Estimation of high-dimensional prior and posterior cov
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98, 227-255

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#	Article	IF	Citations
1	Sequential State and Variance Estimation within the Ensemble Kalman Filter. Monthly Weather Review, 2007, 135, 3194-3208.	0.5	34
2	Experimental Implementation of an Ensemble Adjustment Filter for an Intermediate ENSO Model. Journal of Climate, 2007, 20, 4638-4658.	1.2	22
3	Improved Vertical Covariance Estimates for Ensemble-Filter Assimilation of Near-Surface Observations. Monthly Weather Review, 2007, 135, 1021-1036.	0.5	26
4	An adaptive covariance inflation error correction algorithm for ensemble filters. Tellus, Series A: Dynamic Meteorology and Oceanography, 2007, 59, 210-224.	0.8	362
5	Unbiased ensemble square root filters. Physica D: Nonlinear Phenomena, 2008, 237, 1021-1028.	1.3	101
6	Dynamic Tomographic Imaging of the Solar Corona. IEEE Journal on Selected Topics in Signal Processing, 2008, 2, 755-766.	7.3	15
7	Covariance Tapering for Likelihood-Based Estimation in Large Spatial Data Sets. Journal of the American Statistical Association, 2008, 103, 1545-1555.	1.8	322
8	Asymptotic convergence of the ensemble Kalman filter. , 2008, , .		10
9	Sparse permutation invariant covariance estimation. Electronic Journal of Statistics, 2008, 2, .	0.4	491
10	Obstacles to High-Dimensional Particle Filtering. Monthly Weather Review, 2008, 136, 4629-4640.	0.5	487
11	Comparing Reanalyses Using Analysis Increment Statistics. Journal of Hydrometeorology, 2008, 9, 1535-1545.	0.7	4
12	Curse-of-dimensionality revisited: Collapse of the particle filter in very large scale systems. , 2008, , 316-334.		192
13	Regularized estimation of large covariance matrices. Annals of Statistics, 2008, 36, .	1.4	842
14	Operator norm consistent estimation of large-dimensional sparse covariance matrices. Annals of Statistics, 2008, 36, .	1.4	222
15	Sparse estimation of large covariance matrices via a nested Lasso penalty. Annals of Applied Statistics, 2008, 2, .	0.5	136
16	Covariance regularization by thresholding. Annals of Statistics, 2008, 36, .	1.4	776
17	Sampling Errors in Ensemble Kalman Filtering. Part I: Theory. Monthly Weather Review, 2008, 136, 3035-3049.	0.5	41
18	Life-Cycle Finance and the Design of Pension Plans. Annual Review of Financial Economics, 2009, 1, 249-286.	2.5	31

#	Article	IF	Citations
19	Sampling Errors in Ensemble Kalman Filtering. Part II: Application to a Barotropic Model. Monthly Weather Review, 2009, 137, 1640-1654.	0.5	5
20	Discovering Sparse Covariance Structures With the Isomap. Journal of Computational and Graphical Statistics, 2009, 18, 551-572.	0.9	28
21	Generalized Thresholding of Large Covariance Matrices. Journal of the American Statistical Association, 2009, 104, 177-186.	1.8	332
22	Comparison of deterministic ensemble Kalman filters for assimilating hydrogeological data. Advances in Water Resources, 2009, 32, 280-292.	1.7	57
23	Spatially and temporally varying adaptive covariance inflation for ensemble filters. Tellus, Series A: Dynamic Meteorology and Oceanography, 2009, 61, 72-83.	0.8	307
24	Learning Covariance Dynamics for Path Planning of UAV Sensors in a Large-Scale Dynamic Environment. , 2009, , .		4
25	Tomographic Imaging of Dynamic Objects With the Ensemble Kalman Filter. IEEE Transactions on Image Processing, 2009, 18, 1573-1587.	6.0	28
26	Ensemble Kalman filters for large geophysical applications. IEEE Control Systems, 2009, 29, 66-82.	1.0	35
27	The Ensemble Kalman Filter in Reservoir Engineering--a Review. SPE Journal, 2009, 14, 393-412.	1.7	620
28	Localization of Ensemble Based Control Setting Updates for Production Optimization in Large Fields. , 2009, , .		2
29	Ensemble-Based Closed-Loop Optimization Applied to Brugge Field. , 2009, , .		31
30	Data Assimilation of Coupled Fluid Flow and Geomechanics via Ensemble Kalman Filter. , 2009, , .		1
31	Data Assimilation Coupled to Evolutionary Algorithmsâ€"A Case Example in History Matching. , 2009, , .		4
32	Hybrid Optimization coupling EnKF and Evolutionary Algorithms for History Matching: A Case Example. , 2009, , .		5
33	Revisiting Brugge case study using a Hierarchical Ensemble Kalman filter. , 2009, , .		7
34	Automatic History Matching of Production and Facies Data with Non-stationary Proportions using EnKF. , 2009, , .		6
35	Benchmark Study of Ensemble Kalman Filter Methodology: History Matching and Uncertainty Quantification for a Deep-Water Oil Reservoir. , 2009, , .		8
36	Data Assimilation of Coupled Fluid Flow and Geomechanics Using the Ensemble Kalman Filter. SPE Journal, 2010, 15, 382-394.	1.7	23

