

Robert Aykroyd

List of Publications by Year in descending order

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Version: 2024-02-01

58
papers

1,164
citations

361413

20
h-index

395702

33
g-index

58
all docs

58
docs citations

58
times ranked

799
citing authors

#	ARTICLE	IF	CITATIONS
1	Technical note: Regression analysis in adult age estimation. <i>American Journal of Physical Anthropology</i> , 1997, 104, 259-265.	2.1	125
2	Nasty, Brutish, but Not Necessarily Short: A Reconsideration of the Statistical Methods Used to Calculate Age at Death from Adult Human Skeletal and Dental Age Indicators. <i>American Antiquity</i> , 1999, 64, 55-70.	1.1	124
3	A Bayesian Approach to Adult Human Age Estimation from Dental Observations by Johanson's Age Changes. <i>Journal of Forensic Sciences</i> , 1996, 41, 189-194.	1.6	121
4	Birnbaum-Saunders spatial regression models: Diagnostics and application to chemical data. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2018, 177, 114-128.	3.5	51
5	Nonparametric calibration for age estimation. <i>Journal of the Royal Statistical Society Series C: Applied Statistics</i> , 2002, 51, 183-196.	1.0	50
6	Recent developments of control charts, identification of big data sources and future trends of current research. <i>Technological Forecasting and Social Change</i> , 2019, 144, 221-232.	11.6	50
7	Birnbaum-Saunders spatial modelling and diagnostics applied to agricultural engineering data. <i>Stochastic Environmental Research and Risk Assessment</i> , 2017, 31, 105-124.	4.0	48
8	Bayesian Probabilistic Numerical Methods in Time-Dependent State Estimation for Industrial Hydrocyclone Equipment. <i>Journal of the American Statistical Association</i> , 2019, 114, 1518-1531.	3.1	44
9	Birnbaum-Saunders autoregressive conditional duration models applied to high-frequency financial data. <i>Statistical Papers</i> , 2019, 60, 1605-1629.	1.2	44
10	Hybrid PET-MR list-mode kernelized expectation maximization reconstruction. <i>Inverse Problems</i> , 2019, 35, 044001.	2.0	36
11	Bayesian estimation for homogeneous and inhomogeneous Gaussian random fields. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 1998, 20, 533-539.	13.9	35
12	A kernel-based Bayesian approach to climatic reconstruction. <i>Holocene</i> , 1999, 9, 495-500.	1.7	33
13	Inhomogeneous Prior Models for Image Reconstruction. <i>Journal of the American Statistical Association</i> , 1999, 94, 934-946.	3.1	32
14	Markov chain Monte Carlo techniques and spatial-temporal modelling for medical EIT. <i>Physiological Measurement</i> , 2004, 25, 181-194.	2.1	27
15	A new BISARMA time series model for forecasting mortality using weather and particulate matter data. <i>Journal of Forecasting</i> , 2021, 40, 346-364.	2.8	27
16	Temporal variability in the strength of proxy-climate correlations. <i>Geophysical Research Letters</i> , 2001, 28, 1559-1562.	4.0	23
17	An errors-in-variables model based on the Birnbaum-Saunders distribution and its diagnostics with an application to earthquake data. <i>Stochastic Environmental Research and Risk Assessment</i> , 2020, 34, 369-380.	4.0	23
18	Effect of PET-MR Inconsistency in the Kernel Image Reconstruction Method. <i>IEEE Transactions on Radiation and Plasma Medical Sciences</i> , 2019, 3, 400-409.	3.7	22

