List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Optimal Detection of Changepoints With a Linear Computational Cost. Journal of the American Statistical Association, 2012, 107, 1590-1598.	1.8	1,367
2	Genome-wide association study of prostate cancer identifies a second risk locus at 8q24. Nature Genetics, 2007, 39, 645-649.	9.4	1,059
3	Improved particle filter for nonlinear problems. IET Radar, Sonar & Navigation, 1999, 146, 2.	2.1	649
4	A Coalescent-Based Method for Detecting and Estimating Recombination From Gene Sequences. Genetics, 2002, 160, 1231-1241.	1.2	624
5	Constructing Summary Statistics for Approximate Bayesian Computation: Semi-Automatic Approximate Bayesian Computation. Journal of the Royal Statistical Society Series B: Statistical Methodology, 2012, 74, 419-474.	1.1	378
6	Tracing the Source of Campylobacteriosis. PLoS Genetics, 2008, 4, e1000203.	1.5	365
7	Exact and efficient Bayesian inference for multiple changepoint problems. Statistics and Computing, 2006, 16, 203-213.	0.8	313
8	Estimating Recombination Rates From Population Genetic Data. Genetics, 2001, 159, 1299-1318.	1.2	272
9	Exact and computationally efficient likelihood-based estimation for discretely observed diffusion processes (with discussion). Journal of the Royal Statistical Society Series B: Statistical Methodology, 2006, 68, 333-382.	1.1	262
10	On-Line Inference for Multiple Changepoint Problems. Journal of the Royal Statistical Society Series B: Statistical Methodology, 2007, 69, 589-605.	1.1	185
11	Rapid Evolution and the Importance of Recombination to the Gastroenteric Pathogen Campylobacter jejuni. Molecular Biology and Evolution, 2009, 26, 385-397.	3.5	160
12	On-line inference for hidden Markov models via particle filters. Journal of the Royal Statistical Society Series B: Statistical Methodology, 2003, 65, 887-899.	1.1	145
13	Spatial epidemiology and natural population structure of Campylobacter jejuni colonizing a farmland ecosystem. Environmental Microbiology, 2005, 7, 1116-1126.	1.8	128
14	Markov chain Monte Carlo, Sufficient Statistics, and Particle Filters. Journal of Computational and Graphical Statistics, 2002, 11, 848-862.	0.9	107
15	The Zig-Zag process and super-efficient sampling for Bayesian analysis of big data. Annals of Statistics, 2019, 47, .	1.4	99
16	On optimal multiple changepoint algorithms for large data. Statistics and Computing, 2017, 27, 519-533.	0.8	94
17	Particle Filters for Partially Observed Diffusions. Journal of the Royal Statistical Society Series B: Statistical Methodology, 2008, 70, 755-777.	1.1	91
18	A sequential smoothing algorithm with linear computational cost. Biometrika, 2010, 97, 447-464.	1.3	88

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19	A computationally efficient nonparametric approach for changepoint detection. Statistics and Computing, 2017, 27, 1293-1305.	0.8	86
20	Changepoint Detection in the Presence of Outliers. Journal of the American Statistical Association, 2019, 114, 169-183.	1.8	79
21	Approximate likelihood methods for estimating local recombination rates. Journal of the Royal Statistical Society Series B: Statistical Methodology, 2002, 64, 657-680.	1.1	78
22	Exact Bayesian curve fitting and signal segmentation. IEEE Transactions on Signal Processing, 2005, 53, 2160-2166.	3.2	77
23	Computational methods for complex stochastic systems: a review of some alternatives to MCMC. Statistics and Computing, 2008, 18, 151-171.	0.8	74
24	Particle filters for mixture models with an unknown number of components. Statistics and Computing, 2004, 14, 11-21.	0.8	71