#	Article	IF	Citations
37	Ensemble-Based Closed-Loop Optimization Applied to Brugge Field. SPE Reservoir Evaluation and Engineering, 2010, 13, 56-71.	1.1	154
38	Adaptive estimation of covariance matrices via Cholesky decomposition. Electronic Journal of Statistics, 2010, 4, .	0.4	7
39	Optimal rates of convergence for covariance matrix estimation. Annals of Statistics, 2010, 38, .	1.4	284
40	Flow relevant covariance localization during dynamic data assimilation using EnKF. Advances in Water Resources, 2010, 33, 129-145.	1.7	21
41	Ensemble filter methods with perturbed observations applied to nonlinear problems. Computational Geosciences, 2010, 14, 249-261.	1.2	7
42	Cross-covariances and localization for EnKF in multiphase flow data assimilation. Computational Geosciences, 2010, 14, 579-601.	1.2	140
43	Closed-loop reservoir management on the Brugge test case. Computational Geosciences, 2010, 14, 691-703.	1.2	108
44	Improving the Ensemble Estimate of the Kalman Gain by Bootstrap Sampling. Mathematical Geosciences, 2010, 42, 327-345.	1.4	58
45	Data driven computing by the morphing fast Fourier transform ensemble Kalman filter in epidemic spread simulations. Procedia Computer Science, 2010, 1, 1221-1229.	1.2	21
46	Autoregressive frequency detection using Regularized Least Squares. Journal of Multivariate Analysis, 2010, 101, 1712-1727.	0.5	4
47	Ensembleâ€based data assimilation and the localisation problem. Weather, 2010, 65, 65-69.	0.6	21
48	Comparison of Ensemble Kalman Filters under Non-Gaussianity. Monthly Weather Review, 2010, 138, 1293-1306.	0.5	52
49	An Ensemble Kalman Filter and Smoother for Satellite Data Assimilation. Journal of the American Statistical Association, 2010, 105, 978-990.	1.8	53
50	Multidimensional image reconstruction in astronomy. IEEE Signal Processing Magazine, 2010, 27, 86-96.	4.6	13
51	A new approach to Cholesky-based covariance regularization in high dimensions. Biometrika, 2010, 97, 539-550.	1.3	110
52	Hierarchical Ensemble Kalman Filter. SPE Journal, 2010, 15, 569-580.	1.7	21
53	Error Estimate for the Ensemble Kalman Filter Analysis Step. SIAM Journal on Matrix Analysis and Applications, 2011, 32, 1275-1287.	0.7	2
54	Ensemble Kalman filtering without the intrinsic need for inflation. Nonlinear Processes in Geophysics, 2011, 18, 735-750.	0.6	74

#	Article	IF	Citations
55	Reservoir Characterization and Uncertainty Assessment Using the Ensemble Kalman Filter. , 2011, , 235-248.		1
56	Adaptive Regularization in the Ensemble Kalman Filter for Reservoir History Matching. , 2011, , .		1
57	Joint Updating of Petrophysical Properties and Discrete Facies Variables From Assimilating Production Data Using the EnKF. SPE Journal, 2011, 16, 318-330.	1.7	16
58	Ensemble-Based Water Flooding Optimization Applied to Mature Fields. , 2011, , .		10
59	State estimation in wall-bounded flow systems. Part 3. The ensemble Kalman filter. Journal of Fluid Mechanics, 2011, 682, 289-303.	1.4	61
60	Covariance Estimation: The GLM and Regularization Perspectives. Statistical Science, 2011, 26, .	1.6	148
61	Banded Regularization of Autocovariance Matrices in Application to Parameter Estimation and Forecasting of Time Series. Journal of the Royal Statistical Society Series B: Statistical Methodology, 2011, 73, 711-728.	1.1	38
62	The role of model dynamics in ensemble Kalman filter performance for chaotic systems. Tellus, Series A: Dynamic Meteorology and Oceanography, 2022, 63, 958.	0.8	33
63	Ensemble Kalman filtering with shrinkage regression techniques. Computational Geosciences, 2011, 15, 271-292.	1.2	17
64	Combining sensitivities and prior information for covariance localization in the ensemble Kalman filter for petroleum reservoir applications. Computational Geosciences, 2011, 15, 251-269.	1.2	87
65	Multimodal ensemble Kalman filtering using Gaussian mixture models. Computational Geosciences, 2011, 15, 307-323.	1.2	91
66	Ensemble-based conditioning of reservoir models to seismic data. Computational Geosciences, 2011, 15, 359-378.	1.2	24
67	Evaluation and error analysis: Kalman gain regularization versus covariance regularization. Computational Geosciences, 2011, 15, 489-508.	1.2	17
68	Ensemble Kalman filtering for non-linear likelihood models using kernel-shrinkage regression techniques. Computational Geosciences, 2011, 15, 529-544.	1.2	4
69	Groundwater parameter estimation using the ensemble Kalman filter with localization. Hydrogeology Journal, 2011, 19, 547-561.	0.9	19
70	On the convergence of the ensemble Kalman filter. Applications of Mathematics, 2011, 56, 533-541.	0.9	87
71	Wavelet ensemble Kalman filters. , 2011, , .		5
72	Multiscale parameterization with adaptive localization for improved assimilation of time-lapse data. , 2011, , .		0

