

Anthony N Pettitt

List of Publications by Year in descending order

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Version: 2024-02-01

76
papers

2,624
citations

201674

27
h-index

206112

48
g-index

81
all docs

81
docs citations

81
times ranked

2446
citing authors

#	ARTICLE	IF	CITATIONS
1	An efficient Markov chain Monte Carlo method for distributions with intractable normalising constants. <i>Biometrika</i> , 2006, 93, 451-458.	2.4	244
2	Overcrowding and understaffing in modern health-care systems: key determinants in methicillin-resistant <i>Staphylococcus aureus</i> transmission. <i>Lancet Infectious Diseases</i> , The, 2008, 8, 427-434.	9.1	191
3	A Review of Modern Computational Algorithms for Bayesian Optimal Design. <i>International Statistical Review</i> , 2016, 84, 128-154.	1.9	162
4	Estimation of Parameters for Macroparasite Population Evolution Using Approximate Bayesian Computation. <i>Biometrics</i> , 2011, 67, 225-233.	1.4	151
5	High incentive effects on vigilance performance during 72 hours of total sleep deprivation. <i>Acta Psychologica</i> , 1985, 58, 123-139.	1.5	150
6	Driving performance impairments due to hypovigilance on monotonous roads. <i>Accident Analysis and Prevention</i> , 2011, 43, 2037-2046.	5.7	110
7	A stochastic mathematical model of methicillin resistant <i>Staphylococcus aureus</i> transmission in an intensive care unit: Predicting the impact of interventions. <i>Journal of Theoretical Biology</i> , 2007, 245, 470-481.	1.7	108
8	Modeling Length of Stay in Hospital and Other Right Skewed Data: Comparison of Phase-Type, Gamma and Log-Normal Distributions. <i>Value in Health</i> , 2009, 12, 309-314.	0.3	99
9	Approximate Bayesian Computation for astronomical model analysis: a case study in galaxy demographics and morphological transformation at high redshift. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012, 425, 44-65.	4.4	75
10	Bayesian inference of hospital-acquired infectious diseases and control measures given imperfect surveillance data. <i>Biostatistics</i> , 2007, 8, 383-401.	1.5	62
11	Use of Stochastic Epidemic Modeling to Quantify Transmission Rates of Colonization With Methicillin-Resistant <i>Staphylococcus Aureus</i> in an Intensive Care Unit. <i>Infection Control and Hospital Epidemiology</i> , 2005, 26, 598-606.	1.8	61
12	Motor Unit Number Estimation-A Bayesian Approach. <i>Biometrics</i> , 2006, 62, 1235-1250.	1.4	61
13	Bayesian Indirect Inference Using a Parametric Auxiliary Model. <i>Statistical Science</i> , 2015, 30, .	2.8	58
14	A Sequential Monte Carlo Algorithm to Incorporate Model Uncertainty in Bayesian Sequential Design. <i>Journal of Computational and Graphical Statistics</i> , 2014, 23, 3-24.	1.7	57
15	Likelihood-free Bayesian estimation of multivariate quantile distributions. <i>Computational Statistics and Data Analysis</i> , 2011, 55, 2541-2556.	1.2	56
16	Quantifying uncertainty in parameter estimates for stochastic models of collective cell spreading using approximate Bayesian computation. <i>Mathematical Biosciences</i> , 2015, 263, 133-142.	1.9	51
17	Bayesian statistical MUNE method. <i>Muscle and Nerve</i> , 2007, 36, 206-213.	2.2	49
18	Approximate Bayesian Computation Using Indirect Inference. <i>Journal of the Royal Statistical Society Series C: Applied Statistics</i> , 2011, 60, 317-337.	1.0	48

