Shu-Li Sun

List of Publications by Year
in descending order

122 papers	4,354 citations	126907 33 h-index	114465 63 g-index
122 all docs	122 docs citations	122 times ranked	1471 citing authors

#	Article	IF	Citations
1	Multi-sensor optimal information fusion Kalman filter. Automatica, 2004, 40, 1017-1023.	5.0	733
2	Optimal linear estimation for systems with multiple packet dropouts. Automatica, 2008, 44, 1333-1342.	5.0	287
3	Multi-sensor distributed fusion estimation with applications in networked systems: A review paper. Information Fusion, 2017, 38, 122-134.	19.1	238
4	Multi-sensor optimal information fusion Kalman filters with applications. Aerospace Science and Technology, 2004, 8, 57-62.	4.8	171
5	Multi-sensor information fusion estimators for stochastic uncertain systems with correlated noises. Information Fusion, 2016, 27, 126-137.	19.1	146
6	Optimal Linear Filters for Discrete-Time Systems With Randomly Delayed and Lost Measurements With/Without Time Stamps. IEEE Transactions on Automatic Control, 2013, 58, 1551-1556.	5.7	128
7	Multi-sensor information fusion white noise filter weighted by scalars based on Kalman predictor. Automatica, 2004, 40, 1447-1453.	5.0	123
8	Optimal Linear Estimators for Systems With Random Sensor Delays, Multiple Packet Dropouts and Uncertain Observations. IEEE Transactions on Signal Processing, 2011, 59, 5181-5192.	5.3	100
9	Optimal Full-Order and Reduced-Order Estimators for Discrete-Time Systems With Multiple Packet Dropouts. IEEE Transactions on Signal Processing, 2008, 56, 4031-4038.	5.3	90
10	Optimal Filtering for Systems With Multiple Packet Dropouts. IEEE Transactions on Circuits and Systems II: Express Briefs, 2008, 55, 695-699.	3.0	86
11	Linear estimation for networked control systems with random transmission delays and packet dropouts. Information Sciences, 2014, 269, 349-365.	6.9	82
12	Distributed fusion filter for networked stochastic uncertain systems with transmission delays and packet dropouts. Signal Processing, 2017, 130, 268-278.	3.7	80
13	Centralized Fusion Estimators for Multisensor Systems With Random Sensor Delays, Multiple Packet Dropouts and Uncertain Observations. IEEE Sensors Journal, 2013, 13, 1228-1235.	4.7	78
14	Distributed optimal component fusion weighted by scalars for fixed-lag Kalman smoother. Automatica, 2005, 41, 2153-2159.	5.0	76
15	Linear minimum variance estimators for systems with bounded random measurement delays and packet dropouts. Signal Processing, 2009, 89, 1457-1466.	3.7	74
16	Modeling and estimation for networked systems with multiple random transmission delays and packet losses. Systems and Control Letters, 2014, 73, 6-16.	2.3	73
17	Multi-sensor distributed fusion filtering for networked systems with different delay and loss rates. , 2014, 34, 29-38.		68
18	Globally optimal sequential and distributed fusion state estimation for multi-sensor systems with cross-correlated noises. Automatica, 2019, 101, 128-137.	5.0	65

