

Carlos Agra Coelho

List of Publications by Year in descending order

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Version: 2024-02-01

74
papers

794
citations

687363

13
h-index

526287

27
g-index

80
all docs

80
docs citations

80
times ranked

449
citing authors

#	ARTICLE	IF	CITATIONS
1	SPI-based drought category prediction using loglinear models. <i>Journal of Hydrology</i> , 2008, 354, 116-130.	5.4	132
2	The Generalized Integer Gamma Distribution – A Basis for Distributions in Multivariate Statistics. <i>Journal of Multivariate Analysis</i> , 1998, 64, 86-102.	1.0	105
3	Drought class transition analysis through Markov and Loglinear models, an approach to early warning. <i>Agricultural Water Management</i> , 2005, 77, 59-81.	5.6	105
4	The generalized near-integer Gamma distribution: a basis for “near-exact” approximations to the distribution of statistics which are the product of an odd number of independent Beta random variables. <i>Journal of Multivariate Analysis</i> , 2004, 89, 191-218.	1.0	62
5	A general near-exact distribution theory for the most common likelihood ratio test statistics used in Multivariate Analysis. <i>Test</i> , 2011, 20, 180-203.	1.1	42
6	Near-Exact Distributions for Certain Likelihood Ratio Test Statistics. <i>Journal of Statistical Theory and Practice</i> , 2010, 4, 711-725.	0.5	22
7	Near-exact distributions for the likelihood ratio test statistic to test equality of several variance-covariance matrices in elliptically contoured distributions. <i>Computational Statistics</i> , 2012, 27, 627-659.	1.5	22
8	The distribution of the product of powers of independent uniform random variables – A simple but useful tool to address and better understand the structure of some distributions. <i>Journal of Multivariate Analysis</i> , 2013, 113, 19-36.	1.0	22
9	The advantage of decomposing elaborate hypotheses on covariance matrices into conditionally independent hypotheses in building near-exact distributions for the test statistics. <i>Linear Algebra and Its Applications</i> , 2009, 430, 2592-2606.	0.9	21
10	Near-exact distributions for the sphericity likelihood ratio test statistic. <i>Journal of Statistical Planning and Inference</i> , 2008, 138, 726-741.	0.6	18
11	Near-exact distributions for the independence and sphericity likelihood ratio test statistics. <i>Journal of Multivariate Analysis</i> , 2010, 101, 583-593.	1.0	18
12	Development and comparative study of two near-exact approximations to the distribution of the product of an odd number of independent Beta random variables. <i>Journal of Statistical Planning and Inference</i> , 2007, 137, 1560-1575.	0.6	17
13	Obtaining the exact and near-exact distributions of the likelihood ratio statistic to test circular symmetry through the use of characteristic functions. <i>Computational Statistics</i> , 2013, 28, 2091-2115.	1.5	15
14	Testing the hypothesis of a block compound symmetric covariance matrix for elliptically contoured distributions. <i>Test</i> , 2017, 26, 308-330.	1.1	15
15	The Wrapped Gamma Distribution and Wrapped Sums and Linear Combinations of Independent Gamma and Laplace Distributions. <i>Journal of Statistical Theory and Practice</i> , 2007, 1, 1-29.	0.5	13
16	Addendum to the Paper “The Generalized Integer Gamma Distribution – A Basis for Distributions in Multivariate Statistics”. <i>Journal of Multivariate Analysis</i> , 1999, 69, 281-285.	1.0	11
17	Finite Form Representations for Meijer G and Fox H Functions. <i>Lecture Notes in Statistics</i> , 2019, , .	0.2	11
18	The exact and near-exact distributions of the main likelihood ratio test statistics used in the complex multivariate normal setting. <i>Test</i> , 2015, 24, 386-416.	1.1	10