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19	Efficient recursions for general factorisable models. <i>Biometrika</i> , 2004, 91, 751-757.	2.4	44
20	Bayesian Inference in Hidden Markov Random Fields for Binary Data Defined on Large Lattices. <i>Journal of Computational and Graphical Statistics</i> , 2009, 18, 243-261.	1.7	39
21	Sequential Monte Carlo for Bayesian sequentially designed experiments for discrete data. <i>Computational Statistics and Data Analysis</i> , 2013, 57, 320-335.	1.2	35
22	Bayesian Experimental Design for Models with Intractable Likelihoods. <i>Biometrics</i> , 2013, 69, 937-948.	1.4	35
23	The relationship between Bayesian motor unit number estimation and histological measurements of motor neurons in wild-type and SOD1G93A mice. <i>Clinical Neurophysiology</i> , 2012, 123, 2080-2091.	1.5	34
24	Characterizing an outbreak of vancomycin-resistant enterococci using hidden Markov models. <i>Journal of the Royal Society Interface</i> , 2007, 4, 745-754.	3.4	33
25	Fully Bayesian Experimental Design for Pharmacokinetic Studies. <i>Entropy</i> , 2015, 17, 1063-1089.	2.2	31
26	Censored observations, repeated measures and mixed effects models: An approach using the EM algorithm and normal errors. <i>Biometrika</i> , 1986, 73, 635-643.	2.4	29
27	Gates's™ Bidding Model. <i>Journal of Construction Engineering and Management - ASCE</i> , 2007, 133, 855-863.	3.8	29
28	Towards Bayesian experimental design for nonlinear models that require a large number of sampling times. <i>Computational Statistics and Data Analysis</i> , 2014, 70, 45-60.	1.2	29
29	Recursive Pathways to Marginal Likelihood Estimation with Prior-Sensitivity Analysis. <i>Statistical Science</i> , 2014, 29, .	2.8	28
30	Quantitative studies of lower motor neuron degeneration in amyotrophic lateral sclerosis: Evidence for exponential decay of motor unit numbers and greatest rate of loss at the site of onset. <i>Clinical Neurophysiology</i> , 2012, 123, 2092-2098.	1.5	24
31	?Online? monitoring and retrospective analysis of hospital outcomes based on a scan statistic. <i>Statistics in Medicine</i> , 2003, 22, 2861-2876.	1.6	23
32	Bayesian modelling of an epidemic of severe acute respiratory syndrome. <i>Bulletin of Mathematical Biology</i> , 2006, 68, 889-917.	1.9	23
33	Use of a quantitative gene expression assay based on micro-array techniques and a mathematical model for the investigation of chlamydial generation time. <i>Bulletin of Mathematical Biology</i> , 2004, 66, 523-537.	1.9	22
34	Likelihood Estimation and Inference for the Autologistic Model. <i>Journal of Computational and Graphical Statistics</i> , 2004, 13, 232-246.	1.7	20
35	Adaptive Bayesian compound designs for dose finding studies. <i>Journal of Statistical Planning and Inference</i> , 2012, 142, 1480-1492.	0.6	20
36	A fully Bayesian approach to inference for Coxian phase-type distributions with covariate dependent mean. <i>Computational Statistics and Data Analysis</i> , 2009, 53, 4311-4321.	1.2	19

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37	Posterior probabilities for a change-point using ranks. <i>Biometrika</i> , 1981, 68, 443-450.	2.4	18
38	Multivariate Markov Process Models for the Transmission of Methicillin-Resistant <i>Staphylococcus Aureus</i> in a Hospital Ward. <i>Biometrics</i> , 2008, 64, 851-859.	1.4	18
39	Real-time performance modelling of a Sustained Attention to Response Task. <i>Ergonomics</i> , 2010, 53, 1205-1216.	2.1	16
40	Use of Bayesian MUNE to show differing rate of loss of motor units in subgroups of ALS. <i>Clinical Neurophysiology</i> , 2012, 123, 2446-2453.	1.5	16
41	Melanoma Cell Colony Expansion Parameters Revealed by Approximate Bayesian Computation. <i>PLoS Computational Biology</i> , 2015, 11, e1004635.	3.2	16
42	Simulation-based fully Bayesian experimental design for mixed effects models. <i>Computational Statistics and Data Analysis</i> , 2015, 92, 26-39.	1.2	14
43	Scalable Bayesian Inference for the Inverse Temperature of a Hidden Potts Model. <i>Bayesian Analysis</i> , 2020, 15, .	3.0	14
44	Effect of within-sample dependence on the Mann-Whitney-Wilcoxon statistic. <i>Biometrika</i> , 1981, 68, 437-441.	2.4	12
45	Exact and Approximate Bayesian Inference for Low Integer-Valued Time Series Models with Intractable Likelihoods. <i>Bayesian Analysis</i> , 2016, 11, .	3.0	11
46	Parametric tests for agreement amongst groups of judges. <i>Biometrika</i> , 1982, 69, 365-375.	2.4	10
47	Biomarkers of disease in a case of familial lower motor neuron ALS. <i>Amyotrophic Lateral Sclerosis and Other Motor Neuron Disorders</i> , 2010, 11, 486-489.	2.1	10
48	Sampling designs on stream networks using the pseudo-Bayesian approach. <i>Environmental and Ecological Statistics</i> , 2014, 21, 751-773.	3.5	10
49	Predicting Reduced Driver Alertness on Monotonous Highways. <i>IEEE Pervasive Computing</i> , 2015, 14, 78-85.	1.3	10
50	Model Choice Problems Using Approximate Bayesian Computation with Applications to Pathogen Transmission Data Sets. <i>Biometrics</i> , 2015, 71, 198-207.	1.4	10
51	Optimal Bayesian Experimental Design for Models with Intractable Likelihoods Using Indirect Inference Applied to Biological Process Models. <i>Bayesian Analysis</i> , 2016, 11, .	3.0	10
52	Tied, grouped continuous and ordered categorical data: A comparison of two models. <i>Biometrika</i> , 1984, 71, 35-42.	2.4	9
53	A new variational Bayesian algorithm with application to human mobility pattern modeling. <i>Statistics and Computing</i> , 2012, 22, 185-203.	1.5	9
54	Investigating the Relationship Between Site-specific Yield and Protein of Cereal Crops. <i>Precision Agriculture</i> , 2005, 6, 41-51.	6.0	8

