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Title: Case-deletion Diagnostics for Linear Mixed Models Using Skew-Normal/Independent Distributions.

Abstract: The influence of observations on statistical inference is of importance in statistical data analysis. A practical and well-established approach to influence analysis is based on case deletion. Here, the linear mixed models is based on multivariate skew normal/independent distribution (Lachos et al. 2009), we derive influence measures according to the approach proposed by Cook (1977) and Zhu et al. (2001). Their approach is based on the Q-function used in the EM-estimation. Finally, a real data set has been analyzed in order to illustrate the usefulness of the proposed methodology.

Joint work with Camila Borelli Zeller (UFJF).