Tian-cheng Li

List of Publications by Year
in descending order

73 papers	2,087 citations	279798 23 h-index	243625 44 g-index
82 all docs	82 docs citations	82 times ranked	1399 citing authors

#	ARTICLE	IF	CITATIONS
1	Resampling Methods for Particle Filtering: Classification, implementation, and strategies. IEEE Signal Processing Magazine, 2015, 32, 70-86.	5.6	435
2	Fight sample degeneracy and impoverishment in particle filters: A review of intelligent approaches. Expert Systems With Applications, 2014, 41, 3944-3954.	7.6	179
3	Deterministic resampling: Unbiased sampling to avoid sample impoverishment in particle filters. Signal Processing, 2012, 92, 1637-1645.	3.7	111
4	A Survey of Recent Advances in Particle Filters and Remaining Challenges for Multitarget Tracking. Sensors, 2017, 17, 2707.	3.8	110
5	Algorithm design for parallel implementation of the SMC-PHD filter. Signal Processing, 2016, 119, 115-127.	3.7	94
6	Second-order statistics analysis and comparison between arithmetic and geometric average fusion: Application to multi-sensor target tracking. Information Fusion, 2019, 51, 233-243.	19.1	80
7	Joint Smoothing and Tracking Based on Continuous-Time Target Trajectory Function Fitting. IEEE Transactions on Automation Science and Engineering, 2019, 16, 1476-1483.	5.2	61
8	Partial Consensus and Conservative Fusion of Gaussian Mixtures for Distributed PHD Fusion. IEEE Transactions on Aerospace and Electronic Systems, 2019, 55, 2150-2163.	4.7	59
9	Approximate Gaussian conjugacy: parametric recursive filtering under nonlinearity, multimodality, uncertainty, and constraint, and beyond. Frontiers of Information Technology and Electronic Engineering, 2017, 18, 1913-1939.	2.6	58
10	Adapting sample size in particle filters through KLD€resampling. Electronics Letters, 2013, 49, 740-742.	1.0	52
11	Resampling methods for particle filtering: identical distribution, a new method, and comparable study. Frontiers of Information Technology and Electronic Engineering, 2015, 16, 969-984.	2.6	51
12	Effectiveness of Bayesian filters: An information fusion perspective. Information Sciences, 2016, 329, 670-689.	6.9	48
13	On Arithmetic Average Fusion and Its Application for Distributed Multi-Bernoulli Multitarget Tracking. IEEE Transactions on Signal Processing, 2020, , 1-1.	5.3	46
14	Local-Diffusion-Based Distributed SMC-PHD Filtering Using Sensors With Limited Sensing Range. IEEE Sensors Journal, 2019, 19, 1580-1589.	4.7	42
15	Recent advances in multisensor multitarget tracking using random finite set. Frontiers of Information Technology and Electronic Engineering, 2021, 22, 5-24.	2.6	42
16	Distributed Bernoulli Filtering for Target Detection and Tracking Based on Arithmetic Average Fusion. IEEE Signal Processing Letters, 2019, 26, 1812-1816.	3.6	39
17	Cardinality-Consensus-Based PHD Filtering for Distributed Multitarget Tracking. IEEE Signal Processing Letters, 2019, 26, 49-53.	3.6	36
18	Clustering for filtering: Multi-object detection and estimation using multiple/massive sensors. Information Sciences, 2017, 388-389, 172-190.	6.9	33