#	Article	IF	Citations
73	High-dimensional covariance estimation by minimizing â„“1-penalized log-determinant divergence. Electronic Journal of Statistics, 2011, 5, .	0.4	406
74	The masked sample covariance estimator: an analysis using matrix concentration inequalities. Information and Inference, 2012, 1, 2-20.	0.9	26
75	Sequential State and Observation Noise Covariance Estimation Using Combined Ensemble Kalman and Particle Filters. Monthly Weather Review, 2012, 140, 1476-1495.	0.5	23
76	Localization and Sampling Error Correction in Ensemble Kalman Filter Data Assimilation. Monthly Weather Review, 2012, 140, 2359-2371.	0.5	170
77	A Tapering Method in the Construction of Covariance Regularization. Applied Mechanics and Materials, 0, 204-208, 4734-4737.	0.2	0
78	Refined Adaptive Gaussian Mixture Filter - Application on a Real Field Case. , 2012, , .		9
79	Combining the Ensemble Kalman Filter With Markov Chain Monte Carlo for Improved History Matching and Uncertainty Characterization. SPE Journal, 2012, 17, 418-440.	1.7	44
80	Gravimetric Monitoring of Water Influx Into a Gas Reservoir: A Numerical Study Based on the Ensemble Kalman Filter. SPE Journal, 2012, 17, 163-176.	1.7	12
81	Covariance matrix estimation for stationary time series. Annals of Statistics, 2012, 40, .	1.4	74
82	Localization of Ensemble-Based Control-Setting Updates for Production Optimization. SPE Journal, 2012, 17, 122-136.	1.7	20
83	The ensemble Kalman filter is an ABC algorithm. Statistics and Computing, 2012, 22, 1273-1276.	0.8	11
84	Multiscale parameterization with adaptive regularization for improved assimilation of nonlocal observation. Water Resources Research, 2012, 48, .	1.7	11
85	Toward reliable ensemble Kalman filter estimates of CO₂ fluxes. Journal of Geophysical Research, 2012, 117, .	3.3	26
86	Multiscale-finite-element-based ensemble Kalman filter for large-scale groundwater flow. Journal of Hydrology, 2012, 468-469, 22-34.	2.3	12
87	Positive-Definite â„“₁-Penalized Estimation of Large Covariance Matrices. Journal of the American Statistical Association, 2012, 107, 1480-1491.	1.8	117
88	Tapered Covariance: Bayesian Estimation and Asymptotics. Journal of Computational and Graphical Statistics, 2012, 21, 433-452.	0.9	46
89	Improved initial ensemble generation coupled with ensemble square root filters and inflation to estimate uncertainty. Computational Geosciences, 2012, 16, 437-453.	1.2	1
90	Comparing the adaptive Gaussian mixture filter with the ensemble Kalman filter on synthetic reservoir models. Computational Geosciences, 2012, 16, 467-482.	1.2	14

#	Article	IF	Citations
91	History matching time-lapse seismic data using the ensemble Kalman filter with multiple data assimilations. Computational Geosciences, 2012, 16, 639-659.	1.2	177
92	Partial estimation of covariance matrices. Probability Theory and Related Fields, 2012, 153, 405-419.	0.9	17
93	Sampling Error in Ensemble Kalman Filter for 2-D Groundwater Flow. Procedia Environmental Sciences, 2012, 12, 899-905.	1.3	0
94	Sampling error distribution for the ensemble Kalman filter update step. Computational Geosciences, 2012, 16, 455-466.	1.2	1
95	Assimilating transient groundwater flow data via a localized ensemble Kalman filter to calibrate a heterogeneous conductivity field. Stochastic Environmental Research and Risk Assessment, 2012, 26, 467-478.	1.9	21
97	Resampling the ensemble Kalman filter. Computers and Geosciences, 2013, 55, 44-53.	2.0	15
98	Uncertainty Quantification in the Ensemble Kalman Filter. Scandinavian Journal of Statistics, 2013, 40, 868-885.	0.9	13
99	Estimation of covariance matrices based on hierarchical inverse-Wishart priors. Journal of Statistical Planning and Inference, 2013, 143, 795-808.	0.4	26
100	Mixture ensemble Kalman filters. Computational Statistics and Data Analysis, 2013, 58, 127-138.	0.7	35
101	Scheduling satellite-based SAR acquisition for sequential assimilation of water level observations into flood modelling. Journal of Hydrology, 2013, 495, 252-266.	2.3	97
102	Statistical analysis of big data on pharmacogenomics. Advanced Drug Delivery Reviews, 2013, 65, 987-1000.	6.6	39
103	Sampling-free linear Bayesian updating of model state and parameters using a square root approach. Computers and Geosciences, 2013, 55, 70-83.	2.0	14
104	Minimax optimal estimation of general bandable covariance matrices. Journal of Multivariate Analysis, 2013, 116, 45-51.	0.5	5
105	SURE-tuned tapering estimation of large covariance matrices. Computational Statistics and Data Analysis, 2013, 58, 339-351.	0.7	13
106	A compact discriminative representation for efficient image-set classification with application to biometric recognition. , 2013, , .		12
107	Shrinkage covariance matrix approach for microarray data. , 2013, , .		0
108	Bridging the ensemble Kalman and particle filters. Biometrika, 2013, 100, 781-800.	1.3	63
109	An Ensemble Adjustment Kalman Filter for the CCSM4 Ocean Component. Journal of Climate, 2013, 26, 7392-7413.	1.2	44