25	Analysis of changepoint models. , 2011, , 205-224.		68
26	SequenceLDhot: detecting recombination hotspots. Bioinformatics, 2006, 22, 3061-3066.	1.8	66
27	The Random Walk Metropolis: Linking Theory and Practice Through a Case Study. Statistical Science, 2010, 25, .	1.6	65
28	Inference for reaction networks using the linear noise approximation. Biometrics, 2014, 70, 457-466.	0.8	65
29	Sequential Monte Carlo Methods for State and Parameter Estimation in Abruptly Changing Environments. IEEE Transactions on Signal Processing, 2014, 62, 1245-1255.	3.2	64
30	Application of Coalescent Methods to Reveal Fine-Scale Rate Variation and Recombination Hotspots. Genetics, 2004, 167, 2067-2081.	1.2	62
31	Analysis of Recombination in Campylobacter jejuni from MLST Population Data. Journal of Molecular Evolution, 2005, 61, 333-340.	0.8	60
32	Computationally Efficient Changepoint Detection for a Range of Penalties. Journal of Computational and Graphical Statistics, 2017, 26, 134-143.	0.9	60
33	Particle Filters and Data Assimilation. Annual Review of Statistics and Its Application, 2018, 5, 421-449.	4.1	55
34	An exact Gibbs sampler for the Markov-modulated Poisson process. Journal of the Royal Statistical Society Series B: Statistical Methodology, 2006, 68, 767-784.	1.1	54
35	Piecewise Deterministic Markov Processes for Continuous-Time Monte Carlo. Statistical Science, 2018, 33, .	1.6	47
36	A Novel Method with Improved Power To Detect Recombination Hotspots from Polymorphism Data Reveals Multiple Hotspots in Human Genes. American Journal of Human Genetics, 2005, 77, 781-794.	2.6	45

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37	Stochastic Gradient Markov Chain Monte Carlo. Journal of the American Statistical Association, 2021, 116, 433-450.	1.8	45
38	Exact filtering for partially observed continuous time models. Journal of the Royal Statistical Society Series B: Statistical Methodology, 2004, 66, 771-789.	1.1	41
39	A Comparison of Three Estimators of the Population-Scaled Recombination Rate: Accuracy and Robustness. Genetics, 2005, 171, 2051-2062.	1.2	38
40	Fast nonconvex deconvolution of calcium imaging data. Biostatistics, 2020, 21, 709-726.	0.9	38
41	An Adaptive Sequential Monte Carlo Sampler. Bayesian Analysis, 2013, 8, .	1.6	37
42	Consistency of estimators of the population-scaled recombination rate. Theoretical Population Biology, 2003, 64, 67-79.	0.5	35
43	On the asymptotic efficiency of approximate Bayesian computation estimators. Biometrika, 2018, 105, 285-299.	1.3	34
44	Semi-automatic selection of summary statistics for ABC model choice. Statistical Applications in Genetics and Molecular Biology, 2014, 13, 67-82.	0.2	32
45	Perfect Simulation from Population Genetic Models with Selection. Theoretical Population Biology, 2001, 59, 263-279.	0.5	30
46	Detecting Changes in Slope With an <i><i>L</i>₀</i> Penalty. Journal of Computational and Graphical Statistics, 2019, 28, 265-275.	0.9	30
47	On Estimating the Ability of NBA Players. Journal of Quantitative Analysis in Sports, 2011, 7, .	0.5	29
48	Piecewise deterministic Markov processes for scalable Monte Carlo on restricted domains. Statistics and Probability Letters, 2018, 136, 148-154.	0.4	29
49	The common ancestor at a nonneutral locus. Journal of Applied Probability, 2002, 39, 38-54.	0.4	28
50	Random-Weight Particle Filtering of Continuous Time Processes. Journal of the Royal Statistical Society Series B: Statistical Methodology, 2010, 72, 497-512.	1.1	28
