

Shu-Li Sun

List of Publications by Year in descending order

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Version: 2024-02-01

122
papers

4,354
citations

126858

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114418

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122
all docs

122
docs citations

122
times ranked

1471
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Multi-sensor optimal information fusion Kalman filter. <i>Automatica</i> , 2004, 40, 1017-1023. | 3.0 | 733 |
| 2 | Optimal linear estimation for systems with multiple packet dropouts. <i>Automatica</i> , 2008, 44, 1333-1342. | 3.0 | 287 |
| 3 | Multi-sensor distributed fusion estimation with applications in networked systems: A review paper. <i>Information Fusion</i> , 2017, 38, 122-134. | 11.7 | 238 |
| 4 | Multi-sensor optimal information fusion Kalman filters with applications. <i>Aerospace Science and Technology</i> , 2004, 8, 57-62. | 2.5 | 171 |
| 5 | Multi-sensor information fusion estimators for stochastic uncertain systems with correlated noises. <i>Information Fusion</i> , 2016, 27, 126-137. | 11.7 | 146 |
| 6 | Optimal Linear Filters for Discrete-Time Systems With Randomly Delayed and Lost Measurements With/Without Time Stamps. <i>IEEE Transactions on Automatic Control</i> , 2013, 58, 1551-1556. | 3.6 | 128 |
| 7 | Multi-sensor information fusion white noise filter weighted by scalars based on Kalman predictor. <i>Automatica</i> , 2004, 40, 1447-1453. | 3.0 | 123 |
| 8 | Optimal Linear Estimators for Systems With Random Sensor Delays, Multiple Packet Dropouts and Uncertain Observations. <i>IEEE Transactions on Signal Processing</i> , 2011, 59, 5181-5192. | 3.2 | 100 |
| 9 | Optimal Full-Order and Reduced-Order Estimators for Discrete-Time Systems With Multiple Packet Dropouts. <i>IEEE Transactions on Signal Processing</i> , 2008, 56, 4031-4038. | 3.2 | 90 |
| 10 | Optimal Filtering for Systems With Multiple Packet Dropouts. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2008, 55, 695-699. | 2.2 | 86 |
| 11 | Linear estimation for networked control systems with random transmission delays and packet dropouts. <i>Information Sciences</i> , 2014, 269, 349-365. | 4.0 | 82 |
| 12 | Distributed fusion filter for networked stochastic uncertain systems with transmission delays and packet dropouts. <i>Signal Processing</i> , 2017, 130, 268-278. | 2.1 | 80 |
| 13 | Centralized Fusion Estimators for Multisensor Systems With Random Sensor Delays, Multiple Packet Dropouts and Uncertain Observations. <i>IEEE Sensors Journal</i> , 2013, 13, 1228-1235. | 2.4 | 78 |
| 14 | Distributed optimal component fusion weighted by scalars for fixed-lag Kalman smoother. <i>Automatica</i> , 2005, 41, 2153-2159. | 3.0 | 76 |
| 15 | Linear minimum variance estimators for systems with bounded random measurement delays and packet dropouts. <i>Signal Processing</i> , 2009, 89, 1457-1466. | 2.1 | 74 |
| 16 | Modeling and estimation for networked systems with multiple random transmission delays and packet losses. <i>Systems and Control Letters</i> , 2014, 73, 6-16. | 1.3 | 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. <i>Automatica</i> , 2019, 101, 128-137. | 3.0 | 65 |