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19	Optimal filtering and smoothing for discrete-time stochastic singular systems. Signal Processing, 2007, 87, 189-201.	3.7	62
20	Information fusion estimators for systems with multiple sensors of different packet dropout rates. Information Fusion, 2011, 12, 213-222.	19.1	56
21	Optimal Linear Estimators for Systems With Finite-Step Correlated Noises and Packet Dropout Compensations. IEEE Transactions on Signal Processing, 2016, 64, 5672-5681.	5.3	54
22	Distributed Asynchronous Fusion Estimator for Stochastic Uncertain Systems With Multiple Sensors of Different Fading Measurement Rates. IEEE Transactions on Signal Processing, 2018, 66, 641-653.	5.3	54
23	Fusion estimation for multi-sensor networked systems with packet loss compensation. Information Fusion, 2019, 45, 138-149.	19.1	51
24	Fusion Predictors for Multisensor Stochastic Uncertain Systems With Missing Measurements and Unknown Measurement Disturbances. IEEE Sensors Journal, 2015, 15, 4346-4354.	4.7	46
25	State estimators for systems with random parameter matrices, stochastic nonlinearities, fading measurements and correlated noises. Information Sciences, 2017, 397-398, 118-136.	6.9	46
26	Distributed Fusion Estimator for Multisensor Multirate Systems With Correlated Noises. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2018, 48, 1131-1139.	9.3	46
27	Multisensor Optimal Information Fusion Input White Noise Deconvolution Estimators. IEEE Transactions on Systems, Man, and Cybernetics, 2004, 34, 1886-1893.	5.0	41
28	Distributed Optimal Linear Fusion Predictors and Filters for Systems With Random Parameter Matrices and Correlated Noises. IEEE Transactions on Signal Processing, 2020, 68, 1064-1074.	5.3	38
29	Optimal recursive estimation for networked descriptor systems with packet dropouts, multiplicative noises and correlated noises. Aerospace Science and Technology, 2017, 63, 41-53.	4.8	37
30	Distributed fusion filter for multi-sensor systems with finite-step correlated noises. Information Fusion, 2019, 46, 128-140.	19.1	37
31	Quantized filtering of linear stochastic systems. Transactions of the Institute of Measurement and Control, 2011, 33, 683-698.	1.7	36
32	Optimal Sequential Fusion Estimation With Stochastic Parameter Perturbations, Fading Measurements, and Correlated Noises. IEEE Transactions on Signal Processing, 2018, 66, 3571-3583.	5.3	36
33	Optimal Linear Estimators for Discrete-time Systems with One-step Random Delays and Multiple Packet Dropouts. Zidonghua Xuebao/Acta Automatica Sinica, 2012, 38, 349-354.	1.5	35
34	Distributed optimal linear fusion estimators. Information Fusion, 2020, 63, 56-73.	19.1	35
35	Prediction-based approach to finite-time stabilization of networked control systems with time delays and data packet dropouts. Neurocomputing, 2019, 329, 320-328.	5.9	34
36	Optimal and self-tuning information fusion Kalman multi-step predictor. IEEE Transactions on Aerospace and Electronic Systems, 2007, 43, 418-427.	4.7	33

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37	Nonlinear weighted measurement fusion Unscented Kalman Filter with asymptotic optimality. Information Sciences, 2015, 299, 85-98.	6.9	31
38	Optimal Linear Estimation for Networked Systems with One-step Random Delays and Multiple Packet Dropouts. Zidonghua Xuebao/Acta Automatica Sinica, 2012, 38, 349-356.	0.3	30
39	Distributed optimal fusion steady-state Kalman filter for systems with coloured measurement noises. International Journal of Systems Science, 2005, 36, 113-118.	5.5	29
40	Optimal linear estimators for systems with multiple random measurement delays and packet dropouts. International Journal of Systems Science, 2013, 44, 358-370.	5.5	29
41	Distributed Fusion Estimation for Multisensor Multirate Systems With Packet Dropout Compensations and Correlated Noises. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 5762-5772.	9.3	29
42	Distributed fusion cubature Kalman filters for nonlinear systems. International Journal of Robust and Nonlinear Control, 2019, 29, 5979-5991.	3.7	28
43	An overview of multirate multisensor systems: Modelling and estimation. Information Fusion, 2019, 52, 335-343.	19.1	27
44	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"><mml:msub><mml:mrow><mml:mi>H</mml:mi></mml:mrow><mml:mrow><mml:mo>âˆž</mml:mo></mml:mrow></ for networked linear systems with multiple packet dropouts and random delays. , 2015, 46, 59-67.		26
45	Distributed fusion estimator for multiâ€sensor asynchronous sampling systems with missing measurements. IET Signal Processing, 2016, 10, 724-731.	1.5	26
46	Distributed fusion estimation for multi-sensor asynchronous sampling systems with correlated noises. International Journal of Systems Science, 2017, 48, 952-960.	5.5	26
47	Selfâ€tuning fullâ€order WMF Kalman filter for multisensor descriptor systems. IET Control Theory and Applications, 2017, 11, 359-368.	2.1	25
48	WMF reducedâ€order robust estimators for multisensor descriptor systems. IET Control Theory and Applications, 2018, 12, 2232-2244.	2.1	24
49	Optimal linear estimators for multi-sensor stochastic uncertain systems with packet losses of both sides. , 2015, 37, 24-34.		22
50	State Estimation for a Class of Non-Uniform Sampling Systems with Missing Measurements. Sensors, 2016, 16, 1155.	3.8	22
51	Linear estimators for networked systems with oneâ€step random delay and multiple packet dropouts based on prediction compensation. IET Signal Processing, 2017, 11, 197-204.	1.5	22
52	A general packet dropout compensation framework for optimal prior filter of networked multi-sensor systems. Information Fusion, 2019, 45, 128-137.	19.1	22
53	Optimal recursive estimation for networked stochastic uncertain systems with fading measurements and time-correlated channel noises. Journal of Computational and Applied Mathematics, 2019, 346, 549-565.	2.0	21
54	Distributed Weighted Fusion Estimators with Random Delays and Packet Dropping. Circuits, Systems, and Signal Processing, 2007, 26, 591-605.	2.0	20