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19	On the distribution of linear combinations of independent Gumbel random variables. <i>Statistics and Computing</i> , 2015, 25, 683-701.	1.5	10
20	Study of the quality of several asymptotic and near-exact approximations based on moments for the distribution of the Wilks Lambda statistic. <i>Journal of Statistical Planning and Inference</i> , 2007, 137, 1612-1626.	0.6	9
21	Near-exact distributions for the likelihood ratio test statistic of the multi-sample block-matrix sphericity test. <i>Applied Mathematics and Computation</i> , 2012, 219, 2861-2874.	2.2	8
22	The Multi-Sample Block-Scalar Sphericity Test: Exact and Near-Exact Distributions for Its Likelihood Ratio Test Statistic. <i>Communications in Statistics - Theory and Methods</i> , 2013, 42, 1153-1175.	1.0	8
23	A mixture of Generalized Integer Gamma distributions as the exact distribution of the product of an odd number of independent Beta random variables: applications. <i>Journal of Interdisciplinary Mathematics</i> , 2006, 9, 229-248.	0.7	6
24	On the Exact and Near-Exact Distributions of the Product of Generalized Gamma Random Variables and the Generalized Variance. <i>Communications in Statistics - Theory and Methods</i> , 2014, 43, 2007-2033.	1.0	6
25	Testing the equality of several linear regression models. <i>Computational Statistics</i> , 2017, 32, 1453-1480.	1.5	6
26	Near-Exact Distributions for Likelihood Ratio Statistics Used in the Simultaneous Test of Conditions on Mean Vectors and Patterns of Covariance Matrices. <i>Mathematical Problems in Engineering</i> , 2016, 2016, 1-25.	1.1	5
27	The Exact and Near-Exact Distributions for the Wilks Lambda Statistic Used in the Test of Independence of Two Sets of Variables. <i>American Journal of Mathematical and Management Sciences</i> , 2010, 30, 111-145.	0.9	4
28	The block sphericity test's exact and near-exact distributions for the likelihood ratio statistic. <i>Mathematical Methods in the Applied Sciences</i> , 2012, 35, 373-383.	2.3	4
29	Testing the hypothesis of a doubly exchangeable covariance matrix. <i>Metrika</i> , 2020, 83, 45-68.	0.8	4
30	Hypothesis testing in multivariate normal models with block circular covariance structures. <i>Biometrical Journal</i> , 2022, 64, 557-576.	1.0	4
31	The Multi-sample Block-matrix Sphericity Test. , 2011, , .		3
32	On the Exact, Asymptotic and Near-exact Distributions for the Likelihood Ratio Statistics to Test Equality of Several Exponential Distributions. , 2011, , .		3
33	Instances of the product of independent beta random variables and of the Meijer G and Fox H functions with finite representations. , 2012, , .		3
34	A Family of Near-Exact Distributions Based on Truncations of the Exact Distribution for the Generalized Wilks Lambda Statistic. <i>Communications in Statistics - Theory and Methods</i> , 2012, 41, 2321-2341.	1.0	3
35	Near-exact distributions for the block equicorrelation and equivariance likelihood ratio test statistic. , 2013, , .		3
36	The multisample block-diagonal equicorrelation and equivariance test. , 2013, , .		3

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37	Interval estimation of small tail probabilities “ applications in food safety. <i>Statistics in Medicine</i> , 2016, 35, 3229-3240.	1.6	3
38	Likelihood Ratio Tests for Equality of Mean Vectors with Circular Covariance Matrices. <i>Contributions To Statistics</i> , 2018, , 255-269.	0.2	3
39	Using loglinear clustering for subcategorization identification. <i>Lecture Notes in Computer Science</i> , 1998, , 379-387.	1.3	2
40	A Generalized Integer Gamma Distribution as an Asymptotic Replacement for a Logbeta Distribution & Applications. <i>American Journal of Mathematical and Management Sciences</i> , 2003, 23, 383-404.	0.9	2
41	The Exact and Near-Exact Distributions of the Likelihood Ratio Statistic for the Block Sphericity Test. , 2010, , .		2
42	The multi-sample independence test. , 2012, , .		2
43	The simultaneous test of equality and circularity of several covariance matrices. <i>Journal of Statistical Theory and Practice</i> , 2018, 12, 861-885.	0.5	2
44	On the distribution of the likelihood ratio test of independence for random sample size “ a computational approach. <i>Journal of Computational and Applied Mathematics</i> , 2022, 404, 113394.	2.0	2
45	Inference for Multivariate Regression Model Based on Synthetic Data Generated Using Plug-in Sampling. <i>Journal of the American Statistical Association</i> , 2021, 116, 720-733.	3.1	2
46	The Block-Matrix Sphericity Test: Exact and Near-Exact Distributions for the Test Statistic. , 2013, , 169-177.		2
47	Testing for Double Complete Symmetry. , 2020, , 17-39.		2
48	The multi-sample block-scalar sphericity test under the complex multivariate normal case. , 2013, , .		1
49	Near-exact distributions for the likelihood ratio statistic used to test the reality of a covariance matrix. , 2013, , .		1
50	The exact distribution of the likelihood ratio test statistic used to test simultaneously the equality of means and circularity of the covariance matrix. , 2013, , .		1
51	A note on the distribution of the linear combination of independent Gamma random variables. , 2014, , .		1
52	The sphericity versus equivariance-equicorrelation test. <i>AIP Conference Proceedings</i> , 2015, , .	0.4	1
53	Near-Exact Distributions for the Likelihood Ratio Test Statistic for Testing Multisample Independence“The Real and Complex Cases. <i>Journal of Statistical Theory and Practice</i> , 2015, 9, 37-58.	0.5	1
54	Near-exact distributions for positive linear combinations of independent non-central Gamma random variables. <i>AIP Conference Proceedings</i> , 2016, , .	0.4	1

