

Anthony C Atkinson

List of Publications by Year in descending order

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Version: 2024-02-01

78
papers

1,713
citations

361413

20
h-index

315739

38
g-index

86
all docs

86
docs citations

86
times ranked

995
citing authors

#	ARTICLE	IF	CITATIONS
1	Automatic robust Box-Cox and extended Yeo-Johnson transformations in regression. <i>Statistical Methods and Applications</i> , 2023, 32, 75-102.	1.2	6
2	Optimal Design of Experiments for Implicit Models. <i>Journal of the American Statistical Association</i> , 2022, 117, 1424-1437.	3.1	2
3	A model-based framework assisting the design of vapor-liquid equilibrium experimental plans. <i>Computers and Chemical Engineering</i> , 2021, 145, 107168.	3.8	3
4	The Box-Cox Transformation: Review and Extensions. <i>Statistical Science</i> , 2021, 36, .	2.8	57
5	fsdaSAS: A Package for Robust Regression for Very Large Datasets Including the Batch Forward Search. <i>Stats</i> , 2021, 4, 327-347.	0.9	6
6	Optimal experimental design for linear time invariant state-space models. <i>Statistics and Computing</i> , 2021, 31, 1.	1.5	1
7	The Analysis of Transformations for Profit-and-Loss Data. <i>Journal of the Royal Statistical Society Series C: Applied Statistics</i> , 2020, 69, 251-275.	1.0	7
8	Statistical and Proactive Analysis of an Inter-Laboratory Comparison: The Radiocarbon Dating of the Shroud of Turin. <i>Entropy</i> , 2020, 22, 926.	2.2	1
9	Robust Regression with Density Power Divergence: Theory, Comparisons, and Data Analysis. <i>Entropy</i> , 2020, 22, 399.	2.2	12
10	Comments on: Data science, big data and statistics. <i>Test</i> , 2019, 28, 349-352.	1.1	3
11	Optimal Design of Experiments for Liquid-Liquid Equilibria Characterization via Semidefinite Programming. <i>Processes</i> , 2019, 7, 834.	2.8	1
12	Optimal designs of experiments for non-isothermal kinetic rates: analysis of different strategies. <i>Optimization and Engineering</i> , 2019, 20, 725-748.	2.4	0
13	Efficient robust methods via monitoring for clustering and multivariate data analysis. <i>Pattern Recognition</i> , 2019, 88, 246-260.	8.1	10
14	The Use of Prior Information in Very Robust Regression for Fraud Detection. <i>International Statistical Review</i> , 2018, 86, 205-218.	1.9	10
15	The power of monitoring: how to make the most of a contaminated multivariate sample. <i>Statistical Methods and Applications</i> , 2018, 27, 559-587.	1.2	29
16	Cluster detection and clustering with random start forward searches. <i>Journal of Applied Statistics</i> , 2018, 45, 777-798.	1.3	12
17	Rejoinder to the discussion of "The power of monitoring: how to make the most of a contaminated multivariate sample". <i>Statistical Methods and Applications</i> , 2018, 27, 661-666.	1.2	11
18	Optimum design and sequential treatment allocation in an experiment in deep brain stimulation with sets of treatment combinations. <i>Statistics in Medicine</i> , 2017, 36, 4804-4815.	1.6	0

