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*Sensitivity analysis of M-estimators of non-linear regression models*

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**Abstract:** An asymptotic formula for the difference of the  $M$ -estimates of the regression coefficients of the non-linear model for all  $n$  observations and for  $n - 1$  observations is presented under conditions covering the twice absolutely continuous  $\varrho$ -functions. Then the implications for the  $M$ -estimation of the regression model are discussed.

**Keywords:**  $M$ -estimation of non-linear regression models, the influence points

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