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Ying-Ju Chen* (yingc@bgsu.edu), **Wei Ning** (wning@edu.tw) and **Ajrun K. Gupta** (gupta@bgsu.edu). *Jackknife Empirical Likelihood Based Detection Procedure for Change-Point in Mean Residual Life Functions.*

Mean residual life function is an important function in survival analysis which describes the expected remaining lifetime given survival time up to a certain age. In this talk, I will introduce the nonparametric method based on Jackknife empirical likelihood through U -statistic to test the change point of mean residual life functions of independent random variables. The test statistic and its asymptotic distribution are investigated. Monte Carlo Simulations under different lifetime settings are carried out to show the power performance and the control of Type I error. The real data example is analyzed to illustrate the testing procedure. (Received September 16, 2014)