An Overview of Existing Methods and Recent Advances

Citation Report

#	ARTICLE	IF	CITATIONS
1	Sequential inference for dynamically evolving groups of objects. , 0, , 245-276.		1
2	Multitarget Initiation, Tracking and Termination Using Bayesian Monte Carlo Methods. Computer Journal, 2007, 50, 674-693.	1.5	19
3	Statistical Signal Processing and the Motor Cortex. Proceedings of the IEEE, 2007, 95, 881-898.	16.4	27
4	Discrete-Time Nonlinear Filtering Algorithms Using Gaussâ€"Hermite Quadrature. Proceedings of the IEEE, 2007, 95, 953-977.	16.4	476
5	A New Formulation of the Rao-Blackwellized Particle Filter. , 2007, , .		9
6	An Efficient Algorithm for Modelling Duration inÂHiddenÂMarkovÂModels, with a Dramatic Application. Journal of Mathematical Imaging and Vision, 2008, 31, 165-170.	0.8	3
7	Analysis of filtering and smoothing algorithms for LÃ©vy-driven stochastic volatility models. Computational Statistics and Data Analysis, 2008, 52, 2863-2876.	0.7	18
8	A new unscented particle filter. Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing, 2008, , .	1.8	19
9	Particle filtering applied to turbo equalization with channel and noise variance estimation. , 2008, , .		0
10	Multi Target Acoustic Source Tracking with an Unknown and Time Varying Number of Targets. , 2008, , .		8
11	Particle Filtering Based Approach for Landmine Detection Using Ground Penetrating Radar. IEEE Transactions on Geoscience and Remote Sensing, 2008, 46, 3739-3755.	2.7	31
12	Sparse tensors and discrete-time nonlinear filtering. , 2008, , .		2
13	On particle filters for landmine detection using impulse ground penetrating radar. , 2008, , .		1
14	Multiharmonic tracking using marginalized particle filters. , 2008, 2008, 29-33.		15
15	A sequential importance sampling filter with a new proposal distribution for state and parameter estimation of nonlinear dynamical systems. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2008, 464, 25-47.	1.0	33
16	A new Particle Filtering algorithm with structurally optimal importance function. Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing, 2008, , .	1.8	2
17	A particle filtering framework for randomized optimization algorithms. , 2008, , .		22
18	Population based particle filtering. , 2008, , .		6

#	ARTICLE	IF	CITATIONS
19	Comparing Estimation Procedures for Stochastic Volatility Models of Short-Term Interest Rates. SSRN Electronic Journal, 0, , .	0.4	1
20	In Silico Generation of Alternative Hypotheses Using Causal Mapping (CMAP). PLoS ONE, 2009, 4, e5378.	1.1	4
21	Sequential Particle Generation for Visual Tracking. IEEE Transactions on Circuits and Systems for Video Technology, 2009, 19, 1365-1378.	5.6	18
22	A new approach based on particle filter for target tracking with glint noise. , 2009, , .		3
23	A numerical method for financial decision problems under stochastic volatility. , 2009, , .		0
24	Monte Carlo Solutions for Blind Phase Noise Estimation. Eurasip Journal on Wireless Communications and Networking, 2009, 2009, .	1.5	6
25	Improved target tracking with particle filtering. , 2009, , .		3
26	An improved particle filtering algorithm based on observation inversion optimal sampling. Central South University, 2009, 16, 815-820.	0.5	4
27	Particle Filtering. , 2009, , 1015-1029.		45
28	A New Distributed Particle Filtering for WSN Target Tracking. , 2009, , .		9
29	Cubature Kalman Filters. IEEE Transactions on Automatic Control, 2009, 54, 1254-1269.	3.6	2,454
30	A Study on Particle Filters for Single-Tone Frequency Tracking. IEEE Transactions on Aerospace and Electronic Systems, 2009, 45, 1111-1125.	2.6	27
31	A New Local-Loop Particle Filter Based on the Artificial Fish Algorithm. , 2009, , .		0
32	Robust ground plane estimation based on particle filters. , 2009, , .		2
33	A probabilistic approach for control of a stochastic system from LTL specifications. , 2009, , .		31
34	A Novel Multitarget Tracking Algorithm Based on Fuzzy Clustering Technique and Gaussian Particle Filter. , 2009, , .		0
35	A modified bootstrap filter. , 2009, , .		0
36	The Semi-Iterative Unscented Particle Filtering. , 2009, , .		1

#	ARTICLE	IF	CITATIONS
37	The marginalized auxiliary particle filter. , 2009, , .		6
38	Cost-Reference Particle Filters and Fusion of Information. , 2009, , .		0
39	Parameter estimation in a general state space model from short observation data: A SMC based approach. , 2009, , .		1
41	Video Tracking Using Dual-Tree Wavelet Polar Matching and Rao-Blackwellised Particle Filter. Eurasip Journal on Advances in Signal Processing, 2010, 2009, .	1.0	1
42	The Rao-Blackwellized Particle Filter: A Filter Bank Implementation. Eurasip Journal on Advances in Signal Processing, 2010, 2010, .	1.0	16
43	Analysis, Synthesis, and Classification of Nonlinear Systems Using Synchronized Swept-Sine Method for Audio Effects. Eurasip Journal on Advances in Signal Processing, 2010, 2010, .	1.0	11
44	Notice of Retraction: Multiple model particle filter based on two stage prediction update. , 2010, , .		0
45	Sensor optimization for progressive damage diagnosis in complex structures. , 2010, , .		4
46	Particle Learning and Smoothing. Statistical Science, 2010, 25, .	1.6	224
47	Reuse, recycle, reweigh: Combating influenza through efficient sequential Bayesian computation for massive data. Annals of Applied Statistics, 2010, 4, 1722-1748.	0.5	9
49	Parallel particle filters for online identification of mechanistic mathematical models of physiology from monitoring data: performance and real-time scalability in simulation scenarios. Journal of Clinical Monitoring and Computing, 2010, 24, 319-333.	0.7	11
50	Acoustic Source Localization and Tracking Using Track Before Detect. IEEE Transactions on Audio Speech and Language Processing, 2010, 18, 1228-1242.	3.8	32
51	Nonlinear System Identification Using Exponential Swept-Sine Signal. IEEE Transactions on Instrumentation and Measurement, 2010, 59, 2220-2229.	2.4	117
52	A particle filtering approach for structural system identification in vehicle–structure interaction problems. Journal of Sound and Vibration, 2010, 329, 1289-1309.	2.1	33
53	A novel image template matching based on particle filtering optimization. Pattern Recognition Letters, 2010, 31, 1825-1832.	2.6	22
54	Machine condition prognosis based on sequential Monte Carlo method. Expert Systems With Applications, 2010, 37, 2412-2420.	4.4	40
55	Real-Time Epidemic Monitoring and Forecasting of H1N1-2009 Using Influenza-Like Illness from General Practice and Family Doctor Clinics in Singapore. PLoS ONE, 2010, 5, e10036.	1.1	133
56	Using data assimilation to study extratropical Northern Hemisphere climate over the last millennium. Climate of the Past, 2010, 6, 627-644.	1.3	93

#	Article	IF	Citations
57	Coupled hydrogeophysical parameter estimation using a sequential Bayesian approach. Hydrology and Earth System Sciences, 2010, 14, 545-556.	1.9	40
58	Plug-and-play inference for disease dynamics: measles in large and small populations as a case study. Journal of the Royal Society Interface, 2010, 7, 271-283.	1.5	222
59	Robust multi-camera tracking from schematic descriptions. , 2010, , .		0
60	Just-in-time cooperative simultaneous localization and mapping. , 2010, , .		3
61	Bayesian tracking by discriminant feature fusion and evolutionary importance resampling. , 2010, , .		0
62	Conflict detection in terminal area based on modified unscented particle filter. , 2010, , .		0
63	Particle filter adaptation for distributed sensors via set membership. , 2010, , .		20
64	The Almost Sure Convergence of the Auxiliary Particle Filter. , 2010, , .		0
65	Nonparametric belief propagation. Communications of the ACM, 2010, 53, 95-103.	3.3	108
66	Particle filtering with dependent noise. , 2010, , .		10
67	Development of a particle filter framework for respiratory motion correction in nuclear medicine imaging. , 2010, , .		3
68	Acoustic-Based Techniques for Autonomous Underwater Vehicle Localization. Proceedings of the Institution of Mechanical Engineers Part M: Journal of Engineering for the Maritime Environment, 2010, 224, 293-307.	0.3	17
69	Efficient Particle Filtering via Sparse Kernel Density Estimation. IEEE Transactions on Image Processing, 2010, 19, 2480-2490.	6.0	28
70	Bearing-only target tracking with improved particle filter. , 2010, , .		1
71	Efficient parallelized particle filter design on CUDA. , 2010, , .		13
72	Model-based prognostics under limited sensing. , 2010, , .		52
73	Auxiliary Particle Implementation of Probability Hypothesis Density Filter. IEEE Transactions on Aerospace and Electronic Systems, 2010, 46, 1437-1454.	2.6	75
74	Particle filter theory and practice with positioning applications. IEEE Aerospace and Electronic Systems Magazine, 2010, 25, 53-82.	2.3	485

#	ARTICLE	IF	CITATIONS
75	Stochastic Hybrid Systems: A Powerful Framework for Complex, Large Scale Applications. European Journal of Control, 2010, 16, 583-594.	1.6	45
76	Quadrature Kalman filter with equality constraints. , 2010, , .		0
77	UWB sequential Monte Carlo positioning using virtual anchors. , 2010, , .		21
78	Tracking in clutter based on Mean Shift embedded particle filter. , 2010, , .		2
79	Nonlinear filtering with multiple packet dropouts. , 2010, , .		2
80	Generative Model for Maneuvering Target Tracking. IEEE Transactions on Aerospace and Electronic Systems, 2010, 46, 635-655.	2.6	10
81	Particle filtering of hidden Gamma processes for robust Predictive Maintenance in semiconductor manufacturing. , 2010, , .		16
82	Multi-prediction particle filter for effcient memory utilization. , 2010, , .		0
83	A comparative study of Monte-Carlo methods for multitarget tracking. , 2011, , .		4
84	Clustering using sum-of-norms regularization: With application to particle filter output computation. , 2011, , .		41
85	On feature templates for Particle Filter based lane detection. , 2011, , .		14
86	A Particle Filter Approach to Respiratory Motion Estimation in Nuclear Medicine Imaging. IEEE Transactions on Nuclear Science, 2011, 58, 2276-2285.	1.2	19
87	On-Line Learning for the Infinite Hidden Markov Model. Communications in Statistics Part B: Simulation and Computation, 2011, 40, 879-893.	0.6	6
88	A General Convergence Result for Particle Filtering. IEEE Transactions on Signal Processing, 2011, 59, 3424-3429.	3.2	45
89	Set-Membership Constrained Particle Filter: Distributed Adaptation for Sensor Networks. IEEE Transactions on Signal Processing, 2011, 59, 4122-4138.	3.2	126
90	Multiple damage progression paths in model-based prognostics. , 2011, , .		30
91	Model-based diagnostics for propellant loading systems. , 2011, , .		7
92	A noise reduction method for discrete chaotic signals and its application in communication. , 2011, , .		3

