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A note on monitoring ratios of Weibull percentiles

Pasquale Erto

(Submitted on 25 May 2013)

This note introduces a new Bayesian control chart to compare two processes by monitoring the ratio of their percentiles under Weibull assumption. Both incontrol and out-of-control parameters are supposed unknown. The chart analyse the sampling data directly, instead of transforming them in order to comply with the usual normality assumption, as most charts do. The chart uses the whole accumulated knowledge, resulting from the current and all the past samples, to monitor the current value of the ratio. Two applications to fields of large interest give a first picture of the features of the proposed chart.

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