica Sinica*, **2020**, 1-12	7	64
81	Observer-Based Impulsive Synchronization for Neural Networks With Uncertain Exchanging Information. *IEEE Transactions on Neural Networks and Learning Systems*, **2020**, 31, 3777-3787	10.3	15
80	Multigradient recursive reinforcement learning NN control for affine nonlinear systems with unmodeled dynamics. *International Journal of Robust and Nonlinear Control*, **2020**, 30, 1643-1663	3.6	9
79	Quasi-Synchronization of Time Delay Markovian Jump Neural Networks With Impulsive-Driven Transmission and Fading Channels. *IEEE Transactions on Cybernetics*, **2020**, 50, 4121-4131	10.2	30
78	Synchronization for Markovian coupled neural networks with partial mode observation: The finite-time case. *Journal of the Franklin Institute*, **2020**, 357, 12767-12786	4	2
77	Optimal Estimation for Discrete-Time Linear System with Communication Constraints and Measurement Quantization. *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, **2020**, 50, 1932-1942	7.3	24
76	Robust Distributed H∞ State Estimation for Stochastic Periodic Systems Over Constraint Sensor Networks. *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, **2020**, 50, 4396-4407	7.3	5

75	Event-Triggered Consensus Control for Multi-Agent Systems Against False Data-Injection Attacks. *IEEE Transactions on Cybernetics*, **2020**, 50, 1856-1866	10.2	130
74	Performance Recovery of Dynamic Feedback-Linearization Methods for Multivariable Nonlinear Systems. *IEEE Transactions on Automatic Control*, **2020**, 65, 1365-1380	5.9	25
73	Finite-Horizon H State Estimation for Periodic Neural Networks Over Fading Channels. *IEEE Transactions on Neural Networks and Learning Systems*, **2020**, 31, 1450-1460	10.3	50
72	Optimal Filtered and Smoothed Estimators for Discrete-Time Linear Systems With Multiple Packet Dropouts Under Markovian Communication Constraints. *IEEE Transactions on Cybernetics*, **2020**, 50, 4169-4181	10.2	38
71	Barrier Function-Based Adaptive Control for Uncertain Strict-Feedback Systems Within Predefined Neural Network Approximation Sets. *IEEE Transactions on Neural Networks and Learning Systems*, **2020**, 31, 2942-2954	10.3	3
70	Synchronization of Network Systems via Aperiodic Sampled-Data Control With Constant Delay and Application to Unmanned Ground Vehicles. *IEEE Transactions on Industrial Electronics*, **2020**, 67, 4980-4990	8.9	57
69	Adaptive Microtracking Control for an Underwater IPMC Actuator Using New Hyperplane-Based Sliding Mode. *IEEE/ASME Transactions on Mechatronics*, **2019**, 24, 2108-2117	5.5	9
68	Synchronization Control for Unreliable Network Systems in Intelligent Robots. *IEEE/ASME Transactions on Mechatronics*, **2019**, 24, 2641-2651	5.5	11
67	Stability analysis problems of periodic piecewise polynomial systems. *Journal of the Franklin Institute*, **2019**, 356, 9804-9823	4	7
66	Synchronization Control for Network Systems With Communication Constraints. *IEEE Transactions on Neural Networks and Learning Systems*, **2019**, 30, 3150-3160	10.3	10
65	H□control of periodic piecewise polynomial time-varying systems with polynomial Lyapunov function. *Journal of the Franklin Institute*, **2019**, 356, 6968-6988	4	11
64	Disturbance-observer-based event-triggered control for multi-agent systems with input saturation. *Scientia Sinica Informationis*, **2019**, 49, 1502-1516	2.3	33
63	**2019**,		2
62	Stability and L_2 Synthesis of a Class of Periodic Piecewise Time-Varying Systems. *IEEE Transactions on Automatic Control*, **2019**, 64, 3378-3384	5.9	31
61	Adaptive finite-time tracking control of full state constrained nonlinear systems with dead-zone. *Automatica*, **2019**, 100, 99-107	5.7	282
60	Nested adaptive super-twisting sliding mode control design for a vehicle steer-by-wire system. *Mechanical Systems and Signal Processing*, **2019**, 122, 658-672	7.8	49
59	Adaptive Neural Network Tracking Control for Robotic Manipulators With Dead Zone. *IEEE Transactions on Neural Networks and Learning Systems*, **2019**, 30, 3611-3620	10.3	181
58	Finite-Horizon l-l Synchronization for Time-Varying Markovian Jump Neural Networks Under Mixed-Type Attacks: Observer-Based Case. *IEEE Transactions on Neural Networks and Learning Systems*, **2019**, 30, 1695-1704	10.3	35