#	Article	IF	Citations
93	Prognostics for Ground Support Systems: Case Study on Pneumatic Valves. , 2011, , .		2
94	Reduced-complexity scheme using alphaâ€"beta filtering for location tracking. IET Communications, 2011, 5, 1806-1813.	1.5	26
95	Particle filtering with correlated measurement and process noise at the same time. IET Radar, Sonar and Navigation, 2011, 5, 726.	0.9	35
96	Bayesian Tracking by Online Co-Training and Sequential Evolutionary Importance Resampling. , 2011, , .		0
97	The study of Novel Local-loop Particle Filter. , 2011, , .		0
98	Adaptive measurement selection for progressive damage estimation. , 2011, , .		0
99	Bayesian track-before-detect for multisensor fusion systems. , 2011, , .		0
100	Iterated filtering. Annals of Statistics, 2011, 39, .	1.4	85
101	Development and numerical investigation of new non-linear Kalman filter variants. IET Control Theory and Applications, 2011, 5, 1155-1166.	1.2	14
102	An Overview of Sequential Bayesian Filtering in Ocean Acoustics. IEEE Journal of Oceanic Engineering, 2011, 36, 71-89.	2.1	87
103	Multi-Sensor Centralized Fusion without Measurement Noise Covariance by Variational Bayesian Approximation. IEEE Transactions on Aerospace and Electronic Systems, 2011, 47, 718-272.	2.6	56
104	Spectral Estimation of Nonstationary EEG Using Particle Filtering With Application to Event-Related Desynchronization (ERD). IEEE Transactions on Biomedical Engineering, 2011, 58, 321-331.	2.5	35
105	Tracking highly correlated targets through statistical multiplexing. Image and Vision Computing, 2011, 29, 803-817.	2.7	1
106	Bayesian inference in physics. Reviews of Modern Physics, 2011, 83, 943-999.	16.4	297
107	Fusion of Data from Inertial Sensors, Raster Maps and GPS for Estimation of Pedestrian Geographic Location in Urban Terrain. Metrology and Measurement Systems, 2011, 18, 145-158.	1.4	9
108	Predicting Articulated Human Motion from Spatial Processes. International Journal of Computer Vision, 2011, 94, 317-334.	10.9	13
109	Dynamic resampling particle filter adaptive to changes in system model. Journal of Control Theory and Applications, 2011, 9, 584-588.	0.8	2
110	Multi-prediction particle filter for efficient parallelized implementation. Eurasip Journal on Advances in Signal Processing, 2011, 2011, .	1.0	3

#	ARTICLE	IF	CITATIONS
111	Nonlinear tracking in a diffusion process with a Bayesian filter and the finite element method. Computational Statistics and Data Analysis, 2011, 55, 280-290.	0.7	12
112	Finite element method based Monte Carlo filters for structural system identification. Probabilistic Engineering Mechanics, 2011, 26, 294-307.	1.3	34
113	PF-MPC: Particle filter-model predictive control. Systems and Control Letters, 2011, 60, 632-643.	1.3	36
114	Statistical model for cardiovascular signals with independent respiratory modulation for tracking pulse pressure variation. , 2011, 2011, 4681-4.		1
115	Video assessment of finger tapping for Parkinson's disease and other movement disorders. , 2011, 2011, 7123-6.		6
116	Recursive Bayesian estimation of stochastic rate constants from heterogeneous cell populations. , 2011, , .		10
117	Application of particle filter in high accuracy geometry measurement. , 2011, , .		0
118	A probabilistic approach to spatio-spectral filters optimization in Brain-Computer Interface. , 2011, , .		5
119	Reduced cubature Kalman filtering applied to target tracking. , 2011, , .		3
120	A Track-Before-Detect Algorithm based on Particle Smoothing. , 2011, , .		0
121	A mode preserving particle filter. , 2011, , .		3
122	Monte Carlo Filtering of Piecewise Deterministic Processes. Journal of Computational and Graphical Statistics, 2011, 20, 119-139.	0.9	16
123	Inference for Nonlinear Epidemiological Models Using Genealogies and Time Series. PLoS Computational Biology, 2011, 7, e1002136.	1.5	107
124	A Self-Organizing State-Space-Model Approach for Parameter Estimation in Hodgkin-Huxley-Type Models of Single Neurons. PLoS Computational Biology, 2012, 8, e1002401.	1.5	33
125	Symbol-based iterative decoding of convolutionally encoded multiple descriptions. IET Communications, 2012, 6, 1868-1875.	1.5	0
126	Enhancing Positioning Accuracy in Urban Terrain by Fusing Data from a GPS Receiver, Inertial Sensors, Stereo-Camera and Digital Maps for Pedestrian Navigation. Sensors, 2012, 12, 6764-6801.	2.1	21
127	Tracking Epidemics With Google Flu Trends Data and a State-Space SEIR Model. Journal of the American Statistical Association, 2012, 107, 1410-1426.	1.8	123
128	An adaptive nonparametric particle filter for state estimation. , 2012, , .		4

#	Article	IF	Citations
129	Bayesian model comparison via path-sampling sequential Monte Carlo. , 2012, , .		4
130	A Particle Filtering Scheme for Processing Time Series Corrupted by Outliers. IEEE Transactions on Signal Processing, 2012, 60, 4611-4627.	3.2	32
131	Online parameter estimation in dynamic Markov Random Fields for image sequence analysis. , 2012, , .		1
132	A two step hardware design method using CλaSH. , 2012, , .		5
133	Stochastic volatility models including open, close, high and low prices. Quantitative Finance, 2012, 12, 199-212.	0.9	29
134	Kalman Filtering for a Generalized Class of Nonlinear Systems and a New Gaussian Quadrature Technique. IEEE Transactions on Automatic Control, 2012, 57, 2967-2973.	3.6	4
135	Fitting complex population models by combining particle filters with Markov chain Monte Carlo. Ecology, 2012, 93, 256-263.	1.5	34
136	A Novel Particle Filter Formulation with Application to Terrain-Aided Navigation. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 132-139.	0.4	27
137	Particle Methods for Data-Driven Simulation and Optimization. , 0, , 92-102.		2
138	A Backward-Simulation Based Rao-Blackwellized Particle Smoother for Conditionally Linear Gaussian Models. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 506-511.	0.4	8
139	A non-degenerate Rao-Blackwellised particle filter for estimating static parameters in dynamical models. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 1149-1154.	0.4	7
140	An improved particle filter with a new sample processing strategy. , 2012, , .		0
141	Online Bayesian Time-varying Parameter Estimation of HIV-1 Time-series. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 1294-1299.	0.4	5
142	Forecasting High-Frequency Futures Returns Using Online Langevin Dynamics. IEEE Journal on Selected Topics in Signal Processing, 2012, 6, 366-380.	7.3	29
143	Bayesian track-before-detect algorithm with target amplitude fluctuation based on expectationâ€"maximisation estimation. IET Radar, Sonar and Navigation, 2012, 6, 719-728.	0.9	12
144	Particle swarm optimisation particle filtering for dual estimation. IET Signal Processing, 2012, 6, 114.	0.9	4
145	An Efficient Two-Stage Sampling Method in Particle Filter. IEEE Transactions on Aerospace and Electronic Systems, 2012, 48, 2666-2672.	2.6	7
146	Particle Filtering With Dependent Noise Processes. IEEE Transactions on Signal Processing, 2012, 60, 4497-4508.	3.2	39

#	Article	IF	Citations
147	The Gaussian mixture MCMC particle algorithm for dynamic cluster tracking. Automatica, 2012, 48, 2454-2467.	3.0	32
148	A Raoâ€"Blackwellized Particle Filter for Adaptive Beamforming With Strong Interference. IEEE Transactions on Signal Processing, 2012, 60, 2952-2961.	3.2	10
149	Inferring Gene Regulatory Networks via Nonlinear State-Space Models and Exploiting Sparsity. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2012, 9, 1203-1211.	1.9	39
150	Calibration of tracking systems using detections from non-cooperative targets. , 2012, , .		4
151	A low-complexity data-fusion algorithm based on adaptive weighting for location estimation. , 2012, , .		3
152	Simultaneous localization and mapping for non-parametric potential field environments. , 2012, , .		3
153	A heterogeneous Markov chain model of target existence variable for Bayesian track-before-detect. , 2012, , .		0
154	An approach to controlled drug infusion via tracking of the time-varying dose-response. , 2012, 2012, 3539-42.		1
155	Nonlinear dynamic state estimation in instrumented structures with conditionally linear Gaussian substructures. Probabilistic Engineering Mechanics, 2012, 30, 89-103.	1.3	9
156	User behavior detection framework based on NBP for energy efficiency. Automation in Construction, 2012, 26, 69-76.	4.8	6
157	Natural metrics and least-committed priors for articulated tracking. Image and Vision Computing, 2012, 30, 453-461.	2.7	14
158	Shoulder and Elbow Joint Angle Tracking With Inertial Sensors. IEEE Transactions on Biomedical Engineering, 2012, 59, 2635-2641.	2.5	215
159	Bayesian estimation for target tracking, Part III: Monte Carlo filters. Wiley Interdisciplinary Reviews: Computational Statistics, 2012, 4, 498-512.	2.1	1
160	A reduced-complexity scheme using message passing for location tracking. Eurasip Journal on Advances in Signal Processing, 2012, 2012, .	1.0	12
161	Nonlinear Bayesian state estimation: A review of recent developments. Control Engineering Practice, 2012, 20, 933-953.	3.2	135
162	A Survey of Sequential Monte Carlo Methods for Economics and Finance. Econometric Reviews, 2012, 31, 245-296.	0.5	208
163	The Empirical Implications of the Interest-Rate Lower Bound. SSRN Electronic Journal, 2012, , .	0.4	28
164	On closure parameter estimation in chaotic systems. Nonlinear Processes in Geophysics, 2012, 19, 127-143.	0.6	26

#	Article	IF	Citations
165	Bandwidth Selection in Pre-Smoothed Particle Filters. SSRN Electronic Journal, 2012, , .	0.4	0
166	An Introduction to Stochastic Particle Integration Methods: With Applications to Risk and Insurance. SSRN Electronic Journal, 0, , .	0.4	1
167	Modeling the dynamics of social networks using Bayesian hierarchical blockmodels. Statistical Analysis and Data Mining, 2012, 5, 218-234.	1.4	8
168	Frequentist analysis of hierarchical models for population dynamics and demographic data. Journal of Ornithology, 2012, 152, 393-408.	0.5	23
169	Safety assessment of robot trajectories for navigation in uncertain and dynamic environments. Autonomous Robots, 2012, 32, 285-302.	3.2	72
170	Direct fitting of dynamic models using integrated nested Laplace approximations â€" INLA. Computational Statistics and Data Analysis, 2012, 56, 1808-1828.	0.7	47
171	A grid-based Bayesian approach to robust visual tracking. , 2012, 22, 54-65.		15
172	Rao-Blackwellized Gaussâ€"Hermite filter for joint state estimation in cyclic prefixed single-carrier systems. Signal Processing, 2012, 92, 2105-2115.	2.1	4
173	Abrupt Motion Tracking Via Intensively Adaptive Markov-Chain Monte Carlo Sampling. IEEE Transactions on Image Processing, 2012, 21, 789-801.	6.0	102
174	Fast continuousâ€discrete DAFâ€filters. Journal of Time Series Analysis, 2012, 33, 193-210.	0.7	7
175	Distributed particle filtering in agent networks: A survey, classification, and comparison. IEEE Signal Processing Magazine, 2013, 30, 61-81.	4.6	208
176	Swarm Intelligence Techniques Applied to Nonlinear Systems State Estimation. , 2013, , 219-241.		2
177	A Tutorial on Bernoulli Filters: Theory, Implementation and Applications. IEEE Transactions on Signal Processing, 2013, 61, 3406-3430.	3.2	248
179	Unscented Kalman Filtering on Riemannian Manifolds. Journal of Mathematical Imaging and Vision, 2013, 46, 103-120.	0.8	65
181	Improved Particle Filter for Target Tracing Application based on ChinaGrid. AASRI Procedia, 2013, 5, 262-267.	0.6	0
183	A continuous-time adaptive particle filter for estimations under measurement time uncertainties with an application to a plasma-leucine mixed effects model. BMC Systems Biology, 2013, 7, 8.	3.0	4
184	Particle smoothers in sequential geoacoustic inversion. Journal of the Acoustical Society of America, 2013, 134, 971-981.	0.5	4
185	Pulse pressure variation tracking using sequential Monte Carlo methods. Biomedical Signal Processing and Control, 2013, 8, 333-340.	3.5	3

