

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	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
2	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
3	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
4	Statistical properties of Poisson-Voronoi tessellation cells in bounded regions. <i>Journal of Statistical Computation and Simulation</i> , 2021, 91, 915-933.	1.2	4
5	Improved identification of abdominal aortic aneurysm using the Kernelized Expectation Maximization algorithm. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2021, 379, 20200201.	3.4	4
6	Modeling Mortality Based on Pollution and Temperature Using a New Birnbaum-Saunders Autoregressive Moving Average Structure with Regressors and Related-Sensors Data. <i>Sensors</i> , 2021, 21, 6518.	3.8	2
7	A Bayesian approach to wavelet-based modelling of discontinuous functions applied to inverse problems. <i>Communications in Statistics Part B: Simulation and Computation</i> , 2020, 49, 207-225.	1.2	1
8	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
9	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
10	Spatially adaptive Bayesian image reconstruction through locally-modulated Markov random field models. <i>Brazilian Journal of Probability and Statistics</i> , 2019, 33, .	0.4	0
11	Hybrid PET-MR list-mode kernelized expectation maximization reconstruction. <i>Inverse Problems</i> , 2019, 35, 044001.	2.0	36
12	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
13	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
14	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
15	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
16	Discussion of the 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
17	Bayesian modeling of temperature-related mortality with latent functional relationships. <i>Communications in Statistics - Theory and Methods</i> , 2019, 48, 3-14.	1.0	0
18	Birnbaum-Saunders autoregressive conditional duration models applied to high-frequency financial data. <i>Statistical Papers</i> , 2019, 60, 1605-1629.	1.2	44

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19	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
20	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
21	Multivariate Birnbaum-Saunders Distributions: Modelling and Applications. <i>Risks</i> , 2018, 6, 21.	2.4	20
22	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
23	Hybrid PET-MR list-mode kernelized expectation maximization reconstruction for quantitative PET images of the carotid arteries. , 2017, , .		2
24	Exploratory Methods for the Study of Incomplete and Intersecting Shape Boundaries from Landmark Data. <i>Journal of Probability and Statistics</i> , 2016, 2016, 1-9.	0.7	0
25	Comparative evaluation of image reconstruction methods for the siemens PET-MR scanner using the stir library. , 2016, , .		4
26	Generalized Student's t -distribution mixtures for autoradiographic image spread modelling. <i>Biometrical Journal</i> , 2016, 58, 1021-1038.	1.0	1
27	Classification of multiple time signals using localized frequency characteristics applied to industrial process monitoring. <i>Computational Statistics and Data Analysis</i> , 2016, 94, 351-362.	1.2	5
28	Statistical image reconstruction. , 2015, , 401-427.		5
29	Horizon Detection in Seismic Data: An Application of Linked Feature Detection from Multiple Time Series. <i>Advances in Statistics</i> , 2014, 2014, 1-10.	0.5	3
30	Estimates of uncertainty in the prediction of past climatic variables. <i>Applied Geochemistry</i> , 2008, 23, 2961-2965.	3.0	10
31	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
32	Parametric Modelling Algorithms in Electrical Capacitance Tomography for Multiphase Flow Monitoring. , 2006, , .		1
33	Modelling and predicting flow regimes using wavelet representations. , 2006, , .		0
34	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
35	A flexible statistical and efficient computational approach to object location applied to electrical tomography. <i>Statistics and Computing</i> , 2006, 16, 363-375.	1.5	4
36	Conditional Bayes reconstruction for ERT data using resistance monotonicity information. <i>Measurement Science and Technology</i> , 2006, 17, 2405-2413.	2.6	7

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37	Spatial-temporal modeling for electrical impedance imaging of a mixing process. Review of Scientific Instruments, 2005, 76, 073703.	1.3	12
38	Advanced statistical computing for capacitance tomography as a monitoring and control tool. , 2005, , ,		5
39	Markov chain Monte Carlo techniques and spatial-temporal modelling for medical EIT. Physiological Measurement, 2004, 25, 181-194.	2.1	27
40	A wavelet approach to shape analysis for spinal curves. Journal of Applied Statistics, 2003, 30, 605-623.	1.3	5
41	Nonparametric calibration for age estimation. Journal of the Royal Statistical Society Series C: Applied Statistics, 2002, 51, 183-196.	1.0	50
42	Approximations for Gibbs Distribution Normalising Constants. Statistics and Computing, 2002, 12, 391-397.	1.5	2
43	Bayesian Methods Applied to Survey Data From Archeological Magnetometry. Journal of the American Statistical Association, 2001, 96, 64-76.	3.1	6
44	Temporal variability in the strength of proxy-climate correlations. Geophysical Research Letters, 2001, 28, 1559-1562.	4.0	23
45	A kernel-based Bayesian approach to climatic reconstruction. Holocene, 1999, 9, 495-500.	1.7	33
46	Inhomogeneous Prior Models for Image Reconstruction. Journal of the American Statistical Association, 1999, 94, 934-946.	3.1	32
47	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. American Antiquity, 1999, 64, 55-70.	1.1	124
48	Neighbourhood structure estimation of images using hierarchical testing. Electronics Letters, 1999, 35, 2188.	1.0	3
49	Inhomogeneous Prior Models for Image Reconstruction. Journal of the American Statistical Association, 1999, 94, 934.	3.1	7
50	Bayesian estimation for homogeneous and inhomogeneous Gaussian random fields. IEEE Transactions on Pattern Analysis and Machine Intelligence, 1998, 20, 533-539.	13.9	35
51	Technical note: Regression analysis in adult age estimation. American Journal of Physical Anthropology, 1997, 104, 259-265.	2.1	125
52	Unexpected Spatial Patterns in Exponential Family Auto Models. Graphical Models, 1996, 58, 452-463.	1.3	11
53	A Bayesian Approach to Adult Human Age Estimation from Dental Observations by Johanson's Age Changes. Journal of Forensic Sciences, 1996, 41, 189-194.	1.6	121
54	A new statistical approach to reconstruction from area magnetometry data. Archaeological Prospection, 1995, 2, 197-205.	2.2	2

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55	Partition Models in the Analysis of Autoradiographic Images. Journal of the Royal Statistical Society Series C: Applied Statistics, 1995, 44, 441.	1.0	2
56	Use of the EM algorithm for maximum likelihood estimation in electron microscope autoradiography. Biometrika, 1994, 81, 41-52.	2.4	5
57	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
58	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