#	ARTICLE	IF	CITATIONS
19	L-moments of the Birnbaum-Saunders distribution and its extreme value version: estimation, goodness of fit and application to earthquake data. <i>Journal of Applied Statistics</i> , 2018, 45, 187-209.	1.3	21
20	Multivariate Birnbaum-Saunders Distributions: Modelling and Applications. <i>Risks</i> , 2018, 6, 21.	2.4	20
21	Advanced Statistical Analysis as a Novel Tool to Pneumatic Conveying Monitoring and Control Strategy Development. <i>Particle and Particle Systems Characterization</i> , 2006, 23, 289-296.	2.3	19
22	A boundary-element approach for the complete-electrode model of EIT illustrated using simulated and real data. <i>Inverse Problems in Science and Engineering</i> , 2007, 15, 441-461.	1.2	19
23	Sequential particle filter estimation of a time-dependent heat transfer coefficient in a multidimensional nonlinear inverse heat conduction problem. <i>Applied Mathematical Modelling</i> , 2021, 89, 654-668.	4.2	16
24	Spatial-temporal modeling for electrical impedance imaging of a mixing process. <i>Review of Scientific Instruments</i> , 2005, 76, 073703.	1.3	12
25	Iterative reconstruction incorporating background correction improves quantification of [18F]-NaF PET/CT images of patients with abdominal aortic aneurysm. <i>Journal of Nuclear Cardiology</i> , 2021, 28, 1875-1886.	2.1	12
26	Unexpected Spatial Patterns in Exponential Family Auto Models. <i>Graphical Models</i> , 1996, 58, 452-463.	1.3	11
27	Hybrid PET/MR Kernelised Expectation Maximisation Reconstruction for Improved Image-Derived Estimation of the Input Function from the Aorta of Rabbits. <i>Contrast Media and Molecular Imaging</i> , 2019, 2019, 1-12.	0.8	11
28	Estimates of uncertainty in the prediction of past climatic variables. <i>Applied Geochemistry</i> , 2008, 23, 2961-2965.	3.0	10
29	Conditional Bayes reconstruction for ERT data using resistance monotonicity information. <i>Measurement Science and Technology</i> , 2006, 17, 2405-2413.	2.6	7
30	Discussion of "Birnbaum-Saunders distribution: A review of models, analysis, and applications" and a novel multivariate data analytics for an economics example in the textile industry. <i>Applied Stochastic Models in Business and Industry</i> , 2019, 35, 112-117.	1.5	7
31	Inhomogeneous Prior Models for Image Reconstruction. <i>Journal of the American Statistical Association</i> , 1999, 94, 934.	3.1	7
32	Bayesian Methods Applied to Survey Data From Archeological Magnetometry. <i>Journal of the American Statistical Association</i> , 2001, 96, 64-76.	3.1	6
33	Comparison of Correction Techniques for the Spillin Effect in Emission Tomography. <i>IEEE Transactions on Radiation and Plasma Medical Sciences</i> , 2020, 4, 422-432.	3.7	6
34	Use of the EM algorithm for maximum likelihood estimation in electron microscope autoradiography. <i>Biometrika</i> , 1994, 81, 41-52.	2.4	5
35	A wavelet approach to shape analysis for spinal curves. <i>Journal of Applied Statistics</i> , 2003, 30, 605-623.	1.3	5
36	Advanced statistical computing for capacitance tomography as a monitoring and control tool. , 2005, , ,		5

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37	Statistical image reconstruction. , 2015, , 401-427.		5
38	Classification of multiple time signals using localized frequency characteristics applied to industrial process monitoring. Computational Statistics and Data Analysis, 2016, 94, 351-362.	1.2	5
39	A flexible statistical and efficient computational approach to object location applied to electrical tomography. Statistics and Computing, 2006, 16, 363-375.	1.5	4
40	Comparative evaluation of image reconstruction methods for the siemens PET-MR scanner using the stir library. , 2016, , .		4
41	Statistical properties of Poisson-Voronoi tessellation cells in bounded regions. Journal of Statistical Computation and Simulation, 2021, 91, 915-933.	1.2	4
42	Improved identification of abdominal aortic aneurysm using the Kernelized Expectation Maximization algorithm. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2021, 379, 20200201.	3.4	4
43	Neighbourhood structure estimation of images using hierarchical testing. Electronics Letters, 1999, 35, 2188.	1.0	3
44	Horizon Detection in Seismic Data: An Application of Linked Feature Detection from Multiple Time Series. Advances in Statistics, 2014, 2014, 1-10.	0.5	3
45	Sequential estimation of the time-dependent heat transfer coefficient using the method of fundamental solutions and particle filters. Inverse Problems in Science and Engineering, 0, , 1-20.	1.2	3
46	An improved analysis of experimental data from ¹²⁵ I hot-line autoradiographs: allowing for the effects of background grains. Journal of Microscopy, 1991, 162, 271-278.	1.8	2
47	A new statistical approach to reconstruction from area magnetometry data. Archaeological Prospection, 1995, 2, 197-205.	2.2	2
48	Partition Models in the Analysis of Autoradiographic Images. Journal of the Royal Statistical Society Series C: Applied Statistics, 1995, 44, 441.	1.0	2
49	Approximations for Gibbs Distribution Normalising Constants. Statistics and Computing, 2002, 12, 391-397.	1.5	2
50	Hybrid PET-MR list-mode kernelized expectation maximization reconstruction for quantitative PET images of the carotid arteries. , 2017, , .		2
51	Modeling Mortality Based on Pollution and Temperature Using a New Birnbaum-Saunders Autoregressive Moving Average Structure with Regressors and Related-Sensors Data. Sensors, 2021, 21, 6518.	3.8	2
52	Parametric Modelling Algorithms in Electrical Capacitance Tomography for Multiphase Flow Monitoring. , 2006, , .		1
53	Generalized Student's <i>t</i> -distribution mixtures for autoradiographic image spread modelling. Biometrical Journal, 2016, 58, 1021-1038.	1.0	1
54	A Bayesian approach to wavelet-based modelling of discontinuous functions applied to inverse problems. Communications in Statistics Part B: Simulation and Computation, 2020, 49, 207-225.	1.2	1

#	ARTICLE	IF	CITATIONS
55	Modelling and predicting flow regimes using wavelet representations. , 2006, , .		0
56	Exploratory Methods for the Study of Incomplete and Intersecting Shape Boundaries from Landmark Data. Journal of Probability and Statistics, 2016, 2016, 1-9.	0.7	0
57	Spatially adaptive Bayesian image reconstruction through locally-modulated Markov random field models. Brazilian Journal of Probability and Statistics, 2019, 33, .	0.4	0
58	Bayesian modeling of temperature-related mortality with latent functional relationships. Communications in Statistics - Theory and Methods, 2019, 48, 3-14.	1.0	0