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55	Centralized Fusion Estimators for Multi-sensor Systems with Multiplicative Noises and Missing Measurements. Journal of Networks, 2012, 7, .	0.4	19
56	Optimal full-order filtering for discrete-time systems with random measurement delays and multiple packet dropouts. Journal of Control Theory and Applications, 2010, 8, 105-110.	0.8	18
57	A Solution to Estimation Fusion for Multirate Measurements with Delays. IEEE Transactions on Aerospace and Electronic Systems, 2017, 53, 3020-3031.	4.7	17
58	Advances in Multi-Sensor Information Fusion: Theory and Applications 2017. Sensors, 2018, 18, 1162.	3.8	17
59	Optimal linear recursive estimators for stochastic uncertain systems with time-correlated additive noises and packet dropout compensations. Signal Processing, 2020, 176, 107704.	3.7	17
60	Distributed Filtering for Sensor Networks with Fading Measurements and Compensations for Transmission Delays and Losses. Signal Processing, 2022, 190, 108306.	3.7	17
61	Hâˆž filtering for multiple channel systems with varying delays, consecutive packet losses and randomly occurred nonlinearities. Signal Processing, 2014, 105, 109-121.	3.7	16
62	control for networked stochastic nonâ€linear systems with randomly occurring sensor saturations, multiple delays and packet dropouts. IET Control Theory and Applications, 2017, 11, 2954-2963.	2.1	16
63	Event-triggered sequential fusion filters based on estimators of observation noises for multi-sensor systems with correlated noises. , 2021, 111, 102960.		15
64	Event-triggered optimal and suboptimal distributed Kalman consensus filters for sensor networks. Journal of the Franklin Institute, 2021, 358, 5163-5183.	3.4	15
65	Multi-sensor optimal fusion fixed-interval Kalman smoothers. Information Fusion, 2008, 9, 293-299.	19.1	14
66	Distributed fusion filter for multi-rate multi-sensor systems with packet dropouts. , 2012, , .		14
67	Estimator for Multirate Sampling Systems With Multiple Random Measurement Time Delays. IEEE Transactions on Automatic Control, 2022, 67, 1589-1596.	5.7	13
68	Distributed Kalman filtering for sensor networks with random sensor activation, delays, and packet dropouts. International Journal of Systems Science, 2022, 53, 575-592.	5.5	13
69	A Weighted Measurement Fusion Particle Filter for Nonlinear Multisensory Systems Based on Gaussâ€“Hermite Approximation. Sensors, 2017, 17, 2222.	3.8	12
70	Self-Tuning Distributed Fusion Filter for Multi-Sensor Systems Subject to Unknown Model Parameters and Missing Measurement Rates. IEEE Access, 2018, 6, 61519-61528.	4.2	12
71	Distributed Filtering for Multi-sensor Systems with Missing Data. Information Fusion, 2022, 86-87, 116-135.	19.1	12
72	Distributed Kalman Filters With Random Sensor Activation and Noisy Channels. IEEE Sensors Journal, 2021, 21, 27659-27675.	4.7	11