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|----|--|------|-----------|
| 19 | Optimal filtering and smoothing for discrete-time stochastic singular systems. <i>Signal Processing</i> , 2007, 87, 189-201. | 2.1 | 62 |
| 20 | Information fusion estimators for systems with multiple sensors of different packet dropout rates. <i>Information Fusion</i> , 2011, 12, 213-222. | 11.7 | 56 |
| 21 | Optimal Linear Estimators for Systems With Finite-Step Correlated Noises and Packet Dropout Compensations. <i>IEEE Transactions on Signal Processing</i> , 2016, 64, 5672-5681. | 3.2 | 54 |
| 22 | Distributed Asynchronous Fusion Estimator for Stochastic Uncertain Systems With Multiple Sensors of Different Fading Measurement Rates. <i>IEEE Transactions on Signal Processing</i> , 2018, 66, 641-653. | 3.2 | 54 |
| 23 | Fusion estimation for multi-sensor networked systems with packet loss compensation. <i>Information Fusion</i> , 2019, 45, 138-149. | 11.7 | 51 |
| 24 | Fusion Predictors for Multisensor Stochastic Uncertain Systems With Missing Measurements and Unknown Measurement Disturbances. <i>IEEE Sensors Journal</i> , 2015, 15, 4346-4354. | 2.4 | 46 |
| 25 | State estimators for systems with random parameter matrices, stochastic nonlinearities, fading measurements and correlated noises. <i>Information Sciences</i> , 2017, 397-398, 118-136. | 4.0 | 46 |
| 26 | Distributed Fusion Estimator for Multisensor Multirate Systems With Correlated Noises. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2018, 48, 1131-1139. | 5.9 | 46 |
| 27 | Multisensor Optimal Information Fusion Input White Noise Deconvolution Estimators. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , 2004, 34, 1886-1893. | 5.5 | 41 |
| 28 | Distributed Optimal Linear Fusion Predictors and Filters for Systems With Random Parameter Matrices and Correlated Noises. <i>IEEE Transactions on Signal Processing</i> , 2020, 68, 1064-1074. | 3.2 | 38 |
| 29 | Optimal recursive estimation for networked descriptor systems with packet dropouts, multiplicative noises and correlated noises. <i>Aerospace Science and Technology</i> , 2017, 63, 41-53. | 2.5 | 37 |
| 30 | Distributed fusion filter for multi-sensor systems with finite-step correlated noises. <i>Information Fusion</i> , 2019, 46, 128-140. | 11.7 | 37 |
| 31 | Quantized filtering of linear stochastic systems. <i>Transactions of the Institute of Measurement and Control</i> , 2011, 33, 683-698. | 1.1 | 36 |
| 32 | Optimal Sequential Fusion Estimation With Stochastic Parameter Perturbations, Fading Measurements, and Correlated Noises. <i>IEEE Transactions on Signal Processing</i> , 2018, 66, 3571-3583. | 3.2 | 36 |
| 33 | Optimal Linear Estimators for Discrete-time Systems with One-step Random Delays and Multiple Packet Dropouts. <i>Zidonghua Xuebao/Acta Automatica Sinica</i> , 2012, 38, 349-354. | 1.5 | 35 |
| 34 | Distributed optimal linear fusion estimators. <i>Information Fusion</i> , 2020, 63, 56-73. | 11.7 | 35 |
| 35 | Prediction-based approach to finite-time stabilization of networked control systems with time delays and data packet dropouts. <i>Neurocomputing</i> , 2019, 329, 320-328. | 3.5 | 34 |
| 36 | Optimal and self-tuning information fusion Kalman multi-step predictor. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , 2007, 43, 418-427. | 2.6 | 33 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 55 | Centralized Fusion Estimators for Multi-sensor Systems with Multiplicative Noises and Missing Measurements. <i>Journal of Networks</i> , 2012, 7, . | 0.4 | 19 |
| 56 | Optimal full-order filtering for discrete-time systems with random measurement delays and multiple packet dropouts. <i>Journal of Control Theory and Applications</i> , 2010, 8, 105-110. | 0.8 | 18 |
| 57 | A Solution to Estimation Fusion for Multirate Measurements with Delays. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , 2017, 53, 3020-3031. | 2.6 | 17 |
| 58 | Advances in Multi-Sensor Information Fusion: Theory and Applications 2017. <i>Sensors</i> , 2018, 18, 1162. | 2.1 | 17 |
| 59 | Optimal linear recursive estimators for stochastic uncertain systems with time-correlated additive noises and packet dropout compensations. <i>Signal Processing</i> , 2020, 176, 107704. | 2.1 | 17 |
| 60 | Distributed Filtering for Sensor Networks with Fading Measurements and Compensations for Transmission Delays and Losses. <i>Signal Processing</i> , 2022, 190, 108306. | 2.1 | 17 |
