

Bo Shen

List of Publications by Year in descending order

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105
papers

5,877
citations

101384

36
h-index

74018

75
g-index

106
all docs

106
docs citations

106
times ranked

2554
citing authors

#	ARTICLE	IF	CITATIONS
1	A novel swarm intelligence optimization approach: sparrow search algorithm. <i>Systems Science and Control Engineering</i> , 2020, 8, 22-34.	1.8	1,527
2	Quantised recursive filtering for a class of nonlinear systems with multiplicative noises and missing measurements. <i>International Journal of Control</i> , 2013, 86, 650-663.	1.2	320
3	Synchronization Control for A Class of Discrete Time-Delay Complex Dynamical Networks: A Dynamic Event-Triggered Approach. <i>IEEE Transactions on Cybernetics</i> , 2019, 49, 1979-1986.	6.2	274
4	Sampled-Data Synchronization Control of Dynamical Networks With Stochastic Sampling. <i>IEEE Transactions on Automatic Control</i> , 2012, 57, 2644-2650.	3.6	271
5	Bounded H_{∞} Synchronization and State Estimation for Discrete Time-Varying Stochastic Complex Networks Over a Finite Horizon. <i>IEEE Transactions on Neural Networks</i> , 2011, 22, 145-157.	4.8	268
6	Finite-Horizon H_{∞} Filtering With Missing Measurements and Quantization Effects. <i>IEEE Transactions on Automatic Control</i> , 2013, 58, 1707-1718.	3.6	211
7	State-Saturated Recursive Filter Design for Stochastic Time-Varying Nonlinear Complex Networks Under Deception Attacks. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2020, 31, 3788-3800.	7.2	175
8	On Nonlinear H_{∞} Filtering for Discrete-Time Stochastic Systems With Missing Measurements. <i>IEEE Transactions on Automatic Control</i> , 2008, 53, 2170-2180.	3.6	160
9	Finite-Horizon H_{∞} Control for Discrete Time-Varying Systems With Randomly Occurring Nonlinearities and Fading Measurements. <i>IEEE Transactions on Automatic Control</i> , 2015, 60, 2488-2493.	3.6	149
10	Gain-Constrained Recursive Filtering With Stochastic Nonlinearities and Probabilistic Sensor Delays. <i>IEEE Transactions on Signal Processing</i> , 2013, 61, 1230-1238.	3.2	126
11	Event-triggered distributed \hat{x} state estimation with packet dropouts through sensor networks. <i>IET Control Theory and Applications</i> , 2015, 9, 1948-1955.	1.2	124
12	Distributed State-Saturated Recursive Filtering Over Sensor Networks Under Round-Robin Protocol. <i>IEEE Transactions on Cybernetics</i> , 2020, 50, 3605-3615.	6.2	113
13	Event-Triggered H_{∞} State Estimation for Delayed Stochastic Memristive Neural Networks With Missing Measurements: The Discrete Time Case. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2018, 29, 3726-3737.	7.2	102
14	state estimation with fading measurements, randomly varying nonlinearities and probabilistic distributed delays. <i>International Journal of Robust and Nonlinear Control</i> , 2015, 25, 2180-2195.	2.1	92
15	Exponential Synchronization for Delayed Dynamical Networks via Intermittent Control: Dealing With Actuator Saturations. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2019, 30, 1000-1012.	7.2	92
16	Quantized/Saturated Control for Sampled-Data Systems Under Noisy Sampling Intervals: A Confluent Vandermonde Matrix Approach. <i>IEEE Transactions on Automatic Control</i> , 2017, 62, 4753-4759.	3.6	90
17	Security-guaranteed filtering for discrete-time stochastic delayed systems with randomly occurring sensor saturations and deception attacks. <i>International Journal of Robust and Nonlinear Control</i> , 2017, 27, 1194-1208.	2.1	89
18	Delay-Distribution-Dependent H_{∞} State Estimation for Discrete-Time Memristive Neural Networks With Mixed Time-Delays and Fading Measurements. <i>IEEE Transactions on Cybernetics</i> , 2020, 50, 440-451.	6.2	87