57	Reliable Control Against Sensor Failures for Markov Jump Systems With Unideal Measurements. *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, **2019**, 49, 308-316	7.3	31
56	$mathcal H_{2}$ Performance Analysis and Applications of 2-D Hidden Bernoulli Jump System. *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, **2019**, 49, 2097-2107	7.3	14
55	Remote Estimator Design for Time-Delay Neural Networks Using Communication State Information. *IEEE Transactions on Neural Networks and Learning Systems*, **2018**, 29, 5149-5158	10.3	22
54	Sampled-Data Control of Network Systems in Industrial Manufacturing. *IEEE Transactions on Industrial Electronics*, **2018**, 65, 9016-9024	8.9	56
53	Prescribed Performance Observer-Based Adaptive Fuzzy Control for Nonstrict-Feedback Stochastic Nonlinear Systems. *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, **2018**, 48, 1747-1758	7.3	159
52	On stability and convergence of optimal estimation for networked control systems with dual packet losses without acknowledgment. *Automatica*, **2018**, 90, 81-90	5.7	28
51	Event-Based Control for Network Systems via Integral Quadratic Constraints. *IEEE Transactions on Circuits and Systems I: Regular Papers*, **2018**, 65, 1386-1394	3.9	55
50	Output Synchronization and L_{2} -Gain Analysis for Network Systems. *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, **2018**, 48, 2105-2114	7.3	30
49	Observer-Based Composite Adaptive Fuzzy Control for Nonstrict-Feedback Systems With Actuator Failures. *IEEE Transactions on Fuzzy Systems*, **2018**, 26, 2336-2347	8.3	124
48	Event-triggered H∞ filter design for Markovian jump systems with quantization. *Nonlinear Analysis: Hybrid Systems*, **2018**, 28, 23-41	4.5	37
47	Implementation of the load frequency control by two approaches: variable gain super-twisting algorithm and super-twisting-like algorithm. *Nonlinear Dynamics*, **2018**, 93, 1073-1086	5	3
46	Stability and stabilization of periodic piecewise linear systems: A matrix polynomial approach. *Automatica*, **2018**, 94, 1-8	5.7	58
45	Synchronization of General Chaotic Neural Networks With Nonuniform Sampling and Packet Missing: A Switched System Approach. *IEEE Transactions on Neural Networks and Learning Systems*, **2018**, 29, 523-533	10.3	59
44	Finite-Time Distributed State Estimation Over Sensor Networks With Round-Robin Protocol and Fading Channels. *IEEE Transactions on Cybernetics*, **2018**, 48, 336-345	10.2	184
43	Dissipativity-Based Resilient Filtering of Periodic Markovian Jump Neural Networks With Quantized Measurements. *IEEE Transactions on Neural Networks and Learning Systems*, **2018**, 29, 1888-1899	10.3	53
42	Filtering for Fuzzy Systems With Multiplicative Sensor Noises and Multidensity Quantizer. *IEEE Transactions on Fuzzy Systems*, **2018**, 26, 1011-1022	8.3	30
41	Robust Estimation for Neural Networks With Randomly Occurring Distributed Delays and Markovian Jump Coupling. *IEEE Transactions on Neural Networks and Learning Systems*, **2018**, 29, 845-855	10.3	98
40	Analysis and Design of Synchronization for Heterogeneous Network. *IEEE Transactions on Cybernetics*, **2018**, 48, 1253-1262	10.2	33

39	State Estimation for Periodic Neural Networks With Uncertain Weight Matrices and Markovian Jump Channel States. *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, **2018**, 48, 1841-1850	7.3	42
38	Sliding mode control for state-delayed Markov jump systems with partly unknown transition probabilities. *Nonlinear Dynamics*, **2018**, 91, 475-486	5	19
37	State estimation for neural networks with jumping interval weight matrices and transmission delays. *Neurocomputing*, **2018**, 275, 909-915	5.4	1
36	Stability of continuous-time positive switched linear systems: A weak common copositive Lyapunov functions approach. *Automatica*, **2018**, 97, 278-285	5.7	42
35	Adaptive sliding mode controller design of Markov jump systems with time-varying actuator faults and partly unknown transition probabilities. *Nonlinear Analysis: Hybrid Systems*, **2018**, 28, 105-122	4.5	20
34	Event-Triggered Control for Consensus of Multiagent Systems With Fixed/Switching Topologies. *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, **2018**, 48, 1736-1746	7.3	232
33	Hybrid Hierarchical Backtracking Search Optimization Algorithm and Its Application. *Arabian Journal for Science and Engineering*, **2018**, 43, 993-1014	2.5	5
32	Dissipative non-fragile state estimation for Markovian complex networks with coupling transmission delays. *Neurocomputing*, **2018**, 275, 1576-1584	5.4	11
31	Filtering of T S Fuzzy Systems With Nonuniform Sampling. *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, **2018**, 48, 2442-2450	7.3	23
30	A sliding mode approach to stabilization of nonlinear Markovian jump singularly perturbed systems. *Automatica*, **2018**, 97, 404-413	5.7	124
29	Asynchronous Dissipative State Estimation for Stochastic Complex Networks With Quantized Jumping Coupling and Uncertain Measurements. *IEEE Transactions on Neural Networks and Learning Systems*, **2017**, 28, 268-277	10.3	181
28	Finite-Time State Estimation for Coupled Markovian Neural Networks With Sensor Nonlinearities. *IEEE Transactions on Neural Networks and Learning Systems*, **2017**, 28, 630-638	10.3	72
27	Dissipativity-Based Reliable Control for Fuzzy Markov Jump Systems With Actuator Faults. *IEEE Transactions on Cybernetics*, **2017**, 47, 2377-2388	10.2	111
26	. *IEEE Transactions on Automatic Control*, **2017**, 62, 4564-4579	5.9	28
25	Robust H filtering for Markov jump systems with mode-dependent quantized output and partly unknown transition probabilities. *Signal Processing*, **2017**, 137, 328-338	4.4	52
24	Adaptive Fuzzy Control for Nonstrict Feedback Systems With Unmodeled Dynamics and Fuzzy Dead Zone via Output Feedback. *IEEE Transactions on Cybernetics*, **2017**, 47, 2400-2412	10.2	109
23	Distributed filtering for a class of periodic non-linear systems with jumping uncertainties and unreliable channels. *IET Control Theory and Applications*, **2017**, 11, 846-856	2.5	4
22	Fuzzy-Model-Based Nonfragile Guaranteed Cost Control of Nonlinear Markov Jump Systems. *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, **2017**, 47, 2388-2397	7.3	119