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19	Robust Bayesian regression with the forward search: theory and data analysis. <i>Test</i> , 2017, 26, 869-886.	1.1	9
20	Optimal response and covariate-adaptive biased-coin designs for clinical trials with continuous multivariate or longitudinal responses. <i>Computational Statistics and Data Analysis</i> , 2017, 113, 297-310.	1.2	2
21	Discussion of "Asymptotic Theory of Outlier Detection Algorithms for Linear Time Series Regression Models" by Johansen and Nielsen. <i>Scandinavian Journal of Statistics</i> , 2016, 43, 349-352.	1.4	1
22	Robust methods for heteroskedastic regression. <i>Computational Statistics and Data Analysis</i> , 2016, 104, 209-222.	1.2	13
23	Optimum Experiments with Sets of Treatment Combinations. <i>Contributions To Statistics</i> , 2016, , 19-26.	0.2	2
24	How to Marry Robustness and Applied Statistics. , 2016, , 51-64.		1
25	Hubert, Rousseeuw and Segaert: multivariate functional outlier detection. <i>Statistical Methods and Applications</i> , 2015, 24, 257-261.	1.2	0
26	A Semi-Infinite Programming based algorithm for determining T-optimum designs for model discrimination. <i>Journal of Multivariate Analysis</i> , 2015, 135, 11-24.	1.0	19
27	Finding the Number of Disparate Clusters with Background Contamination. <i>Studies in Classification, Data Analysis, and Knowledge Organization</i> , 2015, , 29-42.	0.2	2
28	Monitoring robust regression. <i>Electronic Journal of Statistics</i> , 2014, 8, .	0.7	35
29	Elemental information matrices and optimal experimental design for generalized regression models. <i>Journal of Statistical Planning and Inference</i> , 2014, 144, 81-91.	0.6	35
30	Optimum designs for the equality of parameters in enzyme inhibition kinetic models. <i>Journal of Statistical Planning and Inference</i> , 2014, 144, 47-54.	0.6	0
31	A Parametric Framework for the Comparison of Methods of Very Robust Regression. <i>Statistical Science</i> , 2014, 29, .	2.8	20
32	Selecting a Biased-Coin Design. <i>Statistical Science</i> , 2014, 29, .	2.8	23
33	Regression analysis with partially labelled regressors: carbon dating of the Shroud of Turin. <i>Statistics and Computing</i> , 2013, 23, 551-561.	1.5	28
34	Robust Experimental Design for Choosing Between Models of Enzyme Inhibition. <i>Contributions To Statistics</i> , 2013, , 11-18.	0.2	0
35	Optimum Experimental Designs for Choosing Between Competitive and Non Competitive Models of Enzyme Inhibition. <i>Communications in Statistics - Theory and Methods</i> , 2012, 41, 2283-2296.	1.0	7
36	The Selection of ARIMA Models With or Without Regressors. <i>SSRN Electronic Journal</i> , 2012, , .	0.4	0

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37	Bias and loss: the two sides of a biased coin. <i>Statistics in Medicine</i> , 2012, 31, 3494-3503.	1.6	5
38	Benchmark testing of algorithms for very robust regression: FS, LMS and LTS. <i>Computational Statistics and Data Analysis</i> , 2012, 56, 2501-2512.	1.2	20
39	Problems and Challenges in the Analysis of Complex Data: Static and Dynamic Approaches. , 2012, , 145-157.		4
40	Optimum Design of Experiments for Enzyme Inhibition Kinetic Models. <i>Journal of Biopharmaceutical Statistics</i> , 2011, 21, 555-572.	0.8	18
41	Some Perspectives on Multivariate Outlier Detection. <i>Studies in Classification, Data Analysis, and Knowledge Organization</i> , 2011, , 231-238.	0.2	2
42	The forward search: Theory and data analysis. <i>Journal of the Korean Statistical Society</i> , 2010, 39, 117-134.	0.4	66
43	Reply to discussion of "The Forward Search: Theory and data analysis" <i>Journal of the Korean Statistical Society</i> , 2010, 39, 161-163.	0.4	3
44	Robust model selection with flexible trimming. <i>Computational Statistics and Data Analysis</i> , 2010, 54, 3300-3312.	1.2	11
45	Robust Clustering for Performance Evaluation. <i>Studies in Classification, Data Analysis, and Knowledge Organization</i> , 2010, , 381-390.	0.2	1
46	Controlling the size of multivariate outlier tests with the MCD estimator of scatter. <i>Statistics and Computing</i> , 2009, 19, 341-353.	1.5	30
47	Finding an Unknown Number of Multivariate Outliers. <i>Journal of the Royal Statistical Society Series B: Statistical Methodology</i> , 2009, 71, 447-466.	2.2	134
48	Optimum and other response surface designs. Comments on "Response Surface Design Evaluation and Comparison" by Anderson-Cook, Borror and Montgomery. <i>Journal of Statistical Planning and Inference</i> , 2009, 139, 662-668.	0.6	1
49	Examples of the use of an equivalence theorem in constructing optimum experimental designs for random-effects nonlinear regression models. <i>Journal of Statistical Planning and Inference</i> , 2008, 138, 2595-2606.	0.6	16
50	Optimal experimental design in chromatography. <i>Journal of Chromatography A</i> , 2008, 1177, 1-11.	3.7	39
51	Econometric Applications of the Forward Search in Regression: Robustness, Diagnostics, and Graphics. <i>Econometric Reviews</i> , 2008, 28, 21-39.	1.1	9
52	A Robust and Diagnostic Information Criterion for Selecting Regression Models. <i>Journal of the Japan Statistical Society</i> , 2008, 38, 3-14.	0.1	9
53	Fast calibrations of the forward search for testing multiple outliers in regression. <i>Advances in Data Analysis and Classification</i> , 2007, 1, 123-141.	1.4	22
54	Building Regression Models with the Forward Search. <i>Journal of Computing and Information Technology</i> , 2007, 15, 287.	0.3	5

