

PUBLICATIONS

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- [1] Cordeiro, G.M., Ferrari, S.L.P. (1991). A modified score test statistic having chi-squared distribution to order n^{-1} . *Biometrika*, **78**, 573-582.
- [2] Cordeiro, G.M., Ferrari, S.L.P., Paula, G.A. (1993). Improved score tests for generalized linear models. *Journal of the Royal Statistical Society B*, **55**, 661-674.
- [3] Ferrari, S.L.P., Cribari-Neto, F. (1993). On the corrections to the Wald test of nonlinear restrictions. *Economics Letters*, **42**, 321-326.
- [4] Ferrari, S.L.P., Cordeiro, G.M. (1994). Matrix formulae for computing improved score tests. *Journal of Statistical Computation and Simulation*, **49**, 195-206.
- [5] Cordeiro, G.M., Botter, D.A., Ferrari, S.L.P. (1994). Nonnull asymptotic distributions of three classic criteria in generalized linear models. *Biometrika*, **81**, 709-720.
- [6] Cribari-Neto, F., Ferrari, S.L.P. (1995). Bartlett-corrected tests for heteroskedastic linear models. *Economics Letters*, **44**, 113-118.
- [7] Cribari-Neto, F., Ferrari, S.L.P. (1995). An improved Lagrange multiplier test for heteroskedasticity. *Communications in Statistics – Simulation and Computation*, **24**, 31-44.
- [8] Cribari-Neto, F., Ferrari, S.L.P. (1995). Second order asymptotics for score tests in generalised linear models. *Biometrika*, **82**, 426-432.
- [9] Cordeiro, G.M., Cribari-Neto, F., Aubin, E.C.Q., Ferrari, S.L.P. (1995). Bartlett corrections for one-parameter exponential family models. *Journal of Statistical Computation and Simulation*, **53**, 211-231.
- [10] Ferrari, S.L.P., Cordeiro, G.M. (1996). Corrected score tests for exponential family non-linear models. *Statistics and Probability Letters*, **26**, 7-12. [Doc. 9.2.10]
- [11] Cordeiro, G.M., Ferrari, S.L.P. (1996). Bartlett-type corrections for some score tests in proper dispersion models. *Communications in Statistics – Theory and Methods*, **25**, 29-48.
- [12] Ferrari, S.L.P., Cordeiro, G.M., Uribe-Opazo, M.A., Cribari-Neto, F. (1996). Improved score tests for one-parameter exponential family models. *Statistics and Probability Letters*, **30**, 61-71.
- [13] Ferrari, S.L.P., Arellano-Valle, R.B. (1996). Modified likelihood ratio and score tests in regression models using the t distribution. *Brazilian Journal of Probability and Statistics*, **10**, 15-33.
- [14] Ferrari, S.L.P., Botter, D.A., Cordeiro, G.M. e Cribari-Neto, F. (1996). Second and third order bias reduction for one-parameter family models. *Statistics and Probability Letters*, **30**, 339-345.
- [15] Ferrari, S.L.P., Botter, D.A., Cribari-Neto, F. (1997). Local power of three classic criteria in generalized linear models with unknown dispersion. *Biometrika*, **84**, 482-485.

