

SUMMARY

PERBANDINGAN PENGARUH KESALAHAN PENGUKURAN PADA PETA KENDALI CUSUM DAN EWMA DALAM MENDETEKSI PERGESERAN RATA-RATA PROSES

COMPARISON OF MEASUREMENT ERROR EFFECT
ON CUSUM AND EWMA CONTROL CHART
TO DETECT THE SHIFT IN MEAN PROCESS

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Subject : Pengawasan produksi, kualitas pengawasan
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Description :

Peta kendali Cumulative Sum (Cusum) dan Exponentially Weighted Moving Average (EWMA) diketahui efektif untuk mengetahui pergeseran rata-rata proses yang kecil. Penelitian yang telah dilakukan selama ini adalah mengkaji peta kendali Cusum dan EWMA secara terpisah. Kesalahan pengukuran biasanya sering ditemui dalam aplikasi pengendalian kualitas yang mempengaruhi hasil dari proses. Dalam penelitian ini akan dipaparkan bagaimana pembentukan peta kendali EWMA dan Cusum, selanjutnya dibandingkan pengaruh kesalahan pengukuran pada peta kendali Cusum dan EWMA untuk mendeteksi pergeseran rata-rata proses. Perbandingan kedua peta kendali tersebut berdasarkan nilai Average Run Length (ARL), sehingga didapatkan peta kendali yang lebih peka untuk mendeteksi pergeseran rata-rata proses yang kecil. Model yang digunakan pada penelitian ini diasumsikan dengan covariate.

Description Alt:

Cusum and EWMA control charts are known effective to figure out the shift of small mean process. Some researches had been done so far to study the Cusum and EWMA control chart separately. Measurement error is usually often meet in quality control application, which is affecting the result of process. In this study will elaborate how to construct Cusum and EWMA control chart and the comparison of measurement error in Cusum and EWMA control chart will be studied also to detect shift in mean process. The comparison of those both control chart is based on ARL value, so that the more sensitive control chart to detect the shift of mean process will be achieved. Model that will be used in this study is assumed by covariate.

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Thank You,

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