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73	Optimal Linear Filter for Systems With Random Delay and Packet Dropout Compensations. IEEE Access, 2020, 8, 145268-145277.	4.2	10
74	Robust Hâˆž Control for Networked Systems with Random Packet Dropouts and Time Delays. Procedia Engineering, 2012, 29, 4192-4197.	1.2	9
75	Observer-based H â€‰âˆžâ€‰ control for networked systems with bounded random delays and consecutive packet dropouts. International Journal of Robust and Nonlinear Control, 2014, 24, 2785-2802.	3.7	9
76	Fusion identification and estimation of multisensor multichannel AR signals with missing measurements and sensor biases. , 2020, 98, 102636.		9
77	Optimal Sequential Estimation for Asynchronous Sampling Discreteâ€”Time Systems. IEEE Transactions on Signal Processing, 2020, 68, 6117-6127.	5.3	9
78	Distributed Fusion Filter for Nonlinear Multi-Sensor Systems With Correlated Noises. IEEE Access, 2020, 8, 39548-39560.	4.2	9
79	H âˆž control for networked systems with random delays and packet dropouts. International Journal of Control, Automation and Systems, 2012, 10, 1023-1031.	2.7	8
80	Fault detection for networked systems with random delays and packet losses. Journal of Process Control, 2015, 35, 80-88.	3.3	8
81	Self-Tuning Distributed Fusion Filter for Multi-Sensor Networked Systems with Unknown Packet Receiving Rates, Noise Variances, and Model Parameters. Sensors, 2019, 19, 4436.	3.8	8
82	<inline-formula> <tex-math notation="LaTeX">$H_{infty } $ </tex-math> </inline-formula> Filtering for Network-Based Systems With Delayed Measurements, Packet Losses, and Randomly Varying Nonlinearities. IEEE Sensors Journal, 2016, 16, 4909-4918.	4.7	7
83	Distributed optimal component fusion deconvolution filtering. Signal Processing, 2007, 87, 202-209.	3.7	6
84	Optimal linear estimators for systems with random measurement delays. Journal of Control Theory and Applications, 2011, 9, 76-82.	0.8	6
85	Weighted Measurement Fusion White Noise Deconvolution Filter with Correlated Noise for Multisensor Stochastic Systems. Mathematical Problems in Engineering, 2012, 2012, 1-16.	1.1	6
86	Design of information fusion filter for a class of multi-sensor asynchronous sampling systems. , 2011, , .		5
87	Optimal and selfâ€tuning fusion Kalman filters for discreteâ€time stochastic singular systems. International Journal of Adaptive Control and Signal Processing, 2008, 22, 932-948.	4.1	4
88	Weighted Measurement Fusion Particle Filter for Nonlinear Systems with Correlated Noises. Sensors, 2018, 18, 3242.	3.8	4
89	Estimation for Networked Random Sampling Systems With Packet Losses. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 5511-5521.	9.3	4
90	Optimal Fusion Distributed Filter for Systems with Unknown Constant Sensor Bias. , 2006, , .		3

