

A Nonparametric Control Chart Based On The Mann Whitney

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Nonparametric control chart are presented for the problem of detecting changes in the process median (or mean), or changes in the process variability when samples are taken at regular time...

[\(PDF\) Control Charts, Nonparametric - ResearchGate](#)

Recently, Qiu22 proposed a nonparametric multivariate control chart based on log-linear modeling. He proposed to estimate the in-control distribution of the original training data $X(i)$ by transforming $X(i)$ into binary forms $Y(i)$ to enable a log-linear modeling approach for estimating the joint distribution of $Y(i)$. Even though information is lost in the transformation, Qiu's method

[Nonparametric Multivariate Control Charts Based on A ...](#)

Multivariate control charts have a wide range of applications in the field of quality management. This paper proposes a new multivariate non-parametric control chart based on run test. First, the shortest Hamiltonian path of the observations is determined by means of Kruskal algorithm. Then an EWMA control chart with sliding window based on the number of runs of the shortest Hamiltonian path is proposed.

[A multivariate non-parametric control chart based on run ...](#)

A non parametric CUSUM control chart based on the Mann-Whitney statistic. ABSTRACT We consider a novel univariate non parametric cumulative sum (CUSUM) control chart for detecting the small shifts in the mean of a process, where the nominal value of the mean is unknown but some historical data are available. This chart is established based on the Mann-Whitney statistic as well as the change-point model, where any assumption for the underlying distribution of the process is not required.

[\[PDF\] A non parametric CUSUM control chart based on the ...](#)

For this study, we establish three non-parametric control charts based on RSS viz. the Wilcoxon rank sum charts (W-Chart), the Mann-Whitney chart (U-Chart) and the Hodges-Lehmann estimator chart (HL-Chart). The data are generated from normal distribution and uniform distribution and 11 shapes of Weibull distributions with the process shift

[Three Non-parametric Control Charts Based on Ranked Set ...](#)

Using these tests, we proposed nonparametric control charts to detect a shift in the location parameter of the multivariate process. We investigate the performance of the proposed control charts using the average run-length measure for various distributions. Also, the control chart procedure is illustrated by using wine quality data.

[Nonparametric Control Charts Based on Data Depth for ...](#)

Recently, control charts have been developed for larger parametric families. A third possibility is to apply a suitable (modified version of a) nonparametric control chart. This paper deals with the question when to switch from the control chart based on normality to a parametric control chart, or even to a nonparametric one.

[Normal, parametric and nonparametric control charts, a ...](#)

A non parametric Shewhart-type control chart based on a partially rank-ordered set (PROS) sampling design is considered in this study to monitor the process mean.

[\(PDF\) Nonparametric Control Charts: An Overview and Some ...](#)

Nonparametric control chart are presented for the problem of detecting changes in the process median (or mean), or changes in the process variability when samples are taken at regular time intervals. The proposed procedures are based on sign-test statistics computed for each sample, and are used in Shewhart and cumulative sum control charts.

[Nonparametric quality control charts based on the sign ...](#)

Multivariate Nonparametric Control Chart With Storage Space Abstract: Currently, it is important to monitor multivariate data in a timely manner. The spatial-rank-based multivariate exponentially weighted moving average control chart (SREWMA) has better relative performance for multivariate data monitoring when the underlying distribution is non-normal.

[Multivariate Nonparametric Control Chart With Storage ...](#)

Shewhart-type distribution-free control charts are considered for the known in-control median of a continuous process distribution based on the Wilcoxon signed-rank statistic and some runs type rules. The new charts are more attractive to the practitioner than a basic Shewhart-type signed-rank chart proposed by Bakir (2004 Bakir , S. T. (2004).

[A Nonparametric Shewhart-Type Signed-Rank Control Chart ...](#)

A nonparametric group runs control chart to detect shifts in the process median. Indian Association of Productivity Quality and Reliability Transactions, 16, 29-53. Google Scholar. Garde, M. P., & Kakade, V. C. (2019). Some side sensitive group runs based control charts to detect shifts in the process median.

[Multivariate Nonparametric Control Charts Based on Ordered ...](#)

Abstract Nonparametric control charts are used in process monitoring when there is insufficient information about the form of the underlying distribution. In this article, we propose a triple expon...

[A nonparametric triple exponentially weighted moving ...](#)

de Wiel (2008) nonparametric control charts are more preferable for skewed distribution because it is less sensitive to the outlier. Some authors have discussed several nonparametric statistics on control charts. Bakir (2004) had proposed a distribution-free Shewhart control chart based on Wilcoxon

[Nonparametric CUSUM Control Chart based on Wilcoxon Signed ...](#)

In addition, the proposed control chart based on ranks of data is a nonparametric method without assuming normal or Poisson distribution for the data. To investigate the performance of the proposed...

[Multivariate nonparametric chart for influenza epidemic ...](#)

In this paper, we propose a new nonparametric control chart (called the kLINK chart) based on a k-linkage ranking algorithm that calculates the ranking of a new observation relative to the in-control training data.

[Nonparametric multivariate control charts based on a ...](#)

Elisavet M. Sofikitou, Markos V. Koutras, Multivariate Nonparametric Control Charts Based on Ordered Samples, Signs and Ranks, Distribution-Free Methods for Statistical Process Monitoring and Control, 10.1007/978-3-030-25081-2, (57-105), (2020).

[A Bivariate Semiparametric Control Chart Based on Order ...](#)

(Redirected from Distribution-free Control Chart) Distribution-free (nonparametric) control charts are one of the most important tools of statistical process monitoring and control. Implementation techniques of distribution-free control charts do not require any knowledge about the underlying process distribution or its parameters.

[Distribution-free control chart - Wikipedia](#)

In this paper, a new nonparametric EWMA Sign Control Chart is proposed for monitoring and detecting possible deviation from the process target. The sampling properties of the new monitoring statistics are examined and the average run lengths of the proposed chart are derived for evaluating its performance.