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19	Multi-source homogeneous data clustering for multi-target detection from cluttered background with misdetection. Applied Soft Computing Journal, 2017, 60, 436-446.	7.2	33
20	A distributed particle-PHD filter using arithmetic-average fusion of Gaussian mixture parameters. Information Fusion, 2021, 73, 111-124.	19.1	32
21	Convergence of Distributed Flooding and Its Application for Distributed Bayesian Filtering. IEEE Transactions on Signal and Information Processing Over Networks, 2017, 3, 580-591.	2.8	28
22	High-speed Sigma-gating SMC-PHD filter. Signal Processing, 2013, 93, 2586-2593.	3.7	26
23	On generalized covariance intersection for distributed PHD filtering and a simple but better alternative. , 2017, , .		24
24	A Robust Multi-Sensor PHD Filter Based on Multi-Sensor Measurement Clustering. IEEE Communications Letters, 2018, 22, 2064-2067.	4.1	24
25	Gaussian Mixture Particle Jump-Markov-CPHD Fusion for Multitarget Tracking Using Sensors With Limited Views. IEEE Transactions on Signal and Information Processing Over Networks, 2020, 6, 605-616.	2.8	22
26	Kullback-Leibler Averaging for Multitarget Density Fusion. Advances in Intelligent Systems and Computing, 2020, , 253-261.	0.6	22
27	Single-Road-Constrained Positioning Based on Deterministic Trajectory Geometry. IEEE Communications Letters, 2019, 23, 80-83.	4.1	21
28	Monte Carlo localization for mobile robot using adaptive particle merging and splitting technique. , 2010, , .		20
29	A Computationally Efficient Approach for Distributed Sensor Localization and Multitarget Tracking. IEEE Communications Letters, 2020, 24, 335-338.	4.1	19
30	Multi-EAP: Extended EAP for multi-estimate extraction for SMC-PHD filter. Chinese Journal of Aeronautics, 2017, 30, 368-379.	5.3	17
31	A Parallel Filtering-Communication-Based Cardinality Consensus Approach for Real-Time Distributed PHD Filtering. IEEE Sensors Journal, 2020, 20, 13824-13832.	4.7	15
32	Robust CPHD Fusion for Distributed Multitarget Tracking Using Asynchronous Sensors. IEEE Sensors Journal, 2022, 22, 1030-1040.	4.7	13
33	A New Belief-Based Bidirectional Transfer Classification Method. IEEE Transactions on Cybernetics, 2022, 52, 8101-8113.	9.5	12
34	Target Tracking With Equality/Inequality Constraints Based on Trajectory Function of Time. IEEE Signal Processing Letters, 2021, 28, 1330-1334.	3.6	11
35	Adaptive M-Estimation for Robust Cubature Kalman Filtering. , 2016, , .		10
36	A Dual PHD Filter for Effective Occupancy Filtering in a Highly Dynamic Environment. IEEE Transactions on Intelligent Transportation Systems, 2018, 19, 2977-2993.	8.0	10

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37	Double-resampling Based Monte Carlo Localization for Mobile Robot. Zidonghua Xuebao/Acta Automatica Sinica, 2010, 36, 1279-1286.	0.3	10
38	Fault Tolerant Multi-Robot Cooperative Localization Based on Covariance Union. IEEE Robotics and Automation Letters, 2021, 6, 7799-7806.	5.1	9
39	Fitting for smoothing: A methodology for continuous-time target track estimation. , 2016, , .		8
40	Distributed Flooding-then-Clustering: A Lazy Networking Approach for Distributed Multiple Target Tracking. , 2018, , .		8
41	A Meta-Model-Based Multi-Objective Evolutionary Approach to Robust Job Shop Scheduling. Mathematics, 2019, 7, 529.	2.2	8
42	Numerical fittingâ€ based likelihood calculation to speed up the particle filter. International Journal of Adaptive Control and Signal Processing, 2016, 30, 1583-1602.	4.1	7
43	Performance Evaluation Metrics and Approaches for Target Tracking: A Survey. Sensors, 2022, 22, 793.	3.8	7
44	â€œ1-Nâ€ Leader-Follower Formation Control of Multiple Agents Based on Bearing-Only Observation. Lecture Notes in Computer Science, 2015, , 120-130.	1.3	6
45	Track a smoothly maneuvering target based on trajectory estimation. , 2017, , .		6
46	A Computationally Efficient Labeled Multi-Bernoulli Smoother for Multi-Target Tracking. Sensors, 2019, 19, 4226.	3.8	6
47	Fan-shaped Grid Based Global Path Planning for Mobile Robot. Jiqiren/Robot, 2010, 32, 547-552.	0.4	6
48	A computationally efficient distributed Bayesian filter with random finite set observations. Signal Processing, 2022, 194, 108454.	3.7	6
49	A Novel Pilot Expansion Approach for MIMO Channel Estimation and Tracking. , 2015, , .		5
50	Special issue on distributed computing and artificial intelligence. Frontiers of Information Technology and Electronic Engineering, 2016, 17, 281-282.	2.6	5
51	An Adaptive Particle Filter for Indoor Robot Localization. Advances in Intelligent Systems and Computing, 2015, , 45-55.	0.6	4
52	A Track-oriented Approach to Target Tracking with Random Finite Set Observations. , 2019, , .		4
53	Variational Bayesian inference for the identification of FIR systems via quantized output data. Automatica, 2021, 132, 109827.	5.0	4
54	Indoor Location System for Security Guards in Subway Stations. Advances in Intelligent Systems and Computing, 2014, , 111-119.	0.6	4

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55	Online Adapting the Magnitude of Target Birth Intensity in the PHD Filter. Advances in Distributed Computing and Artificial Intelligence Journal, 2014, 2, 31-40.	1.5	4
56	Localization of Mobile Robot Using Discrete Space Particle Filter. Jixie Gongcheng Xuebao/Chinese Journal of Mechanical Engineering, 2010, 46, 38.	0.5	4
57	Distributed Estimation for Multi-Subsystem With Coupled Constraints. IEEE Transactions on Signal Processing, 2022, 70, 1548-1559.	5.3	4
58	A novel nonlinear filter through constructing the parametric Gaussian regression process. Nonlinear Dynamics, 2021, 105, 579-602.	5.2	3
59	Motion Control of a Gecko-like Robot Based on a Central Pattern Generator. Sensors, 2021, 21, 6045.	3.8	3
60	A short revisit of nonlinear Gaussian filters: State-of-the-art and some concerns. , 2016, , .		2
61	On Chinese and Western Family Trees: Mechanism and Performance. Advances in Distributed Computing and Artificial Intelligence Journal, 2016, 5, 11-22.	1.5	2
62	An Agent-Based Social Simulation Platform with 3D Representation for Labor Integration of Disabled People. Advances in Intelligent Systems and Computing, 2015, , 55-64.	0.6	2
63	Monte Carlo WLS Fuser for Nonlinear/Non-Gaussian State Estimation. , 2021, , .		2
64	A fast resampling scheme for particle filters. , 2013, , .		1
65	Applied Technology in Adapting the Number of Particles while Maintaining the Diversity in the Particle Filter. Advanced Materials Research, 0, 951, 202-207.	0.3	1
66	Distributed filtering and control of complex networks and systems. Frontiers of Information Technology and Electronic Engineering, 2021, 22, 1-4.	2.6	1
67	Integration of Different ERP Systems on Mobile Devices. Advances in Intelligent Systems and Computing, 2014, , 27-35.	0.6	1
68	On the Bias of the SIR Filter in Parameter Estimation of the Dynamics Process of State Space Models. Advances in Intelligent Systems and Computing, 2015, , 87-95.	0.6	1
69	An Effective 3D Indoor Localization Approach Based on Fingerprint Fusion Positioning. , 2021, , .		1
70	A thorough study of the stability of PHD filters. , 2012, , .		0
71	Multi-target detection and estimation with the use of massive independent, identical sensors. Proceedings of SPIE, 2015, , .	0.8	0
72	Maximal admissible mode decision delay in terminal guidance. Chinese Journal of Aeronautics, 2019, 32, 1959-1966.	5.3	0

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73	Learning-based Gaussian Mixture Reduction for Distributed Bayesian Filter. , 2021, , .		0