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19	Finite-time resilient H_∞ state estimation for discrete-time delayed neural networks under dynamic event-triggered mechanism. <i>Neural Networks</i> , 2020, 121, 356-365.	3.7	83
20	Robust recursive filtering for uncertain stochastic systems with amplify-and-forward relays. <i>International Journal of Systems Science</i> , 2020, 51, 1188-1199.	3.7	82
21	Event-triggered synchronization control for complex networks with uncertain inner coupling. <i>International Journal of General Systems</i> , 2015, 44, 212-225.	1.2	77
22	Stability analysis for discrete-time stochastic memristive neural networks with both leakage and probabilistic delays. <i>Neural Networks</i> , 2018, 102, 1-9.	3.3	70
23	Recent advances on distributed filtering for stochastic systems over sensor networks. <i>International Journal of General Systems</i> , 2014, 43, 372-386.	1.2	63
24	H_∞ filtering for uncertain time-varying systems with multiple randomly occurred nonlinearities and successive packet dropouts. <i>International Journal of Robust and Nonlinear Control</i> , 2011, 21, 1693-1709.	2.1	57
25	Recursive Filtering With Measurement Fading: A Multiple Description Coding Scheme. <i>IEEE Transactions on Automatic Control</i> , 2021, 66, 5144-5159.	3.6	57
26	Sampled-data H_∞ filtering for stochastic genetic regulatory networks. <i>International Journal of Robust and Nonlinear Control</i> , 2011, 21, 1759-1777.	2.1	56
27	Probability-dependent gain-scheduled control for discrete stochastic delayed systems with randomly occurring nonlinearities. <i>International Journal of Robust and Nonlinear Control</i> , 2013, 23, 815-826.	2.1	55
28	Outlier-Resistant Recursive Filtering for Multisensor Multirate Networked Systems Under Weighted Try-Once-Discard Protocol. <i>IEEE Transactions on Cybernetics</i> , 2021, 51, 4897-4908.	6.2	52
29	state estimation for discrete-time memristive recurrent neural networks with stochastic time-delays. <i>International Journal of General Systems</i> , 2016, 45, 633-647.	1.2	50
30	Robust distributed state estimation for sensor networks with multiple stochastic communication delays. <i>International Journal of Systems Science</i> , 2011, 42, 1459-1471.	3.7	48
31	Event-triggered H_∞ state estimation for discrete-time neural networks with mixed time delays and sensor saturations. <i>Neural Computing and Applications</i> , 2017, 28, 3815-3825.	3.2	46
32	Finite-Horizon H_∞ Fault Estimation for Uncertain Linear Discrete Time-Varying Systems With Known Inputs. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2013, 60, 902-906.	2.2	45
33	Unknown input and state estimation for linear discrete-time systems with missing measurements and correlated noises. <i>International Journal of General Systems</i> , 2016, 45, 648-661.	1.2	44
34	Probability-Dependent Gain-Scheduled Filtering for Stochastic Systems With Missing Measurements. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2011, 58, 753-757.	2.2	43
35	Receding horizon filtering for a class of discrete time-varying nonlinear systems with multiple missing measurements. <i>International Journal of General Systems</i> , 2015, 44, 198-211.	1.2	38
36	State estimation for neural networks with Markov-based nonuniform sampling: The partly unknown transition probability case. <i>Neurocomputing</i> , 2019, 357, 261-270.	3.5	38