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55	Distribution Theory and Simulations for Tests of Outliers in Regression. Journal of Computational and Graphical Statistics, 2006, 15, 460-476.	1.7	34
56	Random Start Forward Searches with Envelopes for Detecting Clusters in Multivariate Data. , 2006, , 163-171.		11
57	GENERALIZED LINEAR MODELS AND RESPONSE TRANSFORMATION. , 2006, , 173-202.		3
58	Bayesian Adaptive Biased-Coin Designs for Clinical Trials with Normal Responses. Biometrics, 2005, 61, 118-125.	1.4	64
59	Efficiencies for optimum designs when transforming the response in nonlinear models with nonconstant variance. Metrika, 2005, 62, 127-138.	0.8	2
60	Robust Optimum Designs for Transformation of the Responses in a Multivariate Chemical Kinetic Model. Technometrics, 2005, 47, 478-487.	1.9	5
61	The forward search and data visualisation. Computational Statistics, 2004, 19, 29-54.	1.5	12
62	Exploring Multivariate Data with the Forward Search. Springer Series in Statistics, 2004, , .	0.9	141
63	Horwitz's rule, transforming both sides and the design of experiments for mechanistic models. Journal of the Royal Statistical Society Series C: Applied Statistics, 2003, 52, 261-278.	1.0	18
64	The distribution of loss in two-treatment biased-coin designs. Biostatistics, 2003, 4, 179-193.	1.5	13
65	Tests in the fan plot for robust, diagnostic transformations in regression. Chemometrics and Intelligent Laboratory Systems, 2002, 60, 87-100.	3.5	21
66	The comparison of designs for sequential clinical trials with covariate information. Journal of the Royal Statistical Society Series A: Statistics in Society, 2002, 165, 349-373.	1.1	66
67	The Forward Search. , 2002, , 587-592.		1
68	Regression Diagnostics for Binomial Data from the Forward Search. Journal of the Royal Statistical Society: Series D (the Statistician), 2001, 50, 63-78.	0.2	12
69	A Unified Approach to Outliers, Influence, and Transformations in Discriminant Analysis. Journal of Computational and Graphical Statistics, 2001, 10, 513-544.	1.7	32
70	Robust Diagnostic Data Analysis: Transformations in Regression. Technometrics, 2000, 42, 384-394.	1.9	30
71	Robust Diagnostic Regression Analysis. Springer Series in Statistics, 2000, , .	0.9	274
72	Robust Diagnostic Data Analysis: Transformations in Regression. Technometrics, 2000, 42, 384.	1.9	6

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73	Optimum Experimental Designs for Multinomial Logistic Models. <i>Biometrics</i> , 1999, 55, 437-444.	1.4	33
74	Optimum biased-coin designs for sequential treatment allocation with covariate information. , 1999, 18, 1741-1752.		70
75	Compound D - and D - S -Optimum Designs for Determining the Order of a Chemical Reaction. <i>Technometrics</i> , 1997, 39, 347-356.	1.9	45
76	Designing for a Response Transformation Parameter. <i>Journal of the Royal Statistical Society Series B: Statistical Methodology</i> , 1997, 59, 111-124.	2.2	12
77	Bivariate boxplots, multiple outliers, multivariate transformations and discriminant analysis: The 1997 Hunter Lecture. <i>Environmetrics</i> , 1997, 8, 583-602.	1.4	27
78	Grouped Likelihood for the Shifted Power Transformation. <i>Journal of the Royal Statistical Society Series B: Methodological</i> , 1991, 53, 473-482.	0.7	9