51	<i><scp>C</scp>ampylobacter jejuni</i> colonization and population structure in urban populations of ducks and starlings in <scp>N</scp> ew <scp>Z</scp> ealand. MicrobiologyOpen, 2013, 2, 659-673.	1.2	28
52	Control variates for stochastic gradient MCMC. Statistics and Computing, 2019, 29, 599-615.	0.8	27
53	Using Random Quasi-Monte-Carlo Within Particle Filters, With Application to Financial Time Series. Journal of Computational and Graphical Statistics, 2005, 14, 751-769.	0.9	26
54	Bayesian Analysis of Isochores. Journal of the American Statistical Association, 2009, 104, 132-141.	1.8	25

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55	Efficient Bayesian analysis of multiple changepoint models withÂdependence across segments. Statistics and Computing, 2011, 21, 217-229.	0.8	25
56	Markov Chain Monte Carlo for Exact Inference for Diffusions. Scandinavian Journal of Statistics, 2013, 40, 294-321.	0.9	25
57	Whole-Genome Comparison of Two Campylobacter jejuni Isolates of the Same Sequence Type Reveals Multiple Loci of Different Ancestral Lineage. PLoS ONE, 2011, 6, e27121.	1.1	25
58	Bayesian Detection of Abnormal Segments in Multiple Time Series. Bayesian Analysis, 2017, 12, .	1.6	24
59	The common ancestor at a nonneutral locus. Journal of Applied Probability, 2002, 39, 38-54.	0.4	21
60	Markov Chain Monte Carlo, Sufficient Statistics, and Particle Filters. Journal of Computational and Graphical Statistics, 2002, 11, 848-862.	0.9	20
61	Most Recent Changepoint Detection in Panel Data. Technometrics, 2019, 61, 88-98.	1.3	19
62	Spatio-temporal epidemiology of Campylobacter jejuni enteritis, in an area of Northwest England, 2000–2002. Epidemiology and Infection, 2010, 138, 1384-1390.	1.0	18
63	Convergence of regression-adjusted approximate Bayesian computation. Biometrika, 2018, 105, 301-318.	1.3	18
64	Detecting Abrupt Changes in the Presence of Local Fluctuations and Autocorrelated Noise. Journal of the American Statistical Association, 2022, 117, 2147-2162.	1.8	18
65	Filtering recursions for calculating likelihoods for queues based on inter-departure time data. Statistics and Computing, 2004, 14, 261-266.	0.8	16
66	Ancestral processes for non-neutral models of complex diseases. Theoretical Population Biology, 2003, 63, 115-130.	0.5	14
67	Innovative and Additive Outlier Robust Kalman Filtering With a Robust Particle Filter. IEEE Transactions on Signal Processing, 2022, 70, 47-56.	3.2	14
68	Particle Metropolis-adjusted Langevin algorithms. Biometrika, 2016, 103, 701-717.	1.3	13
69	Relating and comparing methods for detecting changes in mean. Stat, 2020, 9, e291.	0.3	13
70	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
71	Direct simulation for discrete mixture distributions. Statistics and Computing, 2005, 15, 125-133.	0.8	11
72	The stationary distribution of allele frequencies when selection acts at unlinked loci. Theoretical Population Biology, 2006, 70, 376-386.	0.5	11

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73	Perfect Simulation From Nonneutral Population Genetic Models: Variable Population Size and Population Subdivision. Genetics, 2006, 174, 1397-1406.	1.2	10
74	Estimating the Relative Roles of Recombination and Point Mutation in the Generation of Single Locus Variants in Campylobacter jejuni and Campylobacter coli. Journal of Molecular Evolution, 2012, 74, 273-280.	0.8	9
75	Augmentation schemes for particle MCMC. Statistics and Computing, 2016, 26, 1293-1306.	0.8	9
76	Subset Multivariate Collective and Point Anomaly Detection. Journal of Computational and Graphical Statistics, 2022, 31, 574-585.	0.9	9