#	ARTICLE	IF	CITATIONS
186	Tracking pitch period using particle filters. , 2013, , .		6
187	Particle filtering with progressive Gaussian approximations to the optimal importance density. , 2013, , .		9
188	Particle filtering with transformed weights. , 2013, , .		0
189	On marginal particle filters with linear complexity. , 2013, , .		7
190	Improved Particle Approximations to the Joint Smoothing Distribution Using Markov Chain Monte Carlo. IEEE Transactions on Signal Processing, 2013, 61, 956-963.	3.2	22
191	Calibration of Multi-Target Tracking Algorithms Using Non-Cooperative Targets. IEEE Journal on Selected Topics in Signal Processing, 2013, 7, 390-398.	7.3	53
192	Sequential Monte Carlo simulated annealing. Journal of Global Optimization, 2013, 55, 101-124.	1.1	26
193	Particle filtering for Gumbelâ€distributed daily maxima of methane and nitrous oxide. Environmetrics, 2013, 24, 51-62.	0.6	6
194	Rebuilding the limit order book: sequential Bayesian inference on hidden states. Quantitative Finance, 2013, 13, 1779-1799.	0.9	2
195	Automatic Calibration Method for Driver's Head Orientation in Natural Driving Environment. IEEE Transactions on Intelligent Transportation Systems, 2013, 14, 303-312.	4.7	52
196	A Computationally Efficient Particle Filter for Multitarget Tracking Using an Independence Approximation. IEEE Transactions on Signal Processing, 2013, 61, 843-856.	3.2	78
197	Wind farm layout optimization using particle filtering approach. Renewable Energy, 2013, 58, 95-107.	4.3	70
198	Multi-Object Particle Filters. , 2013, , 53-84.		1
202	Geophysical signal processing using sequential Bayesian techniques. Geophysics, 2013, 78, V87-V100.	1.4	3
203	Particle Smoothing Algorithms for Variable Rate Models. IEEE Transactions on Signal Processing, 2013, 61, 1663-1675.	3.2	8
204	Analysis of the Characteristic of the Kalman Gain for 1-D Chaotic Maps in Cubature Kalman Filter. IEEE Signal Processing Letters, 2013, 20, 229-232.	2.1	20
205	Reduced-order model tracking and interpolation to solve PDE-based Bayesian inverse problems. Inverse Problems, 2013, 29, 075014.	1.0	11
206	Particle Based Smoothed Marginal MAP Estimation for General State Space Models. IEEE Transactions on Signal Processing, 2013, 61, 264-273.	3.2	8

#	ARTICLE	IF	CITATIONS
207	Simulation Based Methods for Model Updating in Structural Condition Assessment. , 2013, , 83-112.		0
208	A Positioning Scheme Combining Location Tracking with Vision Assisting for Wireless Sensor Networks. Journal of Applied Research and Technology, 2013, 11, 292-300.	0.6	14
209	Reducedâ€complexity tracking scheme based on adaptive weighting for location estimation. IET Communications, 2013, 7, 673-684.	1.5	3
210	Multitarget Tracking by Improved Particle Filter Based on Unscented Transform. Mathematical Problems in Engineering, 2013, 2013, 1-7.	0.6	1
211	Improved Minimum Entropy Filtering for Continuous Nonlinear Non-Gaussian Systems Using a Generalized Density Evolution Equation. Entropy, 2013, 15, 2510-2523.	1.1	8
212	A Positioning Scheme Combining Kalman Filtering with Vision Assisting for Wireless Sensor Networks. Applied Mechanics and Materials, 2013, 284-287, 2009-2014.	0.2	0
213	Calculation of Probabilistic Available Transfer Capability in Wind Power Integrated System. Applied Mechanics and Materials, 0, 448-453, 2524-2529.	0.2	0
214	An Introduction to Stochastic Particle Integration Methods: With Applications to Risk and Insurance. Springer Proceedings in Mathematics and Statistics, 2013, , 39-81.	0.1	7
215	Optical Flow Based Urban Road Vehicle Tracking. , 2013, , .		30
216	Particle Filters. , 2013, , 1-8.		0
217	A particle-based search strategy for improved Space Situational Awareness. , 2013, , .		1
218	A marginalised particle filter for bearings-only tracking. , 2013, , .		0
219	Improved auxiliary and Unscented Particle Filter variants. , 2013, , .		4
220	Predicting Taxiâ€"Passenger Demand Using Streaming Data. IEEE Transactions on Intelligent Transportation Systems, 2013, 14, 1393-1402.	4.7	521
221	An effective proposal distribution for sequential Monte Carlo methods-based wildfire data assimilation. , 2013, , .		2
222	Linear multistep methods, particle filtering and sequential Monte Carlo. Inverse Problems, 2013, 29, 085007.	1.0	22
223	Efficient Likelihood Evaluation of State-Space Representations. Review of Economic Studies, 2013, 80, 538-567.	2.9	27
224	Backward Simulation Methods for Monte Carlo Statistical Inference. Foundations and Trends in Machine Learning, 2013, 6, 1-143.	46.6	86

#	Article	IF	Citations
225	Particle filters. Bernoulli, 2013, 19, .	0.7	41
226	A Study on Localization Problem of Autonomous Mobile Robot Using Gaussian Mixture Model. Nippon Kikai Gakkai Ronbunshu, C Hen/Transactions of the Japan Society of Mechanical Engineers, Part C, 2013, 79, 4249-4262.	0.2	0
227	A Generalized Search Method for Multiple Competing Hypotheses in Visual Tracking. , 2014, , .		2
228	Two stage prediction and update particle filter with correlated noise in multi-sensor observation. , 2014, , .		0
229	Tempo tracking by using a parallel particle filter on the GPU. , 2014, , .		0
230	Is it the sparsity or collaborativeness that makes a visual tracker strong?. , 2014, , .		1
231	Comparison and error analysis of integral-free Kalman tracking filter algorithms. , 2014, , .		0
232	Applied Technology in an Adaptive Particle Filter Based on Interval Estimation and KLD-Resampling. Advanced Materials Research, 2014, 1014, 452-458.	0.3	0
233	Method for estimating capacity and predicting remaining useful life of lithium-ion battery. , 2014, , .		6
234	Explaining compound generalization in associative and causal learning through rational principles of dimensional generalization.. Psychological Review, 2014, 121, 526-558.	2.7	60
235	Phylodynamic Inference for Structured Epidemiological Models. PLoS Computational Biology, 2014, 10, e1003570.	1.5	94
236	State estimation of a nonlinear system using particle filter. , 2014, , .		1
237	Target aided online sensor localisation in bearing only clusters. , 2014, , .		3
238	Adaptive sensor selection for target tracking using particle filter. IET Signal Processing, 2014, 8, 852-859.	0.9	4
239	On the L^4 convergence of particle filters with general importance distributions. , 2014, , .		4
240	Application of advanced sampling for efficient probabilistic traffic modelling. Transportation Research Part C: Emerging Technologies, 2014, 49, 87-102.	3.9	6
241	Efficient Nonlinear Markov Models for Human Motion. , 2014, , .		95
242	Bayesian calibration of the Schwartz-Smith Model adapted to the energy market. , 2014, , .		0

#	Article	IF	Citations
243	An experimental implementation of a particle-based dynamic sensor steering method for tracking and searching for space objects. , 2014, , .		2
244	A modified multi-target tracking algorithm based on joint probability data association and Gaussian particle filter. , 2014, , .		3
245	Particle filter modification using Kalman optimal filtering method as applied to road detection from sattelite images. , 2014, , .		1
246	Dynamic belief state representations. Current Opinion in Neurobiology, 2014, 25, 221-227.	2.0	16
247	Fight sample degeneracy and impoverishment in particle filters: A review of intelligent approaches. Expert Systems With Applications, 2014, 41, 3944-3954.	4.4	179
248	A Particle Filtering Approach for Tracking an Unknown Number of Objects with Dynamic Relations. Mathematical Modelling and Algorithms, 2014, 13, 3-21.	0.5	7
249	Multichannel Time-Delay and Signal Model Estimation with Missing Observations. Circuits, Systems, and Signal Processing, 2014, 33, 257-274.	1.2	0
250	Efficient Uniform Quantization Likelihood Evaluation for Particle Filters in Embedded Implementations. Journal of Signal Processing Systems, 2014, 75, 191-202.	1.4	1
251	Maritime Surveillance Using Multiple High-Frequency Surface-Wave Radars. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 5056-5071.	2.7	107
252	Bayesian Computational Methods in Signal Processing. Academic Press Library in Signal Processing, 2014, 3, 143-185.	0.8	2
253	Markerless Vision–Based Augmented Reality for Urban Planning. Computer-Aided Civil and Infrastructure Engineering, 2014, 29, 2-17.	6.3	56
254	Rao-Blackwellized particle filter for Markov modulated nonlinear dynamic systems. , 2014, , .		4
255	Estimate nothing. Quantitative Finance, 2014, 14, 2065-2072.	0.9	12
256	A Class of Stable Square-Root Nonlinear Information Filters. IEEE Transactions on Automatic Control, 2014, 59, 1893-1898.	3.6	31
257	Improving SMC sampler estimate by recycling all past simulated particles. , 2014, , .		3
258	A Reduced-Complexity Data-Fusion Algorithm Using Belief Propagation for Location Tracking in Heterogeneous Observations. IEEE Transactions on Cybernetics, 2014, 44, 922-935.	6.2	25
259	GeoF: A geometric Bayesian filter for indoor position tracking in mixed LOS/NLOS conditions. , 2014, , .		0
260	Spherical Simplex-Radial Cubature Kalman Filter. IEEE Signal Processing Letters, 2014, 21, 43-46.	2.1	81

#	ARTICLE	IF	CITATIONS
261	Comparison of the performance of particle filter algorithms applied to tracking of a disease epidemic. Mathematical Biosciences, 2014, 255, 21-32.	0.9	22
262	Cooperative sensor localisation in distributed fusion networks by exploiting non-cooperative targets. , 2014, , .		6
263	A Parallel Systematic Resampling Algorithm for High-Speed Particle Filters in Embedded Systems. Circuits, Systems, and Signal Processing, 2014, 33, 3591-3602.	1.2	2
264	Consensus-based Distributed Particle Filtering With Distributed Proposal Adaptation. IEEE Transactions on Signal Processing, 2014, 62, 3029-3041.	3.2	47
265	An approximate Bayesian computation approach to parameter estimation in a stochastic stage†structured population model. Ecology, 2014, 95, 1418-1428.	1.5	16
266	Passive target tracking with intermittent measurement based on random finite set. Journal of Central South University, 2014, 21, 2282-2291.	1.2	1
267	Observing System Simulation Experiments of cross-layer Lagrangian data assimilation. Dynamics of Atmospheres and Oceans, 2014, 66, 77-93.	0.7	1
268	Method for estimating capacity and predicting remaining useful life of lithium-ion battery. Applied Energy, 2014, 126, 182-189.	5.1	132
269	IEEE 802.15.4a CSS-based mobile object locating system using sequential Monte Carlo method. Computer Communications, 2014, 38, 13-25.	3.1	9
270	Bayesian Tracking in Underwater Wireless Sensor Networks With Port-Starboard Ambiguity. IEEE Transactions on Signal Processing, 2014, 62, 1864-1878.	3.2	69
271	Particle filter-based robust adaptive control for closed-loop administration of sodium nitroprusside. Journal of Computational Surgery, 2014, 1, .	0.6	5
273	Correction of Joint Angles From Kinect for Balance Exercising and Assessment. Journal of Applied Biomechanics, 2014, 30, 294-299.	0.3	12
274	Enhancing Vehicular Safety in Adverse Weather Using Computer Vision Analysis. , 2014, , .		2
275	Development of swift motion tracking via intensively adaptive Markov-Chain Monto Carlo sampling. , 2014, , .		0
276	Statistical Estimation of GNSS Pseudo-range Errors. Procedia Computer Science, 2015, 73, 258-265.	1.2	4
277	Particle Gibbs with refreshed backward simulation. , 2015, , .		2
278	Method for simultaneous localization and parameter estimation in particle tracking experiments. Physical Review E, 2015, 92, 052707.	0.8	25
279	Inference and learning in latent Markov models. , 0, , 14-50.		0