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37	A dynamically event-triggered approach to recursive filtering with censored measurements and parameter uncertainties. <i>Journal of the Franklin Institute</i> , 2019, 356, 8870-8889.	1.9	35
38	Recursive Fault Estimation With Energy Harvesting Sensors and Uniform Quantization Effects. <i>IEEE/CAA Journal of Automatica Sinica</i> , 2022, 9, 926-929.	8.5	32
39	Robust Recursive Filtering for Stochastic Systems With Time-Correlated Fading Channels. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2022, 52, 3102-3112.	5.9	30
40	State-saturated H_∞ filtering with randomly occurring nonlinearities and packet dropouts: the finite-horizon case. <i>International Journal of Robust and Nonlinear Control</i> , 2013, 23, 1803-1821.	2.1	29
41	$\int_0^T \text{tr} \{ \mathbf{P}(t) \mathbf{Q} \} dt$ estimation for multi-rate artificial neural networks with integral measurements: A switched system approach. <i>Information Sciences</i> , 2020, 539, 434-446.	4.0	27
42	A fault detection scheme for linear discrete-time systems with an integrated online performance evaluation. <i>International Journal of Control</i> , 2014, 87, 2511-2521.	1.2	26
43	H_∞ finite-horizon filtering for complex networks with state saturations: The weighted try-once-discard protocol. <i>International Journal of Robust and Nonlinear Control</i> , 2019, 29, 2096-2111.	2.1	26
44	A survey on the applications of the Krein-space theory in signal estimation. <i>Systems Science and Control Engineering</i> , 2014, 2, 143-149.	1.8	24
45	Dynamic state estimation for islanded microgrids with multiple fading measurements. <i>Neurocomputing</i> , 2020, 406, 196-203.	3.5	22
46	Nonfragile H_∞ filtering for discrete multirate time-delayed systems over sensor networks characterized by Gilbert-Elliott models. <i>International Journal of Robust and Nonlinear Control</i> , 2020, 30, 3194-3214.	2.1	20
47	$\int_0^T \text{tr} \{ \mathbf{P}(t) \mathbf{Q} \} dt$ estimation for delayed artificial neural networks under high-rate communication. <i>Neural Networks</i> , 2020, 124, 170-179.	3.3	18
48	A beetle antennae search algorithm based on Lévy flights and adaptive strategy. <i>Systems Science and Control Engineering</i> , 2020, 8, 35-47.	1.8	17
49	H_∞ state estimation for discrete-time stochastic memristive BAM neural networks with mixed time-delays. <i>International Journal of Machine Learning and Cybernetics</i> , 2019, 10, 771-785.	2.3	16
50	Error-constrained finite-horizon tracking control with incomplete measurements and bounded noises. <i>International Journal of Robust and Nonlinear Control</i> , 2012, 22, 223-238.	2.1	15
51	H_∞ filtering for multi-rate multi-sensor systems with randomly occurring sensor saturations under the p -persistent CSMA protocol. <i>IET Control Theory and Applications</i> , 2020, 14, 1255-1265.	1.2	15
52	Synchronization and state estimation for discrete-time coupled delayed complex-valued neural networks with random system parameters. <i>Neural Networks</i> , 2022, 150, 181-193.	3.3	14
53	Recent Advances on Filtering and Control for Nonlinear Stochastic Complex Systems with Incomplete Information: A Survey. <i>Mathematical Problems in Engineering</i> , 2012, 2012, 1-16.	0.6	13
54	Distributed Recursive Filtering Over Sensor Networks With Nonlogarithmic Sensor Resolution. <i>IEEE Transactions on Automatic Control</i> , 2022, 67, 5408-5415.	3.6	13

