International J. of Math. Sci. & Engg. Appls. (IJMSEA) ISSN 0973-9424, Vol. 8 No. I (January, 2014), pp. 63-72

## STATISTICAL DIAGNOSTIC FOR SEMI-PARAMETRIC REGRESSION MODEL WITH RANDOM RIGHT CENSORSHIP BASED ON EMPIRICAL LIKELIHOOD METHOD

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## Abstract

In this paper, the empirical likelihood method to study the semi-parametric regression model with random right censorship. First the primary model is transformed to semi-parametric regression model. Then the parameter estimation equation based on the experience of application of likelihood methods to estimate. Experience based on the deletion model proposed experience like natural Cook distance, likelihood distance, then find outliers and strong influence point. At last, an example is given to illustrate our results.

Key Words : Random right censorship, Kaplan-Meier product -limit estimator, Empirical likelihood, Outliers, Influence analysis.

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