#	Article	IF	Citations
281	Research on Construction Method of Operational Reliability Control Model for Space Manipulator Based on Particle Filter. Mathematical Problems in Engineering, 2015, 2015, 1-11.	0.6	1
282	Bayesian Analysis in Non-Linear Non-Gaussian State-Space Models Using Particle Gibbs. SSRN Electronic Journal, 2015, , .	0.4	0
283	A Systematization of the Unscented Kalman Filter Theory. IEEE Transactions on Automatic Control, 2015, 60, 2583-2598.	3.6	188
284	Degradation-based maintenance decision using stochastic filtering for systems under imperfect maintenance. European Journal of Operational Research, 2015, 245, 531-541.	3.5	116
285	Observation noise modeling based particle filter: An efficient algorithm for target tracking in glint noise environment. Neurocomputing, 2015, 158, 155-166.	3.5	19
286	Adaptive approximate filtering of state-space models. , 2015, , .		0
287	The Coordinate Particle Filter - a novel Particle Filter for high dimensional systems. , 2015, , .		0
288	Split-Gaussian particle filter. , 2015, , .		0
289	Cubature belief propagation for self-localization of wireless networks. , 2015, , .		2
290	Maximum Likelihood Signal Parameter Estimation via Track Before Detect. , 2015, , .		3
291	An Overview of Recent Advances in Monte-Carlo Methods for Bayesian Filtering in High-Dimensional Spaces. SpringerBriefs in Statistics, 2015, , 31-61.	0.3	10
292	Parameter estimation for visual tracking of a spherical pendulum with particle filter. , 2015, , .		3
293	Evolutionary sampling: A novel way of machine learning within a probabilistic framework. Information Sciences, 2015, 299, 262-282.	4.0	5
294	Bridging the gap in connectomic studies: A particle filtering framework for estimating structural connectivity at network scale. Medical Image Analysis, 2015, 21, 1-14.	7.0	3
295	Human Joint Angle Estimation with Inertial Sensors and Validation with A Robot Arm. IEEE Transactions on Biomedical Engineering, 2015, 62, 1759-1767.	2.5	123
296	Conditional Gaussâ€"Hermite Filtering With Application to Volatility Estimation. IEEE Transactions on Automatic Control, 2015, 60, 2476-2481.	3.6	13
297	Inference for dynamic and latent variable models via iterated, perturbed Bayes maps. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 719-724.	3.3	100
298	A grid-based tracker for erratic targets. Pattern Recognition, 2015, 48, 3527-3541.	5.1	2

#	ARTICLE	IF	CITATIONS
299	A modified ensemble Kalman particle filter for nonâ€Gaussian systems with nonlinear measurement functions. Journal of Advances in Modeling Earth Systems, 2015, 7, 50-66.	1.3	27
300	Intrinsic modeling of stochastic dynamical systems using empirical geometry. Applied and Computational Harmonic Analysis, 2015, 39, 138-160.	1.1	25
301	State Feedback Control Using Particle Filter. Electronics and Communications in Japan, 2015, 98, 16-25.	0.3	3
302	An Improved Particle Smoother for Blind Equalization in Time-Varying MIMO Channels. IEEE Communications Letters, 2015, 19, 929-932.	2.5	2
303	Scalable Bayesian Model Averaging Through Local Information Propagation. Journal of the American Statistical Association, 2015, 110, 795-809.	1.8	3
304	A Particle-Filtering Approach for Real-Time Estimation of Thermal Conductivity and Temperature Tracking in Homogeneous Masses. Numerical Heat Transfer, Part B: Fundamentals, 2015, 67, 507-530.	0.6	5
305	Particle filter based on the lifting scheme of observations. IET Radar, Sonar and Navigation, 2015, 9, 48-54.	0.9	8
306	Resampling Methods for Particle Filtering: Classification, implementation, and strategies. IEEE Signal Processing Magazine, 2015, 32, 70-86.	4.6	435
307	Distributed Sequential Estimation in Asynchronous Wireless Sensor Networks. IEEE Signal Processing Letters, 2015, 22, 1965-1969.	2.1	23
308	Adaptive importance sampling in signal processing. , 2015, 47, 36-49.		51
309	Efficient filtering and sampling for a class of time-varying linear systems. , 2015, , .		1
310	Tracking changes in functional connectivity of brain networks from resting-state fMRI using particle filters. , 2015, , .		3
311	Multiple Extended Target Tracking for Through-Wall Radars. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 6482-6494.	2.7	61
312	Robust State Estimation of Complex Systems. , 2015, , 291-350.		0
313	Novel cubature Kalman filtering for systems involving nonlinear states and linear measurements. AEU - International Journal of Electronics and Communications, 2015, 69, 314-320.	1.7	20
314	Modeling and estimation of single-trial event-related potentials using partially observed diffusion processes. , 2015, 36, 128-143.		6
315	A particle filtering and kernel smoothing-based approach for new design component prognostics. Reliability Engineering and System Safety, 2015, 134, 19-31.	5.1	89
316	Finite Gaussian Mixture Approximations to Analytically Intractable Density Kernels. SSRN Electronic Journal, 0, , .	0.4	0

#	Article	IF	Citations
317	An Improved Gaussian Mixture CKF Algorithm under Non-Gaussian Observation Noise. Discrete Dynamics in Nature and Society, 2016, 2016, 1-10.	0.5	0
318	Particle Filter with Novel Nonlinear Error Model for Miniature Gyroscope-Based Measurement While Drilling Navigation. Sensors, 2016, 16, 371.	2.1	13
319	Tracking single fluorescent particles in three dimensions via extremum seeking. Biomedical Optics Express, 2016, 7, 3355.	1.5	27
320	Narrow passage sampling in the observation of robotic assembly tasks. , 2016, , .		16
321	A TVAR particle filter with adaptive resampling for frequency estimation. , 2016, , .		12
322	A new perspective and extension of the Gaussian Filter. International Journal of Robotics Research, 2016, 35, 1731-1749.	5.8	10
323	Local Trends in Price‚Äëto‚ÄëDividend Ratios‚Äî Assessment, Predictive Value, and Determinants. Journal of Money, Credit and Banking, 2016, 48, 1655-1690.	0.9	1
324	Accelerating Bayesian inference for evolutionary biology models. Bioinformatics, 2017, 33, 669-676.	1.8	6
326	Solution and Estimation Methods for DSGE Models. Handbook of Macroeconomics, 2016, 2, 527-724.	1.5	98
327	AUV terrain-aided navigation using a Doppler velocity logger. Annual Reviews in Control, 2016, 42, 166-176.	4.4	15
328	Distributed estimation of latent parameters in state space models using separable likelihoods. , 2016, , .		0
329	Instantaneous Frequency Estimation and Localization. , 2016, , 575-635.		0
330	State tracking of nonlinear system with multiplicative noises based on AR-SIS particle filter. , 2016, , .		1
331	Nonlinear event-based state estimation using particle filtering approach. , 2016, , .		3
332	An evolutionary sampling approach with adaptive Levy probability distribution. , 2016, , .		0
333	An improved SIR-based Sequential Monte Carlo algorithm. , 2016, , .		2
334	A novel particle filtering method for estimation of pulse pressure variation during spontaneous breathing. BioMedical Engineering OnLine, 2016, 15, 94.	1.3	1
335	Calibration of a microdialysis sensor and recursive glucose level estimation in ICU patients using Kalman and particle filtering. Biomedical Signal Processing and Control, 2016, 27, 155-163.	3.5	2

#	Article	IF	Citations
336	Multi-sensor marginalized particle filter based on average weight optimization in correlated noise. Optik, 2016, 127, 5163-5167.	1.4	1
337	Particle filtering and the laplace method for target tracking. IEEE Transactions on Aerospace and Electronic Systems, 2016, 52, 350-366.	2.6	12
338	Approximations of the Optimal Importance Density Using Gaussian Particle Flow Importance Sampling. Journal of the American Statistical Association, 2016, 111, 748-762.	1.8	41
339	An Iterative Approach to Source Counting and Localization Using Two Distant Microphones. IEEE/ACM Transactions on Audio Speech and Language Processing, 2016, 24, 1079-1093.	4.0	46
340	Sequential Monte Carlo instant radiosity. , 2016, , .		18
341	Multilevel Ensemble Transform Particle Filtering. SIAM Journal of Scientific Computing, 2016, 38, A1317-A1338.	1.3	25
342	A Metropolis-within-Gibbs sampler to infer task-based functional brain connectivity. , 2016, , .		1
343	Review of improved Monte Carlo methods in uncertainty-based design optimization for aerospace vehicles. Progress in Aerospace Sciences, 2016, 86, 20-27.	6.3	56
344	Bayesian Inference of Task-Based Functional Brain Connectivity Using Markov Chain Monte Carlo Methods. IEEE Journal on Selected Topics in Signal Processing, 2016, 10, 1150-1159.	7.3	4
347	Multi-sensor Ensemble Kalman filtering algorithm based on observation fuzzy support degree fusion. Optik, 2016, 127, 8520-8529.	1.4	9
348	Evaluation and improvement of global pose estimation with multiple AprilTags for industrial manipulators. , 2016, , .		12
349	Estimation and Identification of Spatio-Temporal Models with Applications in Engineering, Healthcare and Social Science. Annual Reviews in Control, 2016, 42, 285-298.	4.4	0
350	An Advanced Auxiliary Delay-Weight Particle Filter with Linear Computation Cost. International Journal of Distributed Sensor Networks, 2016, 12, 4535963.	1.3	0
351	Particle filtering with applications in networked systems: a survey. Complex & Intelligent Systems, 2016, 2, 293-315.	4.0	22
354	Numerical fittingâ€based likelihood calculation to speed up the particle filter. International Journal of Adaptive Control and Signal Processing, 2016, 30, 1583-1602.	2.3	7
355	Comparison and combination of EAKF and SIR-PF in the Bayesian filter framework. Acta Oceanologica Sinica, 2016, 35, 69-78.	0.4	6
356	An overview of particle methods for random finite set models. Information Fusion, 2016, 31, 110-126.	11.7	26
357	Spline-based parallel nonlinear optimization of function sequences. Journal of Parallel and Distributed Computing, 2016, 93-94, 132-145.	2.7	5

#	ARTICLE	IF	CITATIONS
358	Bandwidth selection in pre-smoothed particle filters. Statistics and Computing, 2016, 26, 1009-1024.	0.8	2
359	An online learning approach to eliminate Bus Bunching in real-time. Applied Soft Computing Journal, 2016, 47, 460-482.	4.1	59
360	Over-Determined Source Separation and Localization Using Distributed Microphones. IEEE/ACM Transactions on Audio Speech and Language Processing, 2016, 24, 1573-1588.	4.0	24
361	Efficient Sequential Monte Carlo With Multiple Proposals and Control Variates. Journal of the American Statistical Association, 2016, 111, 298-313.	1.8	7
362	Adaptive particle allocation in iterated sequential Monte Carlo via approximating meta-models. Statistics and Computing, 2016, 26, 393-407.	0.8	8
363	Remaining useful lifetime estimation and noisy gamma deterioration process. Reliability Engineering and System Safety, 2016, 149, 76-87.	5.1	90
364	Filtering with State-Observation Examples via Kernel Monte Carlo Filter. Neural Computation, 2016, 28, 382-444.	1.3	11
365	A Beamformer-Particle Filter Framework for Localization of Correlated EEG Sources. IEEE Journal of Biomedical and Health Informatics, 2016, 20, 880-892.	3.9	11
366	Autonomous crowds tracking with box particle filtering and convolution particle filtering. Automatica, 2016, 69, 380-394.	3.0	37
367	They are small worlds after all: revised properties of *Kepler* M dwarf stars and their planets. Monthly Notices of the Royal Astronomical Society, 2016, 457, 2877-2899.	1.6	160
368	Online Performance Assessment Method<?Pub _newline ?>for a Model-Based Prognostic Approach. IEEE Transactions on Reliability, 2016, 65, 718-735.	3.5	52
369	Efficient Sequential Monte-Carlo Samplers for Bayesian Inference. IEEE Transactions on Signal Processing, 2016, 64, 1305-1319.	3.2	23
370	A Bayesian Perspective on Multiple Source Localization in Wireless Sensor Networks. IEEE Transactions on Signal Processing, 2016, 64, 1684-1699.	3.2	30
371	Measurement bootstrapping Kalman filter. Optik, 2016, 127, 2094-2101.	1.4	5
372	A Cooperative Approach to Sensor Localisation in Distributed Fusion Networks. IEEE Transactions on Signal Processing, 2016, 64, 1187-1199.	3.2	33
373	Consensus-Based Distributed Mixture Kalman Filter for Maneuvering Target Tracking in Wireless Sensor Networks. IEEE Transactions on Vehicular Technology, 2016, 65, 8669-8681.	3.9	35
374	Toward Automatic Model Comparison: An Adaptive Sequential Monte Carlo Approach. Journal of Computational and Graphical Statistics, 2016, 25, 701-726.	0.9	60
375	Particle Approximations of the Score and Observed Information Matrix for Parameter Estimation in State–Space Models With Linear Computational Cost. Journal of Computational and Graphical Statistics, 2016, 25, 1138-1157.	0.9	12