#	Article	IF	Citations
110	Empirical Localization of Observation Impact in Ensemble Kalman Filters. Monthly Weather Review, 2013, 141, 4140-4153.	0.5	56
111	Data assimilation and parameter estimation via ensemble Kalman filter coupled with stochastic moment equations of transient groundwater flow. Water Resources Research, 2013, 49, 1334-1344.	1.7	41
112	Computer Model Calibration Using the Ensemble Kalman Filter. Technometrics, 2013, 55, 488-500.	1.3	20
113	Technical Note: Comparison of ensemble Kalman filter and variational approaches for CO₂ data assimilation. Atmospheric Chemistry and Physics, 2013, 13, 11643-11660.	1.9	16
114	Strategic Scope of Alternative Optimization Methods in History Matching and Prediction Workflows. , 2013, , .		10
117	Smooth Monotone Covariance for Elliptical Distributions and Applications in Finance. SSRN Electronic Journal, 2014, , .	0.4	0
118	OPTIMIZATION-BASED SAMPLING IN ENSEMBLE KALMAN FILTERING. , 2014, 4, 349-364.		2
119	Sparse Covariance Matrix Estimation With Eigenvalue Constraints. Journal of Computational and Graphical Statistics, 2014, 23, 439-459.	0.9	47
120	Comparisons of Empirical Localization Techniques for Serial Ensemble Kalman Filters in a Simple Atmospheric General Circulation Model. Monthly Weather Review, 2014, 142, 739-754.	0.5	28
121	Reduced-Rank Sigma-Point Kalman Filter and Its Application in ENSO Model. Journal of Atmospheric and Oceanic Technology, 2014, 31, 2350-2366.	0.5	4
123	Bayesian tracking of emerging epidemics using ensemble optimal statistical interpolation. Spatial and Spatio-temporal Epidemiology, 2014, 10, 39-48.	0.9	10
124	Iterative and Algebraic Algorithms for the Computation of the Steady State Kalman Filter Gain. ISRN Applied Mathematics, 2014, 2014, 1-10.	0.5	6
125	Computationally efficient banding of large covariance matrices for ordered data and connections to banding the inverse Cholesky factor. Journal of Multivariate Analysis, 2014, 130, 21-26.	0.5	5
126	Subsurface characterization with localized ensemble Kalman filter employing adaptive thresholding. Advances in Water Resources, 2014, 69, 181-196.	1.7	7
127	Fast Kalman Filtering and Forwardâ€"Backward Smoothing via a Low-Rank Perturbative Approach. Journal of Computational and Graphical Statistics, 2014, 23, 316-339.	0.9	21
128	Smooth monotone covariance for elliptical distributions and applications in finance. Quantitative Finance, 2014, 14, 1555-1571.	0.9	4
129	Nonlinear measurement function in the ensemble Kalman filter. Advances in Atmospheric Sciences, 2014, 31, 551-558.	1.9	24
130	Distance parameterization for efficient seismic history matching with the ensemble Kalman Filter. Computational Geosciences, 2014, 18, 535-548.	1.2	62

#	Article	IF	Citations
131	Comparison of Ensemble Kalman Filter groundwater-data assimilation methods based on stochastic moment equations and Monte Carlo simulation. Advances in Water Resources, 2014, 66, 8-18.	1.7	28
132	A multimodel data assimilation framework via the ensemble Kalman filter. Water Resources Research, 2014, 50, 4197-4219.	1.7	49
133	A mechanistic modeling and data assimilation framework for Mojave Desert ecohydrology. Water Resources Research, 2014, 50, 4662-4685.	1.7	10
135	History Matching of Channelized Reservoirs With Vector-Based Level-Set Parameterization. SPE Journal, 2014, 19, 514-529.	1.7	23
136	The ensemble Kalman filter and its relations to other nonlinear filters. , 2015, , .		11
137	Expanding the validity of the ensemble Kalman filter without the intrinsic need for inflation. Nonlinear Processes in Geophysics, 2015, 22, 645-662.	0.6	43
138	Spectral diagonal ensemble Kalman filters. Nonlinear Processes in Geophysics, 2015, 22, 485-497.	0.6	5
139	The compressed state <scp>K</scp>alman filter for nonlinear state estimation: Application to largeâ€scale reservoir monitoring. Water Resources Research, 2015, 51, 9942-9963.	1.7	24
140	Ensemble-based multi-scale history-matching using second-generation wavelet transform. Computational Geosciences, 2015, 19, 999-1025.	1.2	10
141	Fast Kalman filter using hierarchical matrices and a low-rank perturbative approach. Inverse Problems, 2015, 31, 015009.	1.0	7
142	Hyperspectral Face Recognition With Spatiospectral Information Fusion and PLS Regression. IEEE Transactions on Image Processing, 2015, 24, 1127-1137.	6.0	130
143	Convergence of the Square Root Ensemble Kalman Filter in the Large Ensemble Limit. SIAM-ASA Journal on Uncertainty Quantification, 2015, 3, 1-17.	1.1	39
144	A Hybrid Particleâ€"Ensemble Kalman Filter for Lagrangian Data Assimilation. Monthly Weather Review, 2015, 143, 195-211.	0.5	33
145	Characterization of Non-Gaussian Geologic Facies Distribution Using Ensemble Kalman Filter with Probability Weighted Re-Sampling. Mathematical Geosciences, 2015, 47, 193-225.	1.4	11
146	Real-time data assimilation for large-scale systems: The spectral Kalman filter. Advances in Water Resources, 2015, 86, 260-272.	1.7	24
147	Sparse and Low-Rank Covariance Matrix Estimation. Journal of the Operations Research Society of China, 2015, 3, 231-250.	0.9	7
148	Hybrid Levenbergâ€"Marquardt and weak-constraint ensemble Kalman smootherÂmethod. Nonlinear Processes in Geophysics, 2016, 23, 59-73.	0.6	17
150	Estimating structured high-dimensional covariance and precision matrices: Optimal rates and adaptive estimation. Electronic Journal of Statistics, 2016, 10, .	0.4	78