77	A linear time method for the detection of collective andÂpoint anomalies. Statistical Analysis and Data Mining, 2022, 15, 494-508.	1.4	9
78	Maximum-Likelihood Estimation of Coalescence Times in Genealogical Trees. Genetics, 2005, 171, 2073-2084.	1.2	8
79	Postprocessing of Genealogical Trees. Genetics, 2007, 177, 347-358.	1.2	8
80	Testing for a Change in Mean after Changepoint Detection. Journal of the Royal Statistical Society Series B: Statistical Methodology, 2022, 84, 1082-1104.	1.1	8
81	Filtering Methods for Mixture Models. Journal of Computational and Graphical Statistics, 2007, 16, 586-607.	0.9	7
82	Calculating Strength of Schedule, and Choosing Teams for March Madness. American Statistician, 2010, 64, 108-115.	0.9	7
83	MCMC for State–Space Models. Chapman & Hall/CRC Interdisciplinary Statistics Series, 2011, , 513-530.	0.4	7
84	Classification of nonâ€stationary time series. Stat, 2014, 3, 144-157.	0.3	6
85	Bayesian Sequential Experimental Design for Binary Response Data with Application to Electromyographic Experiments. Bayesian Analysis, 2014, 9, .	1.6	6
86	Scalable change-point and anomaly detection in cross-correlated data with an application to condition monitoring. Annals of Applied Statistics, 2022, 16, .	0.5	6
87	sgmcmc : An <i>R</i> Package for Stochastic Gradient Markov Chain Monte Carlo. Journal of Statistical Software, 2019, 91, .	1.8	5
88	Reversible Jump PDMP Samplers for Variable Selection. Journal of the American Statistical Association, 2023, 118, 2915-2927.	1.8	5
89	Estimating the relative rate of recombination to mutation in bacteria from single-locus variants using composite likelihood methods. Annals of Applied Statistics, 2015, 9, .	0.5	4
90	BayesProject: Fast computation of a projection direction for multivariate changepoint detection. Statistics and Computing, 2020, 30, 1691-1705.	0.8	4

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91	Efficient Online Inference for Multiple Changepoint Problems. , 2006, , .		3
92	Tractable diffusion and coalescent processes for weakly correlated loci. Electronic Journal of Probability, 2015, 20, .	0.5	3
93	Quasiâ€stationary Monte Carlo and the ScaLE algorithm. Journal of the Royal Statistical Society Series B: Statistical Methodology, 2020, 82, 1167-1221.	1.1	3
94	Haplotypes: the joint distribution of alleles at linked loci. Journal of Applied Probability, 2003, 40, 505-512.	0.4	3
95	Haplotypes: the joint distribution of alleles at linked loci. Journal of Applied Probability, 2003, 40, 505-512.	0.4	2
96	On the Choice of Genetic Distance in Spatial-Genetic Studies. Genetics, 2007, 177, 427-434.	1.2	2
97	Editorial: Special issue on adaptive Monte Carlo methods. Statistics and Computing, 2008, 18, 341-342.	0.8	2
98	ON THE IDENTIFICATION AND MITIGATION OF WEAKNESSES IN THE KNOWLEDGE GRADIENT POLICY FOR MULTI-ARMED BANDITS. Probability in the Engineering and Informational Sciences, 2017, 31, 239-263.	0.6	2
99	Semi-automated simultaneous predictor selection for regression-SARIMA models. Statistics and Computing, 2020, 30, 1759-1778.	0.8	2
100	Motor unit number estimation via sequential Monte Carlo. Computational Statistics and Data Analysis, 2020, 144, 106845.	0.7	1
101	A Second-Order Approximation to the Log-Likelihood Surface for Mixture Models, With Application to the EM Algorithm. Journal of Computational and Graphical Statistics, 2004, 13, 739-750.	0.9	0
102	Comment on Article by Wyse et al Bayesian Analysis, 2011, 6, .	1.6	0