#	ARTICLE	IF	CITATIONS
376	Fundamental Frequency Estimation in Speech Signals With Variable Rate Particle Filters. IEEE/ACM Transactions on Audio Speech and Language Processing, 2016, 24, 890-900.	4.0	9
377	Langevin and Hamiltonian Based Sequential MCMC for Efficient Bayesian Filtering in High-Dimensional Spaces. IEEE Journal on Selected Topics in Signal Processing, 2016, 10, 312-327.	7.3	41
378	Time-evolving O-D matrix estimation using high-speed GPS data streams. Expert Systems With Applications, 2016, 44, 275-288.	4.4	64
379	Novel Simplex Kalman Filters. Circuits, Systems, and Signal Processing, 2017, 36, 879-893.	1.2	4
380	Robust particle filter formulations with application to terrainâ€aided navigation. International Journal of Adaptive Control and Signal Processing, 2017, 31, 608-651.	2.3	47
381	Particle filtering and marginalization for parameter identification in structural systems. Structural Control and Health Monitoring, 2017, 24, e1874.	1.9	24
382	On robust input design for nonlinear dynamical models. Automatica, 2017, 77, 268-278.	3.0	4
383	Reconstruction of Angular Kinematics From Wrist-Worn Inertial Sensor Data for Smart Home Healthcare. IEEE Access, 2017, 5, 2351-2363.	2.6	27
384	Inertial and time-of-arrival ranging sensor fusion. Gait and Posture, 2017, 54, 1-7.	0.6	10
385	A noncontact positioning measuring system based on distributed wireless networks. Peer-to-Peer Networking and Applications, 2017, 10, 823-832.	2.6	4
386	A Particle Filter Approach for Identifying Tire Model Parameters From Full-Scale Experimental Tests. Journal of Mechanical Design, Transactions of the ASME, 2017, 139, .	1.7	10
387	Observation bootstrapping CDK-GMPHD filter based on consensus fusion strategy. Optik, 2017, 136, 301-311.	1.4	5
388	Bayesian inference for time-varying applications: Particle-based Gaussian process approaches. Neurocomputing, 2017, 238, 351-364.	3.5	2
389	Intelligent Interactive Displays in Vehicles with Intent Prediction: A Bayesian framework. IEEE Signal Processing Magazine, 2017, 34, 82-94.	4.6	34
390	Sequential Monte Carlo Instant Radiosity. IEEE Transactions on Visualization and Computer Graphics, 2017, 23, 1442-1453.	2.9	4
391	Efficient particle-based online smoothing in general hidden Markov models: The PaRIS algorithm. Bernoulli, 2017, 23, .	0.7	31
392	Kalman Filter, Particle Filter and Other Bayesian Filters. Signals and Communication Technology, 2017, , 3-148.	0.4	2
393	Improving temperature predictions for Li-ion batteries: data assimilation with a stochastic extension of a physically-based, thermo-electrochemical model. Journal of Energy Storage, 2017, 12, 288-296.	3.9	9

#	ARTICLE	IF	CITATIONS
394	Modeling the Dynamics of Learning Activity on the Web. , 2017, , .		22
395	Residual and stratified branching particle filters. Computational Statistics and Data Analysis, 2017, 111, 145-165.	0.7	11
396	Estimating the competitive storage model: A simulated likelihood approach. Econometrics and Statistics, 2017, 4, 39-56.	0.4	3
397	Adapting the Number of Particles in Sequential Monte Carlo Methods Through an Online Scheme for Convergence Assessment. IEEE Transactions on Signal Processing, 2017, 65, 1781-1794.	3.2	46
398	Adaptive kernels in approximate filtering of state–space models. International Journal of Adaptive Control and Signal Processing, 2017, 31, 938-952.	2.3	1
399	Multiparameter estimation along quantum trajectories with sequential Monte Carlo methods. Physical Review A, 2017, 96, .	1.0	13
400	Reflected Stochastic Differential Equation Models for Constrained Animal Movement. Journal of Agricultural, Biological, and Environmental Statistics, 2017, 22, 353-372.	0.7	13
401	Particle Filtering for Joint Symbol Detection, Frequency Offset and Channel Estimation in Time-Varying MIMO Channels with Multiple Frequency Offsets. Wireless Personal Communications, 2017, 96, 1277-1298.	1.8	0
402	Cooperative robotic networks for underwater surveillance: an overview. IET Radar, Sonar and Navigation, 2017, 11, 1740-1761.	0.9	104
403	Are PLLs dead? A tutorial on kalman filter-based techniques for digital carrier synchronization. IEEE Aerospace and Electronic Systems Magazine, 2017, 32, 28-45.	2.3	53
404	Maximum correntropy unscented Kalman and information filters for non-Gaussian measurement noise. Journal of the Franklin Institute, 2017, 354, 8659-8677.	1.9	124
405	Target motion analysis with unknown measurement noise variance. , 2017, , .		3
406	Stochastic Forecasting of Vehicle Dynamics Using Sequential Monte Carlo Simulation. IEEE Transactions on Intelligent Vehicles, 2017, , 1-1.	9.4	16
407	Asymmetric Price Adjustment in the US Gasoline Industry: Evidence from Bayesian Threshold Dynamic Panel Data Models. International Journal of the Economics of Business, 2017, 24, 91-128.	1.0	11
408	An online Bayesian filtering framework for Gaussian process regression: Application to global surface temperature analysis. Expert Systems With Applications, 2017, 67, 285-295.	4.4	21
409	Review of Nonlinear Filtering for SHM with an Exploration of Novel Higher-Order Kalman Filtering Algorithms for Uncertainty Quantification. Journal of Engineering Mechanics - ASCE, 2017, 143, 04017128.	1.6	18
410	Combining KLD-sampling with Gmapping proposal for grid-based Monte Carlo localization of a moving robot. , 2017, , .		2
411	A minimum mass nebula for M dwarfs. Monthly Notices of the Royal Astronomical Society: Letters, 2017, 470, L1-L5.	1.2	38

#	Article	IF	Citations
412	Fault detection in airliner electro-mechanical actuators via hybrid particle filtering. IFAC-PapersOnLine, 2017, 50, 2860-2865.	0.5	17
413	Uniform convergence over time of a nested particle filtering scheme for recursive parameter estimation in state-space Markov models. Advances in Applied Probability, 2017, 49, 1170-1200.	0.4	8
414	Dynamic Time-of-Flight. , 2017, , .		8
415	A Seamless Multilevel Ensemble Transform Particle Filter. SIAM Journal of Scientific Computing, 2017, 39, A2684-A2701.	1.3	7
416	Distributed particle filtering under real-time constraints. , 2017, , .		0
417	A statistical approach to dynamic load modelling and identification with high frequency measurements. , 2017, , .		1
418	An improved resampling approach for particle filters in tracking. , 2017, , .		7
419	Nonlinear event-based state estimation using sequential Monte Carlo approach. , 2017, , .		0
420	Identification of a thermal building model by learning the dynamics of the solar flux. , 2017, , .		0
421	A likelihood-free particle filter for multi-obiect tracking. , 2017, , .		5
422	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.	1.5	58
423	A Survey of Recent Advances in Particle Filters and Remaining Challenges for Multitarget Tracking. Sensors, 2017, 17, 2707.	2.1	110
424	On the Performance of Online Parameter Estimation Algorithms in Systems with Various Identifiability Properties. Frontiers in Built Environment, 2017, 3, .	1.2	10
425	Spectrum sharing between radar and communication systems: Can the privacy of the radar be preserved?. , 2017, , .		9
426	A comparison of Monte Carlo-based Bayesian parameter estimation methods for stochastic models of genetic networks. PLoS ONE, 2017, 12, e0182015.	1.1	6
427	Particle filter-based prognostic approach for high-speed shaft bearing wind turbine progressive degradations. , 2017, , .		11
428	AUV active perception: Exploiting the water column. , 2017, , .		10
429	Effcient Sequential Monte-Carlo Samplers for Bayesian Inference. SSRN Electronic Journal, 0, , .	0.4	1

#	Article	IF	Citations
430	Particle Filtering and Sensor Fusion for Robust Heart Rate Monitoring Using Wearable Sensors. IEEE Journal of Biomedical and Health Informatics, 2018, 22, 1834-1846.	3.9	48
431	Feedback Particle Filter With Data-Driven Gain-Function Approximation. IEEE Transactions on Aerospace and Electronic Systems, 2018, 54, 2118-2130.	2.6	5
432	An integrated wind turbine failures prognostic approach implementing Kalman smoother with confidence bounds. Applied Acoustics, 2018, 138, 199-208.	1.7	37
433	Multidimensional directional steerable filters â€" Theory and application to 3D flow estimation. Image and Vision Computing, 2018, 71, 38-67.	2.7	3
434	Trading Utility for Privacy in Shared Spectrum Access Systems. IEEE/ACM Transactions on Networking, 2018, 26, 259-273.	2.6	20
435	Hardware Implementation of an Event-Based Message Passing Graphical Model Network. IEEE Transactions on Circuits and Systems I: Regular Papers, 2018, 65, 2739-2752.	3.5	0
436	Estimating Parameters of Nonlinear Systems Using the Elitist Particle Filter Based on Evolutionary Strategies. IEEE/ACM Transactions on Audio Speech and Language Processing, 2018, 26, 595-608.	4.0	12
437	Latent Parameter Estimation in Fusion Networks Using Separable Likelihoods. IEEE Transactions on Signal and Information Processing Over Networks, 2018, 4, 752-768.	1.6	10
438	Nested particle filters for online parameter estimation in discrete-time state-space Markov models. Bernoulli, 2018, 24, .	0.7	45
439	Coupling stochastic EM and approximate Bayesian computation for parameter inference in state-space models. Computational Statistics, 2018, 33, 179-212.	0.8	8
440	Waitingâ€time estimation in walkâ€in clinics. International Transactions in Operational Research, 2018, 25, 51-74.	1.8	3
441	Analysis of a nonlinear importance sampling scheme for Bayesian parameter estimation in state-space models. Signal Processing, 2018, 142, 281-291.	2.1	12
442	Sequential state inference of engineering systems through the particle move-reweighting algorithm. Computational and Applied Mathematics, 2018, 37, 220-236.	1.3	3
443	Improved distributed particle filters for tracking in a wireless sensor network. Computational Statistics and Data Analysis, 2018, 117, 90-108.	0.7	19
444	Marginalized approximate filtering of stateâ€space models. International Journal of Adaptive Control and Signal Processing, 2018, 32, 1-12.	2.3	3
445	Remaining useful life assessment of lithium-ion batteries in implantable medical devices. Journal of Power Sources, 2018, 375, 118-130.	4.0	76
446	Probabilistic learning of nonlinear dynamical systems using sequential Monte Carlo. Mechanical Systems and Signal Processing, 2018, 104, 866-883.	4.4	22
447	Measurement variance ignorant target motion analysis. Information Fusion, 2018, 43, 27-32.	11.7	5