#	Article	IF	Citations
151	Observation-Dependent Posterior Inflation for the Ensemble Kalman Filter. Monthly Weather Review, 2016, 144, 2667-2684.	0.5	9
152	Evaluating large-extent spatial modeling approaches: A case study for soil depth for France. Geoderma Regional, 2016, 7, 137-152.	0.9	43
153	Remote Sensing-Derived Water Extent and Level to Constrain Hydraulic Flood Forecasting Models: Opportunities and Challenges. Surveys in Geophysics, 2016, 37, 977-1034.	2.1	96
154	Distributed Algorithms for Computing Very Large Thresholded Covariance Matrices. ACM Transactions on Knowledge Discovery From Data, 2016, 11, 1-25.	2.5	1
155	Positive definite estimation of large covariance matrix using generalized nonconvex penalties. IEEE Access, 2016, 4, 4168-4182.	2.6	15
156	Estimating uncertainty bounds in field production using ensemble-based methods. Journal of Petroleum Science and Engineering, 2016, 145, 648-656.	2.1	4
157	Potential of sequential EnKF for the short-range prediction of a maritime severe weather event. Atmospheric Research, 2016, 178-179, 426-444.	1.8	10
158	Towards a hierarchical parametrization to address prior uncertainty in ensemble-based data assimilation. Computational Geosciences, 2016, 20, 35-47.	1.2	3
159	A generalized likelihood ratio test for normal mean when p is greater than n. Computational Statistics and Data Analysis, 2016, 99, 91-104.	0.7	10
160	Understanding the Ensemble Kalman Filter. American Statistician, 2016, 70, 350-357.	0.9	117
161	SURE Information Criteria for Large Covariance Matrix Estimation and Their Asymptotic Properties. IEEE Transactions on Information Theory, 2016, 62, 2153-2169.	1.5	9
162	Nonlinear stability and ergodicity of ensemble based Kalman filters. Nonlinearity, 2016, 29, 657-691.	0.6	60
163	Analysis of the performance of ensemble-based assimilation of production and seismic data. Journal of Petroleum Science and Engineering, 2016, 139, 219-239.	2.1	111
164	Reducing Correlation Sampling Error in Ensemble Kalman Filter Data Assimilation. Monthly Weather Review, 2016, 144, 913-925.	0.5	25
165	Tuning-parameter selection in regularized estimations of large covariance matrices. Journal of Statistical Computation and Simulation, 2016, 86, 494-509.	0.7	15
166	A Data-Driven Method for Improving the Correlation Estimation in Serial Ensemble Kalman Filters. Monthly Weather Review, 2017, 145, 985-1001.	0.5	13
167	Image-oriented distance parameterization for ensemble-based seismic history matching. Computational Geosciences, 2017, 21, 713-731.	1.2	27
168	High dimensional covariance matrix estimation by penalizing the matrix-logarithm transformed likelihood. Computational Statistics and Data Analysis, 2017, 114, 12-25.	0.7	8