21	Reliable Control of Fuzzy Systems With Quantization and Switched Actuator Failures. *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, **2017**, 47, 2198-2208	7.3	65
20	Adaptive output synchronization of heterogeneous network with an uncertain leader. *Automatica*, **2017**, 76, 183-192	5.7	108
19	Quantized fuzzy passification for nonlinear systems with Markov-based transmission delays. *Journal of the Franklin Institute*, **2017**, 354, 1875-1891	4	2
18	Asynchronous Filtering of Nonlinear Markov Jump Systems With Randomly Occurred Quantization via T S Fuzzy Models. *IEEE Transactions on Fuzzy Systems*, **2017**, 1-1	8.3	33
17	Robust tracking control of an IPMC actuator using nonsingular terminal sliding mode. *Smart Materials and Structures*, **2017**, 26, 095042	3.4	20
16	Dissipativity-based asynchronous filtering for periodic Markov jump systems. *Information Sciences*, **2017**, 420, 505-516	7.7	15
15	Observer-based sliding mode control of Markov jump systems with random sensor delays and partly unknown transition rates. *International Journal of Systems Science*, **2017**, 48, 2985-2996	2.3	3
14	An input-based triggering approach to leader-following problems. *Automatica*, **2017**, 75, 221-228	5.7	126
13	Passivity-Based Asynchronous Control for Markov Jump Systems. *IEEE Transactions on Automatic Control*, **2017**, 62, 2020-2025	5.9	321
12	Output Regulation of Linear Singular Multi-Agent Systems. *Circuits, Systems, and Signal Processing*, **2017**, 36, 931-946	2.2	4
11	. *IEEE Transactions on Fuzzy Systems*, **2017**, 25, 1616-1628	8.3	81
10	Adaptive sliding mode control of switched systems with different input matrix. *International Journal of Control, Automation and Systems*, **2017**, 15, 2500-2506	2.9	9
9	A New Design of Model Predictive Tracking Control for Networked Control System Under Random Packet Loss and Uncertainties. *IEEE Transactions on Industrial Electronics*, **2016**, 63, 6999-7007	8.9	80
8	Nonfragile l 2 - l state estimation for discrete-time neural networks with jumping saturations. *Neurocomputing*, **2016**, 207, 15-21	5.4	14
7	Fuzzy-Model-Based Quantized Guaranteed Cost Control of Nonlinear Networked Systems. *IEEE Transactions on Fuzzy Systems*, **2015**, 23, 567-575	8.3	74
6	Dissipativity-Based Sampled-Data Fuzzy Control Design and its Application to Truck-Trailer System. *IEEE Transactions on Fuzzy Systems*, **2015**, 23, 1669-1679	8.3	128
5	Synchronization on complex networks of networks. *IEEE Transactions on Neural Networks and Learning Systems*, **2014**, 25, 2110-8	10.3	173
4	Consensus in Multi-Agent Systems With Second-Order Dynamics and Sampled Data. *IEEE Transactions on Industrial Informatics*, **2013**, 9, 2137-2146	11.9	144

3	Networked Control With State Reset and Quantized Measurements: Observer-Based Case. *IEEE Transactions on Industrial Electronics*, **2013**, 60, 5206-5213	8.9	138
2	Event-Triggered Adaptive Neural Control for Multiagent Systems with Deferred State Constraints. *Journal of Systems Science and Complexity*,1	1	1
1	Distributed Event-Triggered Formation Control of USVs with Prescribed Performance. *Journal of Systems Science and Complexity*,1	1	16