#	Article	IF	Citations
448	Direct Target Tracking by Distributed Gaussian Particle Filtering Based on Delay and Doppler. , 2018, , .		9
449	Parameter Learning and Change Detection Using a Particle Filter With Accelerated Adaptation. SSRN Electronic Journal, 0, , .	0.4	0
450	Walk on the Wild Side: Multiplicative Sunspots and Temporarily Unstable Paths. SSRN Electronic Journal, 0, , .	0.4	2
451	A Particle Filter Localisation System for Indoor Track Cycling Using an Intrinsic Coordinate Model. , 2018, , .		1
452	Intention Estimation Using Set of Reference Trajectories as Behaviour Model. Sensors, 2018, 18, 4423.	2.1	7
453	On the performance of parallelisation schemes for particle filtering. Eurasip Journal on Advances in Signal Processing, 2018, 2018, .	1.0	4
454	Improving the particle filter in high dimensions using conjugate artificial process noise. IFAC-PapersOnLine, 2018, 51, 670-675.	0.5	6
455	Hybrid Particle Filtering Based on an Elitist Resampling Scheme. , 2018, , .		3
456	The Pc metric: A safety performance measure for evaluation of collision avoidance algorithms. , 2018, , .		1
457	Particle Filtering and Inference for Limit Order Books in High Frequency Finance. , 2018, , .		1
458	Random Finite Set Based Parameter Estimation Algorithm for Identifying Stochastic Systems. Entropy, 2018, 20, 569.	1.1	1
459	Study on Maneuvering Target On-axis Tracking Algorithm of Modified Current Statistical Model. MATEC Web of Conferences, 2018, 160, 02008.	0.1	1
460	A Meta-Tracking Approach for Predicting the Driver or Passenger Intent. , 2018, , .		3
461	The P_c metric: A performance measure for collision avoidance algorithms. Robotics and Autonomous Systems, 2018, 109, 125-138.	3.0	4
462	Distributed Kalman filter based on Metropolis–Hastings sampling strategy. Machine Vision and Applications, 2018, 29, 1033-1040.	1.7	2
463	Nonlinear Filter. Information Fusion and Data Science, 2018, , 7-22.	0.3	0
464	A new particle filtering approach to estimate stochastic volatility models with Markov-switching. Econometrics and Statistics, 2018, 8, 204-230.	0.4	6
465	Distributed Kalman and Particle Filtering. , 2018, , 169-207.		5

#	Article	IF	Citations
466	The research of radar target tracking observed information linear filter method. AIP Conference Proceedings, 2018, , .	0.3	0
467	Sequential Monte Carlo Method Toward Online RUL Assessment with Applications. Chinese Journal of Mechanical Engineering (English Edition), 2018, 31, .	1.9	6
468	A Modularized Efficient Framework for Non-Markov Time Series Estimation. IEEE Transactions on Signal Processing, 2018, 66, 3140-3154.	3.2	7
469	Secure Control Under Linear Temporal Logic Constraints. , 2018, , .		4
470	A Sequential Estimation Algorithm of Particle Filters by Combination of Multiple Independent Features in Evidence. International Journal of Control, Automation and Systems, 2018, 16, 1263-1270.	1.6	3
471	Finite Gaussian Mixture Approximations to Analytically Intractable Density Kernels. Computational Economics, 2019, 53, 991-1017.	1.5	1
472	Robust Bayesian Pitch Tracking Based on the Harmonic Model. IEEE/ACM Transactions on Audio Speech and Language Processing, 2019, 27, 1737-1751.	4.0	28
473	Range-Only Single-Beacon Tracking of Underwater Targets From an Autonomous Vehicle: From Theory to Practice. IEEE Access, 2019, 7, 86946-86963.	2.6	14
474	Trajectory Data Classification. ACM Transactions on Intelligent Systems and Technology, 2019, 10, 1-34.	2.9	29
475	A Bayesian Framework for Intent Prediction in Object Tracking. , 2019, , .		4
476	Sequential Monte Carlo based parameter estimation for structural health monitoring with an Intel Xeon Phi optimized ultrasound kernel. AIP Conference Proceedings, 2019, , .	0.3	0
477	Unsupervised Learning Grouping-Based Resampling for Particle Filters. IEEE Access, 2019, 7, 127265-127275.	2.6	1
478	Estimation of State-Space Models with Gaussian Mixture Process Noise. , 2019, , .		2
479	Bayesian Fusion of Asynchronous Inertial, Speed and Position Data for Object Tracking. , 2019, , .		0
480	Attitude determination method integrating square-root cubature Kalman filter with expectation-maximization for inertial navigation system applied to underwater glider. Review of Scientific Instruments, 2019, 90, 095001.	0.6	18
481	CUbE: A Research Platform for Shared Mobility and Autonomous Driving in Urban Environments. , 2019, , .		2
482	Oxygen data assimilation for estimating micro-organism communitiesâ€™ parameters in river systems. Water Research, 2019, 165, 115021.	5.3	10
483	Robust target motion analysis using the possibility particle filter. IET Radar, Sonar and Navigation, 2019, 13, 18-22.	0.9	19

#	Article	IF	Citations
484	Î´-Generalized Labeled Multi-Bernoulli Simultaneous Localization and Mapping with an Optimal Kernel-Based Particle Filtering Approach. Sensors, 2019, 19, 2290.	2.1	16
485	Long short-term memory-based recurrent neural networks for nonlinear target tracking. Signal Processing, 2019, 164, 67-73.	2.1	26
486	Coordinated Bayesian-Based Bioinspired Plume Source Term Estimation and Source Seeking for Mobile Robots. IEEE Transactions on Robotics, 2019, 35, 967-986.	7.3	39
487	An Iterative Method Based on the Marginalized Particle Filter for Nonlinear B-Spline Data Approximation and Trajectory Optimization. Mathematics, 2019, 7, 355.	1.1	1
488	Neural Networks Sequential Training Using Variational Gaussian Particle Filter. , 2019, , .		2
489	Particle filtering with adaptive resampling scheme for modal frequency identification and dispersion curves estimation in ocean acoustics. Applied Acoustics, 2019, 154, 90-98.	1.7	21
490	Particle Filtering: the First 25 Years and beyond. , 2019, , .		16
491	An EM-based multipath interference mitigation in GNSS receivers. Signal Processing, 2019, 162, 141-152.	2.1	13
492	Walk on the Wild Side: Temporarily Unstable Paths and Multiplicative Sunspots. American Economic Review, 2019, 109, 1805-1842.	4.0	15
493	Tempered particle filtering. Journal of Econometrics, 2019, 210, 26-44.	3.5	24
494	The Gibbs sampler with particle efficient importance sampling for state-space models*. Econometric Reviews, 2019, 38, 1152-1175.	0.5	8
496	Continuous Driverâ€™s Gaze Zone Estimation Using RGB-D Camera. Sensors, 2019, 19, 1287.	2.1	25
497	An Improved Resampling Scheme for Particle Filtering in Inertial Navigation System. Lecture Notes in Computer Science, 2019, , 555-563.	1.0	2
498	Sequential Monte Carlo for on-line parameter estimation of a lumped building energy model. Energy and Buildings, 2019, 187, 86-94.	3.1	29
499	An information aware event-triggered scheme for particle filter based remote state estimation. Automatica, 2019, 103, 151-158.	3.0	37
500	Combined Visual and Touch-based Sensing for the Autonomous Registration of Objects with Circular Features. , 2019, , .		2
501	Analysis of Uncertainty Quantification Techniques for Vehicle Capability in Damaged Composite Aircraft. , 2019, , .		1
502	The LÃ©vy State Space Model. , 2019, , .		4

#	Article	IF	Citations
503	Elucidating the Auxiliary Particle Filter via Multiple Importance Sampling [Lecture Notes]. IEEE Signal Processing Magazine, 2019, 36, 145-152.	4.6	26
504	Algorithms and programs of suboptimal nonlinear filtering for Markov processes. AIP Conference Proceedings, 2019, , .	0.3	4
505	Map matching when the map is wrong. , 2019, , .		6
506	Towards Robust Data-Driven Parallel Loop Scheduling Using Bayesian Optimization. , 2019, , .		1
507	RevCuT Tree Search Method in Complex Single-player Game with Continuous Search Space. , 2019, , .		0
508	Big Data in Power Systems: An Introduction to Julia Linear Models using Tensor Flow. , 2019, , .		0
510	Synthetic baseline navigation using phase-coherent acoustic communication signals. Journal of the Acoustical Society of America, 2019, 146, 4831-4841.	0.5	6
511	Online Sparse Multi-Output Gaussian Process Regression and Learning. IEEE Transactions on Signal and Information Processing Over Networks, 2019, 5, 258-272.	1.6	16
512	A Novel Polynomial-Chaos-Based Kalman Filter. IEEE Signal Processing Letters, 2019, 26, 9-13.	2.1	13
513	KLD sampling with Gmapping proposal for Monte Carlo localization of mobile robots. Information Fusion, 2019, 49, 79-88.	11.7	26
514	Likelihood-free stochastic approximation EM for inference in complex models. Communications in Statistics Part B: Simulation and Computation, 2019, 48, 861-881.	0.6	1
515	Experimental Evaluation of the Stimuli-Induced Equilibrium Point Concept for Automatic Ramp Merging Systems. IEEE Transactions on Intelligent Transportation Systems, 2020, 21, 815-827.	4.7	5
516	Optimal Secure Control With Linear Temporal Logic Constraints. IEEE Transactions on Automatic Control, 2020, 65, 2434-2449.	3.6	11
517	Surface generation modeling of micro milling process with stochastic tool wear. Precision Engineering, 2020, 61, 170-181.	1.8	43
518	Efficient inference in state-space models through adaptive learning in online Monte Carlo expectation maximization. Computational Statistics, 2020, 35, 1319-1344.	0.8	0
519	A multivariate evolutionary generalised linear model framework with adaptive estimation for claims reserving. Insurance: Mathematics and Economics, 2020, 93, 50-71.	0.7	4
520	Fatigue life prediction of GFRP laminates using averaged Bayesian predictive distribution and Lamb wave velocity. Composites Science and Technology, 2020, 196, 108213.	3.8	9
521	$alpha$ -Stable Lévy State-space Models for Manoeuvring Object Tracking. , 2020, , .		2

#	Article	IF	Citations
522	Mobile robotic platforms for the acoustic tracking of deep-sea demersal fishery resources. Science Robotics, 2020, 5, .	9.9	33
523	Implementation Of underwater target tracking techniques for Gaussian and non-Gaussian environments. Computers and Electrical Engineering, 2020, 87, 106783.	3.0	15
524	Optimum Kernel Particle Filter for Asymmetric Laplace Noise. , 2020, , .		1
525	Inference on high-dimensional implicit dynamic models using a guided intermediate resampling filter. Statistics and Computing, 2020, 30, 1497-1522.	0.8	4
526	Robust, Locally Guided Peg-in-Hole using Impedance-Controlled Robots. , 2020, , .		4
527	Bayesian state estimation in the presence of slow-rate integrated measurement. International Journal of Systems Science, 2020, 51, 3081-3097.	3.7	3
528	Dynamic estimation of auditory temporal response functions via state-space models with Gaussian mixture process noise. PLoS Computational Biology, 2020, 16, e1008172.	1.5	7
529	Distributed multi-target tracking over an asynchronous multi-sensor network. , 2020, , .		5
530	Sequential Bayesian parameter estimation of stochastic dynamic load models. Electric Power Systems Research, 2020, 189, 106606.	2.1	0
531	The Discriminative Kalman Filter for Bayesian Filtering with Nonlinear and Nongaussian Observation Models. Neural Computation, 2020, 32, 969-1017.	1.3	13
532	Two-stage particle filtering for non-Gaussian state estimation with fading measurements. Automatica, 2020, 115, 108882.	3.0	24
533	Direct Target Tracking by Distributed Gaussian Particle Filtering for Heterogeneous Networks. IEEE Transactions on Signal Processing, 2020, 68, 1361-1373.	3.2	18
534	Tracking of a Gunning Jet Using Particle Filtering in Infrared Image Sequences. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 6101-6111.	2.4	3
535	Robust Particle Filtering With Time-Varying Model Uncertainty and Inaccurate Noise Covariance Matrix. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 7099-7108.	5.9	9
536	A numerical filtering method for linear state–space models with Markov switching. International Journal of Adaptive Control and Signal Processing, 2020, 34, 813-838.	2.3	2
537	A Rao-Blackwellized Particle Filter With Variational Inference for State Estimation With Measurement Model Uncertainties. IEEE Access, 2020, 8, 55665-55675.	2.6	6
538	An algorithm for non-parametric estimation in state–space models. Computational Statistics and Data Analysis, 2021, 153, 107062.	0.7	9
539	Heterogeneous Sensor-Based Target Tracking With Constant Time Delay. International Journal of Aeronautical and Space Sciences, 2021, 22, 186-194.	1.0	2