- [16] Ferrari, S.L.P., Uribe–Opazo, M.A., Cribari–Neto, F. (1997). Second order asymptotics for score tests in exponential family nonlinear models. *Journal of Statistical Computation and Simulation*, **59**, 179-194.
- [17] Cribari–Neto, F., Botter, D.A., Cordeiro, G.M., Ferrari, S.L.P. (1998). Bias reduction in one-parameter exponential family models. *Communications in Statistics – Simulation and Computation*, **27**, 761-782.
- [18] Ferrari, S.L.P., Cribari–Neto, F. (1998). On bootstrap and analytical bias corrections. *Economics Letters*, **58**, 7-15.
- [19] Cordeiro, G.M., Ferrari, S.L.P. (1998). Generalized Bartlett corrections. *Communications in Statistics – Theory and Methods*, **27**, 509-527.
- [20] Cordeiro, G.M., Ferrari, S.L.P. (1998). A note on Bartlett-type corrections for the first few moments of test statistics. *Journal of Statistical Planning and Inference*, **71**, 261-269.
- [21] Cordeiro, G.M., Ferrari, S.L.P., Cysneiros, A.H.M.A. (1998). A formula to improve score test statistics. *Journal of Statistical Computation and Simulation*. **62**, 123-136.
- [22] Cordeiro, G.M., Ferrari, S.L.P., Botter, D.A., Cribari–Neto, F. (1999). Modified maximum likelihood estimation in one-parameter exponential family models. *Communications in Statistics – Theory and Methods*, **28**, 157-178.
- [23] Ferrari, S.L.P., Silva, A. F. (1999). Analytical and resampling-based bias corrections for one-parameter models. *Brazilian Journal of Probability and Statistics*, **13**, 13-17.
- [24] Ferrari, S.L.P., Cribari–Neto, F. (1999). On the robustness of analytical and bootstrap corrections to score tests in regression models. *Journal of Statistical Computation and Simulation*, **64**, 177-191.
- [25] Arellano–Valle, R.B., Ferrari, S.L.P., Cribari–Neto, F. (1999). Bartlett and Bartlett-type corrections for testing linear restrictions. *Applied Economics Letters*, **6**, 547-549.
- [26] Cordeiro, G.M., Ferrari, S.L.P., Uribe–Opazo, M.A., Vasconcellos, K.L.P. (2000). Corrected maximum likelihood estimation in a class of symmetric nonlinear regression models. *Statistics and Probability Letters*, **46**, 317-328.
- [27] Cribari–Neto, F., Ferrari, S.L.P., Cordeiro, G.M. (2000). Improved heteroscedasticity-consistent covariance matrix estimators. *Biometrika*, **87**, 907-918.
- [28] Ferrari, S.L.P., Cordeiro, G.M., Cribari–Neto, F. (2001). Higher order asymptotic refinements for score tests in proper dispersion models. *Journal of Statistical Planning and Inference*, **97**, 177-190. Special issue in honor of C.R. Rao.
- [29] Cribari–Neto, F., Ferrari, S.L.P. (2001). Monotonic improved critical values for econometric chi-squared asymptotic criteria. *Economics Letters*, **71**, 307-316.
- [30] Ferrari, S.L.P., Uribe–Opazo, M.A. (2001). Corrected likelihood ratio tests in a class of symmetric linear regression models. *Brazilian Journal of Probability and Statistics*, **15**, 49-67.

- [31] Cordeiro, G.M., Ferrari, S.L.P., Uribe–Opazo, M.A. (2002). Bartlett–type corrections for two–parameter exponential family models. *Communications in Statistics – Theory and Methods*, **31**, 901-924.
- [32] Ferrari, S.L.P., Cribari–Neto, F. (2002). Corrected modified profile likelihood heteroskedasticity tests. *Statistics and Probability Letters*, **57**, 353-361.
- [33] Ferrari, S.L.P., David, J.S., André, P.A., Pereira, L.A.A. (2002). Overdispersed regression models for air pollution and human health. In: Y. Dodge. (Org.). *Statistical Data Analysis Based on the L1-Norm and Related Methods*. Basel: Birkhäuser, p. 429-438.
- [34] Cordeiro, G.M., Botter, D.A., Barroso, L.P., Ferrari, S.L.P. (2003). Three corrected score tests for generalized linear models with dispersion covariates. *Statistica Neerlandica*, **57**, 391-409.
- [35] Ferrari, S.L.P., Cysneiros, A.H.M.A., Cribari–Neto, F. (2004). An improved test for heteroskedasticity using adjusted modified profile likelihood inference. *Journal of Statistical Planning and Inference*, **124**, 423-437.
- [36] Ferrari, S.L.P., Cribari–Neto, F. (2004). Beta regression for modelling rates and proportions. *Journal of Applied Statistics*, **31**, 799-815.
- [37] Ferrari, S.L.P., Lucambio, F., Cribari–Neto, F. (2005). Improved profile likelihood inference. *Journal of Statistical Planning and Inference*, **134**, 373-391.
- [38] Ferrari, S.L.P., Ferreira da Silva, M., Cribari–Neto, F. (2005). Adjusted profile likelihood for two-parameter exponential family models. *Communications in Statistics – Theory and Methods*, **34**, 257-276.
- [39] Cribari–Neto, F., Ferrari, S.L.P., Oliveira, W.A.S.C. (2005). Numerical evaluation of tests based on different heteroskedasticity-consistent covariance matrix estimators. *Journal of Statistical Computation and Simulation*, **75**, 611-628.
- [40] Cordeiro, G.M., Ferrari, S.L.P. (2005). Third–order asymptotic distribution of classic tests for one-parameter exponential family models. *Communications in Statistics – Theory and Methods*, **34**, 1041-1055.
- [41] Cysneiros, A.H.M.A., Ferrari, S.L.P. (2006). An improved likelihood ratio test for varying dispersion in exponential family nonlinear models. *Statistics and Probability Letters*, **76**, 255-265.
- [42] Ferreira da Silva, M., Ferrari, S.L.P., Cribari–Neto, F. (2007). Adjusted profile likelihoods for the Weibull shape parameter. *Journal of Statistical Computation and Simulation*, **77**, 531-548.
- [43] Ferreira da Silva, M., Ferrari, S.L.P., Cribari–Neto, F. (2008). Improved likelihood inference for the shape parameter in Weibull regression. *Journal of Statistical Computation and Simulation*, **78**, 789-811.
- [44] Espinheira, P.L., Ferrari, S.L.P., Cribari–Neto, F. (2008). On beta regression residuals. *Journal of Applied Statistics*, **35**, 407-419.