#	Article	IF	Citations
169	Utilizing oceanic electromagnetic induction to constrain an ocean general circulation model: A data assimilation twin experiment. Journal of Advances in Modeling Earth Systems, 2017, 9, 1703-1720.	1.3	18
170	Parallel Direct Solution of the Ensemble Square Root Kalman Filter Equations with Observation Principal Components. Journal of Atmospheric and Oceanic Technology, 2017, 34, 1867-1884.	0.5	8
171	Integration of Distributed Gauss-Newton with Randomized Maximum Likelihood Method for Uncertainty Quantification of Reservoir Performance. , 2017, , .		7
172	Estimation of high dimensional covariance matrices by shrinkage algorithms. , 2017, , .		7
173	The Ensemble Kalman filter: a signal processing perspective. Eurasip Journal on Advances in Signal Processing, 2017, 2017, .	1.0	36
174	Importance Sampling: Intrinsic Dimension and Computational Cost. Statistical Science, 2017, 32, .	1.6	76
175	Maximizing the value of pressure data in saline aquifer characterization. Advances in Water Resources, 2017, 109, 14-28.	1.7	7
176	Accounting for Model Error from Unresolved Scales in Ensemble Kalman Filters by Stochastic Parameterization. Monthly Weather Review, 2017, 145, 3709-3723.	0.5	12
177	On the efficient low cost procedure for estimation of high-dimensional prediction error covariance matrices. Automatica, 2017, 83, 317-330.	3.0	7
178	Ensemble data assimilation in the Red Sea: sensitivity to ensemble selection and atmospheric forcing. Ocean Dynamics, 2017, 67, 915-933.	0.9	24
179	Localization and regularization for iterative ensemble smoothers. Computational Geosciences, 2017, 21, 13-30.	1.2	63
180	Coarse-scale data assimilation as a generic alternative to localization. Computational Geosciences, 2017, 21, 167-186.	1.2	10
181	A Hierarchical Bayes Ensemble Kalman Filter. Physica D: Nonlinear Phenomena, 2017, 338, 1-16.	1.3	8
182	Global Testing and Large-Scale Multiple Testing for High-Dimensional Covariance Structures. Annual Review of Statistics and Its Application, 2017, 4, 423-446.	4.1	24
183	Investigation on Principal Component Analysis Parameterizations for History Matching Channelized Facies Models with Ensemble-Based Data Assimilation. Mathematical Geosciences, 2017, 49, 85-120.	1.4	33
184	Large-Scale Distributed Kalman Filtering via an Optimization Approach. IFAC-PapersOnLine, 2017, 50, 10742-10747.	0.5	6
185	Use of Multiple Data Assimilation Techniques in Groundwater Contaminant Transport Modeling. Water Environment Research, 2017, 89, 1952-1960.	1.3	4
186	Enhanced Adaptive Inflation Algorithm for Ensemble Filters. Monthly Weather Review, 2018, 146, 623-640.	0.5	30

#	Article	IF	Citations
187	Real-time forecasting of fire in a two-story building using ensemble Kalman filter method. Fire Safety Journal, 2018, 97, 19-28.	1.4	8
188	Reservoir history matching using constrained ensemble Kalman filtering. Canadian Journal of Chemical Engineering, 2018, 96, 145-159.	0.9	6
189	Performance of Ensemble Kalman Filters in Large Dimensions. Communications on Pure and Applied Mathematics, 2018, 71, 892-937.	1.2	14
190	A Bayesian Adaptive Ensemble Kalman Filter for Sequential State and Parameter Estimation. Monthly Weather Review, 2018, 146, 373-386.	0.5	42
191	A global coupled ensemble data assimilation system using the Community Earth System Model and the Data Assimilation Research Testbed. Quarterly Journal of the Royal Meteorological Society, 2018, 144, 2404-2430.	1.0	22
192	History Matching Of Real Production And Seismic Data In The Norne Field. , 2018, , .		5
194	Data-Driven Localization Mappings in Filtering the Monsoonâ€"Hadley Multicloud Convective Flows. Monthly Weather Review, 2018, 146, 1197-1218.	0.5	0
195	Observation-Informed Generalized Hybrid Error Covariance Models. Monthly Weather Review, 2018, 146, 3605-3622.	0.5	7
196	Estimating large correlation matrices for international migration. Annals of Applied Statistics, 2018, 12, 940-970.	0.5	5
197	Performance Analysis of Local Ensemble Kalman Filter. Journal of Nonlinear Science, 2018, 28, 1397-1442.	1.0	14
198	Data Assimilation in Densityâ€Đependent Subsurface Flows via Localized Iterative Ensemble Kalman Filter. Water Resources Research, 2018, 54, 6259-6281.	1.7	7
199	Adaptive covariance inflation in the ensemble Kalman filter by Gaussian scale mixtures. Quarterly Journal of the Royal Meteorological Society, 2019, 145, 53-75.	1.0	40
200	Methods to mitigate loss of variance due to sampling errors in ensemble data assimilation with non-local model parameters. Journal of Petroleum Science and Engineering, 2019, 172, 690-706.	2.1	15
201	Inverse Free Kalman Filter Using Approximate Inverse of Diagonally Dominant Matrices. , 2019, 3, 120-125.		6
202	A novel localization scheme for scalar uncertainties in ensemble-based data assimilation methods. Journal of Petroleum Exploration and Production, 2019, 9, 2497-2510.	1.2	7
203	Multilevel maximum likelihood estimation with application to covariance matrices. Communications in Statistics - Theory and Methods, 2019, 48, 909-925.	0.6	0
204	Comparing Adaptive Prior and Posterior Inflation for Ensemble Filters Using an Atmospheric General Circulation Model. Monthly Weather Review, 2019, 147, 2535-2553.	0.5	15
205	Analysis of localization methods in Ensemble Kalman Filter with SVD analytical solution. Journal of Petroleum Science and Engineering, 2019, 175, 919-931.	2.1	1