#	ARTICLE	IF	CITATIONS
540	ADOpy: a python package for adaptive design optimization. Behavior Research Methods, 2021, 53, 874-897.	2.3	10
541	Modified Continuous-Time Particle Filter Algorithm Without Overflow Errors. Smart Innovation, Systems and Technologies, 2021, , 245-257.	0.5	1
542	Estimating Quasiperiodic Disturbance With Unknown Frequency via Expectation–Maximization. IEEE Transactions on Cybernetics, 2022, 52, 6843-6856.	6.2	3
543	Particle Filters. , 2021, , 1667-1674.		0
544	Sequential Inference Methods for Non-Homogeneous Poisson Processes With State-Space Prior. IEEE Transactions on Signal Processing, 2021, 69, 1154-1168.	3.2	1
545	DeepPIRATES: A Training-Light PIR-Based Localization Method With High Generalization Ability. IEEE Access, 2021, 9, 86054-86061.	2.6	4
546	Accounting for social media effects to improve the accuracy of infection models: combatting the COVID-19 pandemic and infodemic. European Journal of Information Systems, 2021, 30, 342-355.	5.5	20
547	Towards Autonomous Robotic Assembly: Using Combined Visual and Tactile Sensing for Adaptive Task Execution. Journal of Intelligent and Robotic Systems: Theory and Applications, 2021, 101, 1.	2.0	8
548	A Kalman particle filter for online parameter estimation with applications to affine models. Statistical Inference for Stochastic Processes, 2021, 24, 353-403.	0.4	2
549	Robust particle filtering with enhanced outlier resilience and real-time disturbance compensation. Journal of the Franklin Institute, 2021, 358, 2872-2893.	1.9	4
550	Analyzing Commodity Futures Using Factor State-Space Models with Wishart Stochastic Volatility. Econometrics and Statistics, 2022, 23, 105-127.	0.4	1
551	An Novel Method for Object Tracking in Sensor Network Combination with Trilateration and UT Transform. Journal of Physics: Conference Series, 2021, 1894, 012020.	0.3	0
552	A novel adaptive resampling for sequential Bayesian filtering to improve frequency estimation of time-varying signals. Heliyon, 2021, 7, e06768.	1.4	7
553	Modified spectral method for optimal estimation in linear continuous-time stochastic systems. Journal of Physics: Conference Series, 2021, 1864, 012025.	0.3	1
554	Sequential Parameter Estimation of Modal Dispersion Curves with an Adaptive Particle Filter in Shallow Water: Experimental Results. Remote Sensing, 2021, 13, 2387.	1.8	1
555	Centered error entropy Kalman filter with application to satellite attitude determination. Transactions of the Institute of Measurement and Control, 2021, 43, 3055-3070.	1.1	12
556	Power-Aware Heart Rate Monitoring using Particle Filters. , 2021, , .		0
557	Distributed maximum correntropy unscented Kalman filtering with state equality constraints. International Journal of Robust and Nonlinear Control, 2021, 31, 7053-7071.	2.1	9

#	ARTICLE	IF	CITATIONS
558	Three-Dimensional Submarine-to-Submarine Passive Target Tracking in the Presence of Non-Gaussian Noises. International Journal of E-Collaboration, 2021, 17, 1-24.	0.4	6
559	Weight Optimization-Based Particle Filter Algorithm for Degradation Modeling and Residual Life Prediction. , 2022, , 193-211.		0
560	Piecewise-linear approximations and filtering for DSGE models with occasionally-binding constraints. Review of Economic Dynamics, 2021, 41, 96-120.	0.7	18
561	Variational Bayesian Inference for Pairwise Markov Models. , 2021, , .		0
562	Making inference of British household's happiness efficiency: A Bayesian latent model. European Journal of Operational Research, 2021, 294, 312-326.	3.5	0
563	Sequential Bayesian inference of transition rates in the hidden Markov model for multi-state system degradation. Reliability Engineering and System Safety, 2021, 214, 107662.	5.1	15
564	Sampling methods for solving Bayesian model updating problems: A tutorial. Mechanical Systems and Signal Processing, 2021, 159, 107760.	4.4	51
565	Sequential Solution for General State-Space Model. , 2021, , 219-275.		0
566	Particle Filters: A Hands-On Tutorial. Sensors, 2021, 21, 438.	2.1	66
567	Robust Particle Filtering With State Transition Uncertainties: A Student's t Disturbance Observer-Based Approach. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-13.	2.4	2
571	An Incremental Probabilistic Model to Predict Bus Bunching in Real-Time. Lecture Notes in Computer Science, 2014, , 227-238.	1.0	16
572	Stabilising Touch Interactions in Cockpits, Aerospace, and Vibrating Environments. Lecture Notes in Computer Science, 2018, , 133-145.	1.0	1
573	Nonlinear Bayesian Filters for Training Recurrent Neural Networks. Lecture Notes in Computer Science, 2008, , 12-33.	1.0	10
574	Three Dimensional Monocular Human Motion Analysis in End-Effector Space. Lecture Notes in Computer Science, 2009, , 235-248.	1.0	7
575	Gaussian-Like Spatial Priors for Articulated Tracking. Lecture Notes in Computer Science, 2010, , 425-437.	1.0	24
577	Unscented Kalman Filtering for Articulated Human Tracking. Lecture Notes in Computer Science, 2011, , 228-237.	1.0	14
578	Graph Matching via Sequential Monte Carlo. Lecture Notes in Computer Science, 2012, , 624-637.	1.0	25
579	State Space Modeling of Neural Spike Train and Behavioral Data. , 2010, , 175-218.		15

#	ARTICLE	IF	CITATIONS
580	Forward–backward particle smoother for non–linear systems with one–step random measurement delay. IET Signal Processing, 2018, 12, 836-843.	0.9	4
581	Particle Learning for Sequential Bayesian Computation*. , 2011, , 317-360.		15
583	Exact Inference in Discontinuous Firing Rate Estimation Using Belief Propagation. Journal of the Physical Society of Japan, 2009, 78, 064003.	0.7	11
584	From relative azimuth to absolute location. , 2020, , .		17
585	An Improved Unscented Particle Filter with Global Sampling Strategy. Journal of Computational Engineering, 2014, 2014, 1-6.	0.8	5
586	Sequential Monte Carlo Samplers with Independent Markov Chain Monte Carlo Proposals. Bayesian Analysis, 2019, 14, .	1.6	22
587	A Robust Unscented Kalman Filter for Nonlinear Dynamical Systems with Colored Noise. Journal of Automation and Control Engineering, 2014, 2, 310-315.	0.3	7
588	Likelihood-free nested sampling for parameter inference of biochemical reaction networks. PLoS Computational Biology, 2020, 16, e1008264.	1.5	10
589	Diffusion of Lexical Change in Social Media. PLoS ONE, 2014, 9, e113114.	1.1	138
590	Using maximum cross section method for filtering jump-diffusion random processes. Russian Journal of Numerical Analysis and Mathematical Modelling, 2020, 35, 55-67.	0.2	7
591	State Feedback Control using Particle Filter. IEEJ Transactions on Electronics, Information and Systems, 2013, 133, 1376-1383.	0.1	3
592	Persistent Monitoring of Stochastic Spatio-temporal Phenomena with a Small Team of Robots. , 0, , .		14
593	The Empirical Implications of the Interest-Rate Lower Bound. Finance and Economics Discussion Series, 2016, 2016, 1-47.	0.2	9
594	A Bayesian Analysis of Unobserved Component Models Using<i>Ox</i>. Journal of Statistical Software, 2011, 41, .	1.8	4
595	vSMC: Parallel Sequential Monte Carlo in<i>C++</i>. Journal of Statistical Software, 2014, 62, .	1.8	4
596	Statistical Inference for Partially Observed Markov Processes via the<i>R</i>Packagepomp. Journal of Statistical Software, 2016, 69, .	1.8	173
597	Efficient Filtering in State-Space Representations. SSRN Electronic Journal, 0, , .	0.4	2
598	Effi cient Likelihood Evaluation of State-Space Representations. SSRN Electronic Journal, 0, , .	0.4	4

#	ARTICLE	IF	CITATIONS
599	Nonparametric Bayesian Volatility Learning Under Microstructure Noise. SSRN Electronic Journal, 0, , .	0.4	4
600	A review of tree-based Bayesian methods. Communications for Statistical Applications and Methods, 2017, 24, 543-559.	0.1	22
602	APPLYING THE FILTEING ALGORITHM WITH PARTICLE RESIDUAL CONSISTENCY MEASURE TO BEARINGS ONLY PASSIVE TRACKING. Hongwai Yu Haomibo Xuebao/Journal of Infrared and Millimeter Waves, 2010, 29, 75-80.	0.2	1
603	A Rao-Blackwellized particle filter for joint parameter estimation and biomass tracking in a stochastic predator-prey system. Mathematical Biosciences and Engineering, 2014, 11, 573-597.	1.0	8
604	Prognostics Design for Structural Health Management. Advances in Civil and Industrial Engineering Book Series, 2015, , 234-273.	0.2	3
605	Maneuvering Multi-target Tracking Algorithm Based on Modified Generalized Probabilistic Data Association. Engineering, 2011, 03, 1155-1160.	0.4	1
606	Coupling the SAEM algorithm and the extended Kalman filter for maximum likelihood estimation in mixed-effects diffusion models. Statistics and Its Interface, 2013, 6, 519-532.	0.2	24
609	Earthquake forecasting based on data assimilation: sequential Monte Carlo methods for renewal point processes. Nonlinear Processes in Geophysics, 2011, 18, 49-70.	0.6	23
610	Probabilistic adaptation in changing microbial environments. PeerJ, 2016, 4, e2716.	0.9	24
611	A marginalised particle filter with variational inference for nonâ€linear stateâ€space models with Gaussian mixture noise. IET Radar, Sonar and Navigation, 0, , .	0.9	0
612	Variational Bayesian Kalman filter using natural gradient. Chinese Journal of Aeronautics, 2022, 35, 1-10.	2.8	2
614	Advances in Approximate Bayesian Computation and Trans-Dimensional Sampling Methodology. SSRN Electronic Journal, 0, , .	0.4	0
615	Apport de la convolution non linÃ©aire Ã la caractÃ©risation de l'endommagement des matÃ©riaux hÃ©tÃ©rogÃ¨nes en rÃ©sonance. Instrumentation Mesure Metrologie, 2010, 10, 175-194.	0.2	0
616	Gaussian Particle JPDA Filter Based Multi-target Tracking. Dianzi Yu Xinxi Xuebao/Journal of Electronics and Information Technology, 2010, 32, 2686-2690.	0.1	0
617	ãƒ‘ãƒ¼ãƒ†ã‚£ã‚¯ãƒ«ãƒ•ã‚£ãƒ«ã‚¿ã‚’ç‰©ä½“è¿½è·¡ã«å¿œç”¨. Journal of the Robotics Society of Japan, 2011, 29, 407-430.	0.0	0
618	Research on Dynamic Human Object Tracking Algorithm. Lecture Notes in Computer Science, 2011, , 202-209.	1.0	0
619	Particle Filter Algorithm Based on Statistical Linear Regression. Dianzi Yu Xinxi Xuebao/Journal of Electronics and Information Technology, 2011, 30, 1905-1908.	0.1	0
620	Channel Fault Tolerant Target Tracking in Multi-hop Wireless Sensor Networks Based on Particle Filtering. Zidonghua Xuebao/Acta Automatica Sinica, 2011, 37, 440-448.	0.3	0