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55	Using Approximate Bayesian Computation to Estimate Transmission Rates of Nosocomial Pathogens. <i>Statistical Communications in Infectious Diseases</i> , 2011, 3, .	0.2	8
56	ABC model selection for spatial extremes models applied to South Australian maximum temperature data. <i>Computational Statistics and Data Analysis</i> , 2018, 128, 128-144.	1.2	8
57	Stability of Approximations of Average Run Length of Risk-Adjusted CUSUM Schemes Using the Markov Approach: Comparing Two Methods of Calculating Transition Probabilities. <i>Communications in Statistics Part B: Simulation and Computation</i> , 2007, 36, 471-482.	1.2	7
58	Variational Bayes and the Reduced Dependence Approximation for the Autologistic Model on an Irregular Grid With Applications. <i>Journal of Computational and Graphical Statistics</i> , 2012, 21, 781-796.	1.7	6
59	Marginal reversible jump Markov chain Monte Carlo with application to motor unit number estimation. <i>Computational Statistics and Data Analysis</i> , 2014, 72, 128-146.	1.2	6
60	Results of Bayesian statistical analysis in normal and ALS subjects. <i>Supplements To Clinical Neurophysiology</i> , 2009, 60, 57-63.	2.1	5
61	The Variational Bayesian Approach to Fitting Mixture Models to Circular Wave Direction Data. <i>Journal of Applied Meteorology and Climatology</i> , 2012, 51, 1750-1762.	1.5	5
62	Recent Bayesian approaches for spatial analysis of 2-D images with application to environmental modelling. <i>Environmental and Ecological Statistics</i> , 2015, 22, 571-600.	3.5	5
63	Comparison of EEGs Before and After Stunning of Cattle Taking Account of Animal-to-Animal Variation. <i>Biometrical Journal</i> , 1992, 34, 815-825.	1.0	4
64	Smoothing a discrete hazard function for the number of patients colonized with Methicillin-resistant <i>Staphylococcus Aureus</i> in an intensive care unit. <i>Statistics in Medicine</i> , 2004, 23, 1247-1258.	1.6	4
65	Biological basis for motor unit number estimation through Bayesian statistical analysis of the stimulus-response curve. <i>Supplements To Clinical Neurophysiology</i> , 2009, 60, 39-45.	2.1	4
66	Bayesian Computation with Intractable Likelihoods. <i>Lecture Notes in Mathematics</i> , 2020, , 137-151.	0.2	4
67	Tests of Loglinear and Linear Relative Risks for Cox's Model. <i>Biometrics</i> , 1995, 51, 1502.	1.4	3
68	Using Samples to Estimate the Sensitivity and Specificity of a Surveillance Process. <i>Infection Control and Hospital Epidemiology</i> , 2008, 29, 559-563.	1.8	3
69	Transdimensional sequential Monte Carlo using variational Bayes - SMCVB. <i>Computational Statistics and Data Analysis</i> , 2016, 93, 246-254.	1.2	3
70	Bayesian Parametric Bootstrap for Models with Intractable Likelihoods. <i>Bayesian Analysis</i> , 2019, 14, .	3.0	3
71	Quantifying conditional probability tables in Bayesian networks: Bayesian regression for scenario-based encoding of elicited expert assessments on feral pig habitat. <i>Journal of Applied Statistics</i> , 2020, 47, 1848-1884.	1.3	3
72	Incorporating adverse event relatedness into dose-finding clinical trial designs. <i>Statistics in Medicine</i> , 2014, 33, 1146-1161.	1.6	2

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73	Bayesian meta-analysis models for cross cancer genomic investigation of pleiotropic effects using group structure. <i>Statistics in Medicine</i> , 2021, 40, 1498-1518.	1.6	2
74	Problems of short scales: the case of the Aston studies. <i>Quality and Quantity</i> , 1985, 19, 375-382.	3.7	1
75	BAYESIAN HIDDEN MARKOV MODELS FOR LONGITUDINAL COUNTS. <i>Australian and New Zealand Journal of Statistics</i> , 2005, 47, 129-145.	0.9	1
76	Quantifying the relative effect of environmental contamination on surgical ward MRSA incidence: An exploratory analysis. <i>Infection, Disease and Health</i> , 2018, 23, 127-136.	1.1	1