#	Article	IF	Citations
206	An Integrated Approach for History Matching of Multiscale-Fracture Reservoirs. SPE Journal, 2019, 24, 1508-1525.	1.7	14
207	Influence of the Kalman gain localization in adaptive ensemble smoother history matching. Journal of Petroleum Science and Engineering, 2019, 179, 244-256.	2.1	5
208	NOVELIST estimator of large correlation and covariance matrices and their inverses. Test, 2019, 28, 694-727.	0.7	4
209	History matching geological facies models based on ensemble smoother and deep generative models. Journal of Petroleum Science and Engineering, 2019, 177, 941-958.	2.1	50
210	Generalized Inverse-Free Kalman filter using Approximate Inverse of Block Diagonally Dominant Matrices. , 2019, , .		1
211	Covariance Regression Models for Studying Treatment Effect Heterogeneity Across One or More Outcomes: Understanding How Treatments Shape Inequality. Sociological Methods and Research, 2021, 50, 1034-1072.	4.3	4
212	Parametric spatial covariance models in the ensemble Kalman filter. Spatial Statistics, 2019, 29, 226-242.	0.9	2
213	Compressed Covariance Estimation with Automated Dimension Learning. Sankhya A, 2019, 81, 466-481.	0.4	0
214	Ensemble Kalman Methods for High-Dimensional Hierarchical Dynamic Space-Time Models. Journal of the American Statistical Association, 2020, 115, 866-885.	1.8	37
215	Sequential Maximum Correntropy Kalman Filtering. Asian Journal of Control, 2020, 22, 25-33.	1.9	7
216	Highâ€dimensional covariance matrix estimation using a lowâ€rank and diagonal decomposition. Canadian Journal of Statistics, 2020, 48, 308-337.	0.6	2
217	Regularized estimation of precision matrix for high-dimensional multivariate longitudinal data. Journal of Multivariate Analysis, 2020, 176, 104580.	0.5	2
218	A particleâ€filter based adaptive inflation scheme for the ensemble Kalman filter. Quarterly Journal of the Royal Meteorological Society, 2020, 146, 922-937.	1.0	4
219	Simultaneous assimilation of production and seismic data: application to the Norne field. Computational Geosciences, 2020, 24, 907-920.	1.2	30
220	A large covariance matrix estimator under intermediate spikiness regimes. Journal of Multivariate Analysis, 2020, 176, 104577.	0.5	4
221	A Two-Stage Model Identification Method for Simulation of Electrical Wave Propagation in Heart Tissue. IEEE Access, 2020, 8, 123524-123535.	2.6	0
222	Divergence of the Ensemble Transform Kalman Filter (LETKF) by Nonlocal Observations. Frontiers in Applied Mathematics and Statistics, 2020, 6, .	0.7	2
223	Recent developments in fast and scalable inverse modeling and data assimilation methods in hydrology. Journal of Hydrology, 2020, 591, 125266.	2.3	32

#	Article	IF	Citations
224	3D shape retrieval based on Laplace operator and joint Bayesian model. Visual Informatics, 2020, 4, 69-76.	2.5	6
225	Data-space inversion with ensemble smoother. Computational Geosciences, 2020, 24, 1179-1200.	1.2	18
226	Regularized Kalman filter for brain-computer interfaces using local field potential signals. Journal of Neuroscience Methods, 2021, 350, 109022.	1.3	5
227	Estimation of autocovariance matrices for high dimensional linear processes. Metrika, 2021, 84, 595-613.	0.5	1
228	Fast and Positive Definite Estimation of Large Covariance Matrix for High-Dimensional Data Analysis. IEEE Transactions on Big Data, 2021, 7, 603-609.	4.4	7
229	Covariance estimation via fiducial inference. Statistical Theory and Related Fields, 2021, 5, 316-331.	0.2	2
230	Using a machine learning proxy for localization in ensemble data assimilation. Computational Geosciences, 2021, 25, 931-944.	1.2	5
231	Adaptive banding covariance estimation for highâ€dimensional multivariate longitudinal data. Canadian Journal of Statistics, 2021, 49, 906-938.	0.6	1
232	Estimation of Linear Regression Models with Serially Correlated Errors. Journal of Data Science, 2012, 10, 723-755.	0.5	5
233	Assignment Matrix Free Algorithms for On-line Estimation of Dynamic Origin-Destination Matrices. Frontiers in Future Transportation, 2021, 2, .	1.3	2
234	Ensemble Kalman filter updates based on regularized sparse inverse Cholesky factors. Monthly Weather Review, 2021, , .	0.5	3
235	Multilevel Assimilation of Inverted Seismic Data With Correction for Multilevel Modeling Error. Frontiers in Applied Mathematics and Statistics, 2021, 7, .	0.7	2
236	A fast robust Kalman filter for initial alignment of strapdown inertial navigation system. Optik, 2021, 237, 166541.	1.4	5
237	Accounting for Transport Error in Inversions: An Urban Synthetic Data Experiment. Earth and Space Science, 2021, 8, e2020EA001272.	1.1	2
238	Ensemble streamflow data assimilation using WRF-Hydro and DART: novel localization and inflation techniques applied to Hurricane Florence flooding. Hydrology and Earth System Sciences, 2021, 25, 5315-5336.	1.9	9
239	4D seismic history matching. Journal of Petroleum Science and Engineering, 2021, 207, 109119.	2.1	30
240	Why does EnKF suffer from analysis overconfidence? An insight into exploiting the everâ€increasing volume of observations. Quarterly Journal of the Royal Meteorological Society, 2021, 147, 1258-1277.	1.0	9
241	Hybrid Ensembleâ€"Variational Filter: A Spatially and Temporally Varying Adaptive Algorithm to Estimate Relative Weighting. Monthly Weather Review, 2021, 149, 65-76.	0.5	1