- [45] Uribe-Opazo, M.A., Ferrari, S.L.P., Cordeiro, G.M. (2008). Improved score tests in symmetric linear regression models. *Communications in Statistics – Theory and Methods*, **37**, 261-276.
- [46] Espinheira, P.L., Ferrari, S.L.P., Cribari-Neto, F. (2008). Influence diagnostics in beta regression. *Computational Statistics and Data Analysis*, **52**, 4417-4431.
- [47] Ferrari, S.L.P., Cysneiros, A.H.M.A. (2008). Skovgaard's adjustment to likelihood ratio tests in exponential family nonlinear models. *Statistics and Probability Letters*, **78**, 3047-3055.
- [48] Melo, T.F.N., Ferrari, S.L.P. & Cribari-Neto, F. (2009). Improved testing inference in mixed linear models. *Computational Statistics & Data Analysis*, **53**, 2573-2582.
- [49] Melo, T.F.N., Ferrari, S.L.P. & Cribari-Neto, F. (2009). Improved testing inference in mixed linear models. *Computational Statistics & Data Analysis*, **53**, 2573-2582.
- [50] Cysneiros, A.H.M.A., Rodrigues, K.S.P., Cordeiro, G.M., Ferrari, S.L.P. (2010). Three Bartlett-type corrections for score statistics in symmetric nonlinear regression models. *Statistical Papers*, **51**, 273-284.
- [51] Melo, T.F.N. & Ferrari, S.L.P. (2010). A modified signed likelihood ratio test in elliptical structural models. *Advances in Statistical Analysis*, **94**, 75-87.
- [52] Lemonte, A.J., Ferrari, S.L.P. & Cribari-Neto, F. (2010). Improved likelihood inference in Birnbaum Saunders regressions. *Computational Statistics & Data Analysis*, **54**, 1307-1316.
- [53] Ospina, R., Ferrari, S.L.P. (2010). Inflated beta distributions. *Statistical Papers*, **51**, 111-126.
- [54] Lemonte, A.J. & Ferrari, S.L.P. (2011). Small-sample corrections for score tests in Birnbaum-Saunders regressions. *Communications in Statistics - Theory and Methods*, **40**, 232-243.
- [55] Lemonte, A.J. & Ferrari, S.L.P. (2011). Signed likelihood ratio tests in the Birnbaum Saunders regression model. *Journal of Statistical Planning and Inference*, **141**, 1031-1040.
- [56] Lemonte, A.J. & Ferrari, S.L.P. (2011). Size and power properties of some tests in the Birnbaum Saunders regression model. *Computational Statistics & Data Analysis*, **55**, 1109-1117.
- [57] Lemonte, A.J. & Ferrari, S.L.P. (2011). Testing hypotheses in the Birnbaum-Saunders distribution under type-II censored samples. *Computational Statistics & Data Analysis*, **55**, 2388-2399.
- [58] Ferrari, S.L.P. & Pinheiro, E.C. (2011). Improved likelihood inference in beta regression. *Journal of Statistical Computation and Simulation*, **81**, 431-443.
- [59] Ferrari, S.L.P., Espinheira, P.L. & Cribari-Neto (2011). Diagnostic tools in beta regression with varying dispersion. *Statistica Neerlandica*, **65**, 337-351.
- [60] Ospina, R. & Ferrari, S.L.P. (2012). A general class of zero-or-one inflated regression models. *Computational Statistics & Data Analysis*, **56**, 1609-1623.