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55	Recursive State Estimation for Networked Multirate Multisensor Systems With Distributed Time-Delays Under Round-Robin Protocol. <i>IEEE Transactions on Cybernetics</i> , 2022, 52, 4136-4146.	6.2	12
56	Partial-neurons-based state estimation for delayed neural networks with state-dependent noises under redundant channels. <i>Information Sciences</i> , 2021, 547, 931-944.	4.0	11
57	A Resilient Approach to Recursive Distributed Filtering for Multirate Systems Over Sensor Networks With Time-Correlated Fading Channels. <i>IEEE Transactions on Signal and Information Processing Over Networks</i> , 2021, 7, 636-647.	1.6	11
58	Visual object tracking: in the simultaneous presence of scale variation and occlusion. <i>Systems Science and Control Engineering</i> , 2018, 6, 456-466.	1.8	10
59	Reliable H_∞ filtering for stochastic spatial-temporal systems with sensor saturations and failures. <i>IET Control Theory and Applications</i> , 2015, 9, 2590-2597.	1.2	10
60	A new elite opposite sparrow search algorithm-based optimized LightGBM approach for fault diagnosis. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 2023, 14, 10473-10491.	3.3	10
61	Event-Triggering State and Fault Estimation for a Class of Nonlinear Systems Subject to Sensor Saturations. <i>Sensors</i> , 2021, 21, 1242.	2.1	9
62	Event-based fusion estimation for multi-rate systems subject to sensor degradations. <i>Journal of the Franklin Institute</i> , 2021, 358, 8754-8771.	1.9	9
63	State-of-charge estimation for Li-ion batteries with uncertain parameters and uncorrelated/correlated noises: a recursive approach. <i>International Journal of Systems Science</i> , 2021, 52, 1675-1691.	3.7	9
64	A resilient outlier-resistant recursive filtering approach to time-delayed spatial-temporal systems with energy harvesting sensors. <i>ISA Transactions</i> , 2022, 127, 41-49.	3.1	9
65	Event-based recursive filtering for a class of nonlinear stochastic parameter systems over fading channels. <i>International Journal of General Systems</i> , 2018, 47, 401-415.	1.2	8
66	People counting and pedestrian flow statistics based on convolutional neural network and recurrent neural network. , 2018, , .		8
67	Model Evaluation of the Stochastic Boolean Control Networks. <i>IEEE Transactions on Automatic Control</i> , 2022, 67, 4146-4153.	3.6	8
68	Event-triggered consensus control for a class of discrete-time stochastic multi-agent systems. , 2014, , .		7
69	Fuzzy-Logic-Based Control, Filtering, and Fault Detection for Networked Systems: A Survey. <i>Mathematical Problems in Engineering</i> , 2015, 2015, 1-11.	0.6	7
70	Local Stabilization for Multiple Input-Delay Systems Subject to Saturating Actuators: The Continuous-Time Case. <i>IEEE Transactions on Automatic Control</i> , 2022, 67, 3090-3097.	3.6	7
71	Distributed estimation and control for general systems. <i>International Journal of General Systems</i> , 2014, 43, 247-253.	1.2	6
72	Non-fragile H_∞ control for body slip angle of electric vehicles with onboard vision systems: The dynamic event-triggering approach. <i>Journal of the Franklin Institute</i> , 2020, 357, 2008-2027.	1.9	6

