Xiaojing Shen

List of Publications by Year
in descending order

48 papers	573 citations	759233 12 h-index	677142 22 g-index
48 all docs	48 docs citations	48 times ranked	535 citing authors

#	Article	IF	Citations
1	Dual Set Membership Filter With Minimizing Nonlinear Transformation of Ellipsoid. IEEE Transactions on Automatic Control, 2022, 67, 2405-2418.	5.7	10
2	An Unbiased Symmetric Matrix Estimator for Topology Inference Under Partial Observability. IEEE Signal Processing Letters, 2022, 29, 1257-1261.	3.6	2
3	The effect of population size for pathogen transmission on prediction of COVID-19 spread. Scientific Reports, 2021, 11, 18024.	3.3	9
4	Multiple-source ellipsoidal localization using acoustic energy measurements. Automatica, 2020, 112, 108737.	5.0	4
5	Analytic Sensor Rules for Optimal Distributed Decision Given K-Out-of-L Fusion Rule Under Monte Carlo Approximation. IEEE Transactions on Automatic Control, 2020, 65, 5488-5495.	5.7	7
6	Set-Membership Filtering for Nonlinear Dynamic Systems With Quadratic Inequality Constraints. IEEE Access, 2020, 8, 13375-13386.	4.2	3
7	Optimal Prediction and Update for Box Set-Membership Filter. IEEE Access, 2019, 7, 41636-41646.	4.2	2
8	Ellipsoidal Fusion Estimation for Multisensor Dynamic Systems With Bounded Noises. IEEE Transactions on Automatic Control, 2019, 64, 4725-4732.	5.7	24
9	On equivalence of major relaxation methods for minimum ellipsoid covering intersection of ellipsoids. Automatica, 2019, 103, 337-345.	5.0	12
10	Set-Membership Filtering with Quadratic Inequality Constraints. , 2019, , .		0
11	A Set-Membership Filter with Box Bounding for Nonlinear Biased Dynamic Systems. , 2019, , .		0
12	Multisensor Estimation Fusion with Gaussian Process for Nonlinear Dynamic Systems. Entropy, 2019, 21, 1126.	2.2	3
13	Posterior Cramér-Rao Bounds for Nonlinear Dynamic System with Colored Noises. Journal of Systems Science and Complexity, 2019, 32, 1526-1543.	2.8	4
14	A Tighter Set-Membership Filter for Some Nonlinear Dynamic Systems. IEEE Access, 2018, 6, 25351-25362.	4.2	13
15	Gaussian Process Fusion for Multisensor Nonlinear Dynamic Systems. , 2018, , .		0
16	The Cramér–Rao Bounds and Sensor Selection for Nonlinear Systems with Uncertain Observations. Sensors, 2018, 18, 1103.	3.8	8
17	Set-membership multiple-source localization using acoustic energy measurements. , 2017, , .		1
18	Set-membership information fusion for multisensor nonlinear dynamic systems. , 2017, , .		3

#	Article	IF	Citations
19	The estimation fusion and Cramer-Rao bounds for nonlinear systems with uncertain observations. , 2017, , .		0
20	Random MHT data association algorithm based on random coefficient Kalman filter. , 2017, , .		1
21	Distributed detection fusion with nonideal channels under Monte Carlo framework. , 2017, , .		2
22	General heterogeneous sensor estimation fusion-system fusion method. , 2017, , .		1
23	Distributed detection fusion via Monte Carlo importance sampling. , 2016, , .		4
24	Posterior Cram&#x00E9;r-Rao bounds for discrete-time nonlinear filtering with finitely correlated noises. , 2015, , .		3
25	Sensor selection for nonlinear systems in large sensor networks. IEEE Transactions on Aerospace and Electronic Systems, 2014, 50, 2664-2678.	4.7	32
26	Sensor Selection Based on Generalized Information Gain for Target Tracking in Large Sensor Networks. IEEE Transactions on Signal Processing, 2014, 62, 363-375.	5.3	120
27	A coalitional game for distributed estimation in wireless sensor networks. , 2013, , .		8
28	Distributed Kalman filtering fusion with packet loss or intermittent communications from local estimators to fusion center. Journal of Systems Science and Complexity, 2012, 25, 463-485.	2.8	6
29	Novel Data Association Algorithm Based on Integrated Random Coefficient Matrices Kalman Filtering. IEEE Transactions on Aerospace and Electronic Systems, 2012, 48, 144-158.	4.7	27
30	Globally optimal distributed Kalman filtering fusion. Science China Information Sciences, 2012, 55, 512-529.	4.3	28
31	Integrated optimization methods in multisensor decision and estimation fusion. Science China Information Sciences, 2012, 55, 545-550.	4.3	4
32	A Near-Optimal Iterative Algorithm via Alternately Optimizing Sensor and Fusion Rules in Distributed Decision Systems. IEEE Transactions on Aerospace and Electronic Systems, 2011, 47, 2514-2529.	4.7	12
33	Minimizing Euclidian State Estimation Error for Linear Uncertain Dynamic Systems Based on Multisensor and Multi-Algorithm Fusion. IEEE Transactions on Information Theory, 2011, 57, 7131-7146.	2.4	32
34	An efficient sensor quantization algorithm for decentralized estimation fusion. Automatica, 2011, 47, 1053-1059.	5.0	15
35	A sensor quantization algorithm for best linear estimation fusion in bandwidth-constrained systems. , 2010, , .		1
36	Globally optimal flight path update with adding or removing out-of-sequence measurements. Automatica, 2010, 46, 1437-1442.	5.0	6

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37	Archimedean copula estimation and model selection via -norm symmetric distribution. Insurance: Mathematics and Economics, 2010, 46, 406-414.	1.2	2
38	Optimal flight path update with adding or removing out-of-sequence measurements. , 2010, , .		0
39	Performance Analysis of Communication Direction for Two-Sensor Tandem Binary Decision System. IEEE Transactions on Information Theory, 2009, 55, 4777-4785.	2.4	8
40	Optimal sensor rules and unified fusion rules for multisensor multi-hypothesis network decision systems with channel errors. Automatica, 2009, 45, 1694-1702.	5.0	8
41	Optimal Centralized Update With Multiple Local Out-of-Sequence Measurements. IEEE Transactions on Signal Processing, 2009, 57, 1551-1562.	5.3	44
42	Globally Optimal Distributed Kalman Fusion With Local Out-of-Sequence-Measurement Updates. IEEE Transactions on Automatic Control, 2009, 54, 1928-1934.	5.7	28
43	Linear B-spline copulas with applications to nonparametric estimation of copulas. Computational Statistics and Data Analysis, 2008, 52, 3806-3819.	1.2	29
44	Distributed Multisensor Estimation Fusion with Out-of-Sequence Measurements. , 2008, , .		2
45	Block Matching Algorithm Based on Particle Swarm Optimization for Motion Estimation. , 2008, , .		39
46	Optimal Distributed Fusion Update with Same Lag Time Out-of-Sequence Measurements. , 2008, , .		0
47	Optimal centralized update with multiple local out-of-sequence measurements. , 2008, , .		3
48	Monte Carlo Set-Membership Filtering for Nonlinear Dynamic Systems. , 0, , .		3