#	Article	IF	Citations
242	Bayesian Nonstationary and Nonparametric Covariance Estimation for Large Spatial Data (with) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 74	1.6	5
243	Geostatistics for Large Datasets. Lecture Notes in Statistics, 2012, , 55-77.	0.1	66
245	Triple collocation-based estimation of spatially correlated observation error covariance in remote sensing soil moisture data assimilation. Journal of Applied Remote Sensing, 2018, 12, 1.	0.6	3
246	Data Assimilation. Chapman & Hall/CRC Interdisciplinary Statistics Series, 2010, , 477-492.	0.4	9
247	Sharp failure rates for the bootstrap particle filter in high dimensions. , 2008, , 318-329.		76
248	High dimensional sparse covariance estimation via directed acyclic graphs. Electronic Journal of Statistics, 2009, 3, .	0.4	19
249	An Algorithm for Improving the Accuracy of Systems Measuring Parameters of Moving Objects. Metrology and Measurement Systems, 2016, 23, 555-565.	1.4	12
251	History Match and Polymer Injection Optimization in a Mature Field Using the Ensemble Kalman Filter. , 2013, , .		22
252	Distance Parameterization for Efficient Seismic History Matching with the Ensemble Kalman Filter. , 2012, , .		1
253	Optimal estimation of sparse correlation matrices of semiparametric Gaussian copulas. Statistics and Its Interface, 2014, 7, 201-209.	0.2	7
254	Learning the Covariance Dynamics of a Large-Scale Environment for Informative Path Planning of Unmanned Aerial Vehicle Sensors. International Journal of Aeronautical and Space Sciences, 2010, 11, 326-337.	1.0	5
255	Accounting for model error in air quality forecasts: an application of 4DEnVar to the assimilation of atmospheric composition using QG-Chem 1.0. Geoscientific Model Development, 2016, 9, 3933-3959.	1.3	9
259	Sparse covariance thresholding for high-dimensional variable selection. Statistica Sinica, 2011, 21, 625.	0.2	8
260	Rank-based tapering estimation of bandable correlation matrices. Statistica Sinica, 2013, , .	0.2	5
261	An Investigation of Adaptive Radius for the Covariance Localization in Ensemble Data Assimilation. Journal of Marine Science and Engineering, 2021, 9, 1156.	1.2	1
265	Estimation of the error autocorrelation matrix in semiparametric model for fMRI data. Statistica Sinica, 2015, , .	0.2	1
267	Advanced Data Assimilation Methods. SpringerBriefs in Earth Sciences, 2016, , 61-87.	0.5	0
268	Minimax estimation of large precision matrices with bandable Cholesky factor. Annals of Statistics, 2020, 48, .	1.4	3

#	Article	IF	Citations
269	Test for high dimensional covariance matrices. Annals of Statistics, 2020, 48, .	1.4	1
270	Filtering with One-Step-Ahead Smoothing for Efficient Data Assimilation. , 2022, , 69-96.		2
271	Score matching filters for Gaussian Markov random fields with a linear model of the precision matrix. , 2021, 3, 793.		1
272	Simplicial and Minimal-Variance Distances in Multivariate Data Analysis. Journal of Statistical Theory and Practice, 2022, 16, 1.	0.3	1
273	Iterative multilevel assimilation of inverted seismic data. Computational Geosciences, 2022, 26, 241-262.	1.2	1
274	Covariance Estimation for Matrix-valued Data. Journal of the American Statistical Association, 2023, 118, 2620-2631.	1.8	2
275	Improving pseudo-optimal Kalman-gain localization using the random shuffle method. Journal of Petroleum Science and Engineering, 2022, 215, 110589.	2.1	3
276	Autodifferentiable Ensemble Kalman Filters. SIAM Journal on Mathematics of Data Science, 2022, 4, 801-833.	1.0	13
277	Continuum Covariance Propagation for Understanding Variance Loss in Advective Systems. SIAM-ASA Journal on Uncertainty Quantification, 2022, 10, 886-914.	1.1	3
278	History matching of petroleum reservoirs using deep neural networks. Intelligent Systems With Applications, 2022, 16, 200128.	1.9	5
279	Introducing block-Toeplitz covariance matrices to remaster linear discriminant analysis for event-related potential brainâ€“computer interfaces. Journal of Neural Engineering, 2022, 19, 066001.	1.8	2
280	Modifying Covariance Localization to Mitigate Sampling Errors from the Ensemble Data Assimilation. Advances in Meteorology, 2022, 2022, 1-17.	0.6	0
281	New Challenges in Covariance Estimation: Multiple Structures and Coarse Quantization. Applied and Numerical Harmonic Analysis, 2022, , 77-104.	0.1	1
282	Sparsistent filtering of comovement networks from high-dimensional data. Journal of Computational Science, 2022, 65, 101902.	1.5	0
283	BEM-Based Magnetic Field Reconstruction by Ensemble KÃ¡lmÃ¡n Filtering. Computational Methods in Applied Mathematics, 2022, .	0.4	2
284	Covariance estimation under one-bit quantization. Annals of Statistics, 2022, 50, .	1.4	5
285	Sequential multilevel assimilation of inverted seismic data. Computational Geosciences, 2023, 27, 265-287.	1.2	0
289	Optimal Shrinkage-Based Portfolio Allocation with Banded-Toeplitz Target. , 2023, , .		0

#	Article	IF	Citations