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73	Recursive filtering for mobile robot localization under an energy harvesting sensor. Asian Journal of Control, 2022, 24, 2035-2048.	1.9	6
74	On mean-square H_∞ control for discrete-time nonlinear stochastic systems with (x, u, v) -dependent noises. International Journal of Robust and Nonlinear Control, 2019, 29, 882-893.	2.1	5
75	Stubborn state estimation for nonlinear distributed parameter systems subject to measurement outliers. International Journal of Robust and Nonlinear Control, 2022, 32, 13-28.	2.1	5
76	Stubborn state estimation for complex-valued neural networks with mixed time delays: the discrete time case. Neural Computing and Applications, 2022, 34, 5449-5464.	3.2	5
77	Event-triggered stabilisation for switched delayed differential systems: the input-to-state stability. IET Control Theory and Applications, 2020, 14, 1711-1721.	1.2	4
78	Finite-Horizon Distributed H_∞ Fault Estimation for Time-Varying Systems in Sensor Networks: A Krein-Space Approach ... This work was supported in part by the Engineering and Physical Sciences Research Council (EPSRC) of the U.K., the Royal Society of the U.K., and the Alexander von Humboldt Foundation of Germany.. IFAC-PapersOnLine, 2015, 48, 48-53.	0.5	3
79	Distributed input and state estimation for linear discrete-time systems in sensor networks with missing measurements. , 2016, , .		3
80	An improved constrained multi-objective optimization evolutionary algorithm for carbon fibre drawing process. Systems Science and Control Engineering, 2019, 7, 133-145.	1.8	3
81	Parameter learning of stochastic Boolean networks. International Journal of Robust and Nonlinear Control, 2022, 32, 2472-2484.	2.1	3
82	Event-triggered H_∞ filtering for networked systems with fading channels. , 2014, , .		2
83	Synchronization for discrete-time memristive recurrent neural networks with time-delays. , 2015, , .		2
84	Discrete-time memristive recurrent neural networks with time-varying delays: Exponential stability analysis. , 2016, , .		2
85	Event-triggered extended Kalman filter for nonlinear multi-rate systems. , 2017, , .		2
86	Fusion estimation for stochastic uncertain systems with time-correlated rician fading channels. Journal of the Franklin Institute, 2022, 359, 2340-2358.	1.9	2
87	Nonlinear Analysis of Dynamical Complex Networks 2014. Abstract and Applied Analysis, 2014, 2014, 1-4.	0.3	1
88	Finite-horizon H_∞ control for discrete time-varying nonlinear systems under earliest deadline first schedule. , 2017, , .		1
89	Mean-square exponential stability for the hysteretic Hopfield neural networks with stochastic disturbances. Systems Science and Control Engineering, 2018, 6, 547-553.	1.8	1
90	An Event-Triggered Approach to Robust Recursive Filtering for Time-Delayed Systems with State Saturations. , 2018, , .		1

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91	Synchronization of Interconnected Boolean Networks With Stochastic Function Perturbations*. , 2019, , .		1
92	EFSSD: An Enhanced Fusion SSD with Feature Fusion and Visual Object Association Method. , 2020, , .		1
93	Corrigendum to "Error-constrained finite-horizon tracking control with incomplete measurements and bounded noises" [International Journal of Robust and Nonlinear Control, 2012; 22(2): 223-238]. International Journal of Robust and Nonlinear Control, 2012, 22, 239-240.	2.1	0
94	Mathematical Control of Complex Systems. Mathematical Problems in Engineering, 2013, 2013, 1-4.	0.6	0
95	Nonlinear Analysis of Dynamical Complex Networks. Abstract and Applied Analysis, 2013, 2013, 1-3.	0.3	0
96	H _∞ fault estimation for uncertain linear discrete time-varying systems with missing measurements. , 2014, , .		0
97	Envelope-constrained H _∞ filtering with missing measurements. , 2014, , .		0
98	Mathematical Control of Complex Systems 2013. Mathematical Problems in Engineering, 2014, 2014, 1-4.	0.6	0
99	Networked Systems with Incomplete Information. Abstract and Applied Analysis, 2015, 2015, 1-4.	0.3	0
100	Security-guaranteed filtering for stochastic discrete spatial-temporal systems with deception attacks. , 2016, , .		0
101	A kernel correlation filter based scale adaptive tracker: The full occlusion case. , 2017, , .		0
102	Resilient Recursive State Estimation for Discrete Time-Varying Systems with Deception Attacks*. , 2019, , .		0
103	Resilient H _∞ State Estimation for State-Saturated Systems: A Dynamic Event-Triggered Approach. , 2019, , .		0
104	Recursive filtering for a class of uncertain complex-valued stochastic systems. Systems Science and Control Engineering, 2020, 8, 650-659.	1.8	0
105	Monostability and Bistability of Probabilistic Boolean Networks. , 2020, , .		0