- [61] Lemonte, A.J. & Ferrari, S.L.P. (2012). The local power of the gradient test. *Annals of the Institute of Statistical Mathematics*, **64**, 373-381.
- [62] Lemonte, A.J. & Ferrari, S.L.P. (2012). A note on the local power of the LR, Wald, score and gradient tests. *Electronic Journal of Statistics*, **6**, 421-434.
- [63] Lemonte, A.J. & Ferrari, S.L.P. (2012). Local power of the LR, Wald, score and gradient tests in dispersion models. *Statistical Methodology*, **9**, 537-554.
- [64] Ospina, R. & Ferrari, S.L.P. (2012). On bias correction in a class of inflated beta regression models. *International Journal of Statistics and Probability*, **2**, 269-282.
- [65] Vargas, T.M., Ferrari, S.L.P. & Lemonte, A.J. (2013). Gradient statistic: Higher-order asymptotics and Bartlett-type correction. *Electronic Journal of Statistics*, **7**, 43-61.
- [66] Figueroa-Zúñiga, J.I., Arellano-Valle, R.B. & Ferrari, S.L.P. (2013). Mixed beta regression: A Bayesian perspective. *Computational Statistics and Data Analysis*, **61**, 137-147.
- [67] Carrasco, J.M.F., Ferrari, S.L.P. & Arellano-Valle, R.B. (2014). Errors-in-variables beta regression models. *Journal of Applied Statistics*, **41**, 1530-1547.
- [68] da Silva-Júnior, A.H.M., da Silva, D.N. & Ferrari, S.L.P. (2014). mdscore: An R package to compute improved score tests in generalized linear models. *Journal of Statistical Software*, **61**, 1-16.
- [69] Espinheira, P.L., Ferrari, S.L.P. & Cribari-Neto, F. (2014). Bootstrap prediction intervals in beta regressions. *Computational Statistics*, **29**, 1263-1277.
- [70] Ferrari, S.L.P. & Pinheiro, E.C. (2014). Small-sample likelihood inference in extreme-value regression models. *Journal of Statistical Computation and Simulation*, **84**, 582-595.
- [71] Medeiros, F.M.C., da Silva-Júnior, A..M., Valen  a, D.M. & Ferrari, S.L.P.. (2014). Testing inference in accelerated failure time models. *International Journal of Statistics and Probability*, **3**, 121-131.
- [72] Melo, T.F.N. & Ferrari, S.L.P. (2014). Adjusted likelihood inference in an elliptical multivariate errors-in-variables model. *Communications in Statistics – Theory and Methods*, **43**, 5226-5240.
- [73] Melo, T.F.N., Ferrari, S.L.P. & Patriota, A.G. (2014). Modified likelihood ratio tests in heteroskedastic multivariate regression models with measurement error. *Journal of Statistical Computation and Simulation*, **84**, 2233-2247.
- [74] Vargas, T.M., Ferrari, S.L.P. & Lemonte, A.J. (2014). Improved likelihood inference in generalized linear models. *Computational Statistics and Data Analysis*, **74**, 110-124.
- [75] Ferrari, S.L.P. & Pinheiro, E.C. (2016). Small-sample one-sided testing in extreme value regression models. *Advances in Statistical Analysis*, **100**, 79-97.
- [76] Medeiros, F.M.C. & Ferrari, S.L.P. (2016). Small-sample testing inference in symmetric and log-symmetric linear regression models. <https://arxiv.org/pdf/1602.00769v1.pdf>.

- [77] Melo, T.F.N., Ferrari, S.L.P. & Patriota, A.G. (2016). Improved estimation in a general multivariate elliptical model. *Brazilian Journal of Probability and Statistics*, <http://imstat.org/bjps/papers/BJPS331.pdf>.
- [78] Melo, T.F.N., Ferrari, S.L.P. & Patriota, A.G. (2016). Improved hypothesis testing in a general multivariate elliptical model. *Journal of Statistical Computation and Simulation*, <http://dx.doi.org/10.1080/00949655.2016.1269330>.
- [79] Morais, A.L. & Ferrari, S.L.P. (2016). A class of regression models for parallel and series systems with a random number of components. *Statistics*, **51**, 294-313.
- [80] Pinheiro, E.C & Ferrari, S.L.P. (2016). A comparative review of generalizations of the Gumbel extreme value distribution with an application to wind speed data. *Journal of Statistical Computation and Simulation*, **86**, 2241-2261.
- [81] Ferrari, S.L.P. & Fumes, G. (2017). Box-Cox symmetric distributions and applications to nutritional data. *Advances in Statistical Analysis*. DOI: 10.1007/s10182-017-0291-6.
- [82] Figueroa-Zúñiga, J.I., Carrasco, J.M.F., Arellano-Valle, R.B. & Ferrari, S.L.P. (2017). A Bayesian approach to errors-in-variables beta regression. *Brazilian Journal of Probability and Statistics*. <http://www.imstat.org/bjps/papers/BJPS354.pdf>