| 61 | H $\hat{\alpha}$ filtering for multiple channel systems with varying delays, consecutive packet losses and randomly occurred nonlinearities. <i>Signal Processing</i> , 2014, 105, 109-121. | 2.1 | 16 |
| 62 | control for networked stochastic non-linear systems with randomly occurring sensor saturations, multiple delays and packet dropouts. <i>IET Control Theory and Applications</i> , 2017, 11, 2954-2963. | 1.2 | 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. <i>Journal of the Franklin Institute</i> , 2021, 358, 5163-5183. | 1.9 | 15 |
| 65 | Multi-sensor optimal fusion fixed-interval Kalman smoothers. <i>Information Fusion</i> , 2008, 9, 293-299. | 11.7 | 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. <i>IEEE Transactions on Automatic Control</i> , 2022, 67, 1589-1596. | 3.6 | 13 |
| 68 | Distributed Kalman filtering for sensor networks with random sensor activation, delays, and packet dropouts. <i>International Journal of Systems Science</i> , 2022, 53, 575-592. | 3.7 | 13 |
| 69 | A Weighted Measurement Fusion Particle Filter for Nonlinear Multisensory Systems Based on Gauss-Hermite Approximation. <i>Sensors</i> , 2017, 17, 2222. | 2.1 | 12 |
| 70 | Self-Tuning Distributed Fusion Filter for Multi-Sensor Systems Subject to Unknown Model Parameters and Missing Measurement Rates. <i>IEEE Access</i> , 2018, 6, 61519-61528. | 2.6 | 12 |
| 71 | Distributed Filtering for Multi-sensor Systems with Missing Data. <i>Information Fusion</i> , 2022, 86-87, 116-135. | 11.7 | 12 |
| 72 | Distributed Kalman Filters With Random Sensor Activation and Noisy Channels. <i>IEEE Sensors Journal</i> , 2021, 21, 27659-27675. | 2.4 | 11 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 73 | Optimal Linear Filter for Systems With Random Delay and Packet Dropout Compensations. IEEE Access, 2020, 8, 145268-145277. | 2.6 | 10 |
| 74 | Robust H ∞ Control for Networked Systems with Random Packet Dropouts and Time Delays. Procedia Engineering, 2012, 29, 4192-4197. | 1.2 | 9 |
| 75 | Observer-based H ∞ control for networked systems with bounded random delays and consecutive packet dropouts. International Journal of Robust and Nonlinear Control, 2014, 24, 2785-2802. | 2.1 | 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 Discrete-Time Systems. IEEE Transactions on Signal Processing, 2020, 68, 6117-6127. | 3.2 | 9 |
| 78 | Distributed Fusion Filter for Nonlinear Multi-Sensor Systems With Correlated Noises. IEEE Access, 2020, 8, 39548-39560. | 2.6 | 9 |
| 79 | H ∞ control for networked systems with random delays and packet dropouts. International Journal of Control, Automation and Systems, 2012, 10, 1023-1031. | 1.6 | 8 |
| 80 | Fault detection for networked systems with random delays and packet losses. Journal of Process Control, 2015, 35, 80-88. | 1.7 | 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. | 2.1 | 8 |
| 82 | H_{∞} Filtering for Network-Based Systems With Delayed Measurements, Packet Losses, and Randomly Varying Nonlinearities. IEEE Sensors Journal, 2016, 16, 4909-4918. | 2.4 | 7 |
| 83 | Distributed optimal component fusion deconvolution filtering. Signal Processing, 2007, 87, 202-209. | 2.1 | 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. | 0.6 | 6 |
| 86 | Design of information fusion filter for a class of multi-sensor asynchronous sampling systems. , 2011, , . | | 5 |
| 87 | Optimal and self-tuning fusion Kalman filters for discrete-time stochastic singular systems. International Journal of Adaptive Control and Signal Processing, 2008, 22, 932-948. | 2.3 | 4 |
| 88 | Weighted Measurement Fusion Particle Filter for Nonlinear Systems with Correlated Noises. Sensors, 2018, 18, 3242. | 2.1 | 4 |
| 89 | Estimation for Networked Random Sampling Systems With Packet Losses. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 5511-5521. | 5.9 | 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. | 0.9 | 3 |
| 93 | Early Weak Fault Diagnosis of Rolling Bearings Based on Fiber Bragg Grating Sensing Monitoring. Symmetry, 2021, 13, 1473. | 1.1 | 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. | 0.6 | 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 _∞ 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. | 0.3 | 0 |
| 113 | Optimal Filter for Stochastic Uncertain Systems with Multiplicative Noise and Sensor Failure Rates. Lecture Notes in Electrical Engineering, 2012, , 1319-1327. | 0.3 | 0 |
| 114 | Optimal H _∞ 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. | 0.6 | 0 |
| 116 | H _∞ 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. | 0.3 | 0 |