Ruixin Niu

List of Publications by Year
in descending order

47 papers	2,028 citations	448610 19 h-index	759306 22 g-index
47 all docs	47 docs citations	47 times ranked	1435 citing authors

#	Article	IF	Citations
1	EKFNet: Learning System Noise Statistics from Measurement Data. , 2021, , .		15
2	Adaptive Sensor Selection for Nonlinear Tracking via Sparsity-Promoting Approaches. IEEE Transactions on Aerospace and Electronic Systems, 2018, 54, 1966-1982.	2.6	22
3	A joint manifold leaning-based framework for heterogeneous upstream data fusion. Journal of Algorithms and Computational Technology, 2018, 12, 311-332.	0.4	32
4	Source Location with Quantized Sensor Data Corrupted by False Information. , 2018, , .		1
5	Received-Signal-Strength-Based Localization in Wireless Sensor Networks. Proceedings of the IEEE, 2018, 106, 1166-1182.	16.4	75
6	Sparsity-promoting sensor selection for nonlinear target tracking with quantized data. , 2017, , .		2
7	A Multifunctional Sensor in Ternary Solution Using Canonical Correlations for Variable Links Assessment. Sensors, 2016, 16, 1661.	2.1	3
8	Multi-processor approximate message passing using lossy compression. , 2016, , .		7
9	Sparse attacking strategies in multi-sensor dynamic systems maximizing state estimation errors. , 2016, , .		13
10	Modified distributed iterative hard thresholding. , 2015, , .		6
11	False information detection with minimum mean squared errors for Bayesian estimation. , 2015, , .		8
12	Distributed approximate message passing for sparse signal recovery. , 2014, , .		13
13	Malicious attacks on state estimation in multi-sensor dynamic systems. , 2014, , .		7
14	Sequential Bayesian Estimation With Censored Data for Multi-Sensor Systems. IEEE Transactions on Signal Processing, 2014, 62, 2626-2641.	3.2	40
15	Channel-Aware Tracking in Multi-Hop Wireless Sensor Networks with Quantized Measurements. IEEE Transactions on Aerospace and Electronic Systems, 2013, 49, 2353-2368.	2.6	12
16	New Conditional Posterior Cramér-Rao Lower Bounds for Nonlinear Sequential Bayesian Estimation. IEEE Transactions on Signal Processing, 2012, 60, 5549-5556.	3.2	39
17	Dynamic Bit Allocation for Object Tracking in Wireless Sensor Networks. IEEE Transactions on Signal Processing, 2012, 60, 5048-5063.	3.2	65
18	System state estimation in the presence of false information injection. , 2012, , .		15

#	Article	IF	Citations
19	Fusing Dependent Decisions for Hypothesis Testing With Heterogeneous Sensors. IEEE Transactions on Signal Processing, 2012, 60, 4888-4897.	3.2	39
20	Sequential Bayesian estimation with censored data. , 2012, , .		8
21	Target Localization and Tracking in Noncoherent Multiple-Input Multiple-Output Radar Systems. IEEE Transactions on Aerospace and Electronic Systems, 2012, 48, 1466-1489.	2.6	209
22	Conditional Posterior Cramér–Rao Lower Bounds for Nonlinear Sequential Bayesian Estimation. IEEE Transactions on Signal Processing, 2011, 59, 1-14.	3.2	109
23	Modified Bayesian Cramér-rao lower bound for nonlinear tracking. , 2011, , .		3
24	Dynamic bit allocation for target tracking in sensor networks with quantized measurements. , 2010, , .		2
25	Energy Aware Iterative Source Localization for Wireless Sensor Networks. IEEE Transactions on Signal Processing, 2010, 58, 4824-4835.	3.2	95
26	A probabilistic transmission scheme for distributed estimation in wireless sensor networks. , 2010, , .		3
27	Sampling Schemes for Sequential Detection With Dependent Observations. IEEE Transactions on Signal Processing, 2010, 58, 1469-1481.	3.2	9
28	Distributed estimation using binary data transmitted over fading channels. , 2009, , .		1
29	An energy efficient iterative method for source localization in wireless sensor networks. , 2009, , .		4
30	Channel Aware Target Localization With Quantized Data in Wireless Sensor Networks. IEEE Transactions on Signal Processing, 2009, 57, 1190-1202.	3.2	95
31	Tracking in Wireless Sensor Networks Using Particle Filtering: Physical Layer Considerations. IEEE Transactions on Signal Processing, 2009, 57, 1987-1999.	3.2	64
32	A Monte Carlo based energy efficient source localization method for wireless sensor networks. , 2009, , .		5
33	Performance Analysis of Distributed Detection in a Random Sensor Field. IEEE Transactions on Signal Processing, 2008, 56, 339-349.	3.2	136
34	Sensor placement algorithms for target localization in sensor networks. , 2008, , .		6
35	Adaptive local quantizer design for tracking in a wireless sensor network. , 2008, , .		10
36	A sensor selection approach for target tracking in sensor networks with quantized measurements. Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing, 2008, , .	1.8	35

#	Article	IF	Citations
37	Sensor placement for ballistic missile localization using evolutionary algorithms. , 2007, , .		0
38	Posterior Crlb Based Sensor Selection for Target Tracking in Sensor Networks. , 2007, , .		52
39	Channel Aware Particle Filtering for Tracking in Sensor Networks. , 2006, , .		9
40	A Subspace Method for Fourier Based Image Registration. , 2006, , .		2
41	Joint Detection and Localization in Sensor Networks Based on Local Decisions. , 2006, , .		32
42	Fusion of decisions transmitted over Rayleigh fading channels in wireless sensor networks. IEEE Transactions on Signal Processing, 2006, 54, 1018-1027.	3.2	265
43	Target Location Estimation in Sensor Networks With Quantized Data. IEEE Transactions on Signal Processing, 2006, 54, 4519-4528.	3.2	215
44	Distributed detection in a large wireless sensor network. Information Fusion, 2006, 7, 380-394.	11.7	112
45	Tracking considerations in selection of radar waveform for range and range-rate measurements. IEEE Transactions on Aerospace and Electronic Systems, 2002, 38, 467-487.	2.6	79
46	Matrix CRLB scaling due to measurements of uncertain origin. IEEE Transactions on Signal Processing, 2001, 49, 1325-1335.	3.2	51
47	Temporal fusion in multi-sensor target tracking systems. , 0, , .		3