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55	Testing Equality of Mean Vectors with Block-Circular and Block Compound-Symmetric Covariance Matrices. Contributions To Statistics, 2021, , 157-201.	0.2	1
56	The Exact and Near-Exact Distributions for the Statistic Used to Test the Reality of Covariance Matrix in a Complex Normal Distribution. Springer Proceedings in Mathematics and Statistics, 2017, , 295-315.	0.2	1
57	The Likelihood Ratio Test for Equality of Mean Vectors with Compound Symmetric Covariance Matrices. Lecture Notes in Computer Science, 2017, , 20-32.	1.3	1
58	Application of the Finite Form Representations of Meijer G and Fox H Functions to the Distribution of Several Likelihood Ratio Test Statistics. Lecture Notes in Statistics, 2019, , 71-452.	0.2	1
59	On the Distribution of Linear Combinations of Chi-Square Random Variables. Emerging Topics in Statistics and Biostatistics, 2020, , 211-252.	0.1	1
60	The Likelihood Ratio Test of Equality of Mean Vectors with Doubly Exchangeable Covariance Matrix. Contributions To Statistics, 2021, , 151-191.	0.2	1
61	The joint characterization of discrete and continuous "waiting times" through their reciprocal relationships. Journal of Interdisciplinary Mathematics, 2006, 9, 297-318.	0.7	0
62	Preface of the "Symposium on Distribution Theory, Estimation and Inference", 2011, , .		0
63	Preface of the "2nd symposium on distribution theory, estimation and inference", 2012, , .		0
64	Preface of the "3rd symposium on distribution theory, estimation and inference"., 2013, , .		0
65	Preface for the Special Issue on Distribution Theory, Estimation, and Inference. Journal of Statistical Theory and Practice, 2015, 9, 1-1.	0.5	0
66	Preface of the "4th symposium on distribution theory, estimation and inference". AIP Conference Proceedings, 2015, , .	0.4	0
67	On sharp and highly manageable asymptotic approximations for instances of the Meijer G function. AIP Conference Proceedings, 2015, , .	0.4	0
68	Preface of the "5th Symposium on Distribution Theory, Estimation and Inference". AIP Conference Proceedings, 2016, , .	0.4	0
69	Inference for multivariate regression model based on multiply imputed synthetic data generated via posterior predictive sampling. AIP Conference Proceedings, 2017, , .	0.4	0
70	Approximate Finite Forms for the Cases Not Covered by the Finite Representation Approach. Lecture Notes in Statistics, 2019, , 491-505.	0.2	0
71	Mathematica, Maxima, and R Packages to Implement the Likelihood Ratio Tests and Compute the Distributions in the Previous Chapter. Lecture Notes in Statistics, 2019, , 453-490.	0.2	0
72	Multiple Products of Independent Beta Random Variables with Finite Form Representations for Their Distributions. Lecture Notes in Statistics, 2019, , 19-27.	0.2	0

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73	The Meijer G and Fox H Functions. Lecture Notes in Statistics, 2019, , 5-18.	0.2	0
74	Likelihood Ratio Tests for Elaborate Covariance Structures and for MANOVA Models with Elaborate Covariance Structures – A Review. Journal of the Indian Institute of Science, 2022, 102, 1219-1257.	1.9	0