#	ARTICLE	IF	CITATIONS
621	Particle Filter with Hybrid Proposal Distribution for Nonlinear State Estimation. Journal of Computers, 2011, 6, .	0.4	6
622	GPU Accelerated Likelihoods for Stereo-Based Articulated Tracking. Lecture Notes in Computer Science, 2012, , 359-371.	1.0	2
623	Disparity Map Based Procedure for Collision-Free Guidance through Unknown Environments. Lecture Notes in Computer Science, 2012, , 565-572.	1.0	0
626	Research on Tracking Filters Algorithm in Waveform Selection Application. Communications in Computer and Information Science, 2013, , 384-396.	0.4	0
627	A Sequential Monte Carlo Approach for Brain Source Localization. Studies in Computational Intelligence, 2013, , 119-138.	0.7	0
628	Multiple Model Particle Filter with Correlated Measurement and Process Noise. Journal of Information and Computational Science, 2013, 10, 1179-1186.	0.1	0
629	A Kind of Truncated Particle Filter. Information Technology Journal, 2013, 12, 847-851.	0.3	3
630	Rao-Blackwellised Extended Kalman Filter with Correlated Noises. Journal of Information and Computational Science, 2013, 10, 3117-3124.	0.1	0
631	Time-Series Forecast with Adaptive Feedback Controlled Predictor. Universal Journal of Computational Mathematics, 2013, 1, 47-55.	0.1	1
632	Robust Adaptive Central Difference Particle Filter. International Journal of Robotics Applications and Technologies, 2014, 2, 19-34.	0.4	0
633	On Predicting a Call Centerâ€™s Workload: A Discretization-Based Approach. Lecture Notes in Computer Science, 2014, , 548-553.	1.0	1
635	Predicting Extinction of Biological Systems with Competition. , 2015, , 455-466.		0
636	Analysis of Estimation Techniques for Feature Based Navigation of Unmanned Air Vehicles. Advances in Intelligent Systems and Computing, 2015, , 631-640.	0.5	0
637	Two Second-Order Nonlinear Extended Kalman Particle Filter Algorithms. Open Journal of Statistics, 2015, 05, 254-261.	0.3	0
638	Robuste ZustandsschÃ¤tzung komplexer Systeme. , 2015, , 303-365.		0
639	On the Origins of Imperfection and Apparent Non-rationality. Studies in Computational Intelligence, 2015, , 55-89.	0.7	0
640	A Particle Filter Approach for Identifying Tyre Model Parameters From Full-Scale Experimental Tests. , 2015, , .		1
641	Real-Time Joint Channel and Hyperparameter Estimation Using Sequential Monte Carlo Methods for OFDM Mobile Communications. IEICE Transactions on Communications, 2016, E99.B, 1655-1668.	0.4	0

#	Article	IF	Citations
643	Tempered Particle Filtering. SSRN Electronic Journal, 0, , .	0.4	1
644	Auto-adjust lag particle filter smoothing algorithm for non-linear state estimation. Wuli Xuebao/Acta Physica Sinica, 2016, 65, 040502.	0.2	1
645	Adaptive Importance Sampling from Finite State Automata. , 2016, , .		0
646	A New Approach to the Construction of the APF Algorithm by Applying the Pearson Curves Technique. Applied Mathematics and Information Sciences, 2016, 10, 833-840.	0.7	0
648	Development of State Estimation Filter Simulator Built on an Integrated GUI Framework. Journal of Advanced Computational Intelligence and Intelligent Informatics, 2016, 20, 721-729.	0.5	0
650	Local-loop Particle Filter Based on Artificial Fish Algorithm of Big Data. , 2018, , .		0
651	A Modified Particle Filter for Cooperative Positioning. Lecture Notes in Electrical Engineering, 2019, , 2711-2720.	0.3	0
652	Time-Dependent Reliability Analysis in Operation: Prognostics and Health Management. Springer Series in Reliability Engineering, 2019, , 233-301.	0.3	2
654	Application of the CIR Model for Spot Short Interest Rates Modelling on the Polish Market. Applied Condition Monitoring, 2020, , 185-203.	0.4	0
655	Nonlinear Kalman Filtering With Expensive Forward Models Via Measure Change. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2020, 142, .	0.9	0
656	Nonasymptotic Gaussian Approximation for Inference With Stable Noise. IEEE Transactions on Information Theory, 2020, 66, 4966-4991.	1.5	4
657	A Defensive Marginal Particle Filtering Method for Data Assimilation. SIAM-ASA Journal on Uncertainty Quantification, 2020, 8, 1215-1235.	1.1	1
658	Control Synthesis for Cyber-Physical Systems to Satisfy Metric Interval Temporal Logic Objectives under Timing and Actuator Attacks. , 2020, , .		4
659	Non-linear System Identification Using Hammerstein-Wiener Model for Hypothetical System. , 2021, , .		0
660	Estimating the Competitive Storage Model with Stochastic Trends in Commodity Prices. Econometrics, 2021, 9, 40.	0.5	3
661	Optimum Kernel Particle Filter for Asymmetric Laplace Noise in Multivariate Models. , 2020, , .		0
662	A Novel Adaptive Filter for Cooperative Localization Under Time-Varying Delay and Non-Gaussian Noise. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-15.	2.4	14
663	An adaptive cubature Kalman filter for nonlinear systems against randomly occurring injection attacks. Applied Mathematics and Computation, 2022, 418, 126834.	1.4	6

#	ARTICLE	IF	CITATIONS
664	DeepPIRATES: Enabling Deployment-Independent Supervised PIR-Based Localization. , 2020, , .		2
665	Pushing IoT Mobility Management to the Edge: Granting RPL Accurate Localization and Routing. , 2021, , .		4
666	Population Quasi-Monte Carlo. Journal of Computational and Graphical Statistics, 0, , 1-35.	0.9	0
667	SDMob: SDN-Based Mobility Management for IoT Networks. Journal of Sensor and Actuator Networks, 2022, 11, 8.	2.3	12
668	Automatic Tracking of Muscle Fiber Direction in Ultrasound Images Based on Improved Kalman Filter. Electronics (Switzerland), 2022, 11, 466.	1.8	0
669	Comparison of simulation-based algorithms for parameter estimation and state reconstruction in nonlinear state-space models. Discrete and Continuous Dynamical Systems - Series S, 2023, 16, 240-264.	0.6	1
670	Hysteretic parameters identification of RC frame structure with Takeda model based on modified CKF method. Bulletin of Earthquake Engineering, 2022, 20, 4673-4696.	2.3	1
671	A review of resampling techniques in particle filtering framework. Measurement: Journal of the International Measurement Confederation, 2022, 193, 110836.	2.5	30
672	Parameter Learning and Change Detection Using a Particle Filter with Accelerated Adaptation. Risks, 2021, 9, 228.	1.3	0
673	Hidden Buyer Identification in Darknet Markets via Dirichlet Hawkes Process. , 2021, , .		2
675	An Iterative Nonlinear Filter Based on Posterior Distribution Approximation via Penalized Kullback–Leibler Divergence Minimization. IEEE Signal Processing Letters, 2022, 29, 1137-1141.	2.1	2
677	ChevOpt: Continuous-Time State Estimation by Chebyshev Polynomial Optimization. IEEE Transactions on Signal Processing, 2022, 70, 3136-3147.	3.2	1
678	Position fixing with cold atom gravity gradiometers. AVS Quantum Science, 2022, 4, 024404.	1.8	4
679	Implementation of ensemble Kalman filter algorithm for underwater target tracking. Journal of Control and Decision, 0, , 1-10.	0.7	0
680	An Invitation to Sequential Monte Carlo Samplers. Journal of the American Statistical Association, 2022, 117, 1587-1600.	1.8	12
681	A Nearly-Black-Box Online Algorithm for Joint Parameter and State Estimation in Temporal Models. Proceedings of the AAAI Conference on Artificial Intelligence, 2017, 31, .	3.6	0
682	The Influence of Velocity Refresh in Sequential MCMC with the Invertible Particle Flow and Discrete Bouncy Particle Sampler. Proceedings of the ISCIE International Symposium on Stochastic Systems Theory and Its Applications, 2022, 2022, 18-23.	0.1	0
683	Gaussian Approximation Filter Based on Divergence Minimization for Nonlinear Dynamic Systems. , 2022, , .		1

#	ARTICLE	IF	CITATIONS
684	Improved weighting in particle filters applied to precise state estimation in GNSS. Frontiers in Robotics and AI, 0, 9, .	2.0	2
685	Estimation of dualâ€mode nonlinear stochastic systems withÂunknown parameters. International Journal of Robust and Nonlinear Control, 2022, 32, 9258-9274.	2.1	2
686	Probabilistic constrained Bayesian inversion forÂtranspiration cooling. International Journal for Numerical Methods in Fluids, 0, , .	0.9	1
687	Converted state equation Kalman filter for nonlinear maneuvering target tracking. Signal Processing, 2023, 202, 108741.	2.1	7
688	Model-Based 6D Visual Object Tracking with Impact Collision Models. , 2022, , .		0
689	An integrated modelling framework for complex systems safety analysis. Quality and Reliability Engineering International, 2022, 38, 4330-4350.	1.4	1
690	Underwater Multitarget Tracking With Sonar Images Using Thresholded Sequential Monte Carlo Probability Hypothesis Density Algorithm. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	1.4	3
691	Distributed Resampling Gaussian Particle Filtering for Heterogeneous Networks. , 2019, , .		1
692	Iterative Nonlinear Kalman Filtering via Variational Evidence Lower Bound Maximization. , 2019, , .		0
693	Optimal Scheduling of Charging/Discharging Power and EVs Pattern Using Stochastic Techniques in V2G System. , 2021, , .		9
694	A survey on syntactic processing techniques. Artificial Intelligence Review, 2023, 56, 5645-5728.	9.7	4
695	A comprehensive review of digital twinâ€"Âpart 1: modeling and twinning enabling technologies. Structural and Multidisciplinary Optimization, 2022, 65, .	1.7	69
696	Inference for Bayesian Nonparametric Models with Binary Response Data via Permutation Counting. Bayesian Analysis, 2024, 19, .	1.6	0
697	Sequential Monte Carlo: A Unified Review. Annual Review of Control, Robotics, and Autonomous Systems, 2023, 6, 159-182.	7.5	4
698	Identification of a monitoring nonlinear oil damper using particle filtering approach. Mechanical Systems and Signal Processing, 2023, 189, 110020.	4.4	3
699	On the Stiffness Selection for Tethered Space Robot. , 2022, , .		1
700	A Population-Informed Particle Filter for Robust Physiological Monitoring Using Low-Information Time-Series Measurements. IEEE Transactions on Biomedical Engineering, 2023, 70, 2298-2309.	2.5	0
701	Damping evaluation of an eight-story steel building with nonlinear oil damper under strong earthquakes. Journal of Building Engineering, 2023, 67, 106004.	1.6	1

#	ARTICLE	IF	CITATIONS
702	Sequential Ensemble Monte Carlo Sampler for On-Line Bayesian Inference of Time-Varying Parameter in Engineering Applications. ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part B: Mechanical Engineering, 2023, 9, .	0.7	1
705	Device for Express Registration of Power Quality of Renewable Sources. , 2023, , .		0
711	Inference for Variance-Gamma Driven Stochastic Systems. , 2023, , .		1