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91	Distributed Fusion Estimation for Multi-rate Multi-sensor Time-delayed Systems with Fading Measurements. , 2019, , .		3
92	Generalized Resonance Sensor Based on Fiber Bragg Grating. Photonics, 2021, 8, 156.	2.0	3
93	Early Weak Fault Diagnosis of Rolling Bearings Based on Fiber Bragg Grating Sensing Monitoring. Symmetry, 2021, 13, 1473.	2.2	3
94	Distributed Optimal Predictor with Multi-consensus Gains for Sensor Networks. , 2020, , .		3
95	Quantized Kalman Filter for Sensor Networks with Random Packet Dropouts. Advanced Materials Research, 2011, 219-220, 1040-1044.	0.3	2
96	Distributed fusion estimation for multi-sensor non-uniform sampling systems with correlated noises and packet dropouts. , 2017, , .		2
97	Sequential Inverse Covariance Intersection Fusion Estimation for Non-uniform Sampling Systems with Fading Measurements. , 2020, , .		2
98	Distributed fusion estimators for multi-sensor time-delay systems with correlated noise. , 2008, , .		1
99	Distributed fusion filtering for discrete-time stochastic linear systems with unknown inputs. , 2008, , .		1
100	Optimal and suboptimal prior filters with bounded multiple packet dropouts. , 2009, , .		1
101	Distributed fusion filter for discrete-time stochastic systems with uncertain observation and correlated noises. , 2010, , .		1
102	Step by step fusion SOI-KF with random packet dropping. , 2012, , .		1
103	Weighted Measurement Fusion Quantized Filtering with Bandwidth Constraints and Missing Measurements in Sensor Networks. Mathematical Problems in Engineering, 2014, 2014, 1-7.	1.1	1
104	CI fusion filter for networked systems with uncertain observations, random delays and packets losses. , 2014, , .		1
105	Fuzzy control for networked nonlinear systems subject to randomly occurred sensor saturations and multiple packet dropouts. , 2017, , .		1
106	Fuzzy H<inf>â^ž</inf> Control for Networked T-S Model-based Nonlinear Systems with Redundant Channels. , 2018, , .		1
107	Event-triggered distributed Kalman consensus filter for sensor networks. , 2020, , .		1
108	Multi-Sensor Distributed Fusion Filter for Discrete Stochastic Multi-Delayed Systems with Correlated Noise. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 480-484.	0.4	0

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109	New Approach to Optimal Filtering for ARMA Signals. , 2009, , .		0
110	Distributed optimal fusion prior filter for systems with multiple packet dropouts. , 2010, , .		0
111	Distributed fusion filter for stochastic singular systems with unknown disturbance. , 2010, , .		0
112	State Filter for Descriptor Systems with Packet Losses. Lecture Notes in Electrical Engineering, 2012, , 427-433.	0.4	0
113	Optimal Filter for Stochastic Uncertain Systems with Multiplicative Noise and Sensor Failure Rates. Lecture Notes in Electrical Engineering, 2012, , 1319-1327.	0.4	0
114	Optimal H<inf>∞</inf> fusion controller design for a class of discrete-time systems with missing measurements. , 2014, , .		0
115	Resource-Constrained Signal Processing in Sensor Networks. Mathematical Problems in Engineering, 2014, 2014, 1-2.	1.1	0
116	H<inf>âˆž</inf> filtering for T-S fuzzy systems with random multiple delays and packet dropouts subject to sensor saturations. , 2016, , .		0
117	Optimal linear filter for systems with multiple packet dropouts and time-correlated channel noise. , 2017, , .		0
118	Distributed Fusion Filter for Multi-sensor Descriptor Systems with Multiple Packet Dropouts Based on Prediction Compensation. , 2018, , .		0
119	Distributed Kalman Predictor with Different Consensus Gains over Sensor Networks. , 2021, , .		0
120	Fusion Filtering for Stochastic Systems with Correlated Noises and Deception Attacks. , 2021, , .		0
121	Measurement of Young's Modulus of Metallic Materials Based on Fiber Bragg Grating. , 2021, , .		0
122	Distributed Optimal Fusion Filter for Multi-Sensor Systems with Finite Consecutive Packet Dropouts. Lecture Notes in Electrical Engineering, 